

**45वां अंक**

**45<sup>th</sup> - ISSUE**

**भारत में फसल सांख्यिकी सुधार योजना  
के माध्यम से  
फसल सांख्यिकी प्रणाली का पुनरावलोकन  
REVIEW OF CROP STATISTICS SYSTEM  
IN INDIA THROUGH THE SCHEME OF IMPROVEMNET OF  
CROP STATISTICS**



**2019-20**

भारत सरकार  
सांख्यिकी एवं कार्यक्रम कार्यान्वयन मंत्रालय  
राष्ट्रीय प्रतिदर्श सर्वेक्षण कार्यालय (क्षेत्र संकार्य प्रभाग)  
कृषि सांख्यिकी मुख्यालय  
फरीदाबाद

GOVERNMENT OF INDIA  
MINISTRY OF STATISTICS & PROGRAMME IMPLEMENTATION  
NATIONAL SAMPLE SURVEY OFFICE  
(FIELD OPERATIONS DIVISION)  
AGRICULTURAL STATISTICS HEADQUARTERS  
FARIDABAD



## प्रस्तावना

राष्ट्रीय अर्थव्यवस्था में कृषि क्षेत्र द्वारा निभाई गई महत्वपूर्ण भूमिका को देखते हुए फसलों के अंतर्गत क्षेत्रफल और फसल उत्पादन पर समयबद्ध, विश्वसनीय तथा विस्तृत कृषि सांख्यिकी संग्रहण की आवश्यकता विशेष महत्व रखती है। निर्धारित कार्य प्रणाली का पालन करते हुए भू-उपयोग तथा फसलाधीन क्षेत्र के सांख्यिकी संग्रहण की प्राथमिक जिम्मेदारी राज्य प्राधिकारों की होती है। मुख्य फसलों की उपज दरों का आँकलन राज्य की विभिन्न एजेंसियों द्वारा यादृच्छिक प्रतिचयन की वैज्ञानिक तकनीकों का पालन करते हुये सामान्य फसल प्राक्कलन सर्वेक्षण (सा. फ. प्रा. सर्वे.) के माध्यम से किया जाता है।

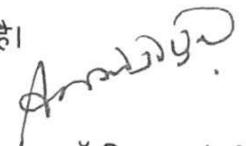
2. राष्ट्रीय प्रतिदर्श सर्वेक्षण कार्यालय (रा. प्र. स. का.), सांख्यिकी एवं कार्यक्रम कार्यान्वयन मंत्रालय, भारत सरकार की यह समग्र जिम्मेदारी है कि वह विश्वसनीय फसल प्राक्कलन हेतु उचित सर्वेक्षण तकनीक विकसित करने के लिए राज्यों के कर्मचारियों को प्रशिक्षण, तकनीकी सहयोग एवं पर्यवेक्षण का कार्य करे। फसल सांख्यिकी सुधार योजना, जो कि 1973-74 से लागू है, का उद्देश्य राष्ट्रीय सांख्यिकीय कार्यालय तथा राज्य सरकारों के संयुक्त प्रयासों से प्राथमिक क्षेत्र कार्य में तकनीकी पर्यवेक्षण द्वारा राज्यों में प्रचलित फसल सांख्यिकी संग्रहण प्रणाली की कमियों का पता लगाना और प्रणाली में सुधार के लिए उपाय सुझाना है। इसे प्राप्त करने के लिए क्षेत्रफल परिगणना तथा समुच्चयीकरण पर प्रतिदर्श जाँच का कार्य प्रत्येक मौसम में लगभग 10,000 प्रतिदर्श ग्रामों में किया जाता है तथा वर्ष भर में लगभग 32,000 फसल कटाई प्रयोगों का निरीक्षण भी किया जाता है।

3. फसल सांख्यिकी सुधार योजना के निष्कर्ष सभी शामिल राज्यों का समुच्चयन कर "भारत में फसल सांख्यिकी सुधार योजना के माध्यम से फसल सांख्यिकी प्रणाली का पुनरावलोकन" के अन्तर्गत प्रतिवेदन के रूप में प्रकाशित किए जाते हैं। यह प्रतिवेदन श्रृंखला में 45वाँ है जो कि अखिल भारतीय स्तर पर कृषि वर्ष 2019-20 के दौरान फसल सांख्यिकी सुधार योजना के निष्कर्षों को प्रस्तुत करता है।

4. मैं इस प्रतिवेदन को तैयार करने में श्रीमती नितिका गुप्ता, उप महानिदेशक, रा.प्र.स.का.(क्षे.सं.प्र.), कृषि सांख्यिकी मुख्यालय फरीदाबाद के मार्गदर्शन में अधिकारियों की टीम, जो इस कार्य में सम्मिलित रही हैं, की निष्ठा एवं अथक प्रयासों की सराहना करता हूँ। आंकड़ों का संग्रहण, संसाधन तथा सम्बन्धित अन्य कार्य सम्पन्न करने वाले सभी अधिकारियों का योगदान भी प्रशंसनीय है। मैं सम्बन्धित राज्य कृषि सांख्यिकी प्राधिकारों एवं अन्य राज्यीय पदाधिकारियों, जो कि फसल सांख्यिकी सुधार योजना को कृषि वर्ष 2019-20 में सफलतापूर्वक संचालित करने में सहयोग देते रहे हैं, का हृदय से आभार व्यक्त करता हूँ।

5. प्रतिवेदन की विषयवस्तु व प्रस्तुतीकरण में सुधार हेतु सुझावों का स्वागत है।

अप्रैल, 2023



(डॉ बिभास चौधरी)

अपर महानिदेशक

## PREFACE

The need for timely, reliable and comprehensive statistics on area under crops and crop production assumes special significance in view of the vital role played by the Agricultural Sector in the Indian economy. The primary responsibility for collection of statistics of land use and area under crops following prescribed procedures rests with various State Authorities. The yield rates of principal crops are estimated through General Crop Estimation Surveys (GCES) conducted by State agencies following scientific techniques of random sampling.

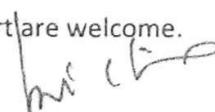
2. The Field Operations Division of NSSO as a consequence of the Cabinet Resolution of 1952 that transferred work related to the estimation of food production and large-scale sample survey from the Indian Council Of Agricultural Research (I.C.A.R) to the National Sample Survey (NSS) spearheaded the systematic attempt to develop Statistical architecture for Crop Statistics in India. This involved monitoring, forecasting and estimation of area under major crops and estimation of crop wise yield. The twin surveys namely Land Utilizations Surveys (LUS) and Crop Yield Statistics (CYS) till 1970 institutionalized application of Statistical techniques in large scale sample survey related to crop statistics and acted as the hand holding exercise for many State governments to develop equivalent-capacity and offices to carry out statistical work related to crop statistics under their domain.

3. Currently, it has the overall responsibility of providing technical support to the States in developing suitable survey techniques for obtaining reliable estimates, assistance in training of staff and exercising supervision. The Scheme of Improvement of Crop Statistics (ICS) was taken up in the year 1973-74 with the objective of pointing out, through joint efforts of NSSO and State Governments, the deficiencies in the system of crop statistics by exercising technical supervision over the primary field work and suggesting remedial measures for strengthening the system. To achieve this, sample checks on area enumeration and area aggregation are carried out in a sample of about 10,000 villages in each season and conduct of around 32,000 crop cutting experiments in a year.

4. The findings of the ICS scheme are brought out in the form of Report "Review of Crop Statistics System in India through the scheme of Improvement of Crop Statistics" for the aggregate of the States covered. This report is forty fifth in the series and deals with the findings of the ICS scheme during the agricultural year 2019-20 at all India level.

5. I place on record my deep appreciation for the dedicated and painstaking efforts made by the team of officers under the guidance of Smt. Nitika Gupta, Deputy Director General of NSSO (FOD), Agricultural Statistics Headquarters, Faridabad who have been associated with the work of bringing out this report. The contribution of field officials in data collection and other related work is also appreciated. I also acknowledge with gratitude the support and cooperation received from State Agriculture Statistics Authorities and other State officials engaged in the field for the successful conduct of the ICS scheme during the year 2019-20.

6. Suggestions for improving the content and presentation of the report are welcome.



April, 2023

(Dr. Bivas Chaudhuri)  
Addl. Director General



## प्रकाशन से जुड़े अधिकारीगण

|   |                        |                           |
|---|------------------------|---------------------------|
| 1 | श्रीमती नितिका गुप्ता  | उप महानिदेशक              |
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| 6 | Shri Rajneesh Singh      | Junior Statistical Officer |



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## **A. Organization and Agricultural Statistics Schemes**

### **1. National Statistical Commission (NSC)**

The National Statistical Commission set up by the Government in January 2000 under the Chairmanship of Dr. C. Rangarajan, reviewed the statistical system and the entire gamut of Official Statistics in the country. The Rangarajan Commission submitted its report to the Government in August 2001. In line with the recommendations of the Rangarajan Commission, the Government of India resolved to set up a permanent National Statistical Commission (NSC), vide Notification No. 85 dated 1st June 2005 published in the Gazette of India, Extraordinary, Part-III-Section. The NSC was initially constituted on 12th July 2006 to serve as a nodal and empowered body for all core statistical activities of the country and to evolve, monitor and enforce statistical priorities and standards and ensure statistical co-ordination. The Commission consists of a part-time Chairman, four part-time Members and CEO, NITI Ayog as an ex-officio Member. The Chief Statistician of India (CSI) is the Secretary to the Commission. He has a dual role, as he is also the Secretary to the Government of India in the Ministry of Statistics and Programme Implementation (MoSPI). The National Statistical Commission took note of the findings and recommendations of all important bodies in the context of the prevailing status of Agricultural Statistics and attempted a fresh analysis focusing its attention on identification of the deficiencies of the system and the remedial measures required to set them right.

### **2. National Sample Survey Office (NSSO)**

The Directorate of National Sample Survey (NSS) established in 1950 was re-organized into the present National Sample Survey Office (NSSO) under the Government of India's Resolution of 5th March, 1970. The organization now consists of four functional Divisions with a Director General (DG) at the apex level. Each of the Divisions viz. (i) Survey Design and Research Division, (ii) Data Processing Division (iii) Survey Coordination Division and (iv) Field Operations Division is headed by an Additional Director General.

The Field Operations Division (FOD) undertakes the field work relating to Socio-Economic Surveys, Industrial Surveys, Surveys for collection of retail prices in urban and rural areas, Urban Frame Survey for updation of area frame in Urban areas for use in Socio-economic surveys & Methodological Surveys/Studies and Sample Check on Agriculture Surveys under the scheme for Improvement of Crop Statistics (ICS) in 22 States/UTs.

### **3. National Commission on Agriculture**

National Commission on Agriculture, under the Ministry of Agriculture & Farmers Welfare, was founded in 1976 to advise the Government on enhancing agricultural productivity.

### **4. Agricultural statistics**

The Agricultural statistics System is comprehensive and provides data on a wide range of topics such as crop area and production, land use, irrigation, land holdings, agricultural prices and market intelligence, livestock, fisheries, forestry, etc.

### **5. Agriculture Surveys under NSSO (FOD)**

In the context of agriculture surveys, the Field Operations Division (FOD) was instrumental in the creation of institutional framework through the Land Utilization Surveys (LUS) and CES (Crop Estimation Surveys) as large scale sample surveys by NSS during early 1950s. NSSO (FOD) is responsible for all activities including survey design, field operations, data processing and preparation of reports under the ICS scheme. The major functions of Agricultural Statistics Hqrs. NSSO (FOD) include supervision and control of the field work under the scheme for Improvement of Crop Statistics (ICS) and processing of data collected through schedules AS 1.0, AS 1.1 and AS 2.0 prescribed for ICS work. FOD undertakes the fieldwork for the Central Sample relating to the scheme for Improvement of Crop Statistics through its network of field offices spread all over the country. NSSO (FOD) is also entrusted with the responsibility of providing technical guidance and assistance to the states in developing suitable survey techniques for obtaining timely and reliable estimates of crop area and yield, and imparting training to State Govt. field personnel. The training courses on Agricultural Statistics for Senior Statistical Officers of FOD and State/UT Govt. officers are also conducted AS Hqrs. Faridabad of NSSO (FOD).

### **6. Improvement of Crop Statistics (ICS)**

The scheme of ICS, which had a modest beginning in the year 1973-74, reached to the optimum coverage in the subsequent years. The scheme is closely related to the schemes of TRS, EARAS and GCES and was initiated with the objective of pointing out the deficiencies in the system of collection of area and yield statistics through the joint efforts of the NSSO (FOD) and State Agricultural Statistics Authority (SASA) and to suggest remedial measures. The scheme is operational in 20 States and 2 UTs covering about 44 crops.

### **7. General Crop Estimation Surveys (GCES)**

FOD is mandated to provide technical guidance to 29 States/UTs in planning, implementation, procedural adherence and training of personnel associated with CCEs in the purview of General Crop Estimation Survey. GCES consists of performing a specified number of crop cutting experiments in randomly selected fields. Crop cutting experiment conducted under well designed estimation survey, is an effective technique for estimating the average yield by selecting the field, randomly locating a plot of a specified size, harvesting, threshing, weighing and recording the weight of the produce from the plot.

## **8. Timely Reporting Scheme (TRS)**

The Ministry of Agriculture & Farmer's Welfare initiated TRS in 1968-69 in land record states in order to reduce the time lag between (a) completion of sowing and the availability of estimates of area sown and (b) the completion of harvesting and availability of estimates of production in respect of important crops.

## **9. Establishment of an Agency for Reporting Agricultural Statistics (EARAS)**

The Ministry of Agriculture & Farmer's Welfare sponsored a scheme in 1975-76 for Establishment of an Agency for Reporting Agricultural statistics (EARAS) in three permanently settled States of Kerala, Odisha and West Bengal and also extended the same to Arunachal Pradesh, Nagaland, Sikkim and Tripura.

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## **B. Concepts & Definitions**

### **1. Area Statistics**

#### **1.1 Schedule AS 1.0**

Schedule AS 1.0 is designed to record the observations based on sample check on area enumeration, which consists of selecting and locating a sample of 20 serial/survey numbers in each selected village, with the help of the village map and records and noting down the actual utilization to which they are put in each season.

#### **1.2 Schedule AS 1.1**

Schedule AS 1.1 is designed to study the discrepancies between the figures of area under the crops/crop mixtures/non-crop utilizations (i) as totalled by the patwari, (ii) as reported by him in TRS statements/crop abstract/ non-crop utilization statements and (iii) as checked by the Senior Statistical Officers/State Supervisors. For arriving at (iii), the Supervisor has to total page by page the survey/Sub-survey number wise area figures recorded by the patwari in the Khasra register.

### **2. Yield Statistics**

**2.1** Yield rate of crops are obtained by conducting General Crop Estimation Surveys (GCES) using the objective technique of crop cutting experiments. The planning, organisation of field work, processing of data and bringing out the results of Crop Estimation Surveys(CES) are the responsibility of State Agriculture Statistical Authority (SASA). The objective of the sample check is to point out departures from the procedures prescribed for the conduct of experiments and inaccuracies in reporting ancillary information under the CES, thereby improving the quality of yield data.

#### **2.2 The Schedule AS 2.0**

Schedule AS 2.0 is designed for recording the observations of the supervisory staff by conducting sample check on crop cutting experiments. On the basis of the data collected through schedule AS 2.0, AS Hqrs. prepares estimates of yield rates of the principal crops along-with their percentage standard error. All these estimates mentioned above are

expressed in gms / plot, which are converted to Kg / hectare by using suitable conversion factor.

### 2.3 Standard Error

The calculation of standard errors and their study is helpful in assessing the adequacy of the sample size, trend of changes in yield rates and in planning other allied studies.

$$\% \text{ Standard Error} = \frac{\text{S.E. of the Estimate}}{\text{Estimate}} \times 100$$

### 2.4 Conversion factor

Converting the yield from Grams per plot to Kg. per hectare

$$\frac{\text{Weight of produce in Gms.}}{\text{Plot size in Meters.}} \times \frac{10000}{1000}$$

## 3. Reference period

The reference period for a survey is the Agriculture Year (July to June) e.g. agriculture year 2019-20 corresponds to the period starting from July 2019 to June 2020.

## 4. Seasons

Agriculture Year can be broadly divided into the following three seasons based on the periods of sowing and harvesting:

|                       |   |                  |
|-----------------------|---|------------------|
| Kharif                | - | July to December |
| Rabi                  | - | January to March |
| Summer (or Zaid Rabi) | - | April to June    |

Periods of area enumeration or Girdawari vary from State to State and are fixed according to the sowing periods of various seasonal crops.

## 5. Survey Records

Khasra register, maps, jamabandi (list of land holdings) etc. are maintained by the Patwari (primary worker of the revenue department of the State) and these are updated from time to time. These records are useful for identification of survey / sub-survey numbers and also for checking the area aggregation figures.

## 6. Design of Sample Check

The design for crop survey is generally a composite one without any stratification according to inputs such as irrigation and / or seed. The design adopted for selection of villages for the sample check on area is that of stratified simple random sampling, where a tehsil/ anchal/ sub-division/ block/ taluka or a group of them based on geographical

contiguity forms a 'Stratum' except Kerala and West Bengal where District is Stratum. For the supervision of crop cutting experiments, District is the 'Stratum'.

## 7. Crop mixtures

Two or more crops of the same season grown in the same field constitute a crop mixture. The constituent crops may be raised in different rows of pure nature or may be intermixed in lines.

## 8. Nine Fold Classification of Area

The land utilization is broadly classified in terms of following nine fold classifications:-

i. Forests

**Area not available for cultivation**

ii. Area under non-agricultural uses

iii. Barren and unculturable land or within cultivated holdings

**Other uncultivated land excluding Current fallow**

iv. Permanent pastures and other grazing lands

v. Miscellaneous tree crops and groves not included in the area sown

vi. Culturable waste

**Fallow land**

vii. Fallow land other than current fallow

viii. Current fallow

ix. Net area sown

## 9. Geographical Area

India has an area of 3,287,263 sq. km. It is the seventh largest country of the world after Russia, Canada, China, the U.S.A., Brazil and Australia. India accounts for about 2.4 per cent of the total surface area of the world occupying 3.28 million square kms of land.

## 10. Net Area Sown

This represents the total area sown with crops and orchards. Area sown more than once in the same year is counted only once.

## 11. Gross Cropped Area

This represents the total area sown once and/or more than once in a particular year, i.e. the area is counted as many times as there are sowings in a year. This total area is also known as total cropped area or total area sown.

## 12. Current Fallow

This represents cropped area which is kept fallow during the current year.

### 13. Area Sown more than once

This represents the areas on which crops are cultivated more than once during the agriculture year. This is obtained by deducting Net Area Sown from Gross Cropped Area.

### 14. Irrigated Area

The area is assumed to be irrigated for cultivation through such sources as canals (Govt. & Private), tanks, tube-wells, other wells and other sources.

### 15. Cropping Intensity

Cropping Intensity refers to raising of a number of crops from the same field during one agriculture year; it can be expressed as

$$\text{Cropping Intensity} = (\text{Gross Cropped Area} / \text{Net Area Sown}) \times 100$$

### 16. Recovery ratio:

The ratio between the cobs to grain (wet), Paddy to rice (after taking away husk) is known as recovery ratio. The first weight of the produce taken out from the plants is in terms of cobs in case of Jowar, Bajra, Maize, weight of grains in case of Paddy, Wheat, Barley and Gram etc.

#### i) Driage ratio:

The ratio of weight between the wet grains or produce to dried and marketable produce.

#### ii) Ginning ratio:

The weight of cotton to lint Cotton without seeds i.e. (cotton – seeds). This ratio is obtained from ginning factories.

#### iii) Net weight:

While reporting the weight of the produce of a crop, when sown in mixture, the percentage of the experimental crop sown in that mixture is also given. In this case, we have to work out the produce, had it been sown pure. In Agricultural statistics, the net weight will always be more than gross weight.

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## **C. Data Processing under ICS Scheme**

### **1. Scrutiny of data**

As per the existing procedure, all Agricultural Statistics schedules are to be scrutinized at field level by the officers concerned of Regional Offices (ROs) & Sub Regional Offices (SROs)/ NSROs in case of Central sample and by the State officials in case of State sample as per the Scrutiny Programme. A second level scrutiny is done at FOD Hqrs., Faridabad as per the prescribed scrutiny instructions to ensure completeness, correctness and quality of data.

### **2. Coding of data**

Prior to the dispatch of schedules for further processing, local units are converted into standard units of area as per the conversion factors given in Agricultural statistics(AS) schedule and as per coding programme for the purpose of facilitating smooth data processing.

### **3. Data Processing**

After the scrutiny and coding of data, the subsequent stages of processing of data at FOD Hqrs. are data entry, data validation and generation of tables and annexures. The tabulation programme is drawn up keeping in view the objectives of the ICS scheme. The tabulation of data from the Central and State samples is done independently both by NSSO (FOD) and the SASAs concerned.

### **4. Data Validation**

The data entry is done in specified record layouts from the data available in the AS schedules. The data entered are stored as “dbf” files. A validation programme is executed on the data files for ensuring accuracy with reference to certain important lines of information.

### **5. Data Tabulation**

After the data are validated and made error free, different tables are generated. The A-series tables are generated for Area statistics and Y-series tables are generated for Yield

statistics. These tables are checked in State units at AS Hqrs. for consistency of data. Discrepancies, if any, are rectified and tables are regenerated. After the tables are found consistent, State wise annexures are generated using in-house software. These annexures are also scrutinized for any abnormal or inconsistent entries and regenerated, if required.

## 6. Preparation of Status Reports

The Status Reports for each season and for each State/UT contains full account of the present position of estimation of crop production, the procedures followed for enumeration of area and yield, deficiencies observed in the system of crop statistics and the steps to be taken for improving the system of collection of agricultural statistics. The season-wise, state-wise Reports entitled, “Review of Crop Statistics System in States through Scheme for Improvement of Crop Statistics” and an all India report on the “Review of Crop Statistics System in India through Scheme for Improvement of Crop Statistics” are prepared on the basis of the analyzed data of ICS Scheme.

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## कार्य सारांश

फसल सांख्यिकी सुधार योजना को 1973-74 के रबी मौसम से लागू किया गया है जिसका मुख्य उद्देश्य भारत सरकार के राष्ट्रीय सांख्यिकीय कार्यालय क्षेत्र संकार्य प्रभाग तथा राज्य कृषि सांख्यिकी प्राधिकारों के संयुक्त प्रयास से क्षेत्रफल तथा उपज सांख्यिकी संग्रहण की राज्य प्रणाली की कमियों का पता लगाकर उपचारी कदमों द्वारा क्षेत्रफल तथा उपज सांख्यिकी की गुणवत्ता एवं विश्वसनीयता में सुधार करना है। वर्ष 2019-20 के दौरान इस योजना में देश के जिन 20 राज्यों तथा 2 संघ राज्य क्षेत्रों को शामिल किया गया है वे हैं: आन्ध्र प्रदेश, असम, बिहार, छत्तीसगढ़, गुजरात, हरियाणा, हिमाचल प्रदेश, झारखंड, जम्मू एवं कश्मीर, कर्नाटक, केरल, मध्य प्रदेश, महाराष्ट्र, ओडिशा, पंजाब, राजस्थान, तमिलनाडु, तेलंगाना, उत्तर प्रदेश, उत्तराखंड, पश्चिम बंगाल तथा पुडुचेरी। तेलंगाना एक नवनिर्मित राज्य है जो कि आंध्र प्रदेश राज्य से पृथक किया गया है। वर्ष 2019-20 के लिए सम्पूर्ण भारत के स्तर पर योजना के निष्कर्षों की मुख्य बातें निम्न प्रकार हैं:

1. 17 राज्यों तथा जम्मू-कश्मीर एवं पुडुचेरी केंद्र शासित प्रदेशों में भू-अभिलेखों की प्रणाली का पालन किया जा रहा है, जो अखिल भारतीय रिपोर्टिंग क्षेत्र का लगभग 86 प्रतिशत है। गैर-भू अभिलेख राज्यों / स्थायी रूप से बसे राज्यों या ईएआरएएस राज्यों का अखिल भारतीय स्तर पर रिपोर्टिंग क्षेत्र लगभग 9 प्रतिशत है परंतु कुछ राज्यों (देश के कुल रिपोर्टिंग क्षेत्र में शेष 5 प्रतिशत) में क्षेत्रफल सांख्यिकी संग्रह की प्रणाली संतोषजनक नहीं है। इन राज्यों में फसल सांख्यिकी का संकलन मुख्यतः पारम्परिक प्रणाली से ही किया जाता है। इनमें से कुछ राज्यों में स्थिति में सुधार लाने के लिए छिटपुट प्रयास किये गये हैं लेकिन एक नियमित प्रणाली अभी भी विकसित की जानी शेष है। (पैरा 2.1.5)

2. अखिल भारतीय स्तर पर 2019-20 के दौरान फसल सांख्यिकी सुधार के अनुसार प्रति प्राथमिक कर्मि का औसत कार्य भार 8 गाँव है जिसमें प्रति गाँव औसतन भौगोलिक क्षेत्रफल 600 हैक्टेयर है, तथा 1300 सर्वेक्षण संख्या निहित है। राष्ट्रीय कृषि आयोग ने सिफारिश की है कि जहां कहीं भी पटवारी का कार्य क्षेत्र वृहद है तो इसे घटा दिया जाना चाहिए। (सारणी-2) (पैरा 2.4.1)

3. छत्तीसगढ़, मध्य प्रदेश, उत्तर प्रदेश तथा उत्तराखंड में अमान्य मिश्रित फसलों के लघु संघटकों के अधीन क्षेत्रफल को नजर अंदाज करके उसके सम्पूर्ण क्षेत्र को मुख्य संघटकों के अन्तर्गत दर्ज किया जाता है

जिससे मुख्य फसलों के अन्तर्गत क्षेत्र का आंकलन ज्यादा हो जाता है। इस प्रणाली में सुधार की आवश्यकता है।  
(पैरा 2.4.2 iii)

4. वर्ष 1973-74 के फसल सांख्यिकी सुधार योजना के आरंभ होने के समय सामान्य फसल प्राक्कलन योजना के अंतर्गत 1,73,097 प्रयोग नियोजित किए गए। वर्ष 2018-19 में ये प्रयोग बढ़कर 17,26,577 हो गए। ये प्रयोग 19 भू-अभिलेख राज्यों /संघ शासित प्रदेशों, 3 ईएआरएएस राज्यों- केरल, ओडिशा, पश्चिम बंगाल और अन्य राज्यों- गोवा, मेघालय एवं दादरा और नगर, हवेली और दमन और दीव के केंद्र शासित प्रदेशों के अन्य राज्यों में किए गए तथा जो वर्ष 2019-20 के लिए फसल सांख्यिकी सुधार योजना के अंतर्गत प्रतिदर्श चयन का आधार बने। फसल प्राक्कलन सर्वेक्षण नागालैंड और सिक्किम में अभी तक आयोजित नहीं किए जा सके हैं।  
(पैरा 3.1.2)

5. जी०सी०ई०एस० के अधीन यह देखा गया है कि कुछ राज्यों में कम क्षेत्रफल की फसलों को भी शामिल किया जाता है, जबकि अन्य राज्यों के अन्तर्गत ज्यादा क्षेत्रफल रहने के बावजूद इन फसलों को शामिल नहीं किया जाता है। इस विषमता को दूर करने के लिए इन राज्यों में जी०सी० ई० एस० विस्तारण की समय-समय पर समीक्षा की सलाह दी जाती है।  
(पैरा 3.1.5)

6. कई राज्यों में कुछ फसलों के लिए उपज दर की मानक त्रुटि की गणना नहीं की जा रही है। यह सलाह दी जाती है कि सभी राज्य प्राधिकारों द्वारा सभी फसलों के लिए औसत उपज अनुमान के लिए मानक त्रुटि(स्टेन्डर्ड एरर) का परिगणन किया जाए ताकि प्रतिदर्श आकार की पर्याप्तता तथा अनुमानों की विश्वसनीयता का भी सही आंकलन किया जा सके।  
(पैरा 3.1.6)

7. सभी सम्बन्धित राज्य प्राधिकारों के ठोस प्रयासों एवं सहयोग के कारण वर्ष 2019-20 के दौरान दो राज्यों/ संघ शासित राज्यों - हरियाणा और जम्मू-कश्मीर में उच्च स्तरीय समन्वय समिति (एच०एल०सी०सी०) की बैठक आयोजित करना सम्भव हो सका। एच०एल०सी०सी० / एस० टी० सी० की बैठकें नियमित अंतराल पर आयोजित किये जाने की आवश्यकता है।  
(पैरा 4.1.3)

8. 2019-20 के दौरान केंद्रीय प्रतिदर्श के लिए क्षेत्रफल परिगणना पर प्रतिदर्श जांच के लिए प्रत्युत्तर लगभग शत प्रतिशत दर्ज किया गया। कुछ राज्यों यथा- असम, गुजरात, हिमाचल प्रदेश, उत्तर प्रदेश और पश्चिम बंगाल ने 51% से कम प्रतिक्रिया दर्ज की गयी। राज्य प्रतिदर्श के प्रत्युत्तर-दर में संकलित आँकड़ों की गुणवत्ता में सुधार हेतु संबंधित राज्यों को समुचित उपाय करने की आवश्यकता है।  
(पैरा 8.1.1)

9. 2019-20 के दौरान कुछ राज्यों में गिरदावरी की सामयिक संपूर्ति की गई परंतु कुछ राज्य जैसे कि आंध्र प्रदेश, असम, बिहार, गुजरात, झारखंड, महाराष्ट्र, पंजाब, तेलंगाना एवं पश्चिम बंगाल में गिरदावरी की गैर-संपूर्ति चिंताजनक रही परिणामस्वरूप अखिल भारतीय स्तर पर गिरदावरी की सामयिक संपूर्ति पूर्व

खरीफ मौसम में प्रतिदर्श ग्रामों की 49 प्रतिशत, खरीफ मौसम में 50 प्रतिशत, रबी में 45 प्रतिशत तथा ग्रीष्म मौसम में मात्र 33 प्रतिशत मामलों में पायी गयी। सामान्य रूप से सभी राज्यों में समय पर गिरदावरी-संपूर्ति को सुनिश्चित करने के लिए समुचित कदम उठाये जाने की आवश्यकता है।  
(पैरा 8.1.3)

10. 2019-20 के दौरान अखिल भारतीय स्तर पर विभिन्न मौसमों में गिरदावरी पूरी होने के बाद ही टी० आर० एस० विवरण प्रस्तुत करने की प्रवृत्ति 39 प्रतिशत से अधिक मामलों में देखी गई जिसके परिणामस्वरूप पूर्व खरीफ में 39 प्रतिशत प्रतिदर्श ग्रामों, खरीफ मौसम में 38 प्रतिशत प्रतिदर्श ग्रामों, रबी में 41 प्रतिशत प्रतिदर्श ग्रामों तथा ग्रीष्म में 42 प्रतिशत प्रतिदर्श ग्रामों में समय पर टी० आर० एस० विवरण प्रस्तुत किया गया। इसके साथ ही वर्ष 2019-20 के दौरान पूर्व खरीफ, खरीफ, रबी तथा ग्रीष्म में क्रमशः 4, 10, 7 तथा 1 प्रतिशत प्रतिदर्श ग्रामों में गिरदावरी किये बिना ही टी० आर० एस० विवरण प्रस्तुत किया गया। गिरदावर- संपूर्ति के उपरान्त टी० आर० एस० विवरण की समय पर प्रस्तुति को सुनिश्चित करने के लिए उपचारी कदम उठाने की आवश्यकता है।  
(सारणी-7, पैरा 8.1.4)

11. 88 प्रतिशत मामलों में प्राथमिक कर्मियों के पास उपलब्ध नक्शे उपयोगी पाए गए। 64 प्रतिशत मामलों में पाया गया कि प्राथमिक कार्यकर्ता के पास उपलब्ध नक्शों का अंतिम अद्यतन 20 वर्षों से भी पहले किया गया था। राज्य कृषि सांख्यिकीय प्रणाली की कार्यकुशलता के लिये गाँवों के नक्शों का नियमित रूप से अद्यतन होना आवश्यक है।  
(पैरा 8.1.4)

12. अखिल भारतीय स्तर पर 2019-20 के दौरान क्षेत्रफल परिगणना के समय फसल तथा फसल क्षेत्रफल को दर्ज करने में विभिन्न राज्यों में पूर्व खरीफ में 78 प्रतिशत, खरीफ में 81 प्रतिशत, रबी में 81 प्रतिशत तथा ग्रीष्म मौसम में 81 प्रतिशत सर्वेक्षण संख्याओं में सामंजस्य पाया गया। शेष 22 प्रतिशत, 19 प्रतिशत, 19 प्रतिशत, 7 प्रतिशत पूर्व खरीफ, खरीफ, रबी क्रमशः ग्रीष्म मौसम में विसंगतियाँ पाई गईं। इस तरह की विसंगतियाँ फसल क्षेत्रफल के आँकड़ों पर पर्याप्त असर डालती हैं।  
(पैरा 8.1.6 से 8.1.8)

13. अखिल भारतीय स्तर पर समग्र रूप से वर्ष 2019-20 के दौरान कटाई स्तर पर फसल कटाई प्रयोगों का प्रत्युत्तर खरीफ मौसम के दौरान कुछ राज्यों यथा- असम, बिहार, गुजरात, हरियाणा, हिमाचल प्रदेश, जम्मू और कश्मीर, कर्नाटक, मध्य प्रदेश, महाराष्ट्र, पंजाब, राजस्थान, उत्तर प्रदेश, उत्तराखंड और पश्चिम बंगाल को छोड़कर 80% से अधिक रहा और कोविड-19 महामारी के कारण पुडुचेरी को छोड़कर सभी राज्यों के लिए रबी और गरमा मौसम में 80% से कम रहा, जिससे कारण यह प्रत्युत्तर पूर्व खरीफ में

71 प्रतिशत, खरीफ में 70 प्रतिशत, रबी में 34 प्रतिशत तथा गरमा में 48 प्रतिशत रहा। कटाई स्तर पर फसल कटाई प्रयोगों के शत-प्रतिशत पर्यवेक्षण का लक्ष्य प्राप्त करने के लिए राज्य प्राधिकरणों द्वारा उचित कदम उठाए जाने की आवश्यकता है। (पैरा 8.2.1)

14. 2019-20 के दौरान अखिल भारतीय स्तर पर 65 प्रतिशत प्रयोगों को निर्धारित प्रक्रियाओं के अनुसार संचालित किया पाया गया। तथापि, प्रतिदर्श जांच के द्वारा पायी गयी कमियों को राज्यों के प्राथमिक कर्मियों के लिए आयोजित प्रशिक्षण कैम्पों में चर्चा के लिए उठाने की आवश्यकता है। सहायक विवरणों को दर्ज करने में अत्यधिक त्रुटियां, विशेषकर जब ऐसी जानकारी स्तरीकरण उपरांत विश्लेषण के लिए आधार बनती हो, तो एक चिन्ता का विषय है। (पैरा 8.2.3)

15. कुछ राज्यों में फसल कटाई प्रयोगों के संचालन के लिए उपकरणों की आपूर्ति की गई तथा प्राथमिक कर्मियों द्वारा उनका प्रयोग भी किया गया परंतु कुछ राज्यों में अभी भी उपकरणों की आपूर्ति तथा प्राथमिक कर्मियों द्वारा उनके प्रयोग की स्थिति के सन्दर्भ में सभी राज्यों में सुधार की आवश्यकता है। (पैरा 8.2.4)

16. फसल कटाई प्रयोगों के संचालन में कनिष्ठ कर्मचारियों सहित अन्य को कार्य का प्रत्यायोजन वर्ष 2019-20 के दौरान उत्तर प्रदेश में अधिक रहा। बिहार, झारखंड व उत्तर प्रदेश में स्थिति और चिन्ताजनक हो जाती है जहां पर अप्रशिक्षित कर्मियों द्वारा प्रयोगों का अधिक संचालन किया गया। (पैरा 8.2.5)

17. कुछ राज्यों में विभिन्न कारणों से फसल कटाई प्रयोगों के लिए चयनित गांवों / क्षेत्रों का प्रतिस्थापन किया गया। प्रयोगात्मक फसल की अनुपलब्धता के कारण मूल रूप से चयनित गांव का प्रतिस्थापन 2019-20 के दौरान 10% से 11% के बीच रहा। इसे प्रतिदर्श गांवों के उचित चयन, समय पर क्षेत्र के चयन तथा किसान के साथ उचित संपर्क के द्वारा कम किया जा सकता है, जिसके लिए प्राथमिक कर्मियों पर दबाव डालने की आवश्यकता है। प्रायोगिक कर्मियों के प्रशिक्षण एवं फसल कटाई प्रयोगों के नियोजन के समय इस विषय पर ध्यान देने योग्य देने की आवश्यकता है। (पैरा 8.2.6 तथा 8.2.7)

18. आई० सी० एस० पर्यवेक्षक द्वारा की गयी रिपोर्टिंग पर आधारित तथा राज्य प्राथमिक कर्मचारियों द्वारा तदनुसूची (फसल क्षेत्रफल आकलनों) की तुलना में राज्य प्राथमिक कर्मचारियों द्वारा क्षेत्रफल को कम आँके जाने (under-estimation) की सामान्य प्रवृत्ति का संकेत देता है। (पैरा 9.1.1 एवं 9.1.2)

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## Executive Summary

The Scheme for Improvement of Crop Statistics (ICS) was introduced from Rabi season of 1973-74 with the main objective of improving the quality and reliability of area and yield statistics by pointing out, through joint efforts of Field Operations Division (FOD) of National Sample Survey Office (NSSO) of Government of India and State Agricultural Statistics Authority (SASA), deficiencies in the State system of collection of area and yield statistics and suggest remedial measures. During 2019-20, the scheme covered 20 States and 2 Union Territories of the country namely, Andhra Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Jammu & Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Telangana, Uttar Pradesh, Uttarakhand, West Bengal and Puducherry. The highlights of the findings of the scheme at all India level for the year 2019-20 are as follows:-

1. The system of land records is being followed in 17 States and 2 UTs of Jammu & Kashmir and Puducherry which account for about 86% of the All-India reporting area. The Non-Land Records States/ Permanently Settled States or EARAS states (the area statistics are generated on the basis of sample surveys) account for about 9% of the reporting area. A few States (accounting for remaining 5% of the total reporting area of the country) do not have a satisfactory system for collecting area statistics. Crop statistics are compiled in these States mainly by conventional methods. There have been sporadic attempts to improve the situation in some of these States, but a regular system is yet to be evolved.

**(Para –2.1.3, Para –2.1.4 & Para –2.1.5)**

2. The average workload per Primary worker (Patwari) as per ICS scheme during 2019-20 at all India level was found to be 8 villages having 1300 survey numbers and 600 hectares of geographical area per village. National Commission for Agriculture has suggested that there is need to reduce the jurisdiction of Patwari, wherever it is extensive. **(Table-2) (Para–2.4.1)**

3. For unrecognized mixtures, the entire area under minor constituents of crop mixtures in Chattisgarh, Madhya Pradesh, Uttar Pradesh and Uttarakhand is ignored as per the state specific procedure. As a result, the entire area thereof is recorded under major constituents

with the result that area under major crops tends to get overestimated. The system needs revision. **(Para-2.4.2 iii)**

4. At the time of inception of Improvement of Crop Statistics (ICS) Scheme, during the year 1973-74, a total of **1,73,097** experiments were planned under GCES. These experiments increased to **17,26,577** in number under GCES 2018-19, which formed the basis for sample selection for supervision of Crop Cutting Experiments under the ICS Scheme during agricultural year 2019-20 on various crops covering the 19 Land Records States/ UTs, 3 EARAS States of Kerala, Odisha and West Bengal and other States of Goa and Meghalaya and Union Territory of Dadra & Nagar Haveli and Daman & Diu. Crop Estimation Surveys are not conducted in Nagaland and Sikkim as yet. **(Para-3.1.2)**

5. Under GCES, some of the States cover the crops with lesser area whereas other States do not cover these crops even though the area under them is more. To remove this anomaly, a periodical review of GCES coverage in the States is advised. **(Para-3.1.5)**

6. The Standard error of yield rates of a few crops are not being calculated in some States. It is advisable that all the SASAs may calculate the standard error for the estimate of average yield for all the crops so as to assess the adequacy of sample size and also the reliability of estimates. **(Para-3.1.6)**

7. High Level Co-ordination Committee (HLCC) meetings were organized in the two States/UTs namely Haryana and Jammu & Kashmir during 2019-20 owing to the co-operation of respective SASAs. Convening of meeting of HLCCs/ State Technical Committees (STCs) at regular intervals needs to be pursued. **(Para-4.1.3)**

8. The overall response for sample check on enumeration of area **was almost cent percent for the Central Sample. Some States like Assam, Gujarat, Himachal Pradesh, U.P. and West Bengal reported response below 51%.** The response rate for State sample needs to be improved to bring about improvement in the quality of data collected. **(Para-8.1.1)**

9. During 2019-20, **some states are reporting timely completion of Girdawari** but instances of non-completion of Girdawari in Andhra Pradesh, Assam, Bihar, Gujarat, Jharkhand, Maharashtra, Punjab, Telangana, & West Bengal were alarmingly high resulting in timely completion of Girdawari in only **49%** sample villages during Early Kharif, **50%** during Late Kharif, **45%** during Rabi and **33%** during Summer of 2019-20. Suitable action needs to be taken by the respective State authority to ensure timely completion of Girdawari in all the States in general. **(Para 8.1.3)**

10. During 2019-20, **At all India level, over the various seasons, the tendency of submitting TRS statements after completion of Girdawari was observed in more than 39% of the cases** result in **38%** sample villages during Early Kharif, **41%** during Late Kharif, **42%**

during Rabi and **23%** during Summer season in particular. Further, the cases of submission of TRS statement without completion of Girdawari was of the order of **4%, 10%, 7% and 1%** sample villages during Early Kharif (Autumn), Late Kharif (Winter), Rabi and Summer respectively. Corrective action needs to be initiated for ensuring submission of TRS statements only after completion of Girdawari. **(Table-7,Para-8.1.4)**

**11.** Maps available with the Patwari workers were found usable in **88%** cases. In **64%** cases, the maps available with the Patwari worker were found to be last updated more than 20 years back. For efficient functioning of the Agricultural Statistics system, regular updation of village maps is essential. **(Para-8.1.5)**

**12.** During 2019-20, **consonance in recording crops and crop areas at the time of area enumeration were observed in 78% of the survey numbers during Early Kharif, 81% during Late Kharif, 81% during Rabi and 81% during Summer at all India level.** The errors were observed in remaining 22%, 19%, 19%, 7% for Early Kharif, Late Kharif, Rabi and Summer Season respectively. These discrepancies observed exert substantial impact on reporting of the crop area. **(Para-8.1.6 to 8.1.8)**

**13.** **The response achieved in respect of all the States was above 80%** in Kharif season except for some states like Assam, Bihar, Gujarat, Haryana, H.P., Jammu & Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand and West Bengal) and below 80% in Rabi & Summer seasons for all States except Puducherry due to covid-19 pandemic that leads to the overall response at all india level (Pooled Sample) for crop cutting experiments at harvest stage during 2019-20 was **71%** for Autumn, **70%** for Winter, **34%** for Rabi and **48%** for Summer. Steps need to be taken by State authority to achieve the target of cent percent supervision of crop cutting experiments at the harvest stage. **(Para-8.2.1)**

**14.** During 2019-20, at all India level, the experiments were found to be conducted according to the prescribed procedures in **65%** cases. However, deficiencies noticed through the sample checks need to be emphasized in the training camps organised for Patwari workers in the States. The high incidence of errors in recording ancillary particulars is a matter of concern especially when such information forms the basis for post stratification analysis. **(Para-8.2.3)**

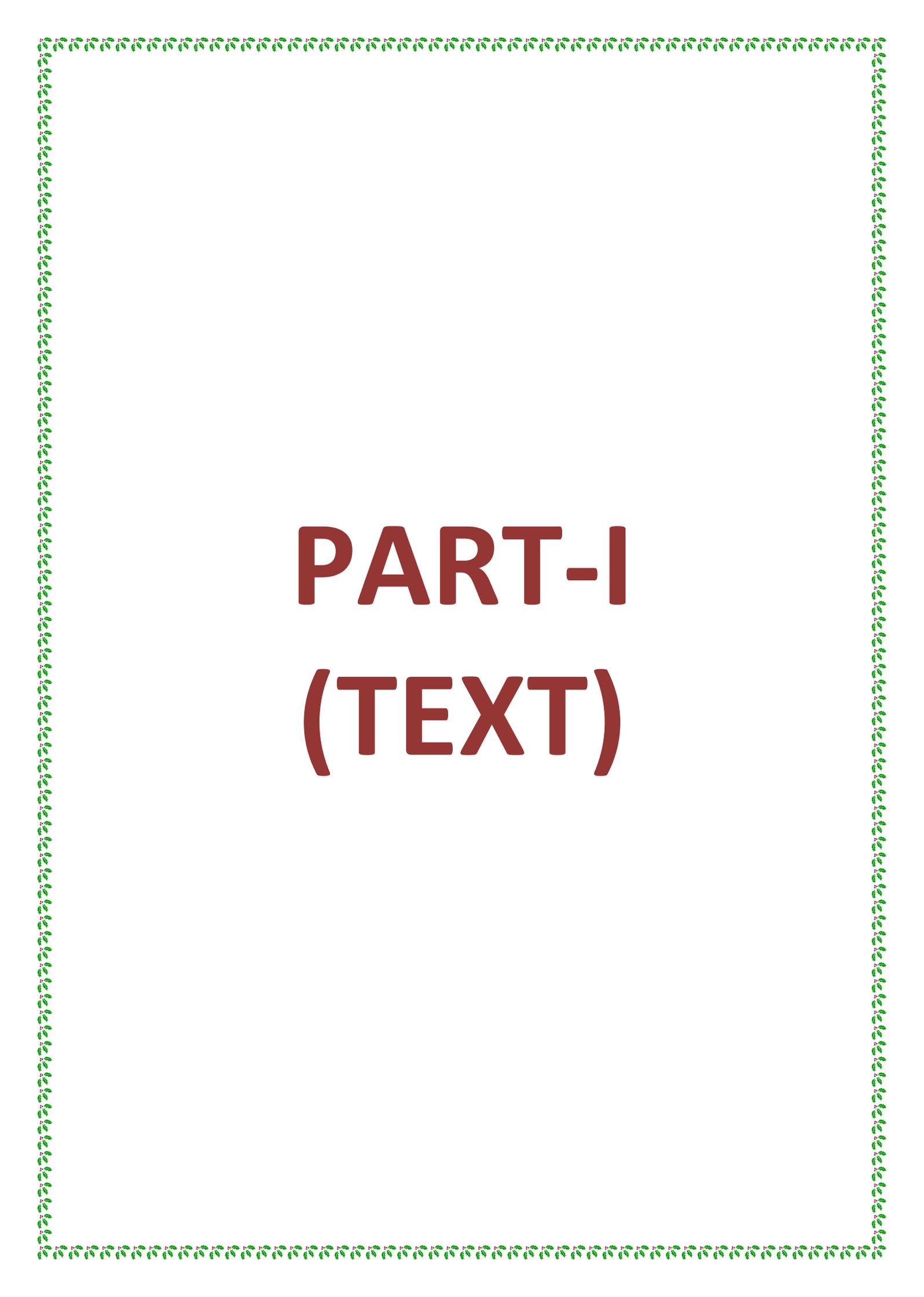
**15.** Primary workers were supplied with essential items of equipment and carry with them to the field for the conduct of crop cutting experiments at all India level in some of the States but position of supply of equipment for conduct of crop cutting experiments and their use by the Patwari workers needs improvement in some ICS implementing States. **(Para-8.2.4)**

**16.** Delegation of work to others including juniors for conducting crop cutting experiments was found more frequent in **Uttar Pradesh** during 2019-20. Situation is found alarming in **Bihar, Jharkhand and Uttar Pradesh** where Crop Cutting experiments are being conducted by the untrained workers in larger proportion. **(Para-8.2.5)**

**17.** Instances of substitution of selected villages/fields for crop cutting experiments due to various reasons were observed in some States. The substitution of originally selected village due to non-availability of experimental crop was observed in the range of **10% to 11%** cases during 2019-20. These instances need to be reduced by proper selection of sample villages, timely selection of field and proper liaison with cultivators. This aspect needs to be stressed upon at the time of planning of the villages for crop cutting experiments as well as the training of the Patwari workers. **(Para-8.2.6 & 8.2.7)**

**18.** The comparison of estimates of crop area based on figures of the ICS Supervisor and by the State Patwari worker indicates a general trend of under-estimation of area by the State officials. **(Para-9.1.1 & 9.1.2)**

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# **PART-I**

## **(TEXT)**



# 1



## INTRODUCTION

### 1.1 Improvement of Crop Statistics (ICS)

**1.1.1** The primary responsibility of collection of crop statistics rests with the State Governments. Crop statistics have two major components - Area sown and Average Yield. While collection of land use statistics is attempted through various methods by the State governments, the yield rates of principal crops are estimated through General Crop Estimation Surveys (GCES) conducted by them. The estimates of area and yield are compiled by State Agricultural Statistics Authorities (SASAs) for their use and also transmitted to the Directorate of Economics and Statistics (DES) in the Union Ministry of Agriculture & Farmer's Welfare. The National Sample Survey Office (NSSO) through its Agricultural Statistics Headquarters in Field Operations Division (FOD), has the overall responsibility of (i) assisting the State and Union Territory (UT) governments in developing suitable survey techniques for obtaining reliable and timely estimates, (ii) bringing uniformity in definitions and concepts, (iii) providing guidance for training of the primary staff engaged in the conduct of GCES, (iv) examining documents relating to various stages of work pertaining to GCES and Coordination of results (v) exercising technical supervision over the primary field work through the scheme for Improvement of Crop Statistics (ICS) at the field level, right from planning stage till the release of the final reports at the Hqrs level. **This report throws light on the functioning of the system of reporting of crop statistics and also the quality of the data collected, based on the findings of the ICS scheme operational in 20 States and 2 UTs.**

**1.1.2** While Timely Reporting Scheme (TRS) was able to provide estimates of area within a short period, there was an imperative necessity to point out and to take action with a view to remove the errors in the system of collection of statistics not only of area, but also of yield. In order to meet this requirement, another scheme viz., scheme for Improvement of Crop Statistics (ICS) was initiated from Rabi season of **1973-74** with the main objective of pointing out, through the joint efforts of the Central and State agencies, deficiencies in the system of collection of crop statistics and suggesting remedial measures for strengthening the system. The programme of ICS was initiated with a special emphasis on wheat in 9 major wheat growing States. The scheme was extended to 5 more land record States and to Odisha in 1974-75, to Kerala and West Bengal in Rabi 1975-76 covering various crops. It was also extended to UTs of Delhi and Puducherry in 1978-79 and 1980-81 respectively and to 3 new Land Record States namely Chhattisgarh, Jharkhand and Uttarakhand carved out from Madhya Pradesh, Bihar and Uttar Pradesh respectively in 2001-02. The scheme has also started implementation in Telangana state from the year

2015-16 onwards ever since its carving out from Andhra Pradesh. Due to diminishing of cropped area in Delhi over the years and lackluster co-operation of State field officials, the scheme has been discontinued from the year 2010-11.

**1.1.3** In 1976, the Working Group on Agricultural Statistics of the NSSO decided that reports be prepared regularly on the status of estimation of crop production in India, which would contain full account of the current position of estimation of crop production, the procedures followed for enumeration of area and yield in different States/UTs and the steps to be taken for improving the system. The reports should also give the position of training of staff entrusted with crop cutting work, the equipment supplied to them, the adequacy of experiments planned under General Crop Estimation Surveys (GCES), the response rate etc. Besides, the findings of the sample checks under ICS Scheme on the working of the system are also brought out indicating the remedial measures to rectify the deficiencies observed. Such status reports are being prepared every year from the Rabi season of **1973-74**. The reports are brought out separately for all India and the individual States/ UTs season-wise i.e. Kharif and Rabi. The All India report contains an overall account of the status of estimation of crop production in the country as also the technical details and results relating to the ICS Scheme for the States and UTs covered by it. It provides comparison of estimates based on sample checks under the various schemes viz. ICS, TRS, Final Forecasts and GCES.

**1.1.4** The present report is the forty fifth in the existing series and relates to the Agriculture Year 2019-20. The first report was a combined report for 1973-74 (Rabi) and 1974-75 (Kharif & Rabi). From 1975-76 onwards, the reports are being published every year with an exception of the 5th report, which is a combined one for 1978-79 and 1979-80.

**1.1.5** In the present report, the two components - Area Statistics and Yield Statistics are discussed in Chapters 2 and 3 respectively. The Chapters 4 to 7 deals with the Design and Methodology followed under the ICS scheme together with the NSSO's responsibility for coordinating the Central and State agencies in collection of supervised data on Agricultural Statistics. The detailed findings under ICS are discussed in Chapter-8.

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## 2



## AREA STATISTICS

### 2.1 System of collection

**2.1.1** According to the system adopted for collection of area statistics, the States and Union Territories (UTs) can be classified into three broad groups:

- i. The States where Area statistics are collected by complete enumeration (normally known as Land Record States or Temporarily Settled States)
- ii. The States where Area statistics are collected on the basis of sample surveys (normally known as Non-land Records States or Permanently Settled States)
- iii. The States where satisfactory system of collection of Area statistics is yet to be developed.

**2.1.2** In the Land Records States, there exists a primary agency (commonly known as Patwari), in-charge of a village or group of villages to carry out field-to-field crop inspection in each crop season of an agriculture year and to record crop areas and land utilisation. The agency belongs to the Revenue (or Land Records) department and attends to the work along-with the collection of land revenue and other duties. The Patwari is required to note down the details of crop enumeration and land utilisation in a register, commonly known as the “Khasra Register”. After completion of entries for a village in a season, the Patwari prepares an abstract of area sown to various crops and sends a statement of crop abstract (Jinswar statement) to the next higher officer in revenue hierarchy. Similarly, at the end of the year, they prepare a land utilisation statement showing the abstract of area under different utilisations. The crop-wise and utilisation-wise area figures, so compiled for villages are successively aggregated at the circle, tehsil and district levels. The district-wise figures are then reported to the State Agricultural Statistics Authority (SASA), who may either be the Director of Statistical Bureau, the Director of Agriculture or the Director of Land Records. The State level figures compiled by SASAs are transmitted to the Directorate of Economics and Statistics (DES) in the Ministry of Agriculture & Cooperation, Government of India which is responsible for releasing the All-India estimates.

**2.1.3** The system of land records is being followed in 17 States viz., Andhra Pradesh, Assam, (except two hill districts of North Cachar and Karbi Anglong), Bihar, Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Telanagana, Uttar Pradesh and Uttarakhand as also in 5 Union Territories of Chandigarh, Delhi, Dadra & Nagar Haveli, Jammu & Kashmir and Puducherry. These States and UTs account for about 86% of the

All-India reporting area. In the hilly districts of Uttarakhand, complete area enumeration is envisaged in only 20% of the villages of each tehsil each year according to a five yearly roster. The system of land records also exists in Andaman district of Andaman & Nicobar Islands.

**2.1.4** In the Non-Land Records States or Permanently Settled States viz., Kerala, Odisha and West Bengal, the area statistics are generated on the basis of sample surveys. After the Establishment of an Agency for Reporting Agricultural Statistics (EARAS), 20 % villages in these States are covered each year on complete enumeration basis by regular reporting Agencies. The EARAS was later extended to Arunachal Pradesh, Nagaland, Sikkim and Tripura. These States account for about 9% of the reporting area.

**2.1.5** For remaining 5% of the reporting area of the country, a satisfactory system of collection of area statistics is yet to be developed. These include parts of Manipur, Meghalaya, Nicobar district of Andaman & Nicobar and Mizoram which are mostly hilly, inaccessible and with a major portion of the area not cadastrally surveyed. Some hilly tracts in States like Andhra Pradesh, Assam, Chhattisgarh and Madhya Pradesh which are not cadastrally surveyed also belong to this category. In addition, some cadastrally surveyed areas like plains of Manipur, Goa, Daman & Diu and Lakshadweep do not have a satisfactory system of reporting. Crop statistics are compiled in these areas mainly by conventional methods. There have been sporadic attempts to improve the situation in some of these States but a regular system is yet to be evolved.

**2.1.6** In order to improve the timeliness and quality of Agricultural Statistics, the Ministry of Agriculture & Farmer's Welfare, Government of India introduced two schemes viz., the Timely Reporting Scheme (TRS) and the Scheme "Establishment of an Agency for Reporting Agricultural Statistics (EARAS)". The State-wise year of introduction of the schemes of TRS, EARAS and ICS is given in **Table-1**.

**2.1.7** While implementing the ICS scheme, NSSO (FOD) is required to examine the working of these schemes (viz. TRS & EARAS) and forward reports to the Union Ministry of Agriculture & Farmers' Welfare, SASAs and other agencies for their information and necessary action.

## 2.2 Timely Reporting Scheme (TRS)

**2.2.1** The objective of the Timely Reporting Scheme (TRS) initiated by the Union Ministry of Agriculture & Farmer's Welfare in **1968-69** in land records States is to reduce the time lag between the completion of sowing and the availability of estimates of area sown and between completion of harvesting and availability of estimates of production in respect of important crops. Under this scheme, area enumeration is completed on a priority basis in a random sample of 20% of the villages during each crop season in a State. All the villages in a State are divided in five independent non-overlapping sets, the intention being to canvass one set in a year and thus covering the entire State in a period of five years. The scheme is intended to provide timely and reliable estimates of area under important crops. The scheme provides for supervision through whole time statistical staff. During the year covered by this report, the scheme was in operation in 17 States and 2 Union Territories of Jammu & Kashmir and Puducherry.

**Table – 1**  
**State-wise year of introduction of TRS / EARAS and ICS Scheme**

| Sl. No. | Name of the State | Season and year of introduction |                       |
|---------|-------------------|---------------------------------|-----------------------|
|         |                   | TRS / EARAS                     | ICS                   |
| 1.      | Andhra Pradesh    | Kharif, 1971-72                 | Kharif, 1974-75       |
| 2.      | Assam             | Late Kharif 1973-74             | Kharif, 1974-75       |
| 3.      | Bihar             | Late Kharif 1969-70             | Rabi, 1973-74         |
| 4.      | Chhattisgarh      | Rabi, 2001-02                   | Rabi, 2001-02         |
| 5.      | Gujarat           | Kharif, 1972-73                 | Rabi, 1973-74         |
| 6.      | Haryana           | Rabi, 1973-74                   | Rabi, 1973-74         |
| 7.      | Himachal Pradesh  | Kharif, 1978-79                 | Kharif, 1974 -75*     |
| 8.      | Jammu & Kashmir   | Kharif, 1975-76                 | Rabi, 1974-75**       |
| 9.      | Jharkhand         | Rabi, 2001-02                   | Rabi, 2001-02         |
| 10.     | Karnataka         | Kharif, 1969-70                 | Rabi, 1973-74         |
| 11.     | Madhya Pradesh    | Rabi, 1972-73                   | Rabi, 1973-74         |
| 12.     | Maharashtra       | Kharif, 1968-69                 | Rabi, 1973-74         |
| 13.     | Punjab            | Kharif, 1975-76                 | Rabi, 1973-74***      |
| 14.     | Rajasthan         | Kharif, 1972-73                 | Rabi, 1973-74         |
| 15.     | Tamil Nadu        | 1972-73                         | Kharif, 1974-75       |
| 16.     | Telangana         | Kharif, 2015-16                 | Kharif, 2015-16       |
| 17.     | Uttar Pradesh     | Kharif, 1968-69                 | Rabi, 1973-74         |
| 18.     | Uttarakhand       | Rabi, 2001-02                   | Rabi, 2001-02         |
| 19.     | Puducherry        | Kharif, 1980-81                 | Kharif, 1980-81       |
| 20.     | Kerala #          | 1975-76                         | Early Kharif, 1975-76 |
| 21.     | Odisha #          | 1976-77                         | Kharif, 1974 -75****  |
| 22.     | West Bengal #     | 1981-82                         | Rabi, 1975-76*****    |

\* The SASA Himachal Pradesh could participate in ICS from Kharif 78-79 as TRS started in the state from 1978-79 (Ref: A report on the status of estimation of Agricultural Production in Himachal Pradesh 1978-79, Chapter 2, Para-3).

\*\* The ICS Scheme was introduced in J & K from Kharif 1974-75 (Ref: A report on the status of Estimation of Agricultural Production in J & K 1975-76, Chapter 7, Para-4.1).

\*\*\* The ICS Scheme was introduced in Punjab from Rabi 1973-74 (Ref: A report on the status of Estimation of Agricultural Production in Punjab 1975-76, Chapter 11, Para-4).

\*\*\*\* The ICS Scheme was introduced in Odisha from Winter 1974-75 (Ref: A report on the status of Estimation of Agricultural Production in Odisha 1976-77, Chapter 16, Para-2.1).

\*\*\*\*\* The ICS Scheme was introduced in West Bengal from Rabi 1975-76 (Ref: A report on the status of Estimation of Agricultural Production in West Bengal 1981-82, Chapter4, Para-4).

# EARAS States, rest are TRS States.

## 2.3 Establishment of an Agency for Reporting Agricultural Statistics (EARAS)

**2.3.1** As a sequel to the introduction of the TRS in the Land Records States, the Ministry of Agriculture & Farmer's Welfare sponsored a scheme, 'Establishment of an Agency for Reporting Agricultural Statistics (EARAS)' in the States of Kerala, Odisha and West Bengal, which was also extended to Arunachal Pradesh, Nagaland, Sikkim and

Tripura. This scheme provides for setting up, in a phased manner, a whole time agency to cover a sample of 20 percent of the villages every year so that all the villages in the States can be covered once in a period of five years. In the sample villages, the scheme envisages that crop area may be reported on the basis of complete enumeration.

**2.3.2** In Kerala, the scheme was initiated during **1975-76** with 10% sample size which was later increased to 20% in 1977-78. The method of collection of area statistics in Kerala has undergone a change from 1987-88 onwards. The State was divided into 811 Investigator Zones. A sample of 100 key plots is selected from each Investigator Zone. With respect to each key plot, a cluster consisting of five sub-survey division numbers is formed and land utilisation statistics are collected from these 100 clusters of five sub-survey division numbers each.

**2.3.3** In Odisha, the scheme was introduced during **1976-77**, covering 6% of the villages which subsequently increased to 10% in 1977-78 and reached 20% level from 1981-82 onwards. For this purpose, each Community Development Block has been considered as a stratum.

**2.3.4** In West Bengal, the scheme was implemented during **1981-82**, covering 7% of the villages. In 1982-83, the coverage was extended to about 10% of the villages. By 1985-86, the coverage reached to the level of 14%. From Kharif, 1996-97 the crop-wise area enumeration work is done in all EARAS Mouzas.

## 2.4 Major quality aspects of Area Statistics - Current Status

### I -Workload of the Primary Workers

**2.4.1** One aspect, which has a bearing on the quality of area statistics, is the workload per primary worker, commonly known as Patwari. The National Commission on Agriculture in its Report (1976) had also recommended that the jurisdiction of the Patwari should be reduced, wherever it is extensive. The factors that will have to be taken into account during the examination of the recommendation of the total workload involved in area enumeration are (a) physical jurisdiction of the Patwari (b) number of survey/sub-survey numbers per village (c) number of entries in each season and (d) workload with regard to other items of work entrusted to them due to multifarious nature of their duties. While the issue will have to be considered by each State in the light of the prevalent situation, the sample checks under ICS Scheme provide some idea of the average workload per primary worker for collection of land use statistics in terms of the number of villages, survey/serial numbers and total geographical area under their jurisdiction. The average workload per primary worker as revealed by the sample checks under ICS Scheme during 2018-19 in all TRS/EARAS States and Union Territory is given in **Table-2**. It can be observed that the workload of the primary worker in various States/UT varies from 2 villages in Tamil Nadu to 22 villages in Jharkhand, from 500 survey numbers per village in Assam and Maharashtra to 3400 survey numbers per village in Haryana, from 200 hectares of the geographical area per village in Assam, Himachal Pradesh, Odisha, Uttarakhand and West Bengal to 1200 hectares in Andhra Pradesh.

**Table - 2**  
**Workload of Patwari during 2019-20**

| Sl.No.                   | State            | No. of villages | Survey /<br>Sub survey Nos.<br>per village('000' ) | Geographical<br>Area per village ('000'<br>Ha.) |
|--------------------------|------------------|-----------------|--|---|
| 1                        | Andhra Pradesh   | 3               | 1.6  | 1.2   |
| 2                        | Assam            | 11              | 0.5  | 0.2   |
| 3                        | Bihar            | 20              | 1.3  | 0.3   |
| 4                        | Chhattisgarh     | 5               | 1.2  | 0.5   |
| 5                        | Gujarat          | 3               | 0.8  | 1.1   |
| 6                        | Haryana          | 4               | 3.4  | 0.9   |
| 7                        | Himachal Pradesh | 11              | 1.0  | 0.2   |
| 8                        | Jammu & Kashmir  | 5               | 1.0  | 0.5   |
| 9                        | Jharkhand        | 22              | 1.0  | 0.3   |
| 10                       | Karnataka        | 4               | 0.8  | 1.0   |
| 11                       | Kerala           | #               | #  | #   |
| 12                       | Madhya Pradesh   | 4               | 0.8  | 0.5   |
| 13                       | Maharashtra      | 4               | 0.5  | 0.9   |
| 14                       | Odisha           | 21              | 1.0  | 0.2   |
| 15                       | Punjab           | 6               | 2.2  | 0.6   |
| 16                       | Rajasthan        | 8               | 0.8  | 0.9   |
| 17                       | Tamil Nadu       | 2               | 2.5  | 0.8   |
| 18                       | Telangana        | 3               | 2.0  | 1.1   |
| 19                       | Uttar Pradesh    | 6               | 0.7  | 0.3   |
| 20                       | Uttarakhand      | 11              | 1.7  | 0.2   |
| 21                       | West Bengal      | 5               | 1.0  | 0.2   |
| 22                       | Puducherry       | 11              | 1.2  | 0.3   |
| <b>All India average</b> |                  | <b>8</b>        | <b>1.3</b>   | <b>0.6</b>                                      |

# In Kerala, each Investigator is assigned with one Investigator zone within which 500 sub-survey division numbers (100 key plots and to each key plot, a cluster consisting of five sub-survey division numbers) are enumerated by him in each season.

## II - Treatment of Crop mixtures

**2.4.2** The major Land Records States of the country can be broadly divided into the following three categories according to the manner of treatment of areas under crops grown in mixtures:

(i) States where allocation of the area to the constituent crops grown in mixture is done at field level on the basis of seed ratio/eye estimation. This procedure is followed in Andhra Pradesh, Assam, Bihar, Haryana, Himachal Pradesh (except Kangra district), Jharkhand, Karnataka, Maharashtra and Tamil Nadu.

(ii) States where some major crop mixtures have been identified and area at the field level of the recognised mixtures is recorded as such for the mixtures. Allocation to the constituent crops is done at higher levels on the basis of fixed ratios. For unrecognized mixtures, the allocation of areas to the components is done at field level on the basis of

seed ratio/ eye estimation. The States following this procedure are Gujarat, Kangra district of Himachal Pradesh, Jammu & Kashmir, Punjab and Rajasthan.

**(iii)** States where some major mixtures have been identified and area of these mixtures is recorded as such at field level, the allocation to the constituent crops being done at higher levels following fixed ratios. For unrecognized mixtures, the entire area is recorded against the major crop of crop mixture and the minor constituents are ignored. States of Chhattisgarh, Madhya Pradesh, Uttar Pradesh and Uttarakhand follow this procedure. A revision is felt necessary in these States in regard to the present system of recording areas of the constituents of the unrecognized crop mixtures. Under the existing system, area under minor constituents tends to be ignored while that under major constituents gets over estimated.

**(iv)** In three Non- land Records States viz., Kerala, Odisha and West Bengal, the practice of sowing crops in mixture is not much in vogue.

\*\*\*\*

## 3



## YIELD STATISTICS

### 3.1 General Crop Estimation Surveys

**3.1.1** General Crop Estimation Surveys (GCES) consist of performing a specified number of crop cutting experiments in randomly selected fields. Crop cutting experiment conducted under well designed estimation survey, is an effective technique for estimating the average yield by selecting the field, randomly locating a plot of a specified size, harvesting, threshing, weighing and recording the weight of the produce from the plot. In a sub sample of experiments, further processing of the harvested produce is also done to determine the percentage recovery of dried grains or the marketable form of the produce, depending on the nature of the crop.

**3.1.2** At the time of inception of Improvement of Crop Statistics (ICS) Scheme, during the year 1973-74, a total of 1,73,097 experiments were planned under GCES. These experiments increased to 17,26,577 in number under GCES 2018-19 which formed the basis for sample selection for supervision of Crop Cutting Experiments under the ICS Scheme during agriculture year 2019-20 on various crops covering 19 Land Records States/ UTs, 3 EARAS States of Kerala, Odisha and West Bengal and other States of Goa and Meghalaya and Union Territory of Dadra & Nagar Haveli and Daman & Diu. Crop Estimation Surveys are not conducted in Nagaland and Sikkim as yet.

**3.1.3** The sampling design generally adopted for the CES is that of stratified multi-stage random sampling with Tehsils/ Talukas/Revenue Inspector Circles/CD Blocks/Anchals etc. as strata and village within a stratum as first stage unit of sampling, survey number/field within each selected village as sampling unit at the second stage and experimental plot of a specified shape and size as the ultimate sampling unit. In some States, the sampling design takes into account the stratification according to input viz., Irrigation and Seed variety for major crops. Experiments for a crop / variety are allotted to districts and then to strata within a district in proportion to area under the crop / variety in districts / strata within a district. In Land Record States, villages selected under Timely Reporting Scheme (TRS) in a stratum for the current year form the sampling frame for the first stage sampling units. Villages are selected through Simple Random Sampling Without Replacement (SRSWoR).

**3.1.4** In 3 Non-Land Record States of Kerala, Odisha and West Bengal, both area and yield are estimated on the basis of sample surveys. The crop cutting experiments are planned in a sub-sample of the primary units selected for the purpose of area enumeration, while the general procedure for selection of sampling units at different stages is the same

as that in the other States. Some special features in these States which require specific mention are listed as follows:-

i) In Kerala, blocks / city corporations or municipalities with an area of 10 sq kms and above are treated as separate stratum. Municipalities with an area of less than 10 sq kms are merged with adjoining blocks and treated as a single stratum. The blocks are divided into a number of Investigator Zones depending on the area of a block, nature of land, etc. City corporation area is divided into three Investigator Zones. Each Municipality with an area more than 10 sq. kms is treated as a single Investigator Zone. The number of crop cutting experiments conducted in each Investigator Zone is 8 per season for Paddy, 3 each for Coconut and Banana, and 2 each for Tapioca, Arecanut, Cashewnut, Pepper, Plantain and Jackfruit in an agricultural year. In Municipal area having separate Investigator Zone, 10 crop cutting experiments are conducted in respect of Paddy per season. For city corporation areas, 8 experiments for Paddy per season in one Investigator Zone are conducted.

ii) In Odisha, crop-cutting experiments for Paddy are conducted in a sub-sample of 40% of EARAS villages having even serial numbers except serial numbers ending with " Zero" i.e. 10, 20, etc. in each block and for other crops, in 50 % of EARAS villages occurring against the even serial numbers i.e. 2, 4, 6, etc. during Autumn and Winter seasons. In summer season, all the villages selected for area enumeration under EARAS are covered under CES for Paddy and other crops. For Paddy, the crop cutting experiments are planned in proportion to crop area subject to minimum of two and maximum four experiments in a village. For other crops, only one experiment is conducted in a village.

iii) In West Bengal, the EARAS has not only become the primary source for area statistics but also for providing the frame for selection of villages for conduct of crop cutting experiments (CCEs) under GCES in the State. Ten mouzas out of all the EARAS mouzas in a block are randomly selected for CCEs. A 10% systematic sample (subject to a minimum of 100 plots) of all the plots in a selected mouza is taken and the type of land use for each plot in the sample is identified. In this way, a sub-frame of plots cultivating each crop is prepared for each such mouza. If the number of plots growing a crop in a mouza is too small, all the plots growing the crop are enumerated. The plots for conducting CCEs are sampled out of this sub-frame. In all, 20 plots are taken in the form of two inter-penetrating sub-samples of size 10 each for each block for a crop. On the basis of these, two independent estimates of yield rate are obtained for a block and these are later combined to give an overall estimate.

**3.1.5** The coverage of crops under GCES in the States is constantly reviewed in order to ensure that yield rates are obtained scientifically by the method of crop cutting experiments for all the important crops of a State as well as in all major States for a crop. An examination of the coverage of crops in different States reveals that though some of the States with lesser area under certain crops are covering them under GCES, others with larger areas under that crop are not covering them. In order to remove this anomaly, a periodical review of GCES planning in the States is advised. However, the States are of the view that due to the large number of crops already covered, coupled with the constraints of staff resources, it may not be possible to extend GCES further.

**3.1.6** The precision of the estimates of average yield is judged by the standard error of the estimate. The calculation of standard errors and their study is helpful in assessing the adequacy of the sample size, trend of changes in yield rates and in planning other allied studies. NSSO has impressed upon the States, the need for calculation of the standard errors annually. In case the %SE of a crop is greater than 5% and 10% for non-dried & dried crops respectively at the district level, SASA is expected to increase plan according to precision table in the next Agricultural Year. This is indispensable to ensure control over sampling process and precision of estimates at the district level which should be less than 5% and 10% for non-dried & dried crops respectively.

**3.1.7** A study to ascertain whether the non-response was affecting the representative character of the sample was attempted using the data collected under ICS Scheme. The percentage of fields with Irrigation, High Yielding Variety of seeds and Fertilizers were computed for (a) fields where experiments were conducted and (b) all the fields chosen. The results of analysis presented in **Annex-VII** do not provide any clear evidence of distortion of the representativeness of the sample by the experiments lost. However, due to limited number of observations on which the comparisons have been made, no firm conclusion can be drawn.

**3.1.8** The GCES covers principal cereals and pulses, major fibers like Cotton, Jute and Mesta, principal Oil seeds such as Groundnut, Sesamum, Linseed, Rape & Mustard and Castor as well as Sugarcane and Tobacco, wherever these crops are sown in larger tracts. A few minor food and non-food crops (like Fruits and Vegetables) are also covered in some States. The percentage coverage of area under major crops is generally high in most of the States. States where percentage coverage is the lowest for a crop are shown in **Table – 3**.

**3.1.9** The design for crop survey is generally a composite one without any stratification according to inputs such as irrigation and / or seed. The differential yield rates are, however, worked out on a post stratification basis using the ancillary data regarding inputs applied, collected during the course of conduct of experiments. The National Commission on Agriculture had also recommended that the sampling design for crop cutting surveys should be reviewed with a view to introducing stratification according to irrigated and rain fed areas as well as high yield and local varieties of seed. The position during 2018-19 regarding pre-stratification on the basis of irrigation and variety of seeds is shown in **Table – 4**.

**Table - 3**  
**Percentage of crop area covered (lowest) under GCES for major crops**  
**during 2018-19**

| Sl. No. | Crop                              | Minimum Area<br>(% of the total area<br>under the crop) | Name of State         |
|---------|-----------------------------------|---|-----------------------|
| 1.      | Rice (Autumn)                     | 2   | Kerala                |
| 2.      | Rice (Winter)                     | 3   | Kerala                |
| 3.      | Rice (Summer)                     | 2   | Kerala                |
| 4.      | Rice (Combined)                   | 35  | Jammu & Kashmir       |
| 5.      | Jowar (Kharif HYV- Tra- Combined) | 27  | Karnataka             |
| 6.      | Bajra (Kharif)                    | 65  | Telangana             |
| 7.      | Maize                             | 7   | Haryana               |
| 8.      | Maize (Rabi)                      | 36  | Tamil Nadu            |
| 9.      | Maize (Combined)                  | 35  | Jammu & Kashmir       |
| 10.     | Ragi (Rabi)                       | 30  | Andhra Pradesh        |
| 11.     | Wheat ( Tra-Irr & UI)             | 38  | Jammu & Kashmir       |
| 12.     | Barley                            | 29  | Haryana               |
| 13.     | Gram                              | 40  | Haryana               |
| 14.     | Redgram /Tur                      | 21  | Haryana               |
| 15.     | Cotton                            | 45  | Haryana               |
| 16.     | Mesta                             | 97  | Andhra Pradesh, Bihar |
| 17.     | Jute                              | 78  | Meghalaya             |
| 19.     | Groundnut                         | 64  | Chhattisgarh          |
| 20.     | Groundnut (Rabi)                  | 65  | Andhra Pradesh        |
| 21.     | Sesamum (Kharif)                  | 47  | Chhattisgarh          |
| 22.     | Sesamum (Rabi)                    | 59  | Andhra Pradesh        |
| 23.     | Castor                            | 70  | Telangana             |
| 24.     | Sugarcane                         | 0.04  | Kerala                |
| 25.     | Linseed                           | 63  | Chhattisgarh          |
| 26.     | Rape & Mustard                    | 51  | Chhattisgarh          |
| 27.     | Chillies (Rabi)                   | 3   | Chhattisgarh          |
| 28.     | Tobacco                           | 28  | Telangana             |

**Note:-**

GES data pertains to the year 2018-19 as this forms the basis for sample selection on Crop Cutting Experiment under ICS scheme 2019-20.

**Table – 4**  
**Status of Pre-Stratification under CES during 2018-19**

| Sl. No. | State          | Crops for which pre-stratification is done according to  |   |  |
|---------|----------------|--|---|--|
|         |                | Both Irrigation & Seed   | Irrigation only   | Seed only                                |
| 1.      | Andhra Pradesh | -  | Paddy(Kharif & Rabi)  | -  |
| 2.      | Bihar          | Paddy (Aghani) and Wheat   | Paddy (Bhadai) and Sugarcane  | Paddy (Garma) and Maize (Bhadai & Garma) |
| 3.      | Chhattisgarh   | Paddy* and Wheat*  | -   | -  |
| 4.      | Gujarat        | -  | Paddy (Kh.), Wheat and Cotton   | -  |
| 5.      | Jharkhand      | -  | -   | Paddy (Aghani) and Wheat                 |
| 6.      | Karnataka      | Paddy (Kh., Rabi* & Sum *), Jowar (Kh., Rabi & Summer**), Bajra (Kh.), Maize (Kh., Rabi & Summer**), Ragi (Kh., Rabi & Summer**) and Wheat | Groundnut @ (Kh., Rabi & Sum.), Cotton (Kh.), Gram and Sun flower (Kh., Rabi & Sum) | Maize (Summer)                           |
| 7.      | Madhya Pradesh | Paddy and Wheat  | -   | -  |
| 8.      | Maharashtra    | -  | Paddy (Kh.), Jowar (Rabi), Bajra, Wheat and Cotton                                  | -  |
| 9.      | Rajasthan      |  | Gram and Wheat  | -  |
| 10.     | Tamil Nadu     | -  | Jowar, Bajra, Maize, Ragi, Groundnut, Sesamum and Cotton                            | -  |

**Note:** Kh. – Kharif, Sum - Summer

@ - Pre-stratification only in the relevant districts and not for the State as a whole.

\* - Pre-stratification according to seed is for irrigated category.

\*\* - Pre-stratification according to irrigation is only for HYV.

**3.1.10** In some of the States, the limitation of the official acreage statistics under Irrigation or under High Yielding crops has been a handicap in adopting pre-stratification. To obviate this difficulty, it is necessary that land records are maintained in each State for area under Irrigation and under High Yielding Variety of seed.

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## 4



## CO-ORDINATION

### 4.1. Forums for Coordination

**4.1.1** The NSSO (FOD) is vested with the responsibility of coordinating all the technical aspects between States and Central agencies besides performing the role of providing technical advice and ensuring adoption of uniform concepts, definitions and procedures in GCES in different States. It reviews the plans, details of implementation and the results of the surveys, participates in the training camps organised for the State field workers and undertakes inspection of fieldwork. It publishes annually a report titled “Consolidated Results of Crop Estimation Surveys on Principal Crops” covering different aspects of GCES, such as organisation, training, supervision, coverage, response and estimation etc. To guide NSO (FOD) in discharging these functions smoothly, following forums have been set up:

- National Statistical Commission
- High Level Coordination Committee at State level
- Zonal meetings of SASAs (State Agricultural Statistics Authority)
- The Conference of Central and State Statistical Organisations (CoCSSO)

#### I – National Statistical Commission:

**4.1.2** The National Statistical Commission, set up by the Government in January 2000 under the Chairmanship of Dr. C. Rangarajan, reviewed the statistical system and the entire gamut of Official Statistics in the country. The Rangarajan Commission submitted its report to the Government in August 2001. One of the key recommendations of this Commission was to establish a permanent National Commission on Statistics to serve as a nodal and empowered body for all core statistical activities of the country, evolve, monitor and enforce statistical priorities and standards and to ensure statistical co-ordination among the different agencies involved. In line with the recommendations of the Rangarajan Commission, the Government of India resolved to set up a permanent National Statistical Commission (NSC), vide Notification No. 85 dated 1st June 2005 published in the Gazette of India, Extraordinary, Part-III-Section. The NSC was initially constituted on 12th July 2006. The Commission consists of a part-time Chairman, four part-time Members and Secretary, Planning Commission as an ex-officio Member. The Chief Statistician of India (CSI) is the Secretary to the Commission and also the Secretary to the Government of India in the Ministry of Statistics and Programme Implementation (MoSPI). The NSC took note of the

findings and recommendations of all important bodies in the context of the prevailing status of Agricultural Statistics and attempted a fresh analysis focusing its attention on identification of the deficiencies of the system and the remedial measures required to set them right.

## II – High Level Co-ordination Committees

**4.1.3** High Level Co-ordination Committees (HLCCs) on Agricultural Statistics have been constituted at the State level. These committees include representatives at the highest possible level of executive in the State Government departments connected with area and yield estimation, Principal Advisor, Union Ministry of Agriculture & Farmer's Welfare and the Additional Director General, NSSO (FOD). The Committee is usually headed by a senior officer of the State Government at the level of Secretary like the Financial Commissioner, the Agricultural Production Commissioner, the Chairman or Member, Board of Revenue etc. Such committees have been formed in all Land Records States and Non Land Record States. In West Bengal, a Steering Technical Committee consisting of the concerned departments discharges similar functions. In Odisha, High Level Coordination Committee (HLCC) also carries out the functions of State Level Coordination Committee (SLCC) in the State. During the year under review viz. 2019-20, two meetings of these committees were held in the States/UTs of Haryana and Jammu & Kashmir. In the meeting of these committees, various issues relating to area forecasts, estimates of yield rates and crop production, the functioning of TRS/EARAS and ICS schemes and other aspects of Agricultural Statistics are discussed. These meetings have proved very useful in sorting out problems relating to coordination of the efforts of the associated departments of the States, other operational problems and in taking steps for improving the functioning of the system.

## III – Zonal meetings of SASAs

**4.1.4** In mid-seventies, the Governing Council of NSSO recommended periodical meetings of State Agricultural Statistics Authorities (SASAs) in different zones of the country to discuss common technical issues. Accordingly, the States were grouped into 4 zones as under: -

- (i) Southern Zone:** Andhra Pradesh, Karnataka, Kerala, Tamil Nadu and Puducherry.
- (ii) Western Zone:** Gujarat, Madhya Pradesh, Maharashtra, Goa, Daman & Diu, Dadra and Nagar Haveli.
- (iii) Northern Zone:** Haryana, Himachal Pradesh, Jammu & Kashmir, Punjab, Rajasthan, Uttar Pradesh and Delhi.
- (iv) Eastern Zone:** Assam, Bihar, Odisha and West Bengal.

Since 1977, three rounds of such meetings in each of the Eastern zone, Northern Zone, Southern Zone and Western Zone have been held. The issues discussed in the meetings included problems relating to area and yield estimation, review of the working of the TRS and ICS schemes, methodological aspects of crop surveys, collection and analysis of ancillary data, progress of implementation of the recommendations of National Commission on Agriculture and recording of area under high yielding varieties of crops. No such meetings have been held since 1986-87. It will be helpful, if such meetings are held

periodically as they could be useful in studying the technical aspects of agriculture survey in different States of a zone.

#### **IV - The Conference of Central and State Statistical Organizations (COCSSO)**

In order to strengthen the coordination of statistical activities among the Ministry of Statistics and Programme Implementation, other Central Ministries and State Statistical Organisations, the Conference of Central and State Statistical Organisations (COCSSO) was organized for the first time in the year 1971. Earlier, it was supposed to be organized once in every two years. The objectives of the conference are:

- To provide a platform for discussion on the statistical issues of common interest to the Central and the State Statistical Organizations;
- To provide an overall perspective to the development of statistical system and to make recommendations/suggestions on issues having bearing on the development of the statistical system;
- To solve the technical issues relating to statistics;
- To set up Working Groups on specific issues/tasks relating to official statistics;
- To provide guidelines in the collection of statistics and maintenance of statistical standards and quality, besides uniformity in statistical standards;
- To consider the Action Taken Report of the follow up action on the recommendations of the previous meetings(s) of COCSSO; and
- To review the role of the Statistical Advisers in the Central and States/UT Governments.
- 
- During the year 2019-20, 27th COCSSO was held at Kolkata, West Bengal on 11th and 12th November, 2019. The theme of conference was “Sustainable Development Goals (SDGs)”.

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## 5



## IMPROVEMENT OF CROP STATISTICS (ICS) SCHEME

**5.1.1** The ICS scheme, which had a modest beginning in the year 1973-74, reached to the optimum coverage in subsequent years as indicated in **Table – 5**. Since then, the scale of sample checks has been more or less stabilized. During 2019-20, the scheme was operational in 20 States and two Union Territories of Jammu & Kashmir and Puducherry including EARAS States of Kerala, Odisha and West Bengal. The scheme is also being implemented in newly carved State Telangana starting from 2015-16. In these States/ UT, the sample checks were carried out by both the agencies. The work of checking of crop abstract statements was suspended in Central sample in 1993-94, it was revived in 1999-2000 and again suspended since 2008-09.

**Table – 5**  
**Sample size for various checks under ICS**

| Year    | Sample check on Area Enumeration<br>(Number of villages.) |       | Sample check on Area Aggregation<br>(Number of villages) |       | Supervision on Crop Cutting Experiments<br>(Number of experiments) |       |
|---------|---|-------|--|-------|--|-------|
|         | Central   | State | Central  | State | Central  | State |
| 1973-74 | 1648  | 1958  | 1648   | 1958  | 2308   | 2568  |
| 1974-75 | 3695  | 2566  | 1848   | 1283  | 9892   | 7244  |
| 1975-76 | 4017 +560 grids   | 4310  | 3837   | 4090  | 12906  | 11760 |
| 1976-77 | 4050 +560 grids   | 4852  | 3870   | 4740  | 13307  | 13338 |
| 1977-78 | 4742 +560 grids   | 4777  | 4379   | 4270  | 15692  | 14151 |
| 1978-79 | 4732 +560 grids   | 4993  | 4390   | 4650  | 15518  | 14970 |
| 1979-80 | 4742 +560 grids   | 4853  | 4390   | 4650  | 15480  | 14380 |
| 1980-81 | 4722 +560 grids   | 4960  | 4458   | 4498  | 15450  | 14700 |
| 1981-82 | 4755 +250 grids   | 4992  | 4265   | 4304  | 15670  | 14830 |
| 1982-83 | 4651 +250 grids   | 4901  | 4265   | 4304  | 15740  | 14929 |
| 1983-84 | 4757 +250 grids   | 5007  | 4271   | 4301  | 15420  | 14610 |
| 1984-85 | 4754 +250 grids   | 5004  | 4527   | 4567  | 15540  | 14726 |
| 1985-86 | 4754 +250 grids   | 5004  | 4639   | 4669  | 15562  | 14752 |
| 1986-87 | 5005  | 5415  | 4650   | 4680  | 15570  | 14712 |
| 1987-88 | 5004  | 5415  | 4650   | 4680  | 15570  | 14760 |
| 1988-89 | 4952  | 5362  | 4694   | 4734  | 15594  | 14984 |
| 1989-90 | 4952  | 5362  | 4694   | 4734  | 15398  | 14588 |
| 1990-91 | 4952  | 5362  | 4694   | 4734  | 15600  | 14700 |
| 1991-92 | 4952  | 5362  | 4692   | 4722  | 15660  | 14840 |
| 1992-93 | 4952  | 5352  | 4692   | 4722  | 15660  | 14840 |

| Year      | Sample check on Area Enumeration<br>(Number of villages.) |       | Sample check on Area Aggregation<br>(Number of villages) |       | Supervision on Crop Cutting Experiments<br>(Number of experiments) |       |
|-----------|---|-------|--|-------|--|-------|
|           | Central   | State | Central  | State | Central  | State |
| 1993-94   | 4952  | 5352  | -  | 4739  | 15660  | 14840 |
| 19 94-95  | 4952  | 5352  | -  | 4739  | 15660  | 14840 |
| 1995-96   | 4949  | 5349  | -  | 4739  | 15660  | 14840 |
| 1996-97   | 4949  | 5349  | -  | 4739  | 15660  | 14840 |
| 1997-98   | 4949  | 5349  | -  | 4739  | 15660  | 14840 |
| 1998-99   | 4949  | 5349  | -  | 4739  | 15660  | 14840 |
| 1999-2000 | 4948  | 5358  | 4698   | 4738  | 15658  | 14908 |
| 2000-01   | 4949  | 5359  | 4699   | 4739  | 15660  | 14910 |
| 2001-02   | 4949  | 5359  | 4699   | 4739  | 15660  | 15660 |
| 2002-03   | 4949  | 5359  | 4699   | 4739  | 15660  | 15660 |
| 2003-04   | 4949  | 5359  | 4699   | 4739  | 15732  | 15732 |
| 2004-05   | 4949  | 5359  | 4699   | 4739  | 15732  | 15732 |
| 2006-07   | 4949  | 5359  | 4699   | 4739  | 15732  | 15732 |
| 2007-08   | 4949  | 5359  | 4699   | 4739  | 15732  | 15732 |
| 2008-09   | 4949  | 5349  | *  | 4739  | 15732  | 15732 |
| 2009-10   | 4949  | 5349  | *  | 4739  | 15732  | 15732 |
| 2010-11   | 4939  | 5349  | *  | 4739  | 15662  | 15662 |
| 2012-13   | 4939  | 5349  | *  | 4739  | 15662  | 15662 |
| 2014-15   | 4939  | 5349  | *  | 4739  | 15662  | 15662 |
| 2015-16   | 4939  | 5349  | *  | 4739  | 15662  | 15662 |
| 2016-17   | 4939  | 5349  | *  | 4739  | 15662  | 15662 |
| 2017-18   | 4939  | 5349  | *  | 4739  | 15662  | 15662 |
| 2018-19   | 4939  | 5349  | *  | 4739  | 15662  | 15662 |
| 2019-20   | 4939  | 5349  | *  | 4739  | 15662  | 15662 |

\* *Work was withheld in Central sample from 08.12.2008.*

**5.1.2** The scheme accomplishes its objectives by conducting sample checks on the primary field work through :

- Physical verification of the crop enumeration done by the village primary workers in a sample of about 10,000 villages in each season,
- Checking of the aggregation of crop-wise area in the Khasra register of these villages, and
- Supervision on about 32,000 crop cutting experiments at harvest stage in a year.

**5.1.3** The sample checks are undertaken by the supervisory staff of NSSO (FOD) and of the State Governments on a matching basis in two non-overlapping samples. The basic data collected through these checks are exchanged between the two agencies. The scheme is operational in 20 States and 2 Union Territories.

**5.1.4** Two schedules viz., Sch AS 1.0 and AS 2.0 for recording the findings of the sample check on (a) enumeration of area in a village and (b) the crop cutting experiments respectively, are designed to be filled-in by the supervisory staff of Central (NSSO-FOD) and State agencies after conducting the sample checks. The filled-in schedules are sent to both the agencies on reciprocal basis for tabulation and analysis. The NSSO (FOD) is responsible for all aspects of the scheme right from the primary stage of preparation of survey design,

selection of sample units, field work, and data processing till the end stage of report writing.

**5.1.5** The programme of sample check on area enumeration actually consists of selecting and locating a sample of 20 survey/sub survey numbers (fields) in terms of 4 clusters of 5 survey/ sub survey nos. each, within each selected sample village with the help of the village maps and recording the actual utilisation to which the land under survey numbers are put during each season and comparing these with the corresponding entries by the primary workers in respect of these selected fields.

**5.1.6** The concurrent inspection of crop cutting experiments at harvest stage consists of examining whether the conduct of the experiments by the State primary workers conforms to the procedures prescribed under the GCES. The inspection covers aspects such as the selection of fields and random coordinates, marking of experimental plots of specified shape and size, harvesting of plants, weighing of the produce etc. In addition, the position regarding the supply and use of equipment for conducting the experiments, training received by primary workers, crop condition, use of inputs etc. is also ascertained.

**5.1.7** The observations of the supervisor on area enumeration are recorded in specially designed Schedule AS 1.0. As the sample for ICS Scheme is generally chosen as a sub-sample of the villages under TRS or EARAS, the data from these sample checks, serve as an important indicator of the manner in which both the schemes are functioning. The observations of the supervisor on conduct of crop cutting experiments are recorded in Schedule AS 2.0. The ICS sample villages for crop cutting experiments being part of GCES villages, reveal the manner of implementation of GCES in different States.

**5.1.8** The data collected through the sample check programme under the ICS scheme are analysed facilitating factual appraisal of the State system with reference to the following:-

- Timeliness in completion of area enumeration and working of TRS.
- Discrepancies in recording crop and crop area, their frequency and impact.
- Discrepancies in recording ancillary information (viz. Irrigation, Seed Variety), their frequency and impact.
- Departures from the prescribed procedure for conducting crop cutting experiments and their impact.

**5.1.9** The yield data from the supervised experiments are also used for obtaining the average yield rates and standard errors of specified crops. These estimates are forwarded to the Ministry of Agriculture & Farmer's Welfare. They are used by the Ministry to validate the estimates provided by the State Governments.

**5.1.10** Two features introduced later in the ICS programme are (a) sample check of aggregation of area figures above village level and (b) District Level Committee consisting of representatives of the Central and State Governments to probe into the reasons for large differences/no differences between the entries of the supervisor and primary worker in area enumeration.

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# 6



## DESIGN AND SAMPLE SELECTION FOR ICS SCHEME

### 6.1 Sample Check on Area Enumeration

**6.1.1** The total sample size for sample check on area enumeration under the scheme is distributed among the different States on a joint consideration mainly of crop area and availability of man power resources. Then within a State, villages are allotted to the districts in proportion to the gross cropped area in the districts. The design adopted for selection of villages for the sample check on area is that of stratified simple random sampling, where a teshil/anchal/sub-division /block/ taluka or a group of them based on geographical contiguity forms a 'Stratum' except Kerala and West Bengal where District is the Stratum.

**6.1.2** The sample size is allocated to the strata in proportion to average gross cropped area of last three years in the stratum. In a stratum, sample villages are then selected by Simple Random Sampling without Replacement (SRSWoR) from the list of TRS villages in Land Records States. It is ensured that at least two villages are selected from each stratum. In Odisha, sample villages for check on area are selected from the crop cutting villages for minor crops under GCES, which is a sub-sample of the EARAS villages. In West Bengal, from Kharif 1996-97, the crop-wise area enumeration work is being done by the Directorate of Land Records and Surveys (DLR&S) in all EARAS mouzas. The frame for selection of villages for sample check on area enumeration under ICS Scheme is the list of EARAS villages.

### 6.2 Sample Check on Crop Cutting Experiments

**6.2.1** The total number of experiments to be supervised by each agency under the scheme is distributed among the specified crops and States taking into account mainly the crop area and availability of man power resources. District is the 'Stratum' for supervision of crop cutting experiments. Within a State, the experiments are allotted to the strata and crops in proportion to the number of crop cutting experiments planned under GCES. The number of villages in a district for inspecting experiments on a crop is determined at the rate of two experiments per village, except for minor crops in Odisha where it is one experiment per village.

**6.2.2** While selecting the villages for sample check on crop cutting experiments, it is prescribed that as far as possible, the experiments are to be located in the list of the sample villages selected for check on area enumeration. Shortfall, if any, in the requisite quota of a stratum is to be made up by selecting from the corresponding GCES list for the stratum. In West Bengal, the sampling design for supervision of crop cutting experiments is that of stratified multistage sampling where districts are taken as strata. Blocks within a District are First Stage Units (FSU) and selected with Probability Proportion to Size (PPS), size being area under an experimental crop in the block. Mouzas within a selected block are Second Stage Units (SSUs) and selected through Simple Random Sampling without Replacement (SRSWOR). The total number of mouzas to be selected in a district for sample check on crop cutting experiments will be equal to the half of the number of crop cutting experiments (2 experiments on a crop in each mouza) indicated against a district in the plan of work.

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# 7



## ANALYSIS OF DATA

### 7.1 Check on Area Enumeration

**7.1.1** Keeping in view the basic objective of the scheme of pointing out the deficiencies in the system of collection of area statistics and also the types of data collected through Schedule AS 1.0, the analysis of the information available in Schedules AS 1.0 aims at studying the following major aspects:-

- Timeliness in completion of area enumeration and submission of crop abstract
- Discrepancies in recording the basic area figures and their impact
- Discrepancies in recording ancillary information and their impact

**7.1.2** Under the Timely Reporting Scheme (TRS), the primary worker is required to complete crop area enumeration (Girdawari) in the TRS villages in each season of the State on priority basis according to a prescribed time schedule, which is either in advance of the normal Girdawari period or in the first part of it. He is also expected to submit TRS statements to his higher authorities by pre-specified dates. A provision exists in Schedule AS 1.0 for collecting information on the due and actual dates of completion of Girdawari as well as the submission of TRS statement. Analysis of the data collected indicates how far the time programme under TRS is being adhered to by the primary workers and throws light on delays.

**7.1.3** The possible errors of the primary worker while recording of area figures which may creep into the crop enumeration exercise are:-

- Non-Reporting of crops actually sown in the field,
- Reporting of crops not actually sown in the field,
- Incorrect assessment of area under the crop.

**7.1.4** The occurrence of these errors can be assessed by comparing the entries of the ICS supervisors and that of State primary workers. Two measures are adopted for the purpose of the assessment. The first one is the simple proportion of the number of survey numbers/serial numbers in which the error is noticed to the total number of survey/serial number for which both the entries are available. As the tabulation is done crop-wise, a survey number will be counted as many times as the number of crops in it. The second measure is the ratio of total crop area in the sample reported by the primary worker to that

reported by the supervisor. This measure is worked out crop-wise and indicates the impact of the errors on crop area figures.

**7.1.5** The State primary workers are also required to report ancillary items of information like Irrigation particulars and Varieties of Seeds. Discrepancies in recording these items in the sample clusters have been studied in the same manner as indicated in the previous paragraph.

**7.1.6** For preparation of crop abstract, the primary workers are required to total the area figures of survey/sub-survey numbers under each crop or non-crop utilisation for each season. Under the ICS scheme, the supervisor also totals the area for different crops/ non-crop use independently. A comparison of the two totals helps to measure the extent of inaccuracy in the aggregation done by the primary worker.

**7.1.7** The data collected under the scheme are analysed for other purposes as well. An illustration of this is the average workload per Patwari in the various States derived from the ICS data of 2019-20 and presented in Table-2 of Chapter-2. Detailed analysis undertaken in the reports of individual States would help to judge the extent to which the workload of the State primary workers had any bearing on lack of timeliness and inaccuracies noticed in area enumeration.

**7.1.8** While the main objective of the scheme is to improve the system of collection of crop statistics in the States by finding out the deficiencies through sample checks, the sample observations have also been utilized for building up estimates of crop areas. These estimates are based on the supervisor and the primary worker's entries. Two estimates are prepared for each crop. For obtaining a measure of the effect of inaccuracies to measure the effect of errors in the area enumeration work done by the patwari, two estimates of area under a given crop are calculated on the basis of the patwari and supervisor's entries for the selected sample of 20 survey/serial numbers within the supervised villages as given in Schedule AS 1.0 and these estimates are denoted by A-III and A-IV respectively.

**A-III: Estimates of crop area obtained from patwari's entries for 20 survey/serial numbers**

**A-IV: Estimates of crop area obtained from supervisor's entries for 20 survey/serial numbers**

**7.1.9** These estimates are compared with the corresponding TRS estimates and final estimates of DES, Ministry of Agriculture & Farmer's Welfare and have been presented in Annex-XII. The method of estimation for these estimates is given in the Appendix.

## **7.2. Check on Crop Cutting Experiments**

**7.2.1** Unlike the sample check on area, the sample check on crop cutting experiments is concurrent. The supervisor is present during the conduct (specifically at harvest stage) of experiment. He observes the extent of the primary worker's adherence to the prescribed procedure and corrects mistakes, if any, observed on the spot. He also collects information on the supply and use of essential equipment, training received by the primary worker, arrangements for proper storage of grains for the purpose of drriage experiments, ancillary information on inputs like Irrigation, Seeds, Fertilizers etc. The analysis of data collected through Schedule AS 2.0, therefore, provides an insight of various aspects of crop cutting

experiments like availability of basic records, reasons for substitution of sampling units, types and frequency of various types of mistakes in conducting crop cutting experiments, supply and use of equipment etc.

**7.2.2** Average yield rate of specified crops in a State based on the supervised experiments and their standard errors are also calculated by following the same procedure as adopted by the States for GCES and thus, these estimates can be compared with the corresponding GCES estimates. Appendix gives the formula for working out the estimate of average yield rate and the standard error thereof.

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## 8



## FINDINGS UNDER ICS SCHEME

### 8.1 Sample Check on Area Enumeration

#### I – Response

**8.1.1** Annex-I gives the State-wise response achieved (i.e. the percentage of the filled-in Schedules AS 1.0 received) in sample check on enumeration of area under ICS Scheme during 2019-20. It is encouraging to note that response for the Central Sample was cent percent except in the States like Bihar (99% in Late Kharif ), Jammu & Kashmir (65% in Kharif), Odisha (99% in Late Kharif) and Rajasthan (99% in Kharif). Further it is noteworthy to state that response for the State Sample was cent percent in the States/UTs like Andhra Pradesh, Chattisgarh, Karnataka, Kerala and Puducherry for all the seasons covered. The response for the State Sample was below 51% in Assam (44% in Summer), Gujarat (37% in Summer), Himachal Pradesh (36% in Rabi), Uttar Pradesh (33% in Kharif, 27% in Rabi & 11% in Summer) and West Bengal (17% in Early Kharif, 17% in Late Kharif, 11% in Rabi & 2% in Summer). The concerned State SASA(s) may take suitable measures to improve the response rate to improve the quality of data collected.

#### II - Completion of Girdawari (Area Enumeration) under TRS/EARAS

**8.1.2** Annex-II shows the percentage of villages in which crop area enumeration (Girdawari) was found to have been completed in time, late or found not completed till the time of the sample check i.e. supervisor's visit, during each season of 2019-20. A summary showing agency wise brief picture of the timeliness in completing area enumeration by primary workers is given below in **Table-6** for 2019-20 and 2018-19. The graphic presentation of the status of completion of Girdawari at all India level for pooled sample is presented in **Chart-I** :

**8.1.3** One of the main objectives of the TRS/EARAS is to reduce the time lag between completion of sowing and availability of estimation of area sown. Delays in completion of area enumeration, violating the prescribed time schedule and subsequent delays in submission of crop abstracts defeat the very purpose of the Scheme. Details of completion of area enumeration during 2019-20 are given in **Annex-II**. Some states like Chattisgarh (95% in Kharif and 73% in Rabi), Haryana (99% in Kharif), Himachal Pradesh (94% in Kharif and 95% in Rabi), Kerala (99% in Early Kharif, 100% in Late Kharif and 62% in Summer), Madhya Pradesh (98% in Kharif & 94% Rabi), Odisha (98% in Early Kharif & 91% in Late Kharif), Rajasthan (78% in Late Kharif & 86% in Rabi), Tamil Nadu (98% in Rabi), Telangana

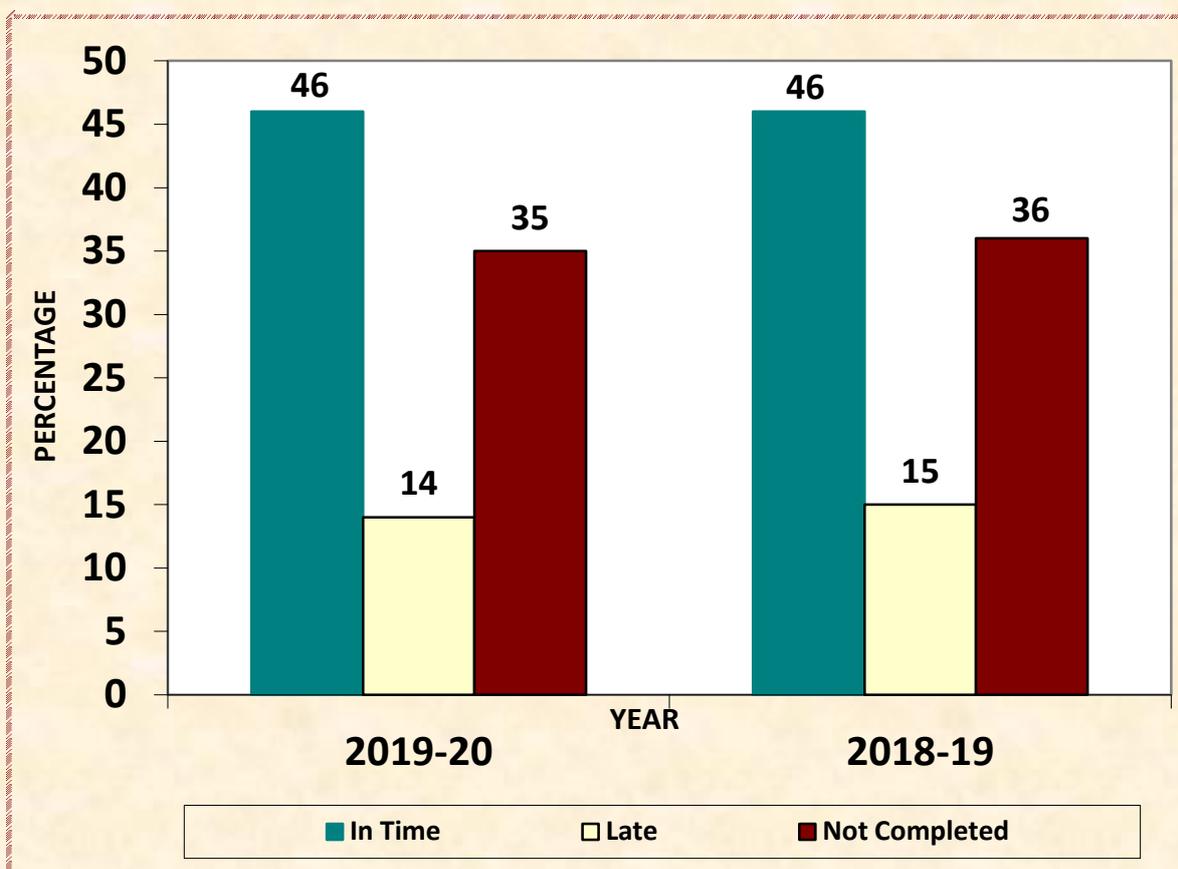
(90% in Kharif), Uttarakhand (88% in Kharif, 83% in Rabi & 94% in Summer) and Puducherry (100% in Kharif and Rabi I & 94% in Rabi II) are reporting timely completion of Girdawari. However, for all the States taken together on comparison of the position of timely completion of area enumeration work during 2019-20 with that of the last year, it is observed that, the timely completion of area enumeration was found to be of the order of 49% during Early Kharif, 50% during Late Kharif, 45% during Rabi and 33% during Summer of 2019-20 as against 45%, 51%, 48% and 33% during 2018-19. The position remains unsatisfactory for some of the States like Andhra Pradesh, Assam, Bihar, Gujarat, Haryana, Jammu & Kashmir, Jharkhand, Karnataka, Maharashtra, Punjab, Telangana and West Bengal. The estimates of area cannot be compiled with such high level of non-response at the basic level and these States need to take suitable administrative measures to improve the position so as to ensure the reliability of the area estimates.

**Table – 6**  
**All India Status of completion of Girdawari during 2019-20 and 2018-19**

| Status              | Percentage of Villages |       |        |         |       |        |
|---------------------|------------------------|-------|--------|---------|-------|--------|
|                     | 2019-20                |       |        | 2018-19 |       |        |
|                     | Central                | State | Pooled | Central | State | Pooled |
| <b>Early Kharif</b> |                        |       |        |         |       |        |
| In time             | 40                     | 60    | 49     | 44      | 47    | 45     |
| Late                | 8                      | 11    | 9      | 7       | 17    | 12     |
| Not Completed       | 51                     | 24    | 39     | 49      | 36    | 43     |
| <b>Late Kharif</b>  |                        |       |        |         |       |        |
| In time             | 48                     | 52    | 50     | 48      | 53    | 51     |
| Late                | 10                     | 23    | 16     | 10      | 26    | 18     |
| Not Completed       | 41                     | 19    | 31     | 39      | 16    | 29     |
| <b>Rabi</b>         |                        |       |        |         |       |        |
| In time             | 37                     | 57    | 45     | 44      | 54    | 48     |
| Late                | 11                     | 16    | 13     | 10      | 21    | 15     |
| Not Completed       | 51                     | 21    | 38     | 44      | 19    | 33     |
| <b>Summer</b>       |                        |       |        |         |       |        |
| In time             | 30                     | 37    | 33     | 26      | 45    | 33     |
| Late                | 7                      | 28    | 17     | 6       | 18    | 10     |
| Not Completed       | 35                     | 24    | 30     | 65      | 32    | 54     |
| <b>All Seasons</b>  |                        |       |        |         |       |        |
| In time             | 41                     | 52    | 46     | 41      | 52    | 46     |
| Late                | 10                     | 20    | 14     | 9       | 22    | 15     |
| Not Completed       | 45                     | 22    | 35     | 47      | 22    | 36     |

**Note:-** \* Excluding information on completion of Girdawari not available (item- 7) and system of Girdawari does not exist (item-8) of Annex-V, State wise Status Report 2019-20 & 2018-19.

**CHART - I**  
**ALL INDIA STATUS OF COMPLETION OF GIRDWARI**



### III - Submission of TRS/EARAS Statements

**8.1.4** The details of submission of TRS/EARAS statements during 2019-20 are presented in **Annex-III**. Timely submission of these statements needs considerable improvement. **At all India level, over the various seasons, the tendency of submitting these statements after completion of Girdawari was observed in more than 50% of the selected villages of various states like** Chhattisgarh (Kharif 97% & Rabi 92%), Haryana (Kharif 97% & Rabi 93%), Himachal Pradesh (Kharif 71% & Rabi 81%), Jammu & Kashmir (Kharif 66%, Rabi 86%), Karnataka (Kharif 75% & Rabi 66%, Summer 92%), Kerala (Autumn 98%, Winter 99% & Summer 98%), Madhya Pradesh (Kharif 96% & Rabi 98%), Odisha (Autumn 92%, Winter 95% & Summer 100%), Punjab (Kharif 57%, Rabi 54%), Rajasthan (Kharif 95%, Rabi 91%), Tamil Nadu (Phase-I 90%, Phase-II 89%, Phase-III 99%), Uttar Pradesh (Kharif 62%), Uttarakhand (Kharif 98%, Rabi 80% and Summer 96%) and Puducherry (Kharif 100%, Rabi I 100% & Rabi II 100%). Also, the matter of serious concern is 7% of those cases where submission of Statement made without completion of area enumeration work. The percentage of villages for which TRS statement was submitted without completion of Girdawari was found to be high in very few States, for instance Andhra Pradesh (Kharif 66% & Rabi 49%), Bihar (Bhadai 6%), Jharkhand (Early Kharif- 14%, & Rabi 7%), Jammu & Kashmir (Kharif 6%), Karnataka (Kharif-8%), Tamil Nadu (Phase I-10%, Phase-II - 12%) and Telangana (Kharif 76%, Rabi 54%). It is reiterated that these State governments may take appropriate administrative measures to curb this recurring

tendency. In 2019-20, TRS statements were submitted in time after completion of Girdawari only in 52% sample villages during Autumn, 57% during Winter, 56% during Rabi and 41% during Summer. Further, the submission of TRS statement without completion of Girdawari was 4%, 10%, 7% and 1% of the sample villages during Early Kharif (Autumn), Late Kharif (Winter), Rabi and Summer respectively. Although, there is a decline vis-à-vis previous year, yet it is a matter of great concern and indicates serious procedural breach of guidelines for area enumeration. Remedial measures are required to be taken for ensuring timely submission of TRS statements only after completing the Girdawari. A brief summary of the season-wise status for the years **2019-20** and **2018-19** is presented in **Table-7**.

Table – 7

**Status of Submission of TRS/EARAS Statement during 2019-20 and 2018-19**

| Season         | Percentage of villages for which TRS statement |                |                            |                |                                  |                            |                            | Information about TRS not available |
|----------------|--|----------------|----------------------------|----------------|----------------------------------|----------------------------|----------------------------|-------------------------------------|
|                | Submitted                                      |                |                            |                |                                  | Not Submitted              |                            |                                     |
|                | Without completing Girdawari                   |                | After completing Girdawari |                | But date of submission not known | Though Girdawari completed | As Girdawari not completed |                                     |
|                | By due date                                    | After due date | By due date                | After due date |                                  |                            |                            |                                     |
| <b>2019-20</b> |  |                |                            |                |                                  |                            |                            |                                     |
| Early Kharif   | 2  | 2              | 38                         | 14             | 2                                | 3                          | 37                         | 0                                   |
| Late Kharif    | 9  | 1              | 41                         | 16             | 4                                | 6                          | 21                         | 0                                   |
| Rabi           | 6  | 1              | 42                         | 14             | 4                                | 5                          | 26                         | 0                                   |
| Summer         | 0  | 1              | 23                         | 18             | 7                                | 10                         | 28                         | 0                                   |
| <b>2018-19</b> |  |                |                            |                |                                  |                            |                            |                                     |
| Early Kharif   | 6  | 2              | 42                         | 6              | 1                                | 3                          | 36                         | 0                                   |
| Late Kharif    | 10   | 1              | 43                         | 16             | 3                                | 8                          | 19                         | 0                                   |
| Rabi           | 10   | 1              | 41                         | 17             | 5                                | 7                          | 19                         | 0                                   |
| Summer         | 4  | 1              | 28                         | 12             | 5                                | 6                          | 43                         | 0                                   |

*Note: - \* Excluding percentages of TRS statements submitted but could not be compared with girdawari completion (Item-8) of Annex - VI, State wise Status Report 2019-20 & 2018-19.*

**IV - Availability and Usability of village maps**

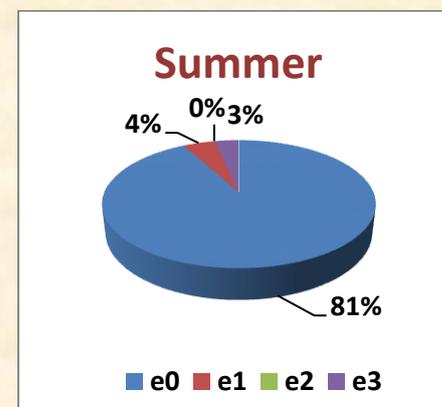
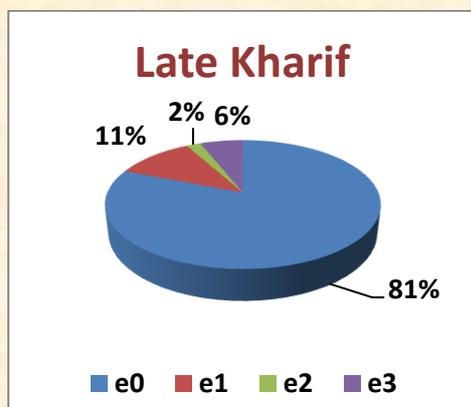
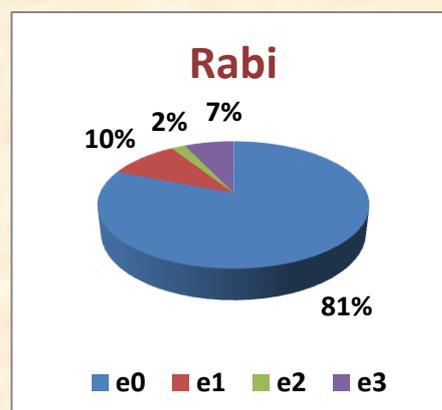
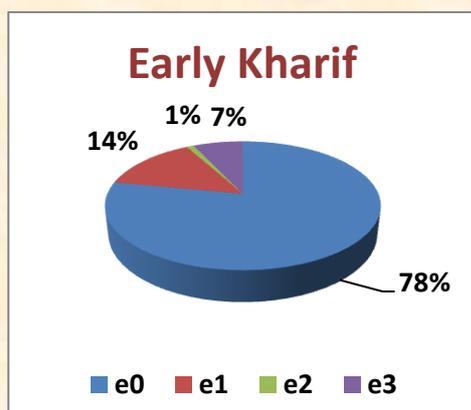
**8.1.5** Annex-IV gives the details regarding updation of village maps, their availability and usability. It may be seen that at all India level, maps available with the primary workers were found usable for identification of the survey numbers in 88% cases during 2019-20. Information in respect of updation of the maps reveals that in 64 % cases, maps available were updated more than 20 years ago. Use of outdated maps leads to problems of identification of survey numbers. For efficient functioning of the State system, regular updation of maps is essential.

**V - Accuracy of Girdawari**

**8.1.6** Annex-IV (a) and Chart-II show the percentage of survey numbers in which the three different types of discrepancies in recording the crop/ crop areas by the State primary

workers were noticed (viz. e1, e2 and e3). It can be seen that at all India level, there were no discrepancies observed in 78 % in Early Kharif, 81% in Late Kharif, 81% in Rabi and 81% in Summer. The magnitude of accuracy was found to be high in almost three-fourth of states like Andhra Pradesh (92% Late Kharif), Bihar (99% Early Kharif ,89% Late Kharif, 99% Rabi and 100% Summer), Chhattisgarh (94% Kharif and 95% Rabi), Gujarat (98% Kharif, 99% Rabi & 100% Summer), Haryana ( 92% Kharif, 95% Rabi, 100% Summer), Jammu & Kashmir ( 94% Kharif and Rabi 91%), Jharkhand (83% Rabi), Karnataka(85% Kharif, 81% Rabi & 92% Summer), Kerala (94% Early Kharif, 95% L.Kharif, 83% Summer), Madhya Pradesh (84% Kharif, 85% Rabi), Maharashtra ( 90% Summer), Odisha ( 100% Kharif, 98% Summer), Punjab (94% Kharif & 96% Rabi), Rajasthan (82% Kharif, 88% Rabi), Tamilnadu (88% Rabi), Uttarakhand (93% Late Kharif, 95% Rabi), West Bengal ( Late Kharif 98%, Rabi 98% and Summer 98%) and Puducherry (Kharif 94%, Rabi-I 93%, Rabi-II 97%).However, the discrepancy of one or the other type was observed in 22% of the selected survey numbers during Early Kharif, 19% during Late Kharif, 19% during Rabi and 7% during Summer 2019-20. The situation in States like Himachal Pradesh, Jharkhand, Telangana and Uttar Pradesh need some improvement. The accuracy of crop inspection could not be measured effectively in case of Assam because of abnormally low cases of completion of area enumeration by the State primary workers till the time of ICS supervision.

**CHART –II**  
**ERRORS OBSERVED IN AREA ENUMERATION DURING 2019-20**



- e0 :** No error
- e1 :** Not reporting the crop actually sown
- e2 :** Reporting the crop not sown
- e3 :** Incorrect reporting of area under a crop

**8.1.7** The most predominant error observed was that of **not recording the crops actually sown in the field ( $e_1$ )**, which occurred mostly in Andhra Pradesh (Rabi 38%), Bihar (Late Kharif 11%), Jharkhand (Early Kharif 50%, Late Kharif 62% & Rabi 17%), Karnataka (Rabi 27%), Maharashtra (Late Kharif 19% & Rabi 10%), Tamil Nadu (Phase-I 18%, Phase II 23%, Phase III 8%), Uttar Pradesh (Kharif 8%, Rabi 9% & Summer 30%), Uttarakhand (Summer 18%) and West Bengal (Early Kharif 13%). **Reporting of crops not actually sown ( $e_2$ ) was the least occurring of the three errors.** It was found mostly in Haryana (Late Kharif 2% & Rabi 2%), Himachal Pradesh (Kharif 5% & Rabi 6%), Karnataka (Kharif 2%, Rabi 4%), Madhya Pradesh (Kharif 3% & Rabi 3%), Maharashtra (Rabi 2%), Rajasthan (Kharif 3% & Rabi 2%), Tamil Nadu (Phase-I 2% & Phase-II 4%), Uttar Pradesh (Kharif 3%, Rabi 2% & Summer 2%), and Puducherry (Late Kharif 3% & Rabi 2%). **The error of inaccurate assessment of area under crop ( $e_3$ )** was found dominant in Himachal Pradesh (Kharif 7% & Rabi 6%), Karnataka (Kharif 7% & Rabi 7%), Kerala (Summer 17%), Madhya Pradesh (Kharif 7% & Rabi 6%), Maharashtra (Kharif 18% & Rabi 20%), Rajasthan (Kharif 10% & Rabi 6%), Uttar Pradesh (Kharif 11%, Rabi 11% & Summer 8%), and Puducherry (Kharif 3%).

**8.1.8** The impact of errors in recording crops and crop areas on the estimates of area was studied for some major crops by calculating the ratio of area under crop in the sample clusters "as reported" by primary worker to area "as observed" by supervisors during the sample check. It can be observed from **Annex-IV (b)**, which presents this ratio that for most of the crops in various States, the impact of recording errors was not pronounced. One of the reasons for this may be the mutual cancellation of over and under reporting of areas under the crops, thus reducing the over-all impact. However, the cases of under-reporting of crop areas by the primary workers were observed to be high in respect of Haryana (Bajra, Sugarcane), Maharashtra (Jowar Kharif, Cotton & Groundnut), Tamil Nadu (Paddy Summer & Jowar Rabi) and Uttar Pradesh (Gram).

## VI - Discrepancies in recording Irrigation particulars

**8.1.9 Annex-IV(c)** reveals that there had been specific instances where the irrigation particulars recorded by the patwari differed considerably from that of the supervisor. During 2019-20, it was observed at all India level for all seasons taken together there had been a match of information regarding irrigation particulars as reported by patwari and that observed during sample check programmes in 84% of the survey numbers and in just 14% of the survey numbers there is mismatch. This percentage of mismatch found to be more than 20% in States like Andhra Pradesh (Rabi 39%), Jharkhand (E.Kharif 50%,L.Kharif 62%), Karnataka (Rabi 31%), Maharashtra (Kharif 21% & Rabi 59%), Tamil Nadu (Phase II 27%), Telangana (Kharif 45% & Rabi 27%) and Uttar Pradesh (Summer 31%). The accuracy of crop inspection could not be measured in West Bengal due to non-availability of this information (as the same is not collected by the State primary workers). In case of Central Samples of Assam, Bihar (All Seasons), Gujarat (All Seasons) & Jharkhand (All Seasons) the observations in this respect could not either be incorporated as they are not reflecting the true picture because of low completion of area enumeration by the State primary workers.

## VII - Discrepancies in recording variety particulars of seed used

**8.1.10** Information on distribution of survey numbers as per the type of seed used is presented in **Annex-IV (d)**. There were almost 83% of the selected survey number where seed variety observed by technical personnel was in consonance with that of reported by the patwari at all India level for all seasons taken together, and there is difference in 17% of the selected survey numbers. The seed variety differed in more than 25% of the selected survey numbers in Andhra Pradesh (Rabi 39%), Karnataka (Rabi 30%), Maharashtra (Rabi 60%), Punjab (Kharif 38% & Rabi 39%) Tamil Nadu (Phase-I 29% & Phase-II 30%), Telangana (Kharif 45% & Rabi 27%) and Uttar Pradesh (Zaid Rabi 31%). This aspect requires adequate attention of the State Government for controlling the situation. In case of Assam, Bihar (All Seasons), Gujarat (All Seasons) & Jharkhand (All Seasons), the observations in this respect could not be incorporated as they are not reflecting the true picture because of low completion of area enumeration by the State primary workers.

## 8.2 Sample Check on Crop Cutting Experiments

### I – Response

**8.2.1** **Annex-VI** reflects the number of experiments planned and percentage response at harvest stage achieved under the sample checks on crop cutting experiments in each State during different seasons of 2019-20. **The response achieved in respect of all the States in Kharif season was above 80%** except in Assam (Early Kharif 41%), Bihar (Early Kharif 61%, Late Kharif 63%), Gujarat (Kharif 58%), Haryana (Kharif 66%), Himachal Pradesh (Kharif 76%), Jammu & Kashmir (Kharif 41% &), Karnataka (Kharif 67%), Madhya Pradesh (Kharif 79%), Maharashtra (Kharif 48%), Punjab (Kharif 76%), Rajasthan (Kharif 77%), Uttar Pradesh (Kharif 56%), Uttarakhand (Kharif 78%) and West Bengal (Early Kharif 49% & Late Kharif 54%) and below 80% in Rabi & Summer seasons for all the States except Puducherry due to Covid-19 Pandemic & other reasons. The overall response at all India level (Pooled) was of the order of 71% for Early Kharif, 70% for Late Kharif, 34% for Rabi and 48% for Summer during 2019-20 as against 58% for Early Kharif, 69% for Late Kharif, 71% for Rabi and 74% for Summer in corresponding seasons during 2018-19. The less than usual response for Central Sample vis-à-vis previous years for 2019-20 for Rabi & Summer at 25% and 40% respectively is due to cessation of field work for Central Sample on the instructions of NSSO, Hqrs. during Covid-19 outbreak.

### II – Distribution of number of experiments conducted by important inputs

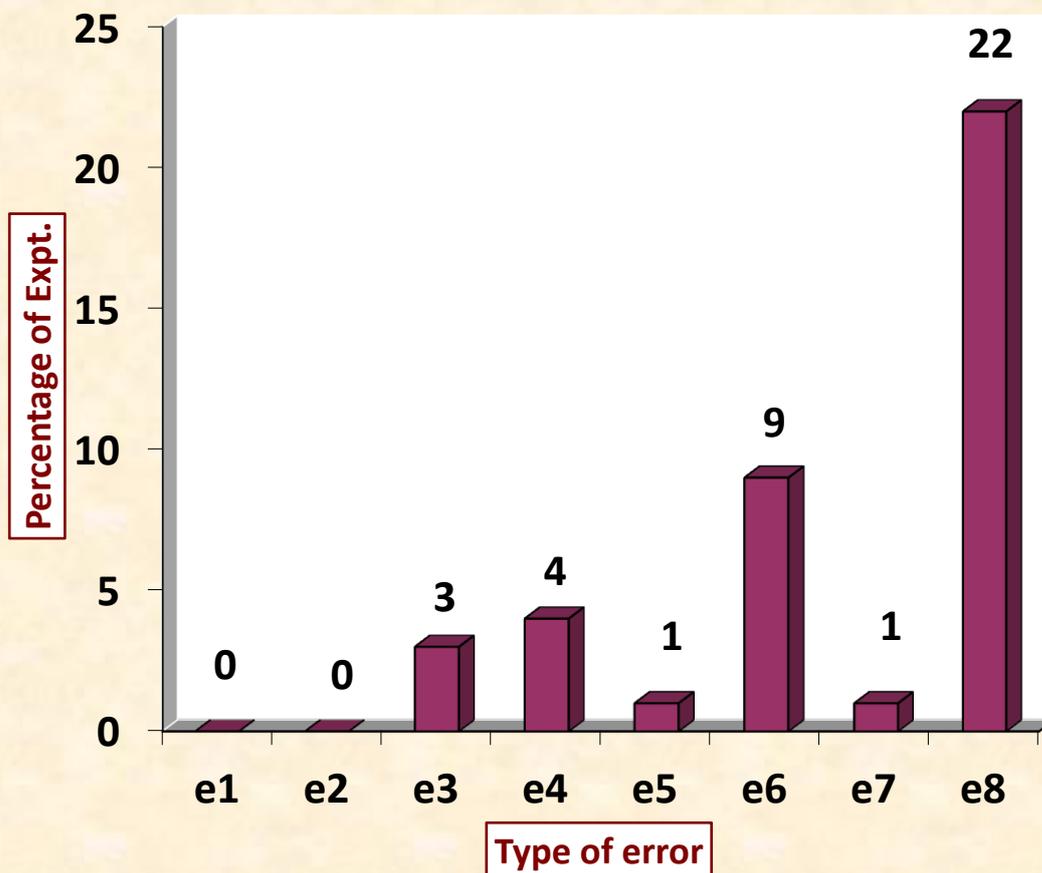
**8.2.2** **Annex-VII** gives details of the crop-wise percentage distribution of experiments according to important inputs viz. Irrigation, High Yielding Varieties of Seeds and Fertilizers applied.

### III - Departure from prescribed procedures

**8.2.3** The type of departure from the prescribed procedure during the conduct of crop cutting experiments and the percentage of cases where State primary workers were observed to be deviating from the procedure is summarized in **Annex-VIII**. The graphical representation of the incidence of errors in conducting crop cutting experiments is

presented in **Chart-III**. In all, 65% cases of the experiments (during Autumn, Winter, Rabi and Summer taken together) were conducted in accordance with the prescribed procedures during 2019-20. There is scope for further improvement. Therefore, it is necessary that these observations are taken with seriousness and strong administrative measures coupled with intensive training of the field staff may be taken to improve the quality of the data collected. It may be observed from the data presented that **e<sub>6</sub> error** i.e. reporting of ancillary particulars like irrigation, high yielding varieties of seed, fertilizer and manure used during 2019-20 was found in 9% experiments in all seasons taken together. In this regard, it is pertinent to note that correct information regarding ancillary data forms the basis for post stratification analysis and therefore, mistakes in their reporting needs to be checked properly.

**CHART –III**  
**INCIDENCE OF ERRORS IN CONDUCT OF CROP CUTTING EXPERIMENTS**  
**DURING 2019-20**



*e<sub>1</sub> = Error in selection of survey/sub survey numbers.*

*e<sub>2</sub> = Error in selection of field within survey/sub survey numbers.*

*e<sub>3</sub> = Error in measurement of field.*

*e<sub>4</sub> = Error in selection of random numbers, location & marking of plots.*

*e<sub>5</sub> = Error in weighing of produce.*

*e<sub>6</sub> = Error in reporting ancillary information.*

*e<sub>7</sub> = Inadequate arrangement for storing of produce for drriage and incorrect reporting of constituents in crop mixtures.*

*e<sub>8</sub> = Others (Comparison not possible between Supervisor & Primary Worker entries)*

#### IV - Supply and Use of Equipment

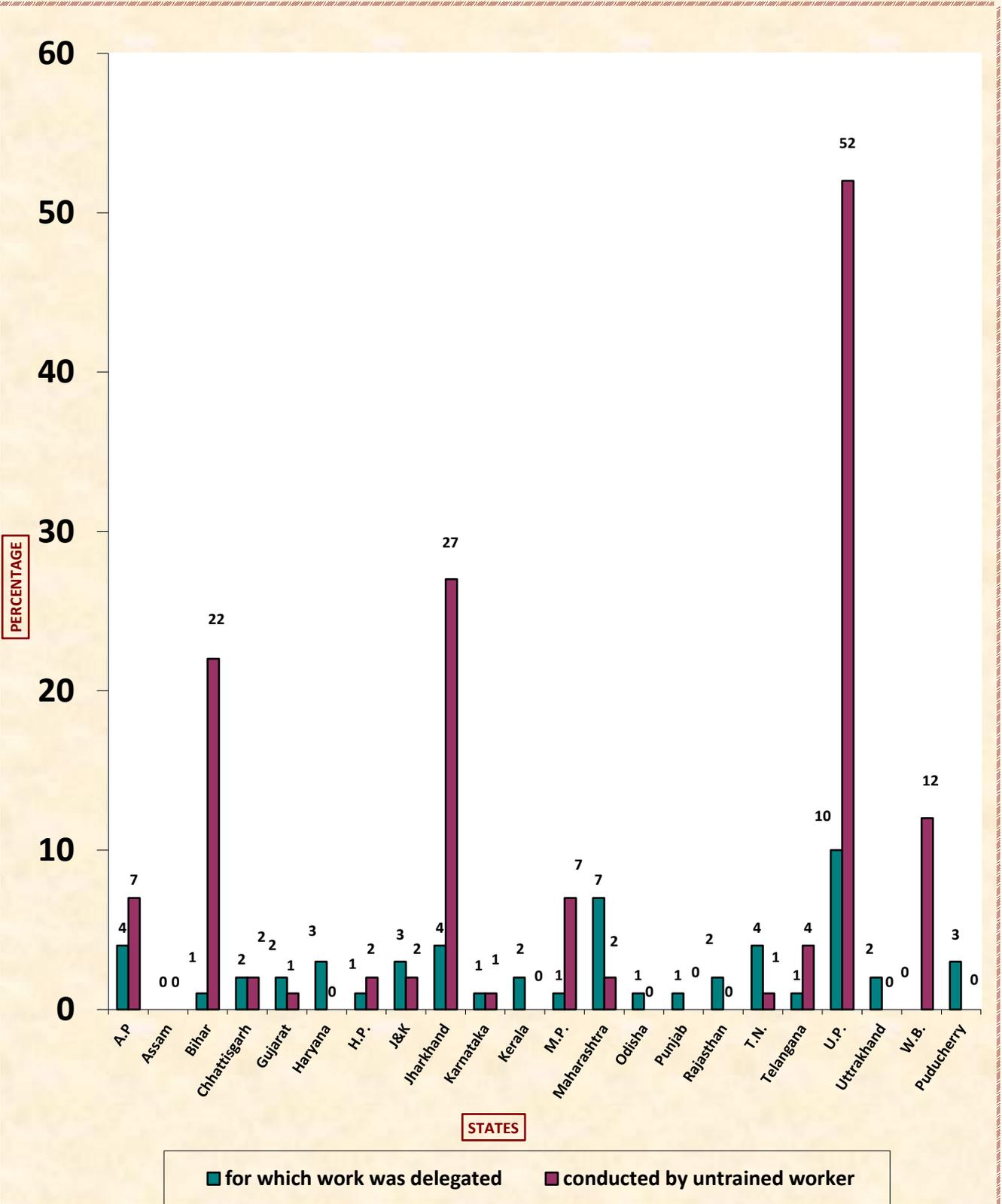
**8.2.4** While an untrained or negligent worker cannot conduct the experiments properly, accuracy in their conduct also requires supply of essential equipment and their proper use. Information on these two latter aspects, collected during the sample checks of 2019-20, is presented in **Annex-IX**. It was found that the primary workers were supplied with essential items of equipment such as Tapes, Pegs, Balances and set of Weights in as many as 76%, 35%, 65% and 76% supervised experiments respectively during 2019-20 and not supplied with essential equipment in 24%, 65%, 35% and 24% of experiments during 2019-20 as against 26%, 67%, 39% and 30% during 2018-19.

It was found that the primary workers were not using the supplied items such as Tapes, Pegs, Balances and set of Weights in as many as 14%, 8%, 14%, 12% during 2019-20 as against 17%, 8%, 17%, 14% during 2018-19 for the conduct of crop cutting experiments at all India level and to a large extent in most of the States. This also calls for strong administrative measures for bringing about improvement in the situation since the use of non-standardized equipment brings in an element of subjectivity in the process of conducting the experiments.

#### V - Delegation of Work by Primary Workers

**8.2.5** The fieldwork of General Crop Estimation Survey is entrusted to the officials of the State governments who are normally one rank higher than the primary workers for area enumeration. Cases of delegation of crop cutting work, particularly to the officials of junior & senior rank, were observed in several States as shown in **Annex-X and Chart - IV**. Delegation of work was observed for all the seasons taken together in Andhra Pradesh 4%, Bihar 1%, Chhattisgarh 2%, Gujarat 2%, Haryana 3%, Himachal Pradesh 1%, Jammu & Kashmir 3%, Jharkhand 4%, Kerala 2%, Madhya Pradesh 1%, Maharashtra 7%, Punjab 1%, Rajasthan 2%, Tamil Nadu 4%, Telangana 1%, Uttar Pradesh 10%, Uttrakhand 2% and 3% in Puducherry during 2019-20. The percentage of experiments conducted by workers for all the seasons taken together without proper training was 7% in Andhra Pradesh, 22% in Bihar, 2% in Chattisgarh, 1% in Gujarat, 2% in Himachal Pradesh, 2% in Jammu & Kashmir, 27% in Jharkhand, 7% in Madhya Pradesh, 2% in Maharashtra, 1% in Tamil Nadu, 4% in Telangana, 52% in Uttar Pradesh and 12% in West Bengal during 2019-20. Although these small percentages do not speak for themselves, the damage done to the quality of fieldwork is substantial. Proper arrangements are needed in this regard for ensuring training of the field worker entrusted with CES work especially for those who are joining these ranks after the regular training camps are over, or those entrusted with these duties as a stop gap arrangement.

**CHART-IV**  
**DELEGATION OF WORK BY PRIMARY WORKER FOR THE YEAR 2019-20**

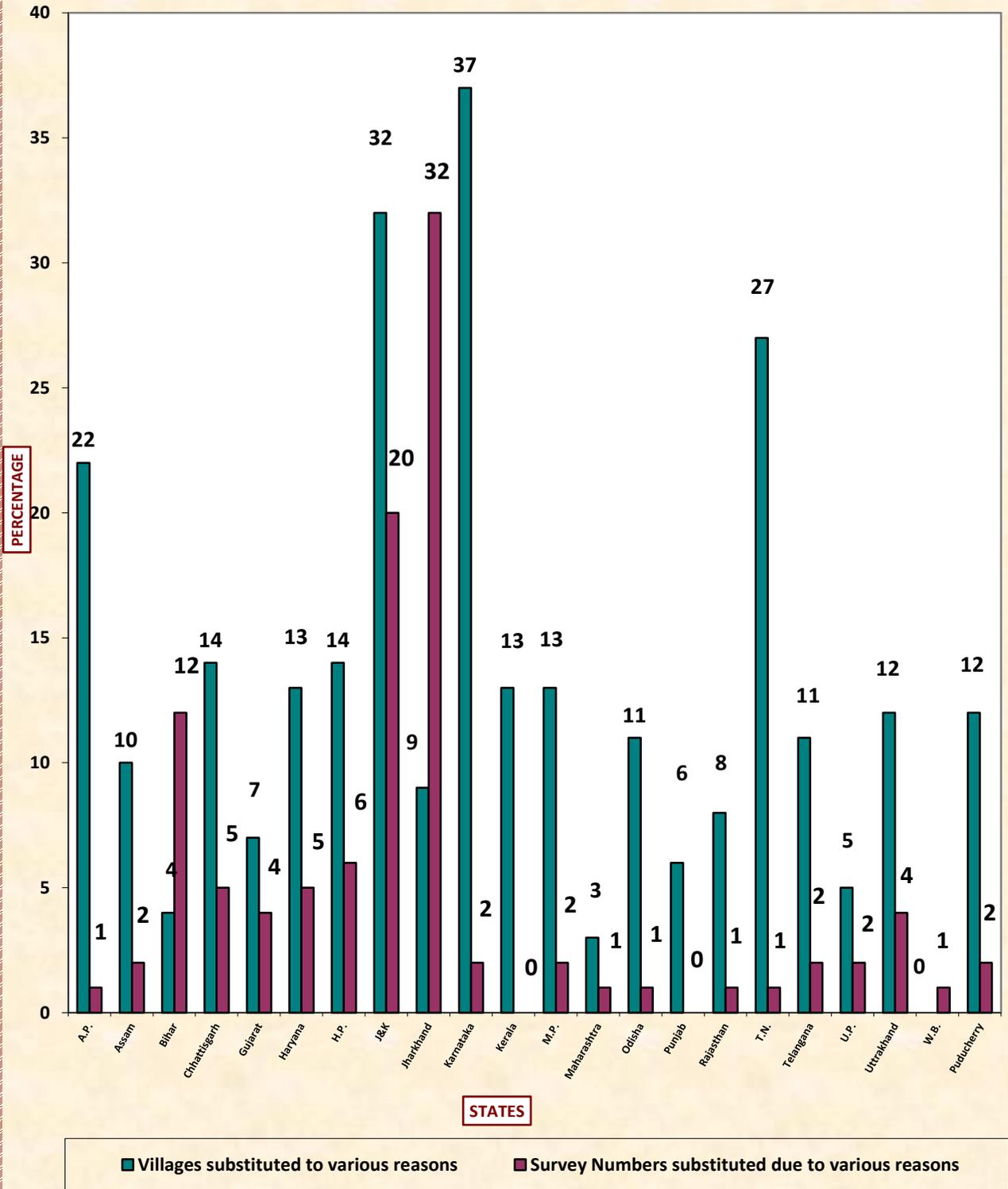


## VI - Substitution of sampling units

**8.2.6** Instructions for the conduct of GCES prohibit substitution of sampling units once selected, particularly at village level, except in case of inappropriate selection leading to units not growing the experimental crop at all or where the selected fields cannot accommodate the experimental plot of specified size or percentage of experimental crop is less than the prescribed one by the State Government for GCES. The percentage of such substitutions is presented in **Annex-XI and Chart V**. Such instances relating to substitution of villages were 10% or more at least in one season due to various reasons in respect of all the States except Bihar, Gujarat, Maharashtra, Punjab, Rajasthan, Telangana, Uttar Pradesh and West Bengal during 2019-20. The prominent reason for substitution of sampling units is unavailability of updated/quality GCES data that forms basis for selection of villages for CCEs under GCES and sample supervision under ICS Scheme. In some of the cases, the fields were substituted either because the crop was harvested prior to selection of field or crop was harvested before the date fixed for the experiment. Hence, updated GCES planning, better and regular liaison between the primary workers and the cultivators to ascertain the changes in the cultivator's programme of harvesting etc. would go a long way in controlling such high incidence of substitution.

**8.2.7** Further, it has been observed in the field that the substitution of originally selected village due to non-availability of experimental crop i.e. "crop not sown" was of the order of 10%, 11%, 11% and 10% during Early Kharif, Late Kharif, Rabi and Summer during 2019-20 respectively. It varied around 22% of the experiments conducted in Andhra Pradesh, 5% to 14% in Assam, 0% to 9% in Bihar, 11% to 35% in Chhattisgarh, 5% in Gujarat, 11% to 13% in Haryana, 12% to 22% in Himachal Pradesh, 2% to 14% in Jharkhand, 29% to 40% in Karnataka, 2% to 29% in Kerala, 8% to 13% in Madhya Pradesh, 2% to 4% in Maharashtra, 6% to 17% in Odisha, 5% in Rajasthan, 20% to 31% in Tamil Nadu, 3% in Telangana, 1% to 4% in Uttar Pradesh, 4% to 12% in Uttarakhand and 10% to 50% in Puducherry in various seasons of 2019-20. There is a need to look into this aspect in all the States which are showing this trend and take corrective action, more specifically updated & qualitative GCES planning.

**CHART- V**  
**SUBSTITUTION OF SAMPLING UNITS IN THE YEAR 2019-20**



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## 9



## ESTIMATION OF AREA AND AVERAGE YIELD RATES

### 9.1 Estimation of Area

**9.1.1** Annex-XII gives State-wise Area Estimates (1.0) based on Patwari's entries (A-III) and Supervisors' observation of crop area in sample village (A-IV) under each major crop. State wise estimates of crop area aggregation (1.1) are not being worked out due to suspension of work of area aggregation check for Central sample with effect from 2008-09. However, the estimates under A-III and A-IV have been compared with the corresponding (latest released) final estimates of area issued by the Ministry of Agriculture & Farmer's Welfare and the TRS estimates. The ICS analysis enables observing the deviation in estimates of area under crops based on crop area reported by Supervisors and the primary workers in the sampled survey numbers. The ratio of estimates of crop area at all India level based on supervisory check under ICS (A-IV) and the entries of State primary workers (A-III) in the corresponding sampling units of ICS are given in Table below:

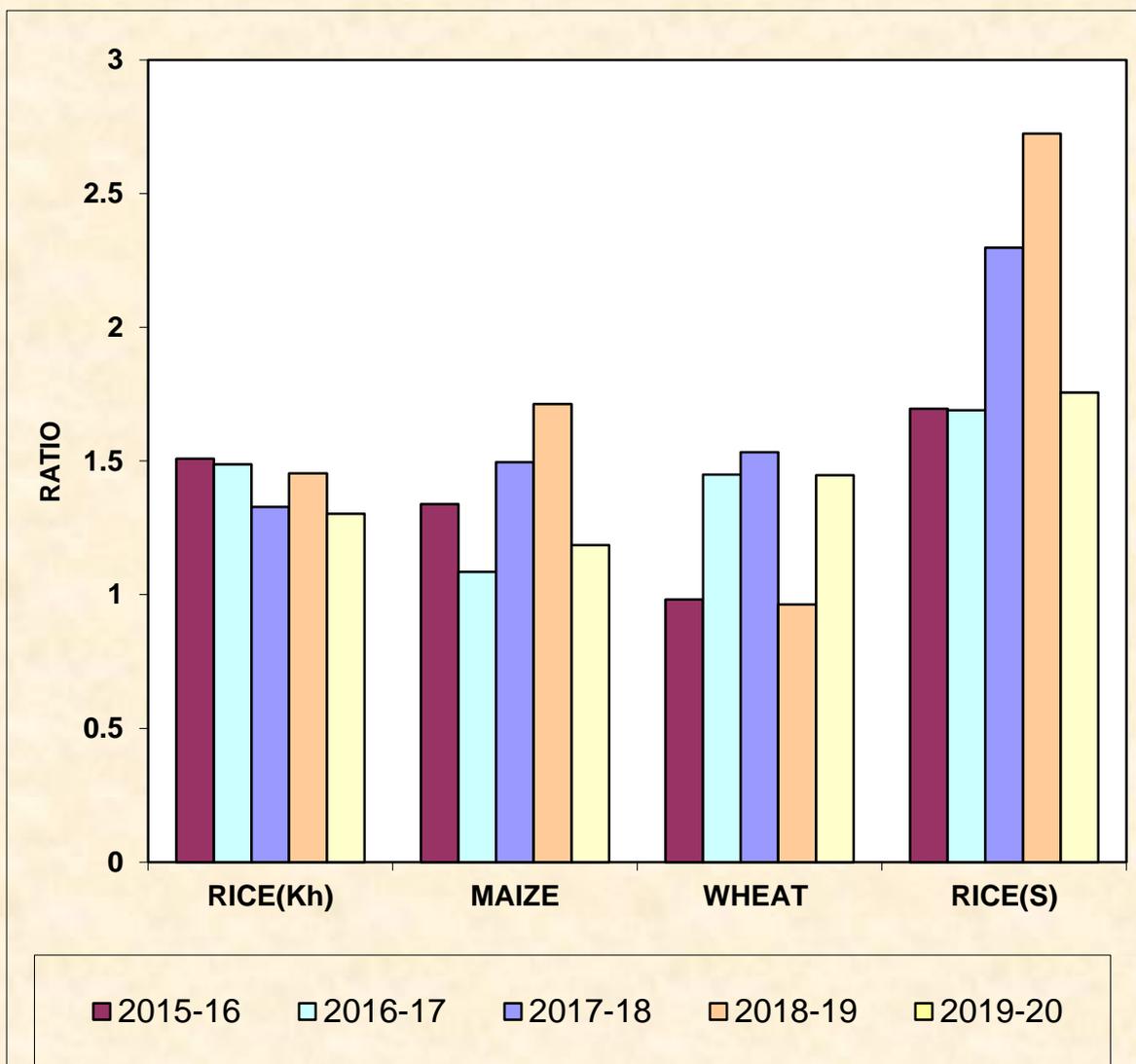
**Table - 8**  
**Ratio of Area Estimates (A-IV/A-III)**

| S. NO. | CROP       | 2019-20 | 2018-19 | 2017-18 | 2016-17 | 2015-16 |
|--------|------------|---------|---------|---------|---------|---------|
| 1      | Rice (Kh)  | 1.3029  | 1.4539  | 1.3279  | 1.4875  | 1.5081  |
| 2      | Rice (Sum) | 1.7568  | 2.7242  | 2.2977  | 1.6896  | 1.6954  |
| 3      | Jowar (Kh) | 0.6901  | 0.9551  | 1.2485  | 1.3339  | 0.7962  |
| 4      | Jowar (R)  | 1.7739  | 1.9360  | 2.4622  | 2.4125  | 1.8301  |
| 5      | Bajra      | 1.0676  | 2.0017  | 1.3868  | 1.3113  | 1.2625  |
| 6      | Maize      | 1.1854  | 1.7130  | 1.4962  | 1.0853  | 1.3399  |
| 7      | Ragi       | 1.0155  | 0.9630  | 1.0721  | 1.1000  | 1.0242  |
| 8      | Cotton     | 1.6969  | 1.4602  | 1.7712  | 1.7315  | 1.7311  |
| 9      | Groundnut  | 1.8744  | 1.6185  | 2.3101  | 1.9809  | 1.6884  |
| 10     | Sugarcane  | 1.3096  | 2.0148  | 1.8223  | 1.2769  | 1.6054  |
| 11     | Wheat      | 1.4470  | 0.9638  | 1.5335  | 1.4493  | 0.9816  |
| 12     | Barley     | 1.0394  | 1.0789  | 1.0556  | 1.1146  | 0.9773  |
| 13     | Gram       | 1.4974  | 1.1721  | 1.3831  | 1.3367  | 1.2419  |
| 14     | R & M      | 1.1880  | 1.2819  | 1.6108  | 1.4193  | 1.3864  |

*Note: - A-III denotes estimates of area based on Patwari's entries  
A-IV denotes estimates of area based on supervisor's entries*

**9.1.2** The findings given bring to focus a trend of under reporting of area by the State primary worker for all major crops covered in the analysis during 2019-20. Therefore, the trend of under estimation of area under these crops requires serious consideration by the State and Central Government authorities for taking suitable remedial measures. Rice and Wheat account for more than sixty percent of the total cropped area under food grains and around three fourth of total food grains production in the country. A graphical presentation of the trend in terms of these ratios for the past five years starting from 2015-16 can be seen in **Chart-VI** for Rice (Kharif & Summer), Wheat and Maize. Table-8 clearly shows wide variation between supervisors reporting of area and the area recorded by primary workers which also indicates under-reporting of area figures from primary workers. The concerned State government should take suitable remedial measures for narrowing this gap.

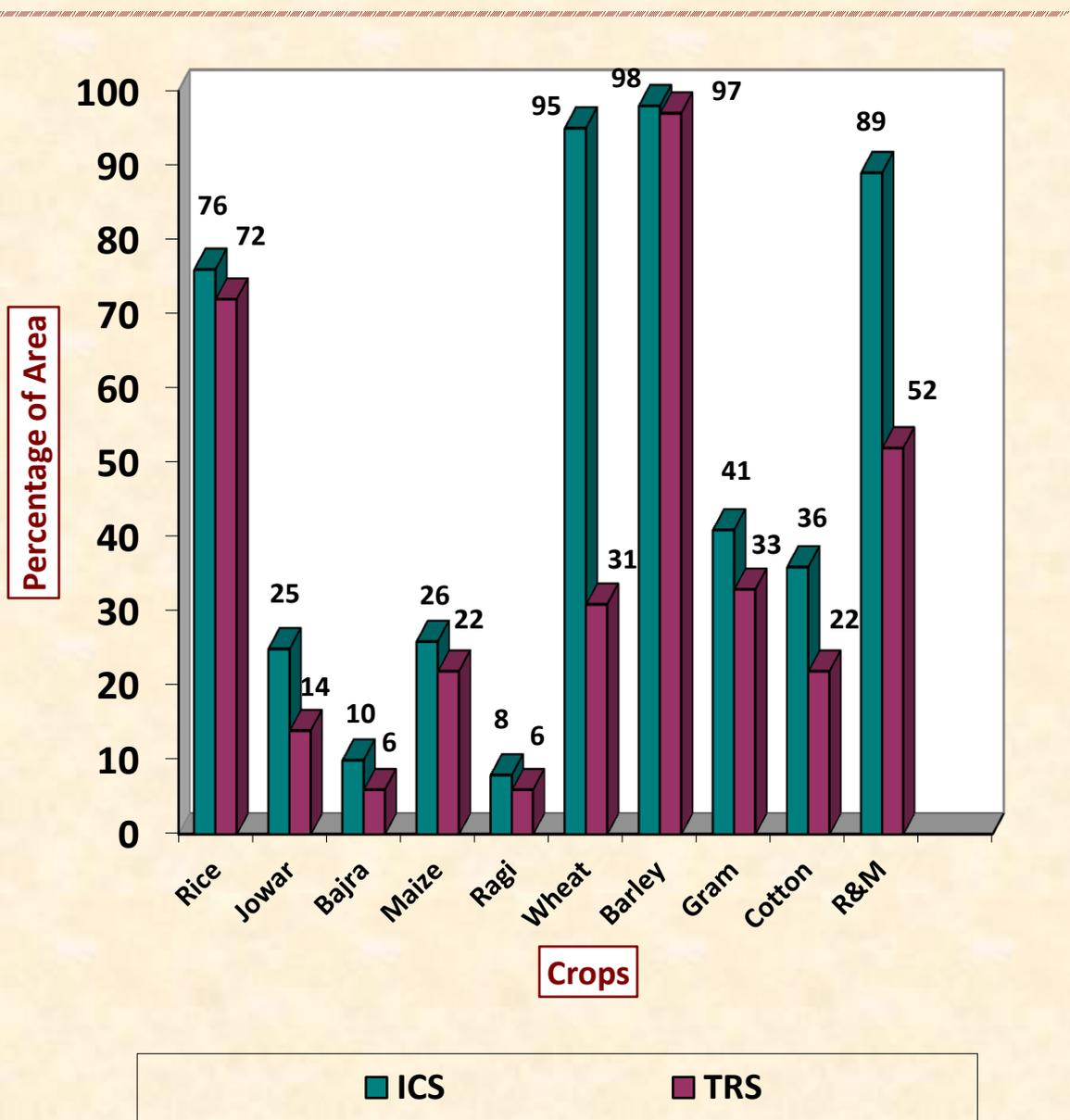
**CHART-VI**  
**RATIO OF AREA ESTIMATES (A-IV/A-III)**



**Note:** A-III & A-IV denote estimated Area based on Patwari's and Supervisor's entries respectively

**9.1.3** The percentage of area under various categories according to input factors viz. irrigation and high yielding variety of seeds for different crops as estimated from ICS data has been presented in **Annex-XIII** and corresponding graphical presentation of Irrigation in **Chart-VII**. The TRS estimates according to seed variety could not be compared due to non-availability of the relevant data for most of the States. On comparison of the ICS and TRS estimates of area according to irrigation, it is observed that the difference between these two estimates varies from crop to crop and State to State.

**CHART-VII**  
**PERCENTAGE OF IRRIGATED AREA UNDER ICS & TRS DURING 2019-20**



## 9.2. Estimation of Yield Rates

**9.2.1** Estimates of yield rates for important crops based on sample check on crop cutting experiments along with the percentage of standard errors and the corresponding CES estimates are presented in **Annex-XIV**. The percentage standard error at all India level for ICS estimates for 14 important crops varies from 1.2% (Wheat in Punjab) to 29.2% (Gram in Jharkhand) for the year 2019-20. Ratio of estimates of yield rates under ICS and CES at all India level are given in **Table-9** for last five years since 2015-16. The yield rates under ICS Scheme are higher as compared to CES estimates in case of Sugarcane (Kharif), Barley and Gram and lower in the case of Rice (Kharif & Summer), Jowar (Kharif & Rabi), Wheat, Bajra, Maize, Ragi, Cotton and Groundnut crops during 2019-20.

**9.2.2** Moreover, for a comparative study, the trend of yield rates of the crops such as Rice (Kharif), Rice (Summer), Maize, Gram and Wheat at all India level under ICS and CES for the last available five years (2015-16 to 2019-20) are also presented in **Chart-VIII (a), (b), (c), (d) & (e)**.

**9.2.3** The average yield rates of some important crops for different categories of input factors viz., Irrigated & Un-irrigated and High Yielding & Local variety of seeds have been calculated using the number of experiments falling under each category as weights and presented in **Annex-XV**. Similar data in respect of fields treated with Fertilizers & Manure have been calculated and presented in **Annex-XVI**.

**Table - 9**  
**Ratio of Yield Estimates (ICS/CES)**

| Sl. No | Crop       | 2019-20 | 2018-19 | 2017-18 | 2016-17 | 2015-16 |
|--------|------------|---------|---------|---------|---------|---------|
| (1)    | (2)        | (3)     | (4)     | (5)     | (6)     | (7)     |
| 1      | Rice (Kh)  | 0.7747  | 1.0585  | 0.9252  | 1.0804  | 0.8492  |
| 2      | Rice (S)   | 0.6141  | 0.6753  | 0.9323  | 0.9177  | 1.1697  |
| 3      | Jowar (Kh) | 0.8993  | 1.1864  | 1.1801  | 0.7841  | 0.7210  |
| 4      | Jowar (R)  | 0.9833  | 0.9284  | 1.1759  | 1.3944  | 0.7564  |
| 5      | Bajra      | 0.8592  | 0.9430  | 0.8024  | 1.0280  | 0.8637  |
| 6      | Maize      | 0.6979  | 0.8814  | 1.1754  | 0.8680  | 1.0095  |
| 7      | Ragi       | 0.8957  | 0.7318  | 1.2466  | 0.2057  | 0.9078  |
| 8      | Cotton     | 0.5119  | 0.4969  | 0.7148  | 0.6441  | 0.9038  |
| 9      | Groundnut  | 0.8295  | 0.5975  | 1.5874  | 0.5247  | 0.9631  |
| 10     | Sugarcane  | 1.0233  | 0.7263  | 1.1046  | 0.9027  | 1.0086  |
| 11     | Wheat      | 0.8163  | 1.0039  | 0.9855  | 1.0901  | 1.1126  |
| 12     | Barley     | 1.0167  | 1.0258  | 0.8393  | 0.9010  | 0.7443  |
| 13     | Gram       | 1.1076  | 0.8369  | 1.0189  | 1.0632  | 0.8059  |
| 14     | R & M      | 0.9137  | 1.0645  | 1.1124  | 1.1681  | 0.9930  |

**Note :-** (1) CES data pertains to year 2019-20 in column 3.

(2) CES data pertains to year 2017-18 in column 4.

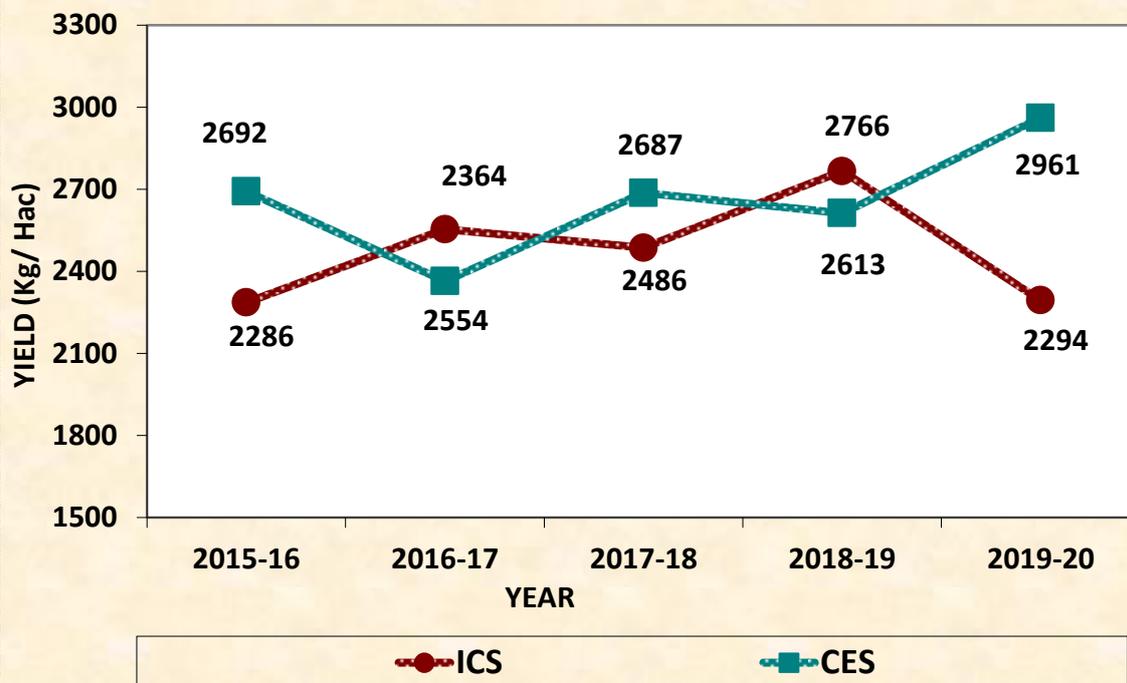
(3) CES data pertains to year 2016-17 in column 5.

(4) CES data pertains to year 2015-16 in column 6.

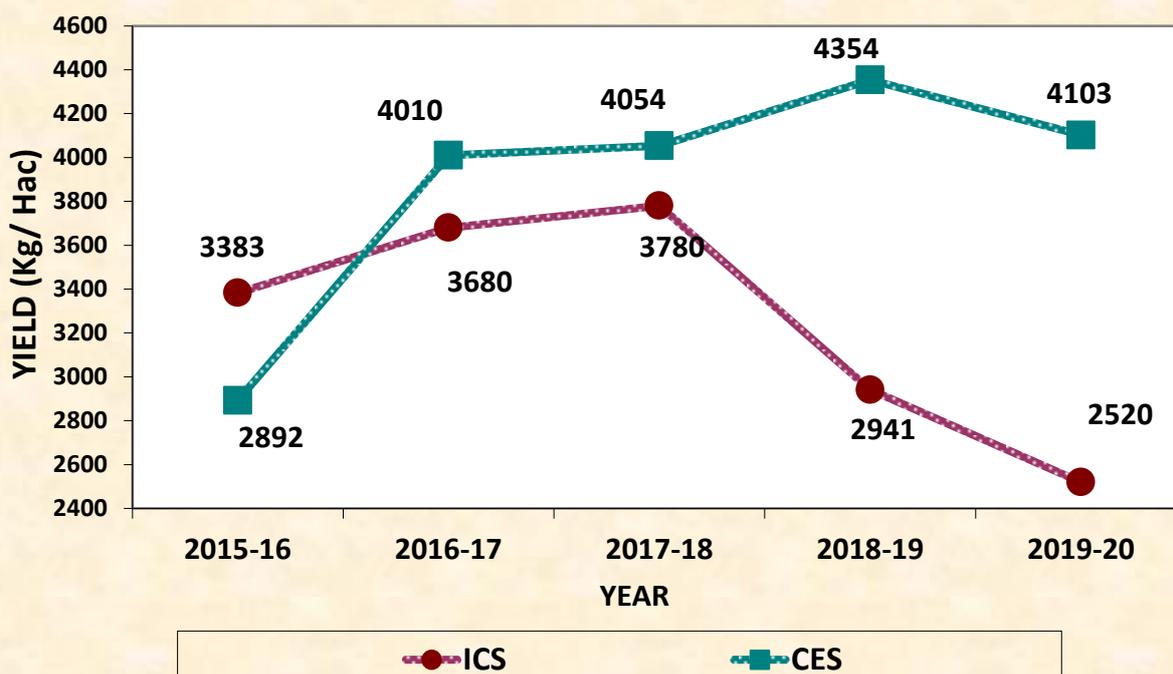
(5) CES data pertains to year 2013-14 in column 7.

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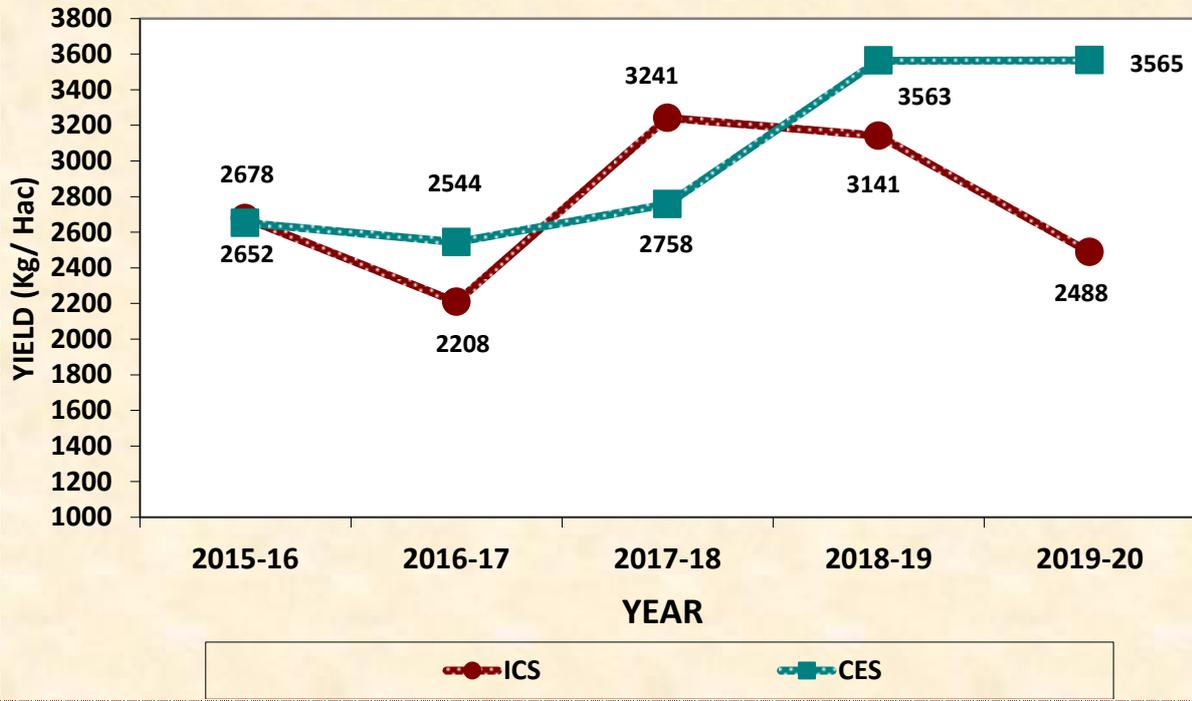
**Chart - VIII (a)**  
Trend of yield rates under ICS & CES  
Rice Kharif



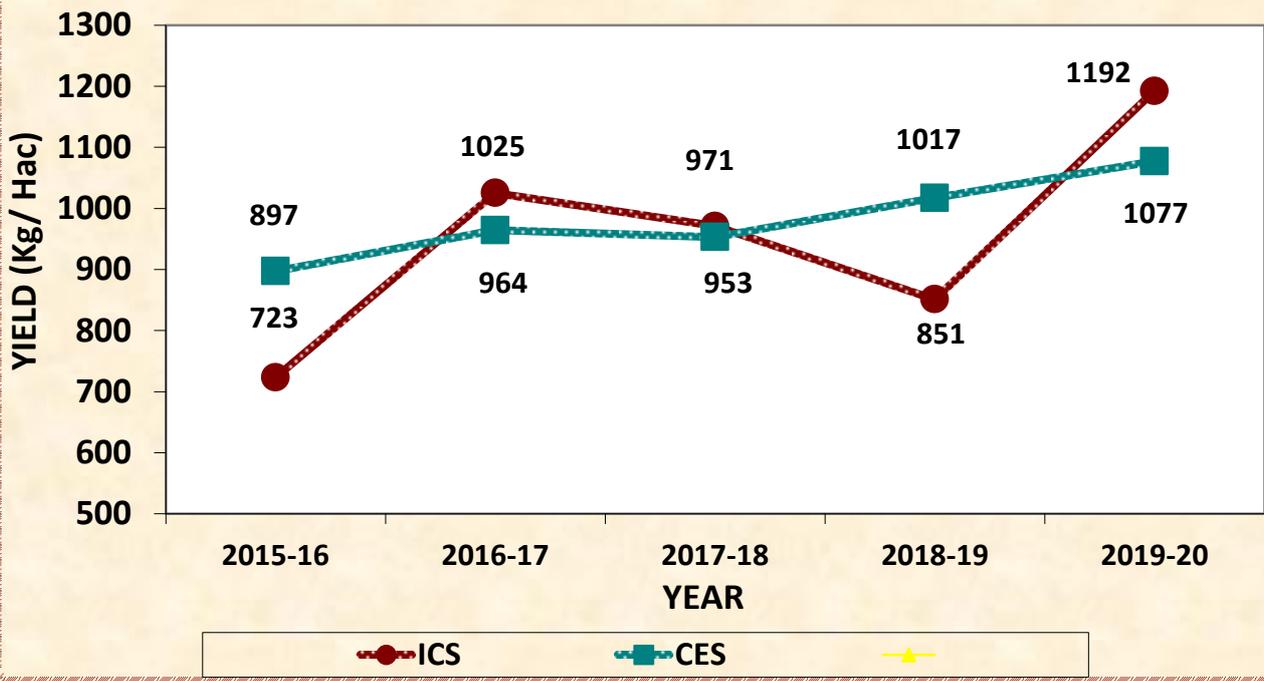
**Chart - VIII (b)**  
Trend of yield rates under ICS & CES  
Rice Summer



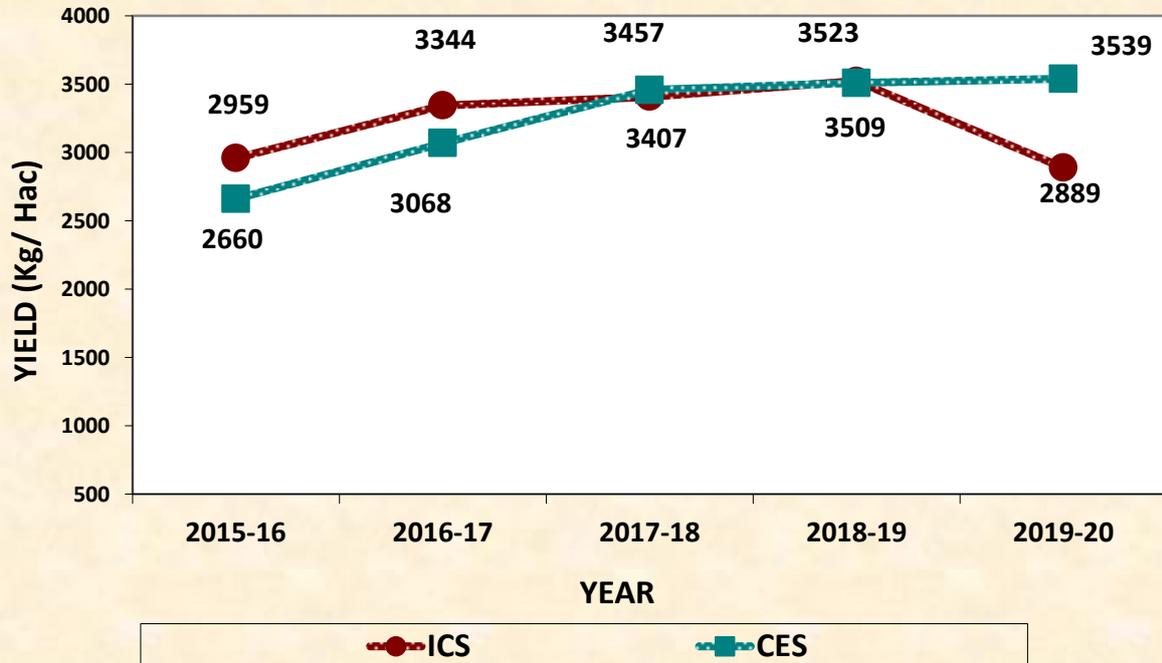
**Chart-VIII(c)**  
Trend of yield rates under ICS & CES  
Maize



**Chart - VIII (d)**  
Trend of yield rates under ICS & CES  
Gram



**Chart - VIII (d)**  
**Trend of Yield rate under ICS & CES**  
**Wheat**



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# **PART-II**

# **(ANNEXURES)**



**RESPONSE IN SAMPLE CHECK ON AREA ENUMERATION  
DURING 2019-20**

| Sl. No. | State            | A<br>G<br>E<br>N<br>C<br>Y | Sample Size | Percentage Response |             |      |        |
|---------|------------------|----------------------------|-------------|---------------------|-------------|------|--------|
|         |                  |                            |             | Kharif              |             | Rabi |        |
|         |                  |                            |             | Early Kharif        | Late Kharif | Rabi | Summer |
| 1       | 2                | 3                          | 4           | 5                   | 6           | 7    | 8      |
| 1       | Andhra Pradesh   | C                          | 220         |                     | 100         | 100  |        |
|         |                  | S                          | 350         |                     | 100         | 100  |        |
|         |                  | P                          | 570         |                     | 100         | 100  |        |
| 2       | Assam            | C                          | 160         | 100                 | 100         | 100  | 100    |
|         |                  | S                          | 160         | 54                  | 51          | 59   | 44     |
|         |                  | P                          | 320         | 77                  | 75          | 80   | 72     |
| 3       | Bihar            | C                          | 240         | 100                 | 99          | 98   | 56     |
|         |                  | S                          | 240         | 56                  | 52          | 90   | 79     |
|         |                  | P                          | 480         | 78                  | 76          | 94   | 68     |
| 4       | Chhattisgarh     | C                          | 100         |                     | 100         | 100  |        |
|         |                  | S                          | 100         |                     | 100         | 100  |        |
|         |                  | P                          | 200         |                     | 100         | 100  |        |
| 5       | Gujarat          | C                          | 340         |                     | 100         | 96   | 0      |
|         |                  | S                          | 340         |                     | 69          | 91   | 37     |
|         |                  | P                          | 680         |                     | 85          | 94   | 18     |
| 6       | Haryana @        | C                          | 200         |                     | 100         | 100  | 100    |
|         |                  | S                          | 200         |                     | 83          | 78   |        |
|         |                  | P                          | 400         |                     | 91          | 89   | 100    |
| 7       | Himachal Pradesh | C                          | 140         |                     | 100         | 100  |        |
|         |                  | S                          | 140         |                     | 95          | 36   |        |
|         |                  | P                          | 280         |                     | 98          | 68   |        |
| 8       | Jammu & Kashmir  | C                          | 100         |                     | 65          | 100  |        |
|         |                  | S                          | 140         |                     | 81          | 100  |        |
|         |                  | P                          | 240         |                     | 75          | 100  |        |
| 9       | Jharkhand        | C                          | 60          | 100                 | 100         | 100  | 100    |
|         |                  | S                          | 60          | 72                  | 90          | 68   | 70     |
|         |                  | P                          | 120         | 86                  | 95          | 84   | 85     |
| 10      | Karnataka        | C                          | 300         |                     | 100         | 100  | 100    |
|         |                  | S                          | 300         |                     | 100         | 100  | 100    |
|         |                  | P                          | 600         |                     | 100         | 100  | 100    |
| 11      | Kerala           | C                          | 80          | 100                 | 100         |      | 100    |
|         |                  | S                          | 80          | 100                 | 100         |      | 100    |
|         |                  | P                          | 160         | 100                 | 100         |      | 100    |
| 12      | Madhya Pradesh   | C                          | 360         |                     | 100         | 100  |        |
|         |                  | S                          | 360         |                     | 83          | 75   |        |
|         |                  | P                          | 720         |                     | 91          | 88   |        |
| 13      | Maharashtra      | C                          | 440         |                     | 100         | 100  | 100    |
|         |                  | S                          | 440         |                     | 84          | 75   | 69     |
|         |                  | P                          | 880         |                     | 92          | 87   | 85     |
| 14      | Odisha           | C                          | 220         | 100                 | 99          |      | 100    |
|         |                  | S                          | 220         | 100                 | 100         |      | 96     |
|         |                  | P                          | 440         | 100                 | 100         |      | 98     |
| 15      | Punjab           | C                          | 200         |                     | 100         | 100  |        |
|         |                  | S                          | 200         |                     | 70          | 0    |        |
|         |                  | P                          | 400         |                     | 85          | 50   |        |
| 16      | Rajasthan        | C                          | 300         |                     | 99          | 100  |        |
|         |                  | S                          | 300         |                     | 96          | 95   |        |
|         |                  | P                          | 600         |                     | 97          | 97   |        |

| Sl. No.            | State           | A<br>G<br>E<br>N<br>C<br>Y | Sample Size | Percentage Response |             |      |        |
|--------------------|-----------------|----------------------------|-------------|---------------------|-------------|------|--------|
|                    |                 |                            |             | Kharif              |             | Rabi |        |
|                    |                 |                            |             | Early Kharif        | Late Kharif | Rabi | Summer |
| 1                  | 2               | 3                          | 4           | 5                   | 6           | 7    | 8      |
| 17                 | Tamil Nadu<br>§ | C                          | 260         | 100                 | 100         | 100  |        |
|                    |                 | S                          | 260         | 99                  | 98          | 96   |        |
|                    |                 | P                          | 520         | 100                 | 99          | 98   |        |
| 18                 | Telangana       | C                          | 160         |                     | 100         | 100  |        |
|                    |                 | S                          | 250         |                     | 91          | 89   |        |
|                    |                 | P                          | 410         |                     | 94          | 93   |        |
| 19                 | Uttar Pradesh   | C                          | 690         |                     | 100         | 100  | 99     |
|                    |                 | S                          | 690         |                     | 33          | 27   | 11     |
|                    |                 | P                          | 1380        |                     | 66          | 63   | 55     |
| 20                 | Uttarakhand     | C                          | 110         |                     | 100         | 100  | 100    |
|                    |                 | S                          | 110         |                     | 95          | 95   | 100    |
|                    |                 | P                          | 220         |                     | 97          | 97   | 100    |
| 21                 | West Bengal     | C                          | 250         | 100                 | 100         | 100  | 100    |
|                    |                 | S                          | 400         | 17                  | 17          | 11   | 2      |
|                    |                 | P                          | 650         | 49                  | 49          | 45   | 40     |
| 22                 | Puducherry      | C                          | 9           |                     | 100         | 100  | 100    |
|                    |                 | S                          | 9           |                     | 100         | 100  | 100    |
|                    |                 | P                          | 18          |                     | 100         | 100  | 100    |
| For States Covered |                 | C                          | 4939        | 100                 | 99          | 100  | 85     |
|                    |                 | S                          | 5349        | 68                  | 77          | 68   | 49     |
|                    |                 | P                          | 10288       | 83                  | 88          | 83   | 67     |

## Note:

1. @- The Field work was not carried out for State sample during Summer season.
2. §- For Tamil Nadu: Autumn , Winter and Rabi indicate I, II & III phases respectively.

## TIMELINESS IN COMPLETION OF GIRDAWARI DURING 2019-20

| Sl. No. | State            | A<br>G<br>E<br>N<br>C<br>Y | Percentage of villages where Girdawari was completed during |      |                                       |             |      |                                       |         |      |                                       |         |      |                                       |
|---------|------------------|----------------------------|---|------|---------------------------------------|-------------|------|---------------------------------------|---------|------|---------------------------------------|---------|------|---------------------------------------|
|         |                  |                            | Early Kharif  |      |                                       | Late Kharif |      |                                       | Rabi    |      |                                       | Summer  |      |                                       |
|         |                  |                            | In time   | Late | Not completed till Sample check visit | In time     | Late | Not completed till Sample check visit | In time | Late | Not completed till Sample check visit | In time | Late | Not completed till Sample check visit |
| 1       | 2                | 3                          | 4   | 5    | 6                                     | 7           | 8    | 9                                     | 10      | 11   | 12                                    | 13      | 14   | 15                                    |
| 1       | Andhra           | C                          |   |      |                                       | 0           | 0    | 100                                   | 0       | 0    | 100                                   |         |      |                                       |
|         | Pradesh          | S                          |   |      |                                       | 30          | 40   | 29                                    | 68      | 13   | 19                                    |         |      |                                       |
|         |                  | P                          |   |      |                                       | 18          | 25   | 57                                    | 42      | 8    | 50                                    |         |      |                                       |
| 2       | Assam            | C                          | 0   | 0    | 100                                   | 0           | 0    | 100                                   | 0       | 0    | 100                                   | 0       | 0    | 100                                   |
|         |                  | S                          | 0   | 0    | 99                                    | 0           | 0    | 100                                   | 0       | 0    | 100                                   | 0       | 0    | 100                                   |
|         |                  | P                          | 0   | 0    | 100                                   | 0           | 0    | 100                                   | 0       | 0    | 100                                   | 0       | 0    | 100                                   |
| 3       | Bihar            | C                          | 0   | 0    | 98                                    | 0           | 0    | 99                                    | 0       | 0    | 100                                   | 0       | 2    | 98                                    |
|         |                  | S                          | 3   | 23   | 64                                    | 4           | 5    | 77                                    | 4       | 14   | 79                                    | 5       | 34   | 61                                    |
|         |                  | P                          | 1   | 11   | 83                                    | 2           | 3    | 88                                    | 2       | 7    | 90                                    | 4       | 25   | 71                                    |
| 4       | Chhattisgarh     | C                          |   |      |                                       | 96          | 2    | 1                                     | 68      | 18   | 13                                    |         |      |                                       |
|         |                  | S                          |   |      |                                       | 94          | 1    | 0                                     | 77      | 23   | 0                                     |         |      |                                       |
|         |                  | P                          |   |      |                                       | 95          | 2    | 3                                     | 73      | 20   | 7                                     |         |      |                                       |
| 5       | Gujarat          | C                          |   |      |                                       | 0           | 0    | 100                                   | 0       | 0    | 99                                    | NC      | NC   | NC                                    |
|         |                  | S                          |   |      |                                       | 1           | 7    | 90                                    | 4       | 5    | 90                                    | 0       | 2    | 94                                    |
|         |                  | P                          |   |      |                                       | 0           | 3    | 95                                    | 2       | 2    | 95                                    | 0       | 0    | 18                                    |
| 6       | Haryana          | C                          |   |      |                                       | 99          | 1    | 1                                     | 58      | 41   | 2                                     | 33      | 0    | 67                                    |
|         | @                | S                          |   |      |                                       | 100         | 0    | 0                                     | 67      | 33   | 0                                     | 0       | 0    | 0                                     |
|         |                  | P                          |   |      |                                       | 99          | 1    | 0                                     | 62      | 37   | 1                                     | 33      | 0    | 67                                    |
| 7       | Himachal Pradesh | C                          |   |      |                                       | 97          | 2    | 1                                     | 99      | 1    | 0                                     |         |      |                                       |
|         |                  | S                          |   |      |                                       | 92          | 7    | 0                                     | 88      | 12   | 0                                     |         |      |                                       |
|         |                  | P                          |   |      |                                       | 94          | 4    | 0                                     | 95      | 5    | 0                                     |         |      |                                       |
| 8       | Jammu & Kashmir  | C                          |   |      |                                       | 55          | 40   | 3                                     | NC      | NC   | NC                                    |         |      |                                       |
|         |                  | S                          |   |      |                                       | 74          | 25   | 1                                     | 45      | 55   | 0                                     |         |      |                                       |
|         |                  | P                          |   |      |                                       | 67          | 31   | 2                                     | 45      | 55   | 0                                     |         |      |                                       |
| 9       | Jharkhand        | C                          | 0   | 0    | 100                                   | 0           | 0    | 93                                    | 0       | 0    | 100                                   | 0       | 0    | 100                                   |
|         |                  | S                          | 18  | 33   | 2                                     | 24          | 24   | 2                                     | 20      | 20   | 46                                    | 5       | 40   | 31                                    |
|         |                  | P                          | 8   | 14   | 58                                    | 10          | 10   | 56                                    | 8       | 8    | 78                                    | 2       | 17   | 72                                    |
| 10      | Karnataka        | C                          |   |      |                                       | 72          | 19   | 7                                     | 45      | 16   | 39                                    | NC      | NC   | NC                                    |
|         |                  | S                          |   |      |                                       | 56          | 41   | 0                                     | 46      | 44   | 0                                     | 61      | 34   | 0                                     |
|         |                  | P                          |   |      |                                       | 64          | 30   | 3                                     | 45      | 30   | 20                                    | 61      | 34   | 0                                     |
| 11      | Kerala           | C                          | 99  | 1    | 0                                     | 100         | 0    | 0                                     |         |      |                                       | 73      | 28   | 0                                     |
|         |                  | S                          | 100   | 0    | 0                                     | 100         | 0    | 0                                     |         |      |                                       | 51      | 49   | 0                                     |
|         |                  | P                          | 99  | 1    | 0                                     | 100         | 0    | 0                                     |         |      |                                       | 62      | 38   | 0                                     |
| 12      | Madhya Pradesh   | C                          |   |      |                                       | 99          | 1    | 0                                     | 95      | 4    | 0                                     |         |      |                                       |
|         |                  | S                          |   |      |                                       | 97          | 2    | 0                                     | 92      | 5    | 0                                     |         |      |                                       |
|         |                  | P                          |   |      |                                       | 98          | 1    | 0                                     | 94      | 4    | 0                                     |         |      |                                       |
| 13      | Maharashtra      | C                          |   |      |                                       | 6           | 4    | 90                                    | 1       | 1    | 98                                    | NC      | NC   | NC                                    |
|         |                  | S                          |   |      |                                       | 20          | 48   | 7                                     | 50      | 16   | 6                                     | 13      | 48   | 9                                     |
|         |                  | P                          |   |      |                                       | 12          | 24   | 52                                    | 21      | 7    | 56                                    | 13      | 48   | 9                                     |
| 14      | Odisha           | C                          | 95  | 5    | 0                                     | 90          | 10   | 0                                     |         |      |                                       | NC      | NC   | NC                                    |
|         |                  | S                          | 100   | 0    | 0                                     | 92          | 8    | 0                                     |         |      |                                       | 99      | 1    | 0                                     |
|         |                  | P                          | 98  | 3    | 0                                     | 91          | 9    | 0                                     |         |      |                                       | 99      | 1    | 0                                     |
| 15      | Punjab           | C                          |   |      |                                       | 42          | 54   | 4                                     | 38      | 60   | 2                                     |         |      |                                       |
|         |                  | S                          |   |      |                                       | 40          | 56   | 0                                     | NC      | NC   | NC                                    |         |      |                                       |
|         |                  | P                          |   |      |                                       | 41          | 55   | 2                                     | 38      | 60   | 2                                     |         |      |                                       |

| Sl. No.            | State            | A<br>G<br>E<br>N<br>C<br>Y | Percentage of villages where Girdawari was completed during |      |                                       |             |      |                                       |         |      |                                       |         |      |                                       |
|--------------------|------------------|----------------------------|---|------|---------------------------------------|-------------|------|---------------------------------------|---------|------|---------------------------------------|---------|------|---------------------------------------|
|                    |                  |                            | Early Kharif  |      |                                       | Late Kharif |      |                                       | Rabi    |      |                                       | Summer  |      |                                       |
|                    |                  |                            | In time   | Late | Not completed till Sample check visit | In time     | Late | Not completed till Sample check visit | In time | Late | Not completed till Sample check visit | In time | Late | Not completed till Sample check visit |
| 1                  | 2                | 3                          | 4   | 5    | 6                                     | 7           | 8    | 9                                     | 10      | 11   | 12                                    | 13      | 14   | 15                                    |
| 16                 | Rajasthan        | C                          |   |      |                                       | 83          | 17   | 0                                     | 90      | 9    | 0                                     |         |      |                                       |
|                    |                  | S                          |   |      |                                       | 74          | 21   | 0                                     | 81      | 12   | 0                                     |         |      |                                       |
|                    |                  | P                          |   |      |                                       | 78          | 19   | 0                                     | 86      | 10   | 0                                     |         |      |                                       |
| 17                 | Tamil Nadu<br>\$ | C                          | 69  | 18   | 11                                    | 80          | 7    | 13                                    | 67      | 33   | 0                                     |         |      |                                       |
|                    |                  | S                          | 93  | 2    | 3                                     | 82          | 10   | 6                                     | 98      | 2    | 0                                     |         |      |                                       |
|                    |                  | P                          | 81  | 10   | 7                                     | 81          | 9    | 9                                     | 88      | 12   | 0                                     |         |      |                                       |
| 18                 | Telangana        | C                          | 0   | 0    | 0                                     | 1           | 0    | 99                                    | 0       | 0    | 100                                   |         |      |                                       |
|                    |                  | S                          | 0   | 0    | 0                                     | 18          | 43   | 38                                    | 68      | 11   | 21                                    |         |      |                                       |
|                    |                  | P                          | 0   | 0    | 0                                     | 11          | 26   | 62                                    | 40      | 6    | 54                                    |         |      |                                       |
| 19                 | Uttar<br>Pradesh | C                          |   |      |                                       | 49          | 20   | 28                                    | 37      | 15   | 42                                    | 41      | 12   | 21                                    |
|                    |                  | S                          |   |      |                                       | 44          | 39   | 4                                     | 42      | 36   | 1                                     | 18      | 44   | 0                                     |
|                    |                  | P                          |   |      |                                       | 48          | 24   | 22                                    | 38      | 19   | 33                                    | 39      | 15   | 19                                    |
| 20                 | Uttarakhand      | C                          |   |      |                                       | 92          | 6    | 0                                     | 84      | 11   | 2                                     | 91      | 6    | 0                                     |
|                    |                  | S                          |   |      |                                       | 85          | 14   | 1                                     | 83      | 14   | 1                                     | 100     | 0    | 0                                     |
|                    |                  | P                          |   |      |                                       | 88          | 10   | 0                                     | 83      | 13   | 1                                     | 94      | 4    | 0                                     |
| 21                 | West Bengal      | C                          | 17  | 16   | 64                                    | 18          | 6    | 76                                    | 23      | 2    | 75                                    | 0       | 0    | 0                                     |
|                    |                  | S                          | 38  | 53   | 9                                     | 46          | 46   | 7                                     | 81      | 2    | 17                                    | 71      | 29   | 0                                     |
|                    |                  | P                          | 22  | 24   | 53                                    | 24          | 15   | 61                                    | 32      | 2    | 67                                    | 2       | 1    | 0                                     |
| 22                 | Puducherry       | C                          |   |      |                                       | 100         | 0    | 0                                     | 100     | 0    | 0                                     | 89      | 11   | 0                                     |
|                    |                  | S                          |   |      |                                       | 100         | 0    | 0                                     | 100     | 0    | 0                                     | 100     | 0    | 0                                     |
|                    |                  | P                          |   |      |                                       | 100         | 0    | 0                                     | 100     | 0    | 0                                     | 94      | 6    | 0                                     |
| For States covered |                  | C                          | 40  | 8    | 51                                    | 48          | 10   | 41                                    | 37      | 11   | 51                                    | 30      | 7    | 35                                    |
|                    |                  | S                          | 60  | 11   | 24                                    | 52          | 23   | 19                                    | 57      | 16   | 21                                    | 37      | 28   | 24                                    |
|                    |                  | P                          | 49  | 9    | 39                                    | 50          | 16   | 31                                    | 45      | 13   | 38                                    | 33      | 17   | 30                                    |

## Note:

1. \$- For Tamil Nadu: Autumn , Winter and Rabi indicate I, II, & III phases respectively.
2. @- The Field work was not carried out for State sample during Summer season.
3. NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

## TIMELINESS IN SUBMISSION OF TRS/ EARAS STATEMENT DURING 2019-20

| Sl. No. | State          | S E A S O N | A G E N C Y | Percentage of Villages for which |                |                            |                |  |                            |                         |  |   |
|---------|----------------|-------------|-------------|----------------------------------|----------------|----------------------------|----------------|--|----------------------------|-------------------------|--|---|
|         |                |             |             | TRS Statement submitted          |                |                            |                | TRS Statement not Submitted                        |                            |                         |  |   |
|         |                |             |             | Without completing Girdawari     |                | After completing Girdawari |                | Information regarding date of submission not known | Though Girdawari completed | Girdawari not completed | Information regarding TRS submission not available |   |
|         |                |             |             | By due date                      | After due date | By Due date                | After due date |  |                            |                         |  |   |
| 1       | 2              | 3           | 4           | 5                                | 6              | 7                          | 8              | 9  | 10                         | 11                      | 12   |   |
| 1       | Andhra Pradesh | Kharif      | C           | 100                              | 0              | 0                          | 0              | 0  | 0                          | 0                       | 0  | 0 |
|         |                |             | S           | 44                               | 0              | 53                         | 0              | 2  | 0                          | 0                       | 0  |   |
|         |                |             | P           | 66                               | 0              | 33                         | 0              | 1  | 0                          | 0                       | 0  |   |
|         |                | Rabi        | C           | 97                               | 3              | 0                          | 0              | 0  | 0                          | 0                       | 0  | 0 |
|         |                |             | S           | 17                               | 2              | 79                         | 2              | 0  | 0                          | 0                       | 0  |   |
|         |                |             | P           | 47                               | 2              | 49                         | 1              | 0  | 0                          | 0                       | 0  |   |
| 2       | Assam          | E.Kh.       | C           | 0                                | 0              | 0                          | 0              | 0  | 0                          | 0                       | 100  | 0 |
|         |                |             | S           | 0                                | 7              | 0                          | 0              | 39   | 0                          | 54                      | 0  |   |
|         |                |             | P           | 0                                | 2              | 0                          | 0              | 14   | 0                          | 84                      | 0  |   |
|         |                | L.Kh.       | C           | 0                                | 0              | 0                          | 0              | 0  | 0                          | 0                       | 100  | 0 |
|         |                |             | S           | 0                                | 8              | 0                          | 0              | 43   | 0                          | 49                      | 0  |   |
|         |                |             | P           | 0                                | 3              | 0                          | 0              | 14   | 0                          | 83                      | 0  |   |
|         | Rabi           | C           | 0           | 0                                | 0              | 0                          | 0              | 0  | 0                          | 100                     | 0  |   |
|         |                | S           | 0           | 2                                | 0              | 0                          | 0              | 0  | 98                         | 0                       |  |   |
|         |                | P           | 0           | 1                                | 0              | 0                          | 0              | 1  | 99                         | 0                       |  |   |
|         | Summer         | C           | 0           | 0                                | 0              | 0                          | 0              | 0  | 0                          | 100                     | 0  |   |
|         |                | S           | 0           | 3                                | 0              | 0                          | 0              | 0  | 97                         | 0                       |  |   |
|         |                | P           | 0           | 1                                | 0              | 0                          | 0              | 0  | 99                         | 0                       |  |   |
| 3       | Bihar          | Bhadhai     | C           | 0                                | 0              | 0                          | 0              | 0  | 0                          | 0                       | 100  | 0 |
|         |                |             | S           | 0                                | 14             | 3                          | 15             | 1  | 6                          | 54                      | 0  |   |
|         |                |             | P           | 0                                | 6              | 2                          | 7              | 0  | 3                          | 79                      | 0  |   |
|         |                | Aghani      | C           | 0                                | 0              | 0                          | 0              | 0  | 0                          | 0                       | 100  | 0 |
|         |                |             | S           | 0                                | 2              | 0                          | 8              | 5  | 3                          | 76                      | 0  |   |
|         |                |             | P           | 1                                | 1              | 0                          | 4              | 2  | 1                          | 88                      | 0  |   |
|         | Rabi           | C           | 0           | 0                                | 0              | 0                          | 0              | 0  | 0                          | 100                     | 0  |   |
|         |                | S           | 0           | 0                                | 0              | 0                          | 2              | 10   | 80                         | 0                       |  |   |
|         |                | P           | 0           | 0                                | 0              | 0                          | 1              | 5  | 91                         | 0                       |  |   |
|         | Summer         | C           | 0           | 0                                | 0              | 0                          | 0              | 0  | 2                          | 98                      | 0  |   |
|         |                | S           | 0           | 0                                | 0              | 0                          | 0              | 13   | 61                         | 0                       |  |   |
|         |                | P           | 0           | 0                                | 0              | 0                          | 0              | 10   | 71                         | 0                       |  |   |
| 4       | Chhattisgarh   | Kharif      | C           | 2                                | 0              | 74                         | 22             | 1  | 1                          | 0                       | 0  |   |
|         |                |             | S           | 0                                | 0              | 74                         | 24             | 2  | 0                          | 0                       | 0  |   |
|         |                |             | P           | 1                                | 0              | 74                         | 23             | 2  | 1                          | 0                       | 0  |   |
|         |                | Rabi        | C           | 0                                | 0              | 74                         | 9              | 0  | 4                          | 13                      | 0  |   |
|         |                |             | S           | 0                                | 0              | 75                         | 25             | 0  | 0                          | 0                       | 0  |   |
|         |                |             | P           | 0                                | 0              | 75                         | 17             | 0  | 2                          | 7                       | 0  |   |
| 5       | Gujarat        | Kharif      | C           | 0                                | 1              | 87                         | 7              | 2  | 5                          | 0                       | 0  |   |
|         |                |             | S           | 0                                | 0              | 1                          | 0              | 0  | 0                          | 99                      | 0  |   |
|         |                |             | P           | 0                                | 0              | 7                          | 1              | 3  | 2                          | 87                      | 0  |   |
|         |                | Rabi        | C           | 0                                | 0              | 4                          | 1              | 2  | 1                          | 93                      | 0  |   |
|         |                |             | S           | 0                                | 0              | 0                          | 0              | 0  | 1                          | 99                      | 0  |   |
|         |                |             | P           | 0                                | 0              | 5                          | 1              | 2  | 3                          | 86                      | 0  |   |
| Summer  | C              | 0           | 0           | 3                                | 0              | 1                          | 2              | 93   | 0                          |                         |  |   |
|         | S              | NC          | NC          | NC                               | NC             | NC                         | NC             | NC   | NC                         |                         |  |   |
|         | P              | 0           | 0           | 0                                | 1              | 10                         | 1              | 85   | 1                          |                         |  |   |

| S. No. | State            | S E A S O N | A G E N C Y    | Percentage of Villages for which |                |                            |                |  |                            |                         |   |   |   |
|--------|------------------|-------------|----------------|----------------------------------|----------------|----------------------------|----------------|--|----------------------------|-------------------------|---|---|---|
|        |                  |             |                | TR S Statement submitted         |                |                            |                | TR S Statement not Submitted                       |                            |                         |   |   |   |
|        |                  |             |                | Without completing Girdawari     |                | After completing Girdawari |                | Information regarding date of submission not known | Though Girdawari completed | Girdawari not completed | Information regarding TR S submission not available |   |   |
|        |                  |             |                | By due date                      | After due date | By Due date                | After due date |  |                            |                         |   |   |   |
| 1      | 2                | 3           | 4              | 5                                | 6              | 7                          | 8              | 9  | 10                         | 11                      | 12  |   |   |
| 6      | Haryana @        | Kharif      | C              | 0                                | 0              | 0                          | 4              | 10   | 1                          | 85                      | 1   |   |   |
|        |                  |             | S              | 0                                | 0              | 76                         | 24             | 0  | 0                          | 0                       | 0   |   |   |
|        |                  |             | P              | 0                                | 0              | 82                         | 15             | 1  | 2                          | 0                       | 0   |   |   |
|        |                  | Rabi        | C              | 0                                | 0              | 84                         | 8              | 0  | 8                          | 2                       | 0   |   |   |
|        |                  |             | S              | 0                                | 0              | 49                         | 46             | 0  | 4                          | 0                       | 0   |   |   |
|        |                  |             | P              | 0                                | 0              | 69                         | 24             | 0  | 6                          | 1                       | 0   |   |   |
|        |                  | Summer      | C              | 0                                | 0              | 1                          | 0              | 0  | 32                         | 67                      | 0   |   |   |
| S      |                  |             |                |                                  |                |                            |                |  |                            |                         |   |   |   |
|        |                  |             | P              | 0                                | 0              | 1                          | 0              | 0  | 32                         | 67                      | 1   |   |   |
| 7      | Himachal Pradesh | Kharif      | C              | 1                                | 0              | 51                         | 10             | 0  | 26                         | 0                       | 0   |   |   |
|        |                  |             | S              | 0                                | 0              | 62                         | 21             | 6  | 6                          | 0                       | 0   |   |   |
|        |                  |             | P              | 1                                | 0              | 56                         | 15             | 3  | 16                         | 0                       | 1   |   |   |
|        |                  | Rabi        | C              | 0                                | 0              | 72                         | 11             | 0  | 17                         | 0                       | 0   |   |   |
|        |                  |             | S              | 0                                | 0              | 57                         | 20             | 8  | 16                         | 0                       | 0   |   |   |
|        |                  |             | P              | 0                                | 0              | 67                         | 14             | 3  | 17                         | 0                       | 0   |   |   |
| 8      | Jammu & Kashmir  | Kharif      | C              | 8                                | 0              | 34                         | 17             | 0  | 37                         | 0                       | 0   |   |   |
|        |                  |             | S              | 3                                | 2              | 42                         | 33             | 13   | 7                          | 0                       | 0   |   |   |
|        |                  |             | P              | 5                                | 1              | 39                         | 27             | 8  | 18                         | 0                       | 0   |   |   |
|        |                  | Rabi        | C              | NC                               | NC             | NC                         | NC             | NC   | NC                         | NC                      | NC  |   |   |
|        |                  |             | S              | 2                                | 0              | 55                         | 31             | 0  | 12                         | 0                       | 0   |   |   |
|        |                  |             | P              | 2                                | 0              | 55                         | 31             | 0  | 12                         | 0                       | 0   |   |   |
| 9      | Jharkhand        | Bhadhai     | C              | 15                               | 0              | 0                          | 0              | 0  | 0                          | 85                      | 0   |   |   |
|        |                  |             | S              | 7                                | 7              | 0                          | 36             | 0  | 29                         | 9                       | 0   |   |   |
|        |                  |             | P              | 11                               | 3              | 0                          | 15             | 0  | 12                         | 52                      | 0   |   |   |
|        |                  | Aghani      | C              | 0                                | 0              | 0                          | 0              | 5  | 2                          | 93                      | 0   |   |   |
|        |                  |             | S              | 0                                | 0              | 0                          | 31             | 14   | 43                         | 12                      | 0   |   |   |
|        |                  |             | P              | 0                                | 0              | 0                          | 13             | 9  | 19                         | 60                      | 0   |   |   |
|        |                  | Rabi        | C              | 0                                | 0              | 0                          | 0              | 0  | 0                          | 100                     | 0   |   |   |
|        |                  |             | S              | 17                               | 0              | 0                          | 20             | 17   | 17                         | 29                      | 0   |   |   |
|        |                  |             | P              | 7                                | 0              | 0                          | 8              | 7  | 7                          | 71                      | 0   |   |   |
|        |                  | Summer      | C              | 0                                | 0              | 0                          | 0              | 0  | 0                          | 100                     | 0   |   |   |
|        |                  |             | S              | 10                               | 0              | 0                          | 33             | 10   | 26                         | 21                      | 0   |   |   |
|        |                  |             | P              | 4                                | 0              | 0                          | 14             | 4  | 11                         | 68                      | 0   |   |   |
| 10     | Karnataka        | Kharif      | C              | 8                                | 0              | 51                         | 22             | 0  | 18                         | 0                       | 0   |   |   |
|        |                  |             | S              | 1                                | 6              | 52                         | 23             | 14   | 3                          | 0                       | 0   |   |   |
|        |                  |             | P              | 5                                | 3              | 52                         | 23             | 7  | 11                         | 0                       | 0   |   |   |
|        |                  | Rabi        | C              | 0                                | 0              | 31                         | 16             | 0  | 13                         | 39                      | 0   |   |   |
|        |                  |             | S              | 0                                | 0              | 44                         | 39             | 14   | 0                          | 1                       | 0   |   |   |
|        |                  |             | P              | 0                                | 0              | 38                         | 28             | 7  | 7                          | 20                      | 0   |   |   |
|        |                  | Summer      | C              | NC                               | NC             | NC                         | NC             | NC   | NC                         | NC                      | NC  |   |   |
|        |                  |             | S              | 0                                | 0              | 55                         | 37             | 7  | 1                          | 0                       | 0   |   |   |
|        |                  |             | P              | 0                                | 0              | 55                         | 37             | 7  | 1                          | 0                       | 0   |   |   |
| 11     | Kerala           | Autumn      | C              | 0                                | 0              | 84                         | 13             | 1  | 3                          | 0                       | 0   |   |   |
|        |                  |             | S              | 0                                | 0              | 100                        | 0              | 0  | 0                          | 0                       | 0   |   |   |
|        |                  |             | P              | 0                                | 0              | 92                         | 6              | 1  | 1                          | 0                       | 0   |   |   |
|        |                  | Winter      | C              | 0                                | 0              | 98                         | 1              | 0  | 1                          | 0                       | 0   |   |   |
|        |                  |             | S              | 0                                | 0              | 99                         | 1              | 0  | 0                          | 0                       | 0   |   |   |
|        |                  |             | P              | 0                                | 0              | 98                         | 1              | 0  | 1                          | 0                       | 0   |   |   |
|        |                  | Summer      | C              | 0                                | 0              | 29                         | 66             | 1  | 1                          | 0                       | 0   |   |   |
|        |                  |             | S              | 0                                | 0              | 35                         | 65             | 0  | 0                          | 0                       | 0   |   |   |
|        |                  |             | P              | 0                                | 0              | 32                         | 66             | 1  | 1                          | 0                       | 0   |   |   |
|        |                  | 12          | Madhya Pradesh | Kharif                           | C              | 0                          | 0              | 93   | 5                          | 1                       | 0   | 0 | 0 |
|        |                  |             |                |                                  | S              | 1                          | 0              | 84   | 9                          | 5                       | 0   | 0 | 0 |
| P      | 1                |             |                |                                  | 0              | 89                         | 7              | 3  | 0                          | 0                       | 0   |   |   |
| Rabi   | C                |             |                | 0                                | 0              | 87                         | 12             | 1  | 1                          | 0                       | 0   |   |   |
|        | S                |             |                | 0                                | 0              | 75                         | 22             | 2  | 0                          | 0                       | 0   |   |   |
|        | P                |             |                | 0                                | 0              | 82                         | 16             | 1  | 0                          | 0                       | 0   |   |   |

| S. No. | State         | S E A S O N | A G E N C Y | Percentage of Villages for which |                |                            |                |  |                            |                         |  |    |
|--------|---------------|-------------|-------------|----------------------------------|----------------|----------------------------|----------------|--|----------------------------|-------------------------|--|----|
|        |               |             |             | TRS Statement submitted          |                |                            |                | TRS Statement not Submitted                        |                            |                         |  |    |
|        |               |             |             | Without completing Girdawari     |                | After completing Girdawari |                | Information regarding date of submission not known | Though Girdawari completed | Girdawari not completed | Information regarding TRS submission not available |    |
|        |               |             |             | By due date                      | After due date | By Due date                | After due date |  |                            |                         |  |    |
| 1      | 2             | 3           | 4           | 5                                | 6              | 7                          | 8              | 9  | 10                         | 11                      | 12   |    |
| 13     | Mahara-shtra  | Kharif      | C           | 4                                | 0              | 5                          | 1              | 0  | 4                          | 86                      | 0  |    |
|        |               |             | S           | 0                                | 2              | 22                         | 27             | 29   | 9                          | 7                       | 0  |    |
|        |               |             | P           | 2                                | 1              | 13                         | 13             | 13   | 6                          | 50                      | 0  |    |
|        |               | Rabi        | C           | 3                                | 0              | 0                          | 0              | 0  | 2                          | 94                      | 0  |    |
|        |               |             | S           | 0                                | 0              | 54                         | 0              | 36   | 0                          | 6                       | 0  |    |
|        |               |             | P           | 2                                | 0              | 23                         | 0              | 16   | 1                          | 57                      | 0  |    |
|        |               | Summer      | C           | NC                               | NC             | NC                         | NC             | NC   | NC                         | NC                      | NC   | NC |
|        |               |             | S           | 0                                | 2              | 17                         | 33             | 38   | 1                          | 8                       | 0  |    |
|        |               |             | P           | 0                                | 2              | 17                         | 33             | 38   | 1                          | 8                       | 0  |    |
| 14     | Odisha        | Autumn      | C           | 0                                | 0              | 82                         | 3              | 2  | 12                         | 0                       | 0  |    |
|        |               |             | S           | 1                                | 0              | 98                         | 1              | 0  | 0                          | 0                       | 0  |    |
|        |               |             | P           | 0                                | 0              | 90                         | 2              | 1  | 6                          | 0                       | 0  |    |
|        |               | Winter      | C           | 0                                | 1              | 83                         | 9              | 0  | 7                          | 0                       | 0  |    |
|        |               |             | S           | 0                                | 0              | 92                         | 8              | 0  | 0                          | 0                       | 0  |    |
|        |               |             | P           | 0                                | 0              | 87                         | 8              | 0  | 4                          | 0                       | 0  |    |
|        |               | Summer      | C           | NC                               | NC             | NC                         | NC             | NC   | NC                         | NC                      | NC   | NC |
|        |               |             | S           | 0                                | 0              | 99                         | 1              | 0  | 0                          | 0                       | 0  |    |
|        |               |             | P           | 0                                | 0              | 99                         | 1              | 0  | 0                          | 0                       | 0  |    |
| 15     | Punjab        | Kharif      | C           | 0                                | 4              | 11                         | 20             | 0  | 65                         | 0                       | 0  |    |
|        |               |             | S           | 0                                | 1              | 88                         | 7              | 3  | 0                          | 0                       | 0  |    |
|        |               |             | P           | 0                                | 3              | 42                         | 15             | 1  | 38                         | 0                       | 0  |    |
|        |               | Rabi        | C           | 0                                | 2              | 30                         | 24             | 1  | 44                         | 0                       | 0  |    |
|        |               |             | S           | NC                               | NC             | NC                         | NC             | NC   | NC                         | NC                      | NC   |    |
|        |               |             | P           | 0                                | 2              | 30                         | 24             | 1  | 44                         | 0                       | 0  |    |
| 16     | Rajasthan     | Kharif      | C           | 0                                | 0              | 48                         | 50             | 0  | 1                          | 0                       | 0  |    |
|        |               |             | S           | 0                                | 0              | 48                         | 44             | 6  | 0                          | 0                       | 0  |    |
|        |               |             | P           | 0                                | 0              | 48                         | 47             | 3  | 0                          | 0                       | 0  |    |
|        |               | Rabi        | C           | 0                                | 0              | 64                         | 34             | 1  | 1                          | 0                       | 0  |    |
|        |               |             | S           | 0                                | 0              | 48                         | 36             | 15   | 0                          | 0                       | 0  |    |
|        |               |             | P           | 0                                | 0              | 56                         | 35             | 8  | 1                          | 0                       | 0  |    |
| 17     | Tamil Nadu    | Phase-I     | C           | 11                               | 2              | 55                         | 32             | 0  | 0                          | 0                       | 0  |    |
|        |               |             | S           | 4                                | 2              | 52                         | 43             | 0  | 0                          | 0                       | 0  |    |
|        |               |             | P           | 8                                | 2              | 53                         | 37             | 0  | 0                          | 0                       | 0  |    |
|        |               | Phase-II    | C           | 10                               | 3              | 78                         | 8              | 0  | 0                          | 0                       | 0  |    |
|        |               |             | S           | 5                                | 5              | 73                         | 17             | 0  | 0                          | 0                       | 0  |    |
|        |               |             | P           | 8                                | 4              | 76                         | 13             | 0  | 0                          | 0                       | 0  |    |
|        |               | Phase-III   | C           | 0                                | 2              | 60                         | 38             | 0  | 0                          | 0                       | 0  |    |
|        |               |             | S           | 0                                | 1              | 85                         | 14             | 0  | 0                          | 0                       | 0  |    |
|        |               |             | P           | 0                                | 1              | 77                         | 22             | 1  | 0                          | 0                       | 0  |    |
| 18     | Telangana     | Kharif      | C           | 99                               | 0              | 1                          | 0              | 0  | 0                          | 0                       | 0  |    |
|        |               |             | S           | 59                               | 2              | 29                         | 8              | 2  | 0                          | 0                       | 0  |    |
|        |               |             | P           | 75                               | 1              | 18                         | 5              | 1  | 0                          | 0                       | 0  |    |
|        |               | Rabi        | C           | 91                               | 8              | 0                          | 0              | 0  | 1                          | 0                       | 0  |    |
|        |               |             | S           | 18                               | 2              | 77                         | 2              | 0  | 0                          | 0                       | 0  |    |
|        |               |             | P           | 49                               | 5              | 45                         | 1              | 0  | 1                          | 0                       | 0  |    |
| 19     | Uttar Pradesh | Kharif      | C           | 2                                | 0              | 30                         | 31             | 1  | 9                          | 26                      | 0  |    |
|        |               |             | S           | 0                                | 4              | 21                         | 45             | 24   | 1                          | 0                       | 0  |    |
|        |               |             | P           | 2                                | 1              | 28                         | 34             | 7  | 7                          | 20                      | 0  |    |
|        |               | Rabi        | C           | 0                                | 1              | 21                         | 23             | 3  | 10                         | 38                      | 0  |    |
|        |               |             | S           | 5                                | 1              | 48                         | 12             | 26   | 1                          | 0                       | 0  |    |
|        |               |             | P           | 1                                | 1              | 26                         | 20             | 8  | 8                          | 30                      | 0  |    |
|        |               | Summer      | C           | 1                                | 1              | 20                         | 25             | 4  | 26                         | 18                      | 0  |    |
|        |               |             | S           | 1                                | 8              | 20                         | 22             | 39   | 3                          | 0                       | 0  |    |
| P      | 1             | 1           | 20          | 25                               | 7              | 24                         | 16             | 0  |                            |                         |  |    |

| S. No.             | State        | S E A S O N | A G E N C Y | Percentage of Villages for which |                |                            |                |  |                            |                         |  |   |   |
|--------------------|--------------|-------------|-------------|----------------------------------|----------------|----------------------------|----------------|--|----------------------------|-------------------------|--|---|---|
|                    |              |             |             | TRS Statement submitted          |                |                            |                | TRS Statement not Submitted                        |                            |                         |  |   |   |
|                    |              |             |             | Without completing Girdawari     |                | After completing Girdawari |                | Information regarding date of submission not known | Though Girdawari completed | Girdawari not completed | Information regarding TRS submission not available |   |   |
|                    |              |             |             | By due date                      | After due date | By Due date                | After due date |  |                            |                         |  |   |   |
| 1                  | 2            | 3           | 4           | 5                                | 6              | 7                          | 8              | 9  | 10                         | 11                      | 12   |   |   |
| 20                 | Uttarakhand  | Kharif      | C           | 0                                | 2              | 85                         | 13             | 0  | 0                          | 0                       | 0  |   |   |
|                    |              |             | S           | 1                                | 0              | 55                         | 43             | 1  | 0                          | 0                       | 0  |   |   |
|                    |              |             | P           | 0                                | 1              | 70                         | 28             | 0  | 0                          | 0                       | 0  |   |   |
|                    |              | Rabi        | C           | 0                                | 2              | 79                         | 12             | 2  | 4                          | 0                       | 0  |   |   |
|                    |              |             | S           | 0                                | 1              | 66                         | 2              | 0  | 0                          | 0                       | 0  |   |   |
|                    |              |             | P           | 0                                | 1              | 73                         | 7              | 1  | 2                          | 0                       | 0  |   |   |
|                    |              | Summer      | C           | 0                                | 0              | 70                         | 23             | 0  | 6                          | 0                       | 0  |   |   |
|                    |              |             | S           | 0                                | 0              | 64                         | 36             | 0  | 0                          | 0                       | 0  |   |   |
|                    |              |             | P           | 0                                | 0              | 68                         | 28             | 0  | 4                          | 0                       | 0  |   |   |
| 21                 | West Bengal  | E.Kharif    | C           | 0                                | 0              | 7                          | 3              | 0  | 8                          | 80                      | 2  |   |   |
|                    |              |             | S           | 0                                | 8              | 0                          | 67             | 0  | 0                          | 26                      | 0  |   |   |
|                    |              |             | P           | 0                                | 2              | 5                          | 16             | 0  | 6                          | 69                      | 1  |   |   |
|                    |              | L.Kharif    | C           | 2                                | 1              | 8                          | 1              | 0  | 13                         | 76                      | 0  |   |   |
|                    |              |             | S           | 1                                | 3              | 6                          | 70             | 0  | 0                          | 19                      | 0  |   |   |
|                    |              |             | P           | 2                                | 2              | 7                          | 16             | 0  | 10                         | 64                      | 0  |   |   |
|                    |              | Rabi        | C           | 0                                | 0              | 8                          | 11             | 0  | 6                          | 75                      | 0  |   |   |
|                    |              |             | S           | 0                                | 0              | 2                          | 2              | 0  | 79                         | 17                      | 0  |   |   |
|                    |              |             | P           | 0                                | 0              | 7                          | 10             | 0  | 16                         | 67                      | 0  |   |   |
|                    |              | Summer      | C           | 0                                | 0              | 0                          | 0              | 0  | 0                          | 0                       | 0  |   |   |
|                    |              |             | S           | 0                                | 0              | 0                          | 0              | 0  | 100                        | 0                       | 0  |   |   |
|                    |              |             | P           | 0                                | 0              | 0                          | 0              | 0  | 3                          | 0                       | 0  |   |   |
|                    |              | 22          | Puducherry  | Kharif                           | C              | 0                          | 0              | 100  | 0                          | 0                       | 0  | 0 | 0 |
|                    |              |             |             |                                  | S              | 0                          | 0              | 100  | 0                          | 0                       | 0  | 0 | 0 |
|                    |              |             |             |                                  | P              | 0                          | 0              | 100  | 0                          | 0                       | 0  | 0 | 0 |
| Rabi-I             | C            |             |             | 0                                | 0              | 33                         | 67             | 0  | 0                          | 0                       | 0  |   |   |
|                    | S            |             |             | 0                                | 0              | 100                        | 0              | 0  | 0                          | 0                       | 0  |   |   |
|                    | P            |             |             | 0                                | 0              | 67                         | 33             | 0  | 0                          | 0                       | 0  |   |   |
| Rabi-II            | C            |             |             | 0                                | 0              | 78                         | 22             | 0  | 0                          | 0                       | 0  |   |   |
|                    | S            |             |             | 0                                | 0              | 100                        | 0              | 0  | 0                          | 0                       | 0  |   |   |
|                    | P            |             |             | 0                                | 0              | 89                         | 11             | 0  | 0                          | 0                       | 0  |   |   |
| FOR STATES COVERED | Early Kharif | C           | 3           | 0                                | 32             | 8                          | 0              | 4  | 51                         | 0                       |  |   |   |
|                    |              | S           | 2           | 5                                | 45             | 21                         | 4              | 3  | 19                         | 0                       |  |   |   |
|                    |              | P           | 2           | 2                                | 38             | 14                         | 2              | 3  | 37                         | 0                       |  |   |   |
|                    | Late Kharif  | C           | 10          | 1                                | 39             | 13                         | 1              | 8  | 28                         | 0                       |  |   |   |
|                    |              | S           | 8           | 2                                | 45             | 19                         | 8              | 2  | 14                         | 0                       |  |   |   |
|                    |              | P           | 9           | 1                                | 41             | 16                         | 4              | 6  | 21                         | 0                       |  |   |   |
|                    | Rabi         | C           | 8           | 1                                | 29             | 13                         | 1              | 6  | 42                         | 0                       |  |   |   |
|                    |              | S           | 3           | 1                                | 52             | 15                         | 8              | 2  | 17                         | 0                       |  |   |   |
|                    |              | P           | 6           | 1                                | 42             | 14                         | 4              | 5  | 26                         | 0                       |  |   |   |
|                    | Summer       | C           | 0           | 1                                | 10             | 11                         | 1              | 12   | 51                         | 0                       |  |   |   |
|                    |              | S           | 0           | 1                                | 38             | 23                         | 13             | 4  | 16                         | 0                       |  |   |   |
|                    |              | P           | 0           | 1                                | 23             | 18                         | 7              | 10   | 28                         | 0                       |  |   |   |
| All seasons        | C            | 7           | 1           | 30                               | 12             | 1                          | 8              | 39   | 0                          |                         |  |   |   |
|                    | S            | 5           | 1           | 47                               | 18             | 8                          | 2              | 16   | 0                          |                         |  |   |   |
|                    | P            | 6           | 1           | 39                               | 16             | 4                          | 6              | 26   | 0                          |                         |  |   |   |

## Note:

1. @- The Field work was not carried out for State sample during Summer season.
2. NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

**INFORMATION REGARDING UPDATION OF VILLAGE  
MAPS AND THEIR USABILITY DURING 2019-20**

| Sl. No.            | State            | Percentage of villages in which     |                      |          |                    |
|--------------------|------------------|-------------------------------------|----------------------|----------|--------------------|
|                    |                  | Maps updated more than 20 years ago | Availability of Maps |          | Maps not available |
|                    |                  |                                     | Usable               | unusable |                    |
| 1                  | 2                | 3                                   | 4                    | 5        | 6                  |
| 1                  | Andhra Pradesh   | 76                                  | 91                   | 2        | 7                  |
| 2                  | Assam            | 80                                  | 93                   | 4        | 3                  |
| 3                  | Bihar            | 86                                  | 75                   | 0        | 23                 |
| 4                  | Chhattisgarh     | 60                                  | 97                   | 1        | 2                  |
| 5                  | Gujarat          | 41                                  | 60                   | 18       | 22                 |
| 6                  | Haryana          | 27                                  | 99                   | 0        | 0                  |
| 7                  | Himachal Pradesh | 54                                  | 94                   | 3        | 2                  |
| 8                  | Jammu & Kashmir  | 56                                  | 59                   | 31       | 10                 |
| 9                  | Jharkhand        | 90                                  | 52                   | 6        | 42                 |
| 10                 | Karnataka        | 62                                  | 81                   | 3        | 16                 |
| 11                 | Kerala           | 84                                  | 99                   | 1        | 0                  |
| 12                 | Madhya Pradesh   | 40                                  | 98                   | 1        | 1                  |
| 13                 | Maharashtra      | 24                                  | 86                   | 6        | 8                  |
| 14                 | Odisha           | 94                                  | 100                  | 0        | 0                  |
| 15                 | Punjab           | 51                                  | 99                   | 0        | 1                  |
| 16                 | Rajasthan        | 59                                  | 99                   | 0        | 1                  |
| 17                 | Tamil Nadu       | 95                                  | 96                   | 1        | 3                  |
| 18                 | Telangana        | 61                                  | 61                   | 12       | 27                 |
| 19                 | Uttar Pradesh    | 85                                  | 95                   | 3        | 2                  |
| 20                 | Uttarakhand      | 91                                  | 92                   | 6        | 2                  |
| 21                 | West Bengal      | 98                                  | 97                   | 0        | 3                  |
| 22                 | Puducherry       | 100                                 | 100                  | 0        | 0                  |
| For States Covered |                  | 64                                  | 88                   | 4        | 8                  |

**PERCENTAGE OF SURVEY NUMBERS IN WHICH ERRORS IN RECORDING CROP  
AREA WERE OBSERVED DURING 2019-20**

| Sl. No. | State            | A<br>G<br>E<br>N<br>C<br>Y | Percentage of survey numbers with different types of errors in enumeration of area during |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
|---------|------------------|----------------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|         |                  |                            | KHARIF  |                |                |                |                |                |                |                | RABI           |                |                |                |                |                |                |                |
|         |                  |                            | Early Kharif  |                |                |                | Late Kharif    |                |                |                | RABI           |                |                |                | SUMMER         |                |                |                |
|         |                  |                            | e <sub>0</sub>  | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | e <sub>0</sub> | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | e <sub>0</sub> | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | e <sub>0</sub> | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> |
| 1       | 2                | 3                          | 4   | 5              | 6              | 7              | 8              | 9              | 10             | 11             | 12             | 13             | 14             | 15             | 16             | 17             | 18             | 19             |
| 1       | Andhra Pradesh   | C                          |   |                |                |                | 0              | 0              | 0              | 0              | 0              | 100            | 0              | 0              |                |                |                |                |
|         |                  | S                          |   |                |                |                | 92             | 4              | 0              | 3              | 86             | 11             | 0              | 3              |                |                |                |                |
|         |                  | P                          |   |                |                |                | 92             | 4              | 0              | 3              | 59             | 38             | 0              | 2              |                |                |                |                |
| 2       | Assam @          | C                          |   |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
|         |                  | S                          |   |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
|         |                  | P                          |   |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 3       | Bihar #          | C                          | 0   | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
|         |                  | S                          | 99  | 0              | 0              | 1              | 89             | 11             | 0              | 0              | 99             | 1              | 0              | 0              | 100            | 0              | 0              | 0              |
|         |                  | P                          | 99  | 0              | 0              | 1              | 89             | 11             | 0              | 0              | 99             | 1              | 0              | 0              | 100            | 0              | 0              | 0              |
| 4       | Chhattisgarh     | C                          |   |                |                |                | 89             | 5              | 1              | 5              | 91             | 4              | 1              | 4              |                |                |                |                |
|         |                  | S                          |   |                |                |                | 99             | 1              | 0              | 0              | 100            | 0              | 0              | 0              |                |                |                |                |
|         |                  | P                          |   |                |                |                | 94             | 3              | 1              | 3              | 95             | 2              | 1              | 2              |                |                |                |                |
| 5       | Gujarat          | C#                         |   |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
|         |                  | S                          |   |                |                |                | 98             | 0              | 0              | 2              | 99             | 0              | 0              | 0              | 100            | 0              | 0              | 0              |
|         |                  | P                          |   |                |                |                | 98             | 0              | 0              | 2              | 99             | 0              | 0              | 0              | 100            | 0              | 0              | 0              |
| 6       | Haryana *        | C                          |   |                |                |                | 88             | 6              | 3              | 3              | 91             | 4              | 4              | 2              | 100            | 0              | 0              | 0              |
|         |                  | S                          |   |                |                |                | 97             | 1              | 1              | 1              | 100            | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
|         |                  | P                          |   |                |                |                | 92             | 4              | 2              | 2              | 95             | 2              | 2              | 1              | 100            | 0              | 0              | 0              |
| 7       | Himachal Pradesh | C                          |   |                |                |                | 74             | 8              | 9              | 9              | 77             | 6              | 8              | 8              |                |                |                |                |
|         |                  | S                          |   |                |                |                | 91             | 3              | 1              | 5              | 94             | 2              | 2              | 1              |                |                |                |                |
|         |                  | P                          |   |                |                |                | 82             | 6              | 5              | 7              | 83             | 5              | 6              | 6              |                |                |                |                |
| 8       | Jammu & Kashmir  | C                          |   |                |                |                | 89             | 5              | 1              | 6              | NC             | NC             | NC             | NC             |                |                |                |                |
|         |                  | S                          |   |                |                |                | 98             | 1              | 0              | 1              | 91             | 7              | 0              | 2              |                |                |                |                |
|         |                  | P                          |   |                |                |                | 94             | 2              | 1              | 3              | 91             | 7              | 1              | 2              |                |                |                |                |
| 9       | Jharkhand @      | C                          | 0   | 100            | 0              | 0              | 0              | 100            | 0              | 0              | NC             | NC             | NC             | NC             |                |                |                |                |
|         |                  | S                          | 85  | 15             | 0              | 0              | 84             | 16             | 0              | 0              | 83             | 17             | 0              | 0              |                |                |                |                |
|         |                  | P                          | 50  | 50             | 0              | 0              | 38             | 62             | 0              | 0              | 83             | 17             | 0              | 0              |                |                |                |                |
| 10      | Karnataka        | C                          |   |                |                |                | 82             | 8              | 1              | 9              | 33             | 51             | 5              | 11             | NC             | NC             | NC             | NC             |
|         |                  | S                          |   |                |                |                | 88             | 5              | 3              | 4              | 93             | 2              | 2              | 3              | 92             | 4              | 2              | 2              |
|         |                  | P                          |   |                |                |                | 85             | 6              | 2              | 7              | 63             | 27             | 4              | 7              | 92             | 4              | 1              | 2              |
| 11      | Kerala           | C                          | 93  | 1              | 0              | 5              | 95             | 1              | 0              | 4              |                |                |                |                | 93             | 0              | 0              | 7              |
|         |                  | S                          | 96  | 1              | 1              | 2              | 95             | 1              | 2              | 2              |                |                |                |                | 77             | 0              | 0              | 22             |
|         |                  | P                          | 94  | 1              | 1              | 4              | 95             | 1              | 1              | 3              |                |                |                |                | 83             | 1              | 0              | 17             |
| 12      | Madhya Pradesh   | C                          |   |                |                |                | 75             | 8              | 5              | 11             | 77             | 9              | 5              | 10             |                |                |                |                |
|         |                  | S                          |   |                |                |                | 95             | 2              | 1              | 2              | 98             | 1              | 0              | 1              |                |                |                |                |
|         |                  | P                          |   |                |                |                | 84             | 5              | 3              | 7              | 85             | 5              | 3              | 6              |                |                |                |                |
| 13      | Maharashtra      | C                          |   |                |                |                | 35             | 34             | 2              | 30             | 51             | 10             | 4              | 34             | NC             | NC             | NC             | NC             |
|         |                  | S                          |   |                |                |                | 84             | 7              | 1              | 8              | 78             | 10             | 1              | 11             | 90             | 5              | 1              | 4              |
|         |                  | P                          |   |                |                |                | 61             | 19             | 1              | 18             | 69             | 10             | 2              | 20             | 90             | 5              | 1              | 4              |

| Sl. No.            | State         | A<br>G<br>E<br>N<br>C<br>Y | Percentage of survey numbers with different types of errors<br>in enumeration of area during |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
|--------------------|---------------|----------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                    |               |                            | KHARIF   |                |                |                |                |                |                |                | RABI           |                |                |                |                |                |                |                |
|                    |               |                            | Early Kharif   |                |                |                | Late Kharif    |                |                |                | RABI           |                |                |                | SUMMER         |                |                |                |
|                    |               |                            | e <sub>0</sub>   | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | e <sub>0</sub> | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | e <sub>0</sub> | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | e <sub>0</sub> | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> |
| 1                  | 2             | 3                          | 4  | 5              | 6              | 7              | 8              | 9              | 10             | 11             | 12             | 13             | 14             | 15             | 16             | 17             | 18             | 19             |
| 14                 | Odisha        | C                          | 100  | 0              | 0              | 0              | 100            | 0              | 0              | 0              |                |                |                |                | NC             | NC             | NC             | NC             |
|                    |               | S                          | 100  | 0              | 0              | 0              | 100            | 0              | 0              | 0              |                |                |                |                | 98             | 2              | 0              | 0              |
|                    |               | P                          | 100  | 0              | 0              | 0              | 100            | 0              | 0              | 0              |                |                |                |                | 98             | 2              | 0              | 0              |
| 15                 | Punjab        | C                          |  |                |                |                | 92             | 3              | 3              | 2              | 96             | 2              | 1              | 1              |                |                |                |                |
|                    |               | S                          |  |                |                |                | 98             | 1              | 0              | 1              | NC             | NC             | NC             | NC             |                |                |                |                |
|                    |               | P                          |  |                |                |                | 94             | 2              | 2              | 2              | 96             | 2              | 1              | 1              |                |                |                |                |
| 16                 | Rajasthan     | C                          |  |                |                |                | 68             | 9              | 4              | 19             | 79             | 7              | 3              | 11             |                |                |                |                |
|                    |               | S                          |  |                |                |                | 96             | 2              | 1              | 2              | 97             | 1              | 1              | 1              |                |                |                |                |
|                    |               | P                          |  |                |                |                | 82             | 5              | 2              | 10             | 88             | 4              | 2              | 6              |                |                |                |                |
| 17                 | Tamil Nadu    | C                          | 66   | 17             | 2              | 14             | 52             | 35             | 5              | 9              | 38             | 43             | 3              | 16             |                |                |                |                |
|                    |               | S                          | 72   | 19             | 2              | 7              | 80             | 12             | 3              | 5              | 97             | 1              | 1              | 1              |                |                |                |                |
|                    |               | P                          | 69   | 18             | 2              | 11             | 67             | 23             | 4              | 7              | 88             | 8              | 1              | 4              |                |                |                |                |
| 18                 | Telangana     | C                          |  |                |                |                | 0              | 100            | 0              | 0              | 0              | 100            | 0              | 0              |                |                |                |                |
|                    |               | S                          |  |                |                |                | 86             | 12             | 0              | 2              | 99             | 0              | 0              | 0              |                |                |                |                |
|                    |               | P                          |  |                |                |                | 54             | 45             | 0              | 1              | 73             | 26             | 0              | 0              |                |                |                |                |
| 19                 | Uttar Pradesh | C                          |  |                |                |                | 73             | 10             | 4              | 14             | 73             | 11             | 2              | 13             | 53             | 35             | 2              | 10             |
|                    |               | S                          |  |                |                |                | 89             | 3              | 3              | 5              | 89             | 4              | 2              | 5              | 87             | 11             | 0              | 1              |
|                    |               | P                          |  |                |                |                | 78             | 8              | 3              | 11             | 77             | 9              | 2              | 11             | 60             | 30             | 2              | 8              |
| 20                 | Uttarakhand   | C                          |  |                |                |                | 90             | 4              | 1              | 5              | 96             | 2              | 0              | 2              | 96             | 3              | 0              | 1              |
|                    |               | S                          |  |                |                |                | 96             | 2              | 1              | 2              | 93             | 2              | 3              | 3              | 69             | 30             | 1              | 0              |
|                    |               | P                          |  |                |                |                | 93             | 3              | 1              | 3              | 95             | 2              | 1              | 2              | 81             | 18             | 0              | 0              |
| 21                 | West Bengal   | C                          | 82   | 14             | 1              | 3              | 97             | 2              | 0              | 0              | 100            | 0              | 0              | 0              | NC             | NC             | NC             | NC             |
|                    |               | S                          | 88   | 9              | 0              | 3              | 98             | 2              | 0              | 0              | 88             | 12             | 0              | 0              | 98             | 0              | 0              | 3              |
|                    |               | P                          | 84   | 13             | 1              | 3              | 98             | 2              | 0              | 0              | 98             | 2              | 0              | 0              | 98             | 0              | 0              | 3              |
| 22                 | Puducherry    | C                          |  |                |                |                | 91             | 0              | 9              | 0              | 94             | 3              | 3              | 0              | 75             | 0              | 0              | 25             |
|                    |               | S                          |  |                |                |                | 96             | 0              | 0              | 4              | 92             | 3              | 2              | 2              | 100            | 0              | 0              | 0              |
|                    |               | P                          |  |                |                |                | 94             | 0              | 3              | 3              | 93             | 3              | 2              | 2              | 97             | 0              | 0              | 3              |
| For States covered |               | C                          | 75   | 14             | 1              | 9              | 70             | 17             | 3              | 11             | 72             | 17             | 3              | 9              | 83             | 9              | 1              | 8              |
|                    |               | S                          | 81   | 13             | 1              | 5              | 92             | 4              | 1              | 3              | 93             | 3              | 1              | 2              | 80             | 2              | 0              | 18             |
|                    |               | P                          | 78   | 14             | 1              | 7              | 81             | 10             | 2              | 7              | 81             | 11             | 2              | 6              | 81             | 4              | 0              | 3              |

## Note:

1. e<sub>0</sub> = No error
2. e<sub>1</sub> = Not reporting the crop which is actually grown in the survey numbers .
3. e<sub>2</sub> = Recording a crop as sown in the field when actually no crop has been sown in the field.
4. e<sub>3</sub> = Under (or) over assessment of the area under the crop sown in the field.
5. @ = Data could not be tabulated due to non-completion of Girdwari.
6. # =Observations do not reflect true picture of discrepancies in the State since primary worker's entries are not available for comparison for large number of samples.
- 7.\*- The Field work was not carried out for State sample during Summer season.
8. NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

## IMPACT OF ERRORS IN RECORDING CROP AREA DURING 2019-20

| Sl. No. | State            | A<br>G<br>E<br>N<br>C<br>Y | Ratio of area based on Patwari's & Supervisor's entries in sample clusters |        |        |        |        |        |        |        |        |            |            |        |        |        |                |
|---------|------------------|----------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|------------|------------|--------|--------|--------|----------------|
|         |                  |                            | Paddy  |        |        | Jowar  |        | Bajra  | Maize  | Ragi   | Cotton | Ground-nut | Sugar-cane | Wheat  | Barley | Gram   | Rape & Mustard |
|         |                  |                            | Aut.   | Wint.  | Sum.   | Kharif | Rabi   |        |        |        |        |            |            |        |        |        |                |
| 1       | 2                | 3                          | 4  | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 13         | 14         | 15     | 16     | 17     | 18             |
| 1       | Andhra Pradesh   | C                          |  | NC     | NC     | NC     | NC     | 0.0000 | 0.0000 |        | 0.0000 | 0.0000     | 0.0000     |        |        | 0.0000 |                |
|         |                  | S                          |  | 1.0440 | 1.0061 | 1.0061 | 0.0000 | 0.9347 | 0.0000 | NA     | 1.0436 | 1.0014     | 0.9950     |        |        | 0.9978 |                |
|         |                  | P                          |  | 1.0440 | 1.0061 | 1.0061 | 0.0000 | 0.9347 | 0.0000 |        | 1.0436 | 1.0014     | 0.9950     |        |        | 0.9978 |                |
| 2       | Assam @          | C                          |  |        |        |        |        |        |        |        |        |            |            |        |        |        |                |
|         |                  | S                          |  |        |        |        |        |        |        |        |        |            |            |        |        |        |                |
|         |                  | P                          |  |        |        |        |        |        |        |        |        |            |            |        |        |        |                |
| 3       | Bihar            | C #                        | NR   | NR     | NR     |        |        |        |        |        |        |            |            | NR     |        | NR     | NR             |
|         |                  | S                          | NC   | 0.9998 |        |        |        |        |        |        |        |            |            | 0.9932 |        | 1.0000 | 0.0000         |
|         |                  | P                          | NC   | 0.9998 |        |        |        |        |        |        |        |            |            | 0.9932 |        | 1.0000 | 0.0000         |
| 4       | Chhattisgarh     | C                          |  | 0.9833 |        |        |        |        | 1.0243 |        |        |            |            | 1.0016 |        | 1.0128 | 0.9469         |
|         |                  | S                          |  | 1.0017 |        |        |        |        | 0.9755 |        |        |            |            | 1.0000 |        | 1.0008 | 1.0000         |
|         |                  | P                          |  | 0.9932 |        |        |        |        | 0.9977 |        |        |            |            | 1.0006 |        | 1.0095 | 0.9726         |
| 5       | Gujarat          | C #                        |  |        |        |        |        |        |        |        |        |            |            |        |        |        |                |
|         |                  | S                          |  | 1.0108 |        |        |        | 0.0000 | 0.9955 |        | 0.0000 | 0.0000     |            | 0.9965 |        | 1.0000 |                |
|         |                  | P                          |  | 1.0108 |        |        |        | 0.0000 | 0.9955 |        | 0.0000 | 0.0000     |            | 0.9965 |        | 1.0000 |                |
| 6       | Haryana          | C                          |  | 0.9829 |        |        |        | 0.7896 | 0.0000 |        | 1.0285 |            | 0.4627     | 1.0327 | 1.0000 | 1.0426 | 1.0378         |
|         |                  | S                          |  | 1.0678 |        |        |        | 0.9868 | 0.0000 |        | 0.9953 |            | 1.0073     | 1.0000 | 1.0000 | 0.9789 | 1.0000         |
|         |                  | P                          |  | 1.0213 |        |        |        | 0.8554 | 1.0000 |        | 1.0122 |            | 0.6224     | 1.0174 | 1.0000 | 1.0332 | 1.0199         |
| 7       | Himachal Pradesh | C                          |  | 1.0604 |        |        |        |        | 1.2261 |        |        |            |            | 1.1244 | 1.3782 |        |                |
|         |                  | S                          |  | 1.0484 |        |        |        |        | 0.9922 |        |        |            |            | 0.8933 | 0.9949 |        |                |
|         |                  | P                          |  | 1.0531 |        |        |        |        | 1.1220 |        |        |            |            | 1.1126 | 1.1643 |        |                |
| 8       | Jammu & Kashmir  | C                          |  | 0.9560 |        |        |        |        | 1.0102 |        |        |            |            | NC     |        |        |                |
|         |                  | S                          |  | 1.0394 |        |        |        |        | 0.9957 |        |        |            |            | 1.1238 |        |        |                |
|         |                  | P                          |  | 1.0139 |        |        |        |        | 1.0031 |        |        |            |            | 1.1238 |        |        |                |
| 9       | Jharkhand @      | C                          |  |        |        |        |        |        |        |        |        |            |            |        |        |        |                |
|         |                  | S                          | 1.0000   | 1.0000 |        |        |        |        | 1.0000 |        |        |            |            |        |        |        |                |
|         |                  | P                          | 1.0000   | 1.0000 |        |        |        |        | 1.0000 |        |        |            |            |        |        |        |                |
| 10      | Karnataka        | C                          |  | 1.0127 | NC     | 0.9929 | 0.8493 | 0.9185 | 0.9764 | 0.9326 | 0.9388 | 1.0231     | 0.9346     | 1.0350 |        | 0.8700 |                |
|         |                  | S                          |  | 0.9587 | 1.0023 | 0.9572 | 1.1073 | 1.0603 | 1.0121 | 0.9723 | 1.0003 | 0.9930     | 0.9515     | 0.9777 |        | 1.0118 |                |
|         |                  | P                          |  | 0.9817 | 1.0023 | 0.9759 | 1.0320 | 0.9748 | 0.9939 | 0.9593 | 0.9731 | 1.0037     | 0.9438     | 0.9911 |        | 0.9578 |                |
| 11      | Kerala           | C                          | 0.9926   | 1.0010 | 1.0010 |        |        |        |        |        |        |            |            |        |        |        |                |
|         |                  | S                          | 0.9960   | 1.0201 | 0.9874 |        |        |        |        |        |        |            |            |        |        |        |                |
|         |                  | P                          | 0.9943   | 1.0111 | 0.9905 |        |        |        |        |        |        |            |            |        |        |        |                |
| 12      | Madhya Pradesh   | C                          |  | 0.9753 |        | 0.9838 |        |        | 1.0324 |        | 1.0017 | 0.9845     |            | 0.9927 |        | 0.9803 | 0.9503         |
|         |                  | S                          |  | 0.9933 |        | 1.0419 |        |        | 0.9871 |        | 1.0000 | 1.0051     |            | 1.0042 |        | 0.9818 | 0.9990         |
|         |                  | P                          |  | 0.9840 |        | 1.0134 |        |        | 1.0126 |        | 1.0012 | 0.9921     |            | 0.9975 |        | 0.9809 | 0.9607         |
| 13      | Maharashtra      | C                          |  | 1.0244 |        | 0.7755 | 0.8140 | 0.8272 |        |        | 0.6431 | 0.9252     | 1.6811     | 0.8303 |        | 0.9259 |                |
|         |                  | S                          |  | 0.9981 |        | 0.9690 | 0.9384 | 0.9663 |        |        | 1.0049 | 0.7812     | 0.9550     | 0.9645 |        | 0.9493 |                |
|         |                  | P                          |  | 1.0088 |        | 0.8536 | 0.9307 | 0.9507 |        |        | 0.8249 | 0.8050     | 1.0208     | 0.9141 |        | 0.9446 |                |
| 14      | Odisha           | C                          | 0.9977   | 1.0000 | NC     |        |        |        | 1.0000 |        |        |            |            |        |        |        |                |
|         |                  | S                          | 0.9999   | 1.0000 | 0.9524 |        |        |        | 1.0000 |        |        |            |            |        |        |        |                |
|         |                  | P                          | 0.9986   | 1.0000 | 0.9524 |        |        |        | 1.0000 |        |        |            |            |        |        |        |                |
| 15      | Punjab           | C                          |  | 0.9970 |        |        |        |        | 1.0674 |        | 0.9972 |            | 1.0182     | 1.0011 | 1.3281 | 1.5556 | 1.0000         |
|         |                  | S                          |  | 0.9985 |        |        |        |        | 1.0108 |        | 0.8645 |            | 1.0000     | NC     | NC     | 0.0000 | NC             |
|         |                  | P                          |  | 0.9975 |        |        |        |        | 1.0556 |        | 0.9637 |            | 1.0146     | 1.0011 | 1.3281 | 1.5556 | 1.0000         |
| 16      | Rajasthan        | C                          |  |        |        | 1.0003 |        | 1.0110 | 1.9061 |        | 1.0828 | 0.0000     | 0.0000     | 1.0057 | 0.9050 | 1.0025 | 0.9848         |
|         |                  | S                          |  |        |        | 1.0115 |        | 1.0439 | 1.0062 |        | 0.4434 | 0.0000     | 0.0000     | 1.0314 | 1.0127 | 0.9507 | 1.3204         |
|         |                  | P                          |  |        |        | 1.0029 |        | 1.0282 | 1.4301 |        | 0.5807 | 0.0000     | 0.0000     | 1.0191 | 0.9649 | 0.9743 | 1.1620         |

## ANNEX IV (b) (Contd.....)

| Sl. No.            | State         | A<br>G<br>E<br>N<br>C<br>Y | Ratio of area based on Patwari's & Supervisor's entries in sample clusters |        |        |        |        |        |        |        |        |            |            |        |        |        |                |  |
|--------------------|---------------|----------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|------------|------------|--------|--------|--------|----------------|--|
|                    |               |                            | Paddy  |        |        | Jowar  |        | Bajra  | Maize  | Ragi   | Cotton | Ground-nut | Sugar-cane | Wheat  | Barley | Gram   | Rape & Mustard |  |
|                    |               |                            | Aut.   | Wint.  | Sum.   | Kharif | Rabi   |        |        |        |        |            |            |        |        |        |                |  |
| 1                  | 2             | 3                          | 4  | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 13         | 14         | 15     | 16     | 17     | 18             |  |
| 17                 | Tamil Nadu    | C                          | 0.8479   | 0.8823 | 0.6832 | 3.1810 | 0.0000 | 1.0213 | 0.9191 | 0.0000 | 0.9648 | 0.9830     | 0.9830     |        |        |        |                |  |
|                    |               | S                          | 2.2406   | 0.9406 | 0.9942 | 0.8753 | 0.4585 | 1.0000 | 1.0013 | 0.0000 | 0.8365 | 0.9413     | 0.9413     |        |        |        |                |  |
|                    |               | P                          | 1.4435   | 0.9114 | 0.8203 | 2.3070 | 0.4585 | 1.0099 | 0.9457 | 0.0000 | 0.9162 | 0.9645     | 1.0368     |        |        |        |                |  |
| 18                 | Telangana     | C                          | 0.0000   | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | NC     | 0.0000     | 0.0000     |        |        |        |                |  |
|                    |               | S                          | 1.0466   | 0.0000 | 1.0005 | 1.0315 | 1.0000 | 0.0000 | 1.0041 | 0.0000 | 0.9677 | 1.0000     | 0.0000     |        |        |        |                |  |
|                    |               | P                          | 1.0466   | 0.0000 | 1.0005 | 1.0315 | 1.0000 | 0.0000 | 1.0041 | 0.0000 | 0.9677 | 1.0000     | 0.0000     |        |        |        |                |  |
| 19                 | Uttar Pradesh | C                          |  | 1.8494 |        | 0.9909 |        | 1.0045 | 1.0615 |        |        |            | 0.9913     | 1.0568 |        | 0.3469 | 1.0760         |  |
|                    |               | S                          |  | 0.9929 |        | 1.0042 |        | 1.0067 | 1.0650 |        |        |            | 1.0139     | 0.9846 |        | 1.0022 | 1.0300         |  |
|                    |               | P                          |  | 1.5885 |        | 0.9970 |        | 1.0049 | 1.0633 |        |        |            | 0.9983     | 1.0362 |        | 0.4062 | 1.0729         |  |
| 20                 | Uttara-khand  | C                          |  | 0.9475 |        |        |        |        |        | 1.7953 |        |            | 0.0000     | 0.9877 |        |        |                |  |
|                    |               | S                          |  | 1.0151 |        |        |        |        |        | 1.1077 |        |            | 0.9936     | 1.0135 |        |        |                |  |
|                    |               | P                          |  | 0.9797 |        |        |        |        |        | 1.4475 |        |            | 1.0038     | 0.9993 |        |        |                |  |
| 21                 | West Bengal   | C                          | 0.9570   | 0.9930 | NC     |        |        |        |        |        |        |            |            | NC     |        |        | 0.9310         |  |
|                    |               | S                          | 0.9091   | 0.9770 | NC     |        |        |        |        |        |        |            |            | 1.0000 |        |        | 1.0000         |  |
|                    |               | P                          | 0.9556   | 0.9880 | NC     |        |        |        |        |        |        |            |            | 1.0000 |        |        | 0.9972         |  |
| 22                 | Pudu-cherry * | C                          |  | NC     | 1.0281 |        |        |        |        |        |        |            |            |        |        |        |                |  |
|                    |               | S                          |  | 0.9353 | 1.0062 |        |        |        |        |        |        |            |            |        |        |        |                |  |
|                    |               | P                          |  | 0.9353 | 1.0135 |        |        |        |        |        |        |            |            |        |        |        |                |  |
| For states covered |               | C                          | 0.9068   | 1.1772 | 0.8731 | 1.1197 | 0.8388 | 0.9884 | 1.0485 | 0.9475 | 0.7360 | 0.9820     | 0.9758     | 1.0116 | 0.6417 | 0.8839 | 1.0220         |  |
|                    |               | S                          | 1.3484   | 1.0038 | 0.9991 | 0.9772 | 0.9830 | 1.0278 | 1.0079 | 0.9734 | 0.9594 | 0.9906     | 0.9698     | 1.0063 | 0.7604 | 0.9645 | 1.2462         |  |
|                    |               | P                          | 1.1853   | 1.0914 | 0.9886 | 1.0705 | 0.9633 | 1.0094 | 1.0267 | 0.9649 | 0.8689 | 0.9872     | 0.9727     | 1.0032 | 0.9708 | 0.9344 | 1.1121         |  |

## Note:-

- @ - Observations are not given due to insufficient data.
- # - Observations do not reflect true picture of discrepancies in the State since primary worker's entries are not available for comparison for large number of samples. Since data from only one agency is available, the same has been taken against pooled agency for comparison purpose.
- NA = Data Not available
- NR= Data Not Reported
- NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

## DISCREPANCIES IN RECORDING IRRIGATION PARTICULARS DURING 2019-20

| Sl. No. | State          | Season       | A<br>G<br>E<br>N<br>C<br>Y | Percentage of survey numbers in which particulars |    |       |             |    |    |       |         |    |     |       |    |
|---------|----------------|--------------|----------------------------|---|----|-------|-------------|----|----|-------|---------|----|-----|-------|----|
|         |                |              |                            | Tallied   |    |       | Not Tallied |    |    |       |         |    |     |       |    |
|         |                |              |                            |   |    |       | Supervisor  |    |    |       | Patwari |    |     |       |    |
|         |                |              |                            | Irr   | UI | Total | Irr         | UI | NR | Total | Irr     | UI | NR  | Total |    |
| 1       | 2              | 3            | 4                          | 5   | 6  | 7     | 8           | 9  | 10 | 11    | 12      | 13 | 14  | 15    |    |
| 1       | Andhra Pradesh | Kharif       | C                          | NC  | NC | NC    | NC          | NC | NC | NC    | NC      | NC | NC  | NC    | NC |
|         |                |              | S                          | 53  | 42 | 95    | 3           | 1  | 0  | 5     | 0       | 0  | 4   | 5     |    |
|         |                |              | P                          | 53  | 42 | 95    | 3           | 13 | 1  | 5     | 1       | 0  | 4   | 5     |    |
|         |                | Rabi         | C                          | 0   | 0  | 0     | 63          | 37 | 0  | 100   | 0       | 0  | 100 | 100   |    |
|         |                |              | S                          | 54  | 33 | 88    | 4           | 7  | 0  | 12    | 1       | 0  | 11  | 12    |    |
|         |                |              | P                          | 38  | 23 | 61    | 22          | 16 | 0  | 39    | 0       | 0  | 38  | 39    |    |
| 2       | Assam @        | Early Kharif | C                          |   |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | S                          |   |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | P                          |   |    |       |             |    |    |       |         |    |     |       |    |
|         |                | Late Kharif  | C                          |   |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | S                          |   |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | P                          |   |    |       |             |    |    |       |         |    |     |       |    |
|         |                | Rabi         | C                          |   |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | S                          |   |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | P                          |   |    |       |             |    |    |       |         |    |     |       |    |
|         |                | Summer       | C                          |   |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | S                          |   |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | P                          |   |    |       |             |    |    |       |         |    |     |       |    |
| 3       | Bihar #        | Bhadai       | C                          | NR  |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | S                          | 46  | 54 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |
|         |                |              | P^                         | 46  | 54 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |
|         |                | Aghani       | C                          | NR  |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | S                          | 89  | 0  | 89    | 11          | 0  | 0  | 11    | 0       | 0  | 11  | 11    |    |
|         |                |              | P^                         | 89  | 0  | 89    | 11          | 0  | 0  | 11    | 0       | 0  | 11  | 11    |    |
|         |                | Rabi         | C                          | NR  |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | S                          | 88  | 11 | 99    | 1           | 0  | 0  | 1     | 0       | 0  | 1   | 1     |    |
|         |                |              | P^                         | 88  | 11 | 99    | 1           | 0  | 0  | 1     | 0       | 0  | 1   | 1     |    |
|         |                | Summer       | C                          | NR  |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | S                          | 93  | 7  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |
|         |                |              | P^                         | 93  | 7  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |
| 4       | Chhattisgarh   | Kharif       | C                          | 27  | 65 | 92    | 3           | 5  | 1  | 8     | 0       | 3  | 5   | 8     |    |
|         |                |              | S                          | 27  | 71 | 98    | 0           | 1  | 0  | 2     | 0       | 0  | 1   | 2     |    |
|         |                |              | P                          | 27  | 68 | 95    | 1           | 3  | 1  | 5     | 0       | 2  | 3   | 5     |    |
|         |                | Rabi         | C                          | 52  | 43 | 95    | 1           | 3  | 1  | 5     | 0       | 1  | 4   | 5     |    |
|         |                |              | S                          | 33  | 67 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |
|         |                |              | P                          | 44  | 53 | 97    | 1           | 2  | 1  | 3     | 0       | 1  | 2   | 3     |    |
| 5       | Gujarat        | Kharif       | C                          | NR  |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | S                          | 10  | 89 | 99    | 0           | 1  | 0  | 1     | 1       | 0  | 0   | 1     |    |
|         |                |              | P^                         | 10  | 89 | 99    | 0           | 1  | 0  | 1     | 1       | 0  | 0   | 1     |    |
|         |                | Rabi         | C                          | NR  |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | S                          | 61  | 38 | 99    | 1           | 0  | 0  | 1     | 0       | 0  | 0   | 1     |    |
|         |                |              | P^                         | 61  | 38 | 99    | 1           | 0  | 0  | 1     | 0       | 0  | 0   | 1     |    |
|         |                | Summer       | C                          | NR  |    |       |             |    |    |       |         |    |     |       |    |
|         |                |              | S                          | 100   | 0  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |
|         |                |              | P^                         | 100   | 0  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |
| 6       | Haryana *      | Kharif       | C                          | 84  | 7  | 91    | 5           | 1  | 3  | 9     | 3       | 0  | 6   | 9     |    |
|         |                |              | S                          | 95  | 3  | 98    | 1           | 0  | 1  | 2     | 1       | 0  | 1   | 2     |    |
|         |                |              | P                          | 89  | 5  | 94    | 3           | 1  | 2  | 6     | 2       | 1  | 4   | 6     |    |
|         |                | Rabi         | C                          | 90  | 2  | 92    | 4           | 0  | 4  | 8     | 4       | 0  | 4   | 8     |    |
|         |                |              | S                          | 98  | 2  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |
|         |                |              | P                          | 94  | 2  | 96    | 2           | 0  | 2  | 4     | 2       | 0  | 2   | 4     |    |
|         |                | Summer       | C                          | 100   | 0  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |
|         |                |              | S                          | 0   | 0  | 0     | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |
|         |                |              | P                          | 100   | 0  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |

| S. No. | State            | Season    | A<br>G<br>E<br>N<br>C<br>Y | Percentage of survey numbers in which particulars |    |       |             |    |    |       |         |    |    |       |    |
|--------|------------------|-----------|----------------------------|---|----|-------|-------------|----|----|-------|---------|----|----|-------|----|
|        |                  |           |                            | Tallied   |    |       | Not Tallied |    |    |       |         |    |    |       |    |
|        |                  |           |                            |   |    |       | Supervisor  |    |    |       | Patwari |    |    |       |    |
|        |                  |           |                            | Irr   | UI | Total | Irr         | UI | NR | Total | Irr     | UI | NR | Total |    |
| 1      | 2                | 3         | 4                          | 5   | 6  | 7     | 8           | 9  | 10 | 11    | 12      | 13 | 14 | 15    |    |
| 7      | Himachal Pradesh | Kharif    | C                          | 14  | 67 | 81    | 2           | 7  | 10 | 19    | 1       | 10 | 8  | 19    |    |
|        |                  |           | S                          | 18  | 78 | 95    | 1           | 3  | 1  | 4     | 0       | 1  | 3  | 4     |    |
|        |                  |           |                            | P   | 16 | 72    | 88          | 1  | 5  | 5     | 12      | 1  | 6  | 6     | 12 |
|        |                  | Rabi      | C                          | 11  | 72 | 83    | 2           | 6  | 8  | 17    | 1       | 10 | 7  | 17    |    |
|        | S                |           | 3                          | 91  | 95 | 0     | 3           | 2  | 5  | 0     | 2       | 2  | 5  |       |    |
|        | P                |           | 8                          | 79  | 87 | 1     | 5           | 6  | 13 | 1     | 7       | 5  | 13 |       |    |
| 8      | Jammu & Kashmir  | Kharif    | C                          | 32  | 62 | 94    | 3           | 2  | 1  | 6     | 1       | 1  | 5  | 6     |    |
|        |                  |           | S                          | 52  | 46 | 99    | 1           | 0  | 0  | 1     | 0       | 0  | 1  | 1     |    |
|        |                  |           | P                          | 45  | 52 | 97    | 1           | 1  | 1  | 3     | 0       | 0  | 2  | 3     |    |
|        |                  | Rabi      | C                          | NC  | NC | NC    | NC          | NC | NC | NC    | NC      | NC | NC | NC    |    |
|        | S                |           | 70                         | 23  | 93 | 2     | 5           | 0  | 7  | 0     | 0       | 7  | 7  |       |    |
|        | P                |           | 70                         | 23  | 93 | 2     | 5           | 1  | 7  | 0     | 1       | 7  | 7  |       |    |
| 9      | Jharkhand @      | E. Kharif | C                          | NR  |    |       |             |    |    |       |         |    |    |       |    |
|        |                  |           | S                          | 5   | 79 | 85    | 0           | 15 | 0  | 15    | 0       | 0  | 15 | 15    |    |
|        |                  |           | P^                         | 3   | 47 | 50    | 0           | 50 | 0  | 50    | 0       | 0  | 50 | 50    |    |
|        |                  |           | L. Kharif                  | C   | NR |       |             |    |    |       |         |    |    |       |    |
|        |                  | S         |                            | 1   | 83 | 84    | 0           | 16 | 0  | 16    | 0       | 0  | 16 | 16    |    |
|        |                  | P^        |                            | 1   | 37 | 38    | 3           | 59 | 0  | 62    | 0       | 0  | 62 | 62    |    |
|        |                  |           | Rabi                       | C   | NR |       |             |    |    |       |         |    |    |       |    |
|        |                  | S         |                            | 35  | 48 | 83    | 0           | 17 | 0  | 17    | 0       | 0  | 17 | 17    |    |
|        |                  | P^        |                            | 35  | 48 | 83    | 0           | 17 | 0  | 17    | 0       | 0  | 17 | 17    |    |
|        |                  |           | Summer                     | C   | NR |       |             |    |    |       |         |    |    |       |    |
|        |                  | S         |                            | 0   | 0  | 0     | 0           | 0  | 0  | 0     | 0       | 0  | 0  | 0     |    |
|        |                  | P^        |                            | 0   | 0  | 0     | 0           | 0  | 0  | 0     | 0       | 0  | 0  | 0     |    |
| 10     | Karnataka        | Kharif    | C                          | 31  | 58 | 89    | 4           | 6  | 1  | 10    | 1       | 2  | 8  | 11    |    |
|        |                  |           | S                          | 32  | 60 | 91    | 2           | 3  | 3  | 8     | 1       | 2  | 5  | 8     |    |
|        |                  |           | P                          | 31  | 59 | 90    | 3           | 4  | 2  | 9     | 1       | 2  | 6  | 9     |    |
|        |                  |           | Rabi                       | C   | 26 | 16    | 42          | 26 | 26 | 5     | 57      | 2  | 4  | 51    | 57 |
|        |                  | S         |                            | 51  | 44 | 95    | 2           | 1  | 2  | 5     | 1       | 1  | 2  | 5     |    |
|        |                  | P         |                            | 39  | 30 | 69    | 14          | 13 | 4  | 31    | 2       | 3  | 27 | 31    |    |
|        |                  |           | Summer                     | C   | NC | NC    | NC          | NC | NC | NC    | NC      | NC | NC | NC    | NC |
|        |                  | S         |                            | 79  | 14 | 93    | 4           | 0  | 2  | 6     | 2       | 1  | 4  | 6     |    |
|        |                  | P         |                            | 79  | 14 | 93    | 4           | 0  | 1  | 6     | 1       | 1  | 4  | 6     |    |
|        |                  | 11        | Kerala                     | Autumn  | C  | 10    | 81          | 91 | 0  | 1     | 0       | 2  | 0  | 1     | 1  |
| S      | 34               |           |                            |   | 59 | 93    | 1           | 1  | 1  | 0     | 0       | 1  | 1  | 2     |    |
| P      | 17               |           |                            |   | 75 | 91    | 0           | 1  | 1  | 2     | 1       | 1  | 1  | 2     |    |
|        | Winter           |           |                            | C   | 21 | 74    | 94          | 0  | 1  | 0     | 2       | 1  | 1  | 1     | 2  |
| S      |                  |           |                            | 36  | 55 | 90    | 1           | 2  | 2  | 5     | 1       | 3  | 1  | 5     |    |
| P      |                  |           |                            | 28  | 65 | 92    | 1           | 1  | 1  | 3     | 1       | 1  | 1  | 3     |    |
|        | Summer           |           |                            | C   | 16 | 68    | 84          | 0  | 1  | 0     | 1       | 0  | 0  | 0     | 1  |
| S      |                  |           |                            | 20  | 63 | 82    | 0           | 1  | 0  | 1     | 0       | 0  | 0  | 1     |    |
| P      |                  |           |                            | 18  | 65 | 83    | 0           | 1  | 0  | 1     | 0       | 0  | 0  | 1     |    |
| 12     | Madhya Pradesh   | Kharif    | C                          | 10  | 76 | 86    | 1           | 8  | 5  | 14    | 1       | 4  | 8  | 14    |    |
|        |                  |           | S                          | 14  | 83 | 97    | 0           | 2  | 1  | 3     | 0       | 1  | 2  | 3     |    |
|        |                  |           | P                          | 12  | 79 | 91    | 1           | 5  | 3  | 9     | 1       | 3  | 5  | 9     |    |
|        |                  |           | Rabi                       | C   | 80 | 6     | 86          | 8  | 1  | 5     | 14      | 4  | 1  | 9     | 14 |
|        |                  | S         |                            | 82  | 17 | 99    | 1           | 0  | 0  | 1     | 0       | 0  | 1  | 1     |    |
|        |                  | P         |                            | 81  | 10 | 91    | 5           | 1  | 3  | 9     | 3       | 1  | 5  | 9     |    |
| 13     | Maharashtra      | Kharif    | C                          | 14  | 49 | 63    | 12          | 22 | 2  | 35    | 1       | 2  | 34 | 36    |    |
|        |                  |           | S                          | 31  | 60 | 91    | 4           | 3  | 1  | 8     | 1       | 1  | 7  | 8     |    |
|        |                  |           | P                          | 23  | 55 | 78    | 8           | 12 | 1  | 21    | 1       | 2  | 19 | 22    |    |
|        |                  |           | Rabi                       | C   | 15 | 5     | 20          | 53 | 25 | 1     | 79      | 0  | 1  | 79    | 80 |
|        |                  | S         |                            | 42  | 40 | 82    | 7           | 10 | 1  | 17    | 1       | 1  | 16 | 17    |    |
|        |                  | P         |                            | 23  | 16 | 40    | 39          | 20 | 1  | 59    | 0       | 1  | 59 | 60    |    |
|        |                  |           | Summer                     | C   | NC | NC    | NC          | NC | NC | NC    | NC      | NC | NC | NC    | NC |
|        |                  | S         |                            | 83  | 8  | 90    | 6           | 1  | 1  | 9     | 1       | 1  | 7  | 9     |    |
|        | P                | 83        | 8                          | 90  | 6  | 1     | 1           | 9  | 1  | 1     | 7       | 9  |    |       |    |

| S. No. | State         | Season   | A<br>G<br>E<br>N<br>C<br>Y | Percentage of survey numbers in which particulars |    |       |             |    |    |       |         |    |    |       |    |    |
|--------|---------------|----------|----------------------------|---|----|-------|-------------|----|----|-------|---------|----|----|-------|----|----|
|        |               |          |                            | Tallied   |    |       | Not Tallied |    |    |       |         |    |    |       |    |    |
|        |               |          |                            |   |    |       | Supervisor  |    |    |       | Patwari |    |    |       |    |    |
|        |               |          |                            | Irr   | UI | Total | Irr         | UI | NR | Total | Irr     | UI | NR | Total |    |    |
| 1      | 2             | 3        | 4                          | 5   | 6  | 7     | 8           | 9  | 10 | 11    | 12      | 13 | 14 | 15    |    |    |
| 14     | Odisha        | Autumn   | C                          | 13  | 87 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0  | 0     | 0  |    |
|        |               |          | S                          | 10  | 90 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0  | 0     | 0  |    |
|        |               |          | P                          | 11  | 89 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0  | 0     | 0  |    |
|        |               | Winter   | C                          | 1   | 98 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0  | 0     | 0  | 0  |
|        |               |          | S                          | 18  | 82 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0  | 0     | 0  | 0  |
|        |               |          | P                          | 10  | 90 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0  | 0     | 0  | 0  |
|        |               | Summer   | C                          | NC  | NC | NC    | NC          | NC | NC | NC    | NC      | NC | NC | NC    | NC | NC |
|        |               |          | S                          | 48  | 50 | 98    | 1           | 1  | 0  | 2     | 0       | 0  | 2  | 2     | 2  |    |
|        |               |          | P                          | 48  | 50 | 98    | 1           | 1  | 0  | 2     | 0       | 0  | 2  | 2     | 2  |    |
| 15     | Punjab        | Kharif   | C                          | 93  | 0  | 94    | 4           | 0  | 3  | 6     | 3       | 0  | 3  | 6     |    |    |
|        |               |          | S                          | 99  | 0  | 99    | 1           | 0  | 0  | 1     | 0       | 0  | 1  | 1     |    |    |
|        |               |          | P                          | 95  | 0  | 95    | 3           | 0  | 2  | 5     | 2       | 0  | 2  | 5     |    |    |
|        |               | Rabi     | C                          | 97  | 0  | 97    | 2           | 0  | 1  | 3     | 1       | 0  | 2  | 3     |    |    |
|        |               |          | S                          | NC  | NC | NC    | NC          | NC | NC | NC    | NC      | NC | NC | NC    | NC |    |
|        |               |          | P                          | 97  | 0  | 97    | 2           | 0  | 1  | 3     | 1       | 0  | 2  | 3     |    |    |
| 16     | Rajasthan     | Kharif   | C                          | 18  | 68 | 86    | 1           | 8  | 4  | 13    | 1       | 4  | 9  | 13    |    |    |
|        |               |          | S                          | 18  | 78 | 96    | 1           | 2  | 1  | 3     | 0       | 1  | 2  | 3     |    |    |
|        |               |          | P                          | 18  | 73 | 91    | 1           | 5  | 2  | 8     | 1       | 2  | 5  | 8     |    |    |
|        |               | Rabi     | C                          | 76  | 13 | 89    | 6           | 2  | 3  | 11    | 3       | 1  | 7  | 11    |    |    |
|        |               |          | S                          | 80  | 18 | 98    | 1           | 0  | 1  | 2     | 1       | 0  | 1  | 2     |    |    |
|        |               |          | P                          | 78  | 16 | 93    | 4           | 1  | 2  | 7     | 2       | 1  | 4  | 7     |    |    |
| 17     | Tamil Nadu    | Phase-I  | C                          | 44  | 32 | 76    | 6           | 13 | 2  | 20    | 2       | 3  | 17 | 22    |    |    |
|        |               |          | S                          | 45  | 30 | 75    | 6           | 13 | 2  | 21    | 2       | 2  | 19 | 22    |    |    |
|        |               |          | P                          | 45  | 31 | 76    | 6           | 13 | 2  | 20    | 2       | 2  | 18 | 22    |    |    |
|        |               | Phase-II | C                          | 46  | 13 | 58    | 12          | 25 | 5  | 41    | 2       | 5  | 35 | 41    |    |    |
|        |               |          | S                          | 59  | 23 | 82    | 10          | 3  | 3  | 16    | 2       | 1  | 12 | 16    |    |    |
|        |               |          | P                          | 53  | 18 | 71    | 10          | 13 | 4  | 27    | 2       | 3  | 23 | 27    |    |    |
|        |               | Rabi     | C                          | 30  | 23 | 54    | 0           | 42 | 3  | 45    | 0       | 3  | 43 | 46    |    |    |
|        |               |          | S                          | 78  | 20 | 98    | 1           | 0  | 1  | 2     | 1       | 0  | 1  | 2     |    |    |
|        |               |          | P                          | 70  | 20 | 91    | 1           | 6  | 1  | 8     | 1       | 0  | 8  | 9     |    |    |
| 18     | Telangana     | Kharif   | C                          | 0   | 0  | 0     | 0           | 0  | 0  | 0     | 0       | 0  | 0  | 0     |    |    |
|        |               |          | S                          | 38  | 49 | 87    | 8           | 4  | 0  | 13    | 0       | 1  | 12 | 13    |    |    |
|        |               |          | P                          | 24  | 31 | 55    | 24          | 21 | 0  | 45    | 0       | 0  | 45 | 45    |    |    |
|        |               | Rabi     | C                          | 0   | 0  | 0     | 0           | 0  | 0  | 0     | 0       | 0  | 0  | 0     |    |    |
|        |               |          | S                          | 90  | 9  | 99    | 0           | 0  | 0  | 1     | 0       | 0  | 0  | 1     |    |    |
|        |               |          | P                          | 66  | 7  | 73    | 24          | 3  | 0  | 27    | 0       | 0  | 26 | 27    |    |    |
| 19     | Uttar Pradesh | Kharif   | C                          | 62  | 23 | 85    | 7           | 4  | 4  | 15    | 3       | 2  | 10 | 15    |    |    |
|        |               |          | S                          | 77  | 16 | 93    | 3           | 1  | 3  | 7     | 2       | 1  | 3  | 7     |    |    |
|        |               |          | P                          | 67  | 21 | 87    | 6           | 3  | 3  | 12    | 3       | 2  | 8  | 12    |    |    |
|        |               | Rabi     | C                          | 82  | 4  | 86    | 10          | 1  | 2  | 14    | 3       | 0  | 11 | 14    |    |    |
|        |               |          | S                          | 88  | 5  | 94    | 4           | 0  | 2  | 6     | 2       | 0  | 4  | 6     |    |    |
|        |               |          | P                          | 84  | 4  | 88    | 9           | 1  | 2  | 12    | 2       | 0  | 9  | 12    |    |    |
|        |               | Summer   | C                          | 60  | 3  | 63    | 33          | 2  | 2  | 37    | 2       | 0  | 35 | 37    |    |    |
|        |               |          | S                          | 88  | 0  | 88    | 11          | 0  | 0  | 12    | 0       | 0  | 11 | 12    |    |    |
|        |               |          | P                          | 66  | 2  | 68    | 28          | 2  | 2  | 31    | 2       | 0  | 30 | 32    |    |    |
| 20     | Uttarakhand   | Kharif   | C                          | 49  | 45 | 94    | 3           | 2  | 1  | 6     | 1       | 1  | 4  | 6     |    |    |
|        |               |          | S                          | 50  | 48 | 97    | 1           | 1  | 1  | 2     | 0       | 1  | 2  | 2     |    |    |
|        |               |          | P                          | 49  | 46 | 95    | 2           | 2  | 1  | 4     | 1       | 1  | 3  | 4     |    |    |
|        |               | Rabi     | C                          | 61  | 37 | 98    | 2           | 0  | 0  | 2     | 0       | 0  | 2  | 2     |    |    |
|        |               |          | S                          | 60  | 36 | 95    | 2           | 0  | 3  | 5     | 2       | 0  | 2  | 5     |    |    |
|        |               |          | P                          | 60  | 36 | 97    | 2           | 0  | 1  | 3     | 1       | 0  | 2  | 3     |    |    |
|        |               | Summer   | C                          | 96  | 1  | 97    | 3           | 0  | 0  | 3     | 0       | 0  | 3  | 3     |    |    |
|        |               |          | S                          | 68  | 1  | 69    | 30          | 0  | 1  | 31    | 1       | 0  | 30 | 31    |    |    |
|        |               |          | P                          | 81  | 1  | 82    | 18          | 0  | 0  | 18    | 1       | 1  | 18 | 18    |    |    |

| S. No. | State              | Season       | A<br>G<br>E<br>N<br>C<br>Y | Percentage of survey numbers in which particulars |             |       |             |    |    |       |         |    |    |       |      |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|--------|--------------------|--------------|----------------------------|---|-------------|-------|-------------|----|----|-------|---------|----|----|-------|------|--------|--------------------|---|----|----|----|---|----|---|----|---|---|----|----|
|        |                    |              |                            | Tallied   |             |       | Not Tallied |    |    |       |         |    |    |       |      |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    |              |                            |   |             |       | Supervisor  |    |    |       | Patwari |    |    |       |      |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    |              |                            | Irr   | UI          | Total | Irr         | UI | NR | Total | Irr     | UI | NR | Total |      |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
| 1      | 2                  | 3            | 4                          | 5   | 6           | 7     | 8           | 9  | 10 | 11    | 12      | 13 | 14 | 15    |      |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
| 21     | West Bengal        | Early Kharif | C                          | NOT APPLICABLE                                    |             |       |             |    |    |       |         |    |    |       |      |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    |              | S                          |   |             |       |             |    |    |       |         |    |    |       |      |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    | P            | Late Kharif                |   |             |       |             |    |    |       |         |    |    |       | C    |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    |              |                            |   |             |       |             |    |    |       |         |    |    |       | S    |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    | P            |                            |   |             |       |             |    |    |       |         |    |    |       | Rabi | C      |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    |              |                            |   |             |       |             |    |    |       |         |    |    |       |      | S      |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    | P            |                            |   |             |       |             |    |    |       |         |    |    |       |      | Summer | C                  |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    |              |                            |   |             |       |             |    |    |       |         |    |    |       |      |        | S                  |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    | P            |                            |   |             |       |             |    |    |       |         |    |    |       |      |        | FOR STATES COVERED | C | 28 | 52 | 80 | 3 | 11 | 1 | 16 | 1 | 2 | 14 | 17 |
|        |                    |              |                            |   |             |       |             |    |    |       |         |    |    |       |      |        |                    | S | 36 | 47 | 83 | 4 | 9  | 1 | 14 | 1 | 1 | 13 | 16 |
| P      | Early Kharif       | C            |                            | 32  | 49          | 81    | 4           | 10 | 1  | 15    | 1       | 1  | 14 | 16    |      |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    | S            |                            | 34  | 45          | 80    | 7           | 10 | 3  | 20    | 1       | 2  | 17 | 20    |      |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
| P      |                    | Late Kharif  | C                          | 41  | 53          | 94    | 3           | 2  | 1  | 6     | 1       | 1  | 4  | 6     |      |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    |              | S                          | 38  | 49          | 87    | 5           | 6  | 2  | 13    | 1       | 2  | 10 | 13    |      |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
| P      |                    |              | Rabi                       | C   | 62          | 10    | 72          | 18 | 7  | 3     | 28      | 2  | 1  | 25    | 28   |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    |              |                            | S   | 71          | 24    | 95          | 2  | 2  | 1     | 5       | 1  | 0  | 4     | 5    |        |                    |   |    |    |    |   |    |   |    |   |   |    |    |
| P      |                    |              |                            | Summer  | C           | 66    | 16          | 81 | 11 | 5     | 2       | 18 | 2  | 1     | 16   | 18     |                    |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    |              |                            |   | S           | 28    | 50          | 79 | 8  | 1     | 1       | 10 | 1  | 0     | 9    | 10     |                    |   |    |    |    |   |    |   |    |   |   |    |    |
| P      |                    |              |                            |   | All seasons | C     | 33          | 52 | 85 | 2     | 1       | 0  | 3  | 0     | 0    | 2      | 3                  |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    |              |                            |   |             | S     | 31          | 51 | 83 | 4     | 1       | 0  | 5  | 0     | 0    | 4      | 5                  |   |    |    |    |   |    |   |    |   |   |    |    |
| P      | FOR STATES COVERED |              |                            |   |             | C     | 43          | 34 | 77 | 11    | 9       | 2  | 22 | 2     | 2    | 19     | 22                 |   |    |    |    |   |    |   |    |   |   |    |    |
|        |                    |              |                            |   |             | S     | 48          | 45 | 92 | 3     | 2       | 1  | 6  | 1     | 1    | 4      | 6                  |   |    |    |    |   |    |   |    |   |   |    |    |
| P      |                    | All seasons  |                            |   |             | C     | 45          | 39 | 84 | 7     | 6       | 2  | 14 | 1     | 1    | 12     | 14                 |   |    |    |    |   |    |   |    |   |   |    |    |

Note:

1. @ - Observations are not given due to insufficient data.
2. # - Observations do not reflect the true picture of discrepancies in the State since primary worker's entries are not available for comparison for large number of samples.
3. \* - The Field work was not carried out for State sample during Summer season.
4. \$ - Recording of irrigation particulars discontinued as per the decision taken in 21st STC meeting in 1988.
5. P^ - Since data from only one agency is available, the same has been taken against pooled agency for comparison purpose.
6. NR - Not Reported.
7. NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

## DISCREPANCIES IN RECORDING SEED VARIETY PARTICULARS DURING 2019-20

| Sl. No. | State            | Season       | A<br>G<br>E<br>N<br>C<br>Y | Percentage of survey numbers in which particulars |     |       |             |    |    |       |         |    |     |       |  |  |  |
|---------|------------------|--------------|----------------------------|---|-----|-------|-------------|----|----|-------|---------|----|-----|-------|--|--|--|
|         |                  |              |                            | Tallied   |     |       | Not Tallied |    |    |       |         |    |     |       |  |  |  |
|         |                  |              |                            |   |     |       | Supervisor  |    |    |       | Patwari |    |     |       |  |  |  |
|         |                  |              |                            | HY  | L   | Total | HY          | L  | NR | Total | HY      | L  | NR  | Total |  |  |  |
| 1       | 2                | 3            | 4                          | 5   | 6   | 7     | 8           | 9  | 10 | 11    | 12      | 13 | 14  | 15    |  |  |  |
| 1       | Andhra Pradesh   | Kharif       | C                          | NC  | NC  | NC    | NC          | NC | NC | NC    | NC      | NC | NC  | NC    |  |  |  |
|         |                  |              | S                          | 80  | 15  | 95    | 4           | 0  | 0  | 5     | 1       | 0  | 4   | 5     |  |  |  |
|         |                  |              | P                          | 80  | 15  | 95    | 4           | 4  | 1  | 5     | 2       | 0  | 4   | 5     |  |  |  |
|         |                  | Rabi         | C                          | 0   | 0   | 0     | 91          | 9  | 0  | 100   | 0       | 0  | 100 | 100   |  |  |  |
|         |                  |              | S                          | 74  | 13  | 88    | 11          | 0  | 0  | 12    | 1       | 0  | 11  | 12    |  |  |  |
|         |                  |              | P                          | 52  | 9   | 61    | 35          | 3  | 0  | 39    | 1       | 0  | 38  | 39    |  |  |  |
| 2       | Assam @          | Early Kharif | C                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | S                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | P                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  | Late Kharif  | C                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | S                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | P                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  | Rabi         | C                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | S                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | P                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  | Summer       | C                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | S                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | P                          |   |     |       |             |    |    |       |         |    |     |       |  |  |  |
| 3       | Bihar #          | Bhadai       | C                          | NR  |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | S                          | 24  | 76  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
|         |                  |              | P^                         | 24  | 76  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
|         |                  | Aghani       | C                          | NR  |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | S                          | 24  | 76  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
|         |                  |              | P^                         | 24  | 76  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
|         |                  | Rabi         | C                          | NR  |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | S                          | 72  | 27  | 99    | 28          | 0  | 0  | 1     | 0       | 0  | 1   | 1     |  |  |  |
|         |                  |              | P^                         | 72  | 27  | 99    | 28          | 0  | 0  | 1     | 0       | 0  | 1   | 1     |  |  |  |
|         |                  | Summer       | C                          | NR  |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | S                          | 0   | 100 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
|         |                  |              | P^                         | 0   | 100 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
| 4       | Chhattisgarh     | Kharif       | C                          | 64  | 29  | 93    | 3           | 3  | 1  | 7     | 1       | 2  | 5   | 7     |  |  |  |
|         |                  |              | S                          | 79  | 20  | 99    | 0           | 1  | 0  | 1     | 0       | 0  | 1   | 1     |  |  |  |
|         |                  |              | P                          | 71  | 25  | 96    | 2           | 2  | 1  | 4     | 0       | 1  | 3   | 4     |  |  |  |
|         |                  | Rabi         | C                          | 39  | 56  | 95    | 1           | 3  | 1  | 5     | 0       | 1  | 4   | 5     |  |  |  |
|         |                  |              | S                          | 34  | 66  | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
|         |                  |              | P                          | 37  | 60  | 97    | 1           | 2  | 1  | 3     | 0       | 1  | 2   | 3     |  |  |  |
| 5       | Gujarat          | Kharif       | C                          | NR  |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | S                          | 53  | 46  | 99    | 0           | 1  | 0  | 1     | 1       | 0  | 0   | 1     |  |  |  |
|         |                  |              | P^                         | 53  | 46  | 99    | 0           | 1  | 0  | 1     | 1       | 0  | 0   | 1     |  |  |  |
|         |                  | Rabi         | C                          | NR  |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | S                          | 37  | 63  | 99    | 0           | 0  | 0  | 1     | 0       | 0  | 0   | 1     |  |  |  |
|         |                  |              | P^                         | 37  | 63  | 99    | 0           | 0  | 0  | 1     | 0       | 0  | 0   | 1     |  |  |  |
|         |                  | Summer       | C                          | NR  |     |       |             |    |    |       |         |    |     |       |  |  |  |
|         |                  |              | S                          | 100   | 0   | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
|         |                  |              | P^                         | 100   | 0   | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
| 6       | Haryana *        | Kharif       | C                          | 89  | 2   | 91    | 6           | 0  | 3  | 9     | 3       | 0  | 6   | 9     |  |  |  |
|         |                  |              | S                          | 96  | 2   | 98    | 1           | 0  | 1  | 2     | 1       | 0  | 1   | 2     |  |  |  |
|         |                  |              | P                          | 92  | 2   | 94    | 4           | 1  | 2  | 6     | 2       | 0  | 4   | 6     |  |  |  |
|         |                  | Rabi         | C                          | 91  | 1   | 93    | 4           | 0  | 4  | 7     | 4       | 0  | 4   | 7     |  |  |  |
|         |                  |              | S                          | 95  | 5   | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
|         |                  |              | P                          | 93  | 3   | 96    | 2           | 0  | 2  | 4     | 2       | 0  | 2   | 4     |  |  |  |
|         |                  | Summer       | C                          | 100   | 0   | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
|         |                  |              | S                          | 0   | 0   | 0     | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
|         |                  |              | P                          | 100   | 0   | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |  |  |  |
| 7       | Himachal Pradesh | Kharif       | C                          | 32  | 39  | 71    | 15          | 4  | 10 | 28    | 3       | 18 | 8   | 29    |  |  |  |
|         |                  |              | S                          | 54  | 40  | 95    | 1           | 3  | 1  | 5     | 1       | 1  | 3   | 5     |  |  |  |
|         |                  |              | P                          | 43  | 39  | 82    | 8           | 3  | 5  | 17    | 2       | 10 | 6   | 18    |  |  |  |
|         |                  | Rabi         | C                          | 33  | 38  | 71    | 18          | 2  | 8  | 28    | 1       | 21 | 7   | 29    |  |  |  |
|         |                  |              | S                          | 50  | 44  | 94    | 1           | 1  | 2  | 5     | 0       | 2  | 2   | 5     |  |  |  |
|         |                  |              | P                          | 39  | 40  | 79    | 12          | 2  | 6  | 20    | 1       | 14 | 5   | 21    |  |  |  |
| 8       | Jammu & Kashmir  | Kharif       | C                          | 36  | 56  | 92    | 4           | 3  | 1  | 8     | 1       | 2  | 5   | 8     |  |  |  |
|         |                  |              | S                          | 64  | 35  | 99    | 0           | 0  | 0  | 1     | 0       | 0  | 1   | 1     |  |  |  |
|         |                  |              | P                          | 53  | 43  | 96    | 2           | 1  | 1  | 4     | 1       | 1  | 2   | 4     |  |  |  |
|         |                  | Rabi         | C                          | NC  | NC  | NC    | NC          | NC | NC | NC    | NC      | NC | NC  | NC    |  |  |  |
|         |                  |              | S                          | 87  | 5   | 92    | 2           | 6  | 0  | 8     | 1       | 0  | 7   | 8     |  |  |  |
|         |                  |              | P                          | 87  | 5   | 92    | 2           | 6  | 1  | 8     | 1       | 0  | 7   | 8     |  |  |  |

| Sl. No. | State          | Season       | A<br>G<br>E<br>N<br>C<br>Y | Percentage of survey numbers in which particulars |    |       |             |     |    |       |         |    |    |       |    |    |
|---------|----------------|--------------|----------------------------|---|----|-------|-------------|-----|----|-------|---------|----|----|-------|----|----|
|         |                |              |                            | Tallied   |    |       | Not Tallied |     |    |       |         |    |    |       |    |    |
|         |                |              |                            |   |    |       | Supervisor  |     |    |       | Patwari |    |    |       |    |    |
|         |                |              |                            | HY  | L  | Total | HY          | L   | NR | Total | HY      | L  | NR | Total |    |    |
| 5       | 6              | 7            | 8                          | 9   | 10 | 11    | 12          | 13  | 14 | 15    |         |    |    |       |    |    |
| 9       | Jharkhand @    | Early Kharif | C                          | NR  |    |       |             |     |    |       |         |    |    |       |    |    |
|         |                |              | S                          | 6   | 79 | 85    | 0           | 15  | 0  | 15    | 0       | 0  | 15 | 15    |    |    |
|         |                |              | P^                         | 3   | 46 | 50    | 7           | 42  | 0  | 50    | 0       | 0  | 50 | 50    |    |    |
|         |                | Late Kharif  | C                          | NR  |    |       |             |     |    |       |         |    |    |       |    |    |
|         |                |              | S                          | 5   | 79 | 84    | 0           | 16  | 0  | 16    | 0       | 0  | 16 | 16    |    |    |
|         |                |              | P^                         | 2   | 36 | 38    | 20          | 42  | 0  | 62    | 0       | 0  | 62 | 62    |    |    |
|         |                | Rabi         | C                          | NR  |    |       |             |     |    |       |         |    |    |       |    |    |
|         |                |              | S                          | 2   | 81 | 83    | 17          | 0   | 0  | 17    | 0       | 0  | 17 | 17    |    |    |
|         |                |              | P^                         | 2   | 81 | 83    | 17          | 0   | 0  | 17    | 0       | 0  | 17 | 17    |    |    |
|         |                | Summer       | C                          | NR  |    |       |             |     |    |       |         |    |    |       |    |    |
|         |                |              | S                          | 0   | 0  | 0     | 0           | 0   | 0  | 0     | 0       | 0  | 0  | 0     |    |    |
|         |                |              | P^                         | 0   | 0  | 0     | 0           | 0   | 0  | 0     | 0       | 0  | 0  | 0     |    |    |
| 10      | Karnataka      | Kharif       | C                          | 64  | 26 | 89    | 6           | 2   | 1  | 10    | 2       | 1  | 8  | 10    |    |    |
|         |                |              | S                          | 78  | 12 | 90    | 6           | 1   | 3  | 9     | 3       | 2  | 5  | 9     |    |    |
|         |                |              | P                          | 71  | 19 | 90    | 6           | 1   | 2  | 9     | 2       | 1  | 6  | 10    |    |    |
|         |                | Rabi         | C                          | 34  | 8  | 42    | 36          | 16  | 5  | 57    | 3       | 3  | 51 | 57    |    |    |
|         |                |              | S                          | 72  | 23 | 95    | 2           | 0   | 2  | 4     | 2       | 0  | 2  | 4     |    |    |
|         |                |              | P                          | 53  | 16 | 69    | 19          | 8   | 4  | 30    | 3       | 1  | 27 | 31    |    |    |
|         |                | Summer       | C                          | 75  | 0  | 75    | 24          | 1   | 0  | 25    | 0       | 0  | 25 | 25    |    |    |
|         |                |              | S                          | 57  | 42 | 99    | 0           | 0   | 0  | 0     | 0       | 0  | 0  | 0     |    |    |
|         |                |              | P                          | 64  | 25 | 89    | 10          | 0   | 1  | 10    | 0       | 0  | 10 | 10    |    |    |
|         |                | 11           | Kerala                     | Autumn  | C  | 12    | 85          | 97  | 0  | 1     | 0       | 2  | 0  | 0     | 1  | 1  |
|         |                |              |                            |   | S  | 37    | 58          | 96  | 1  | 1     | 1       | 2  | 1  | 0     | 1  | 2  |
|         |                |              |                            |   | P  | 20    | 77          | 97  | 0  | 1     | 1       | 2  | 1  | 0     | 1  | 2  |
| Winter  | C              |              |                            | 19  | 79 | 98    | 0           | 1   | 0  | 1     | 0       | 0  | 1  | 1     |    |    |
|         | S              |              |                            | 37  | 57 | 93    | 1           | 1   | 2  | 4     | 2       | 1  | 1  | 4     |    |    |
|         | P              |              |                            | 28  | 68 | 96    | 0           | 1   | 1  | 2     | 1       | 0  | 1  | 2     |    |    |
| Summer  | C              |              |                            | 3   | 96 | 99    | 0           | 0   | 0  | 0     | 0       | 0  | 0  | 1     |    |    |
|         | S              |              |                            | 6   | 91 | 96    | 0           | 0   | 0  | 1     | 0       | 0  | 0  | 1     |    |    |
|         | P              |              |                            | 5   | 93 | 97    | 0           | 0   | 0  | 1     | 0       | 0  | 0  | 1     |    |    |
| 12      | Madhya Pradesh |              |                            | Kharif  | C  | 44    | 41          | 85  | 4  | 6     | 5       | 15 | 2  | 5     | 8  | 15 |
|         |                |              |                            |   | S  | 59    | 39          | 97  | 1  | 1     | 1       | 3  | 1  | 1     | 2  | 3  |
|         |                |              |                            |   | P  | 50    | 40          | 90  | 3  | 4     | 3       | 10 | 1  | 3     | 5  | 10 |
|         |                | Rabi         | C                          | 55  | 30 | 85    | 4           | 7   | 5  | 15    | 1       | 5  | 9  | 15    |    |    |
|         |                |              | S                          | 60  | 39 | 99    | 1           | 0   | 0  | 1     | 0       | 0  | 1  | 1     |    |    |
|         |                |              | P                          | 57  | 34 | 90    | 2           | 4   | 3  | 10    | 1       | 3  | 5  | 10    |    |    |
|         |                | 13           | Maharashtra                | Kharif  | C  | 58    | 6           | 64  | 26 | 8     | 2       | 36 | 2  | 1     | 34 | 36 |
|         |                |              |                            |   | S  | 74    | 11          | 85  | 12 | 1     | 1       | 14 | 1  | 7     | 7  | 14 |
|         |                |              |                            |   | P  | 67    | 9           | 75  | 19 | 4     | 1       | 24 | 1  | 4     | 19 | 24 |
|         |                |              |                            | Rabi  | C  | 17    | 3           | 20  | 63 | 16    | 1       | 80 | 0  | 1     | 79 | 80 |
|         |                |              |                            |   | S  | 67    | 15          | 82  | 14 | 2     | 1       | 17 | 2  | 0     | 16 | 18 |
|         |                |              |                            |   | P  | 33    | 7           | 40  | 48 | 12    | 1       | 60 | 1  | 1     | 59 | 60 |
| Summer  | C              |              |                            | NC  | NC | NC    | NC          | NC  | NC | NC    | NC      | NC | NC | NC    |    |    |
|         | S              |              |                            | 78  | 11 | 89    | 6           | 1   | 1  | 9     | 1       | 1  | 7  | 9     |    |    |
|         | P              |              |                            | 78  | 11 | 89    | 6           | 1   | 1  | 9     | 1       | 1  | 7  | 9     |    |    |
| 14      | Odisha         |              |                            | Autumn  | C  | 95    | 5           | 100 | 0  | 0     | 0       | 0  | 0  | 0     | 0  | 0  |
|         |                |              |                            |   | S  | 78    | 22          | 100 | 0  | 0     | 0       | 0  | 0  | 0     | 0  | 0  |
|         |                |              |                            |   | P  | 86    | 13          | 100 | 0  | 0     | 0       | 0  | 0  | 0     | 0  | 0  |
|         |                | Winter       | C                          | 99  | 1  | 100   | 0           | 0   | 0  | 0     | 0       | 0  | 0  | 0     |    |    |
|         |                |              | S                          | 96  | 4  | 100   | 0           | 0   | 0  | 0     | 0       | 0  | 0  | 0     |    |    |
|         |                |              | P                          | 98  | 2  | 100   | 0           | 0   | 0  | 0     | 0       | 0  | 0  | 0     |    |    |
|         |                | Summer       | C                          | NC  | NC | NC    | NC          | NC  | NC | NC    | NC      | NC | NC | NC    |    |    |
|         |                |              | S                          | 39  | 59 | 98    | 1           | 1   | 0  | 2     | 0       | 0  | 2  | 2     |    |    |
|         |                |              | P                          | 39  | 59 | 98    | 1           | 1   | 0  | 2     | 0       | 0  | 2  | 2     |    |    |
|         |                | 15           | Punjab                     | Kharif  | C  | 45    | 5           | 49  | 48 | 0     | 3       | 51 | 1  | 47    | 3  | 51 |
|         |                |              |                            |   | S  | 87    | 1           | 88  | 12 | 0     | 0       | 12 | 0  | 11    | 1  | 12 |
|         |                |              |                            |   | P  | 59    | 4           | 62  | 36 | 0     | 2       | 38 | 1  | 35    | 2  | 38 |
| Rabi    | C              |              |                            | 50  | 11 | 61    | 38          | 0   | 1  | 39    | 0       | 36 | 2  | 39    |    |    |
|         | S              |              |                            | NC  | NC | NC    | NC          | NC  | NC | NC    | NC      | NC | NC | NC    |    |    |
|         | P              |              |                            | 50  | 11 | 61    | 38          | 1   | 1  | 39    | 0       | 36 | 2  | 39    |    |    |
| 16      | Rajasthan      |              |                            | Kharif  | C  | 49    | 36          | 85  | 7  | 4     | 4       | 14 | 3  | 3     | 9  | 15 |
|         |                |              |                            |   | S  | 46    | 49          | 95  | 2  | 1     | 1       | 4  | 1  | 1     | 2  | 4  |
|         |                |              |                            |   | P  | 48    | 43          | 90  | 4  | 2     | 2       | 9  | 2  | 2     | 5  | 9  |
|         |                |              |                            | Rabi  | C  | 63    | 25          | 88  | 5  | 3     | 3       | 12 | 2  | 3     | 7  | 12 |
|         |                |              |                            |   | S  | 72    | 25          | 98  | 1  | 0     | 1       | 2  | 0  | 0     | 1  | 2  |
|         |                |              |                            |   | P  | 68    | 25          | 93  | 3  | 2     | 2       | 7  | 1  | 2     | 4  | 7  |

| Sl. No.            | State       | Season       | A G E N C Y   | Percentage of survey numbers in which particulars |     |       |             |    |    |       |         |    |     |       |    |    |  |
|--------------------|-------------|--------------|---------------|---|-----|-------|-------------|----|----|-------|---------|----|-----|-------|----|----|--|
|                    |             |              |               | Tallied   |     |       | Not Tallied |    |    |       |         |    |     |       |    |    |  |
|                    |             |              |               | HY  | L   | Total | Supervisor  |    |    |       | Patwari |    |     |       |    |    |  |
|                    |             |              |               |   |     |       | HY          | L  | NR | Total | HY      | L  | NR  | Total |    |    |  |
| 1                  | 2           | 3            | 4             | 5   | 6   | 7     | 8           | 9  | 10 | 11    | 12      | 13 | 14  | 15    |    |    |  |
| 17                 | Tamil Nadu  | Phase-I      | C             | 59  | 12  | 71    | 14          | 11 | 2  | 27    | 2       | 8  | 17  | 28    |    |    |  |
|                    |             |              | S             | 61  | 15  | 76    | 9           | 10 | 2  | 21    | 3       | 0  | 19  | 22    |    |    |  |
|                    |             |              | P             | 60  | 14  | 73    | 12          | 11 | 2  | 24    | 2       | 4  | 18  | 25    |    |    |  |
|                    |             | Phase-II     | C             | 43  | 9   | 52    | 24          | 19 | 5  | 48    | 0       | 13 | 35  | 48    |    |    |  |
|                    |             |              | S             | 71  | 11  | 81    | 11          | 2  | 3  | 15    | 2       | 1  | 12  | 16    |    |    |  |
|                    |             |              | P             | 58  | 10  | 68    | 17          | 10 | 4  | 30    | 1       | 7  | 23  | 31    |    |    |  |
|                    |             | Rabi         | C             | 30  | 23  | 54    | 0           | 43 | 3  | 46    | 1       | 1  | 43  | 46    |    |    |  |
|                    |             |              | S             | 88  | 9   | 97    | 1           | 0  | 1  | 2     | 1       | 0  | 1   | 2     |    |    |  |
|                    |             |              | P             | 80  | 11  | 91    | 1           | 7  | 1  | 9     | 1       | 0  | 8   | 9     |    |    |  |
| 18                 | Telangana   | Kharif       | C             | 0   | 0   | 0     | 90          | 10 | 0  | 100   | 0       | 0  | 100 | 100   |    |    |  |
|                    |             |              | S             | 79  | 8   | 87    | 12          | 0  | 0  | 13    | 0       | 0  | 12  | 13    |    |    |  |
|                    |             |              | P             | 50  | 5   | 55    | 41          | 4  | 0  | 45    | 0       | 0  | 45  | 45    |    |    |  |
|                    |             | Rabi         | C             | 0   | 0   | 0     | 87          | 13 | 0  | 100   | 0       | 0  | 100 | 100   |    |    |  |
|                    |             |              | S             | 96  | 3   | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |    |  |
|                    |             |              | P             | 71  | 3   | 73    | 23          | 4  | 0  | 27    | 0       | 0  | 26  | 27    |    |    |  |
|                    |             | 19           | Uttar Pradesh | Kharif  | C   | 73    | 12          | 85 | 8  | 2     | 4       | 14 | 3   | 1     | 10 | 14 |  |
|                    |             |              |               |   | S   | 85    | 9           | 94 | 3  | 1     | 3       | 6  | 2   | 0     | 3  | 6  |  |
|                    |             |              |               |   | P   | 77    | 11          | 88 | 7  | 2     | 3       | 12 | 3   | 1     | 8  | 12 |  |
| Rabi               | C           |              |               | 80  | 6   | 86    | 10          | 2  | 2  | 14    | 2       | 1  | 11  | 14    |    |    |  |
|                    | S           |              |               | 89  | 5   | 94    | 4           | 0  | 2  | 6     | 2       | 0  | 4   | 6     |    |    |  |
|                    | P           |              |               | 82  | 6   | 88    | 8           | 2  | 2  | 12    | 2       | 0  | 9   | 12    |    |    |  |
| Zaid Rabi          | C           |              |               | 56  | 7   | 62    | 28          | 6  | 2  | 37    | 2       | 1  | 35  | 37    |    |    |  |
|                    | S           |              |               | 87  | 1   | 88    | 11          | 0  | 0  | 12    | 0       | 0  | 11  | 12    |    |    |  |
|                    | P           |              |               | 63  | 5   | 68    | 24          | 5  | 2  | 31    | 2       | 0  | 30  | 32    |    |    |  |
| 20                 | Uttarakhand | Kharif       | C             | 47  | 47  | 94    | 2           | 2  | 1  | 5     | 1       | 0  | 4   | 5     |    |    |  |
|                    |             |              | S             | 43  | 54  | 97    | 1           | 1  | 1  | 2     | 0       | 0  | 2   | 2     |    |    |  |
|                    |             |              | P             | 45  | 51  | 96    | 2           | 1  | 1  | 4     | 1       | 0  | 3   | 4     |    |    |  |
|                    |             | Rabi         | C             | 56  | 40  | 96    | 2           | 0  | 0  | 3     | 0       | 1  | 2   | 3     |    |    |  |
|                    |             |              | S             | 48  | 47  | 95    | 2           | 0  | 3  | 5     | 2       | 0  | 2   | 5     |    |    |  |
|                    |             |              | P             | 52  | 44  | 96    | 2           | 0  | 1  | 4     | 1       | 1  | 2   | 4     |    |    |  |
|                    |             | Summer       | C             | 78  | 19  | 97    | 3           | 0  | 0  | 3     | 0       | 0  | 3   | 3     |    |    |  |
|                    |             |              | S             | 68  | 1   | 69    | 30          | 0  | 1  | 31    | 1       | 0  | 30  | 31    |    |    |  |
|                    |             |              | P             | 73  | 9   | 82    | 18          | 0  | 0  | 18    | 0       | 0  | 18  | 18    |    |    |  |
| 21                 | West Bengal | Early Kharif | C             | 3   | 89  | 92    | 3           | 4  | 1  | 8     | 1       | 1  | 6   | 8     |    |    |  |
|                    |             |              | S             | 7   | 84  | 91    | 0           | 9  | 0  | 9     | 0       | 0  | 9   | 9     |    |    |  |
|                    |             |              | P             | 4   | 88  | 92    | 2           | 5  | 1  | 8     | 1       | 1  | 7   | 8     |    |    |  |
|                    |             | Late Kharif  | C             | 4   | 93  | 98    | 1           | 1  | 0  | 2     | 0       | 0  | 2   | 2     |    |    |  |
|                    |             |              | S             | 70  | 28  | 98    | 2           | 0  | 0  | 2     | 0       | 0  | 2   | 2     |    |    |  |
|                    |             |              | P             | 27  | 71  | 98    | 1           | 1  | 0  | 2     | 0       | 0  | 2   | 2     |    |    |  |
|                    |             | Rabi         | C             | 0   | 100 | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |    |  |
|                    |             |              | S             | 0   | 88  | 88    | 12          | 0  | 0  | 12    | 0       | 0  | 12  | 12    |    |    |  |
|                    |             |              | P             | 0   | 98  | 98    | 2           | 0  | 0  | 2     | 0       | 0  | 2   | 2     |    |    |  |
| Summer             | C           | NC           | NC            | NC  | NC  | NC    | NC          | NC | NC | NC    | NC      | NC |     |       |    |    |  |
|                    | S           | 0            | 100           | 100   | 0   | 0     | 0           | 0  | 0  | 0     | 0       | 0  |     |       |    |    |  |
|                    | P           | 0            | 100           | 100   | 0   | 0     | 0           | 0  | 0  | 0     | 0       | 0  |     |       |    |    |  |
| 22                 | Puducherry  | Kharif       | C             | 57  | 29  | 86    | 0           | 0  | 9  | 9     | 9       | 0  | 0   | 9     |    |    |  |
|                    |             |              | S             | 75  | 19  | 94    | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |    |  |
|                    |             |              | P             | 69  | 23  | 91    | 0           | 0  | 3  | 3     | 3       | 0  | 0   | 3     |    |    |  |
|                    |             | Rabi-I       | C             | 94  | 0   | 94    | 3           | 0  | 3  | 6     | 3       | 0  | 3   | 6     |    |    |  |
|                    |             |              | S             | 77  | 14  | 91    | 3           | 0  | 2  | 6     | 2       | 0  | 3   | 6     |    |    |  |
|                    |             |              | P             | 82  | 10  | 92    | 3           | 0  | 2  | 6     | 2       | 0  | 3   | 6     |    |    |  |
|                    |             | Rabi-II      | C             | 100   | 0   | 100   | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |    |  |
|                    |             |              | S             | 69  | 22  | 91    | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |    |  |
|                    |             |              | P             | 72  | 19  | 92    | 0           | 0  | 0  | 0     | 0       | 0  | 0   | 0     |    |    |  |
| FOR STATES COVERED |             | Early Kharif | C             | 46  | 33  | 79    | 9           | 10 | 1  | 19    | 1       | 5  | 14  | 20    |    |    |  |
|                    |             |              | S             | 54  | 29  | 83    | 6           | 8  | 1  | 14    | 2       | 0  | 13  | 15    |    |    |  |
|                    |             |              | P             | 50  | 31  | 81    | 7           | 9  | 1  | 17    | 2       | 3  | 14  | 18    |    |    |  |
|                    |             | Late Kharif  | C             | 53  | 22  | 75    | 17          | 5  | 3  | 24    | 2       | 6  | 17  | 24    |    |    |  |
|                    |             |              | S             | 72  | 21  | 93    | 5           | 1  | 1  | 7     | 1       | 2  | 4   | 7     |    |    |  |
|                    |             |              | P             | 62  | 22  | 84    | 11          | 3  | 2  | 16    | 1       | 4  | 10  | 16    |    |    |  |
|                    |             | Rabi         | C             | 52  | 15  | 68    | 24          | 6  | 3  | 32    | 2       | 6  | 25  | 32    |    |    |  |
|                    |             |              | S             | 73  | 22  | 95    | 4           | 1  | 1  | 5     | 1       | 0  | 4   | 5     |    |    |  |
|                    |             |              | P             | 61  | 18  | 79    | 15          | 3  | 2  | 21    | 1       | 3  | 16  | 21    |    |    |  |
| Summer             | C           | 20           | 69            | 89  | 7   | 2     | 1           | 10 | 1  | 0     | 10      | 11 |     |       |    |    |  |
|                    | S           | 20           | 76            | 96  | 1   | 0     | 0           | 2  | 0  | 0     | 2       | 2  |     |       |    |    |  |
|                    | P           | 20           | 73            | 93  | 4   | 1     | 0           | 5  | 0  | 0     | 5       | 5  |     |       |    |    |  |
| All seasons        |             |              | C             | 50  | 23  | 74    | 18          | 5  | 2  | 26    | 2       | 5  | 19  | 26    |    |    |  |
|                    |             |              | S             | 65  | 28  | 93    | 4           | 1  | 1  | 6     | 1       | 1  | 4   | 7     |    |    |  |
|                    |             |              | P             | 58  | 25  | 83    | 12          | 3  | 2  | 16    | 1       | 3  | 12  | 17    |    |    |  |

**Note:**

- @ - Observations are not given due to insufficient data.
- # - Observations do not reflect the true picture of discrepancies in the State since primary worker's entries are not available for comparison of large number of samples.
- \* - The Field work was not carried out for State sample during Summer season.
- PA - Since data from only one agency is available, the same has been taken against pooled agency for comparison purpose.
- NR - Not Reported.
- NC - Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

**RESPONSE IN SAMPLE CHECK ON CROP CUTTING EXPERIMENTS  
DURING 2019-20 (At Harvest stage only)**

| Sl. No. | State            | A<br>G<br>E<br>N<br>C<br>Y | Kharif                |            |                       |            | Rabi/ Summer          |            |                       |            | Grand Total of Planning |
|---------|------------------|----------------------------|-----------------------|------------|-----------------------|------------|-----------------------|------------|-----------------------|------------|-------------------------|
|         |                  |                            | Early Kharif          |            | Late Kharif           |            | Rabi                  |            | Summer                |            |                         |
|         |                  |                            | No. of Expts. Planned | % Response |                         |
| 1       | 2                | 3                          | 4                     | 5          | 6                     | 7          | 8                     | 9          | 10                    | 11         | 12                      |
| 1       | Andhra           | C                          |                       |            | 460                   | 93         | 220                   | 50         |                       |            | 680                     |
|         | Pradesh          | S                          |                       |            | 460                   | 92         | 220                   | 84         |                       |            | 680                     |
|         |                  | P                          |                       |            | 920                   | 93         | 440                   | 67         |                       |            | 1360                    |
| 2       | Assam            | C                          | 170                   | 36         | 120                   | 98         | 190                   | 58         | 40                    | 45         | 520                     |
|         |                  | S                          | 170                   | 45         | 120                   | 77         | 190                   | 39         | 40                    | 75         | 520                     |
|         |                  | P                          | 340                   | 41         | 240                   | 88         | 380                   | 48         | 80                    | 60         | 1040                    |
| 3       | Bihar            | C                          | 120                   | 67         | 240                   | 69         | 350                   | 8          | 40                    | 0          | 750                     |
|         |                  | S                          | 120                   | 56         | 240                   | 58         | 350                   | 43         | 40                    | 45         | 750                     |
|         |                  | P                          | 240                   | 61         | 480                   | 63         | 700                   | 25         | 80                    | 23         | 1500                    |
| 4       | Chhattisgarh     | C                          |                       |            | 200                   | 88         | 150                   | 17         |                       |            | 350                     |
|         |                  | S                          |                       |            | 200                   | 76         | 150                   | 13         |                       |            | 350                     |
|         |                  | P                          |                       |            | 400                   | 82         | 300                   | 15         |                       |            | 700                     |
| 5       | Gujarat          | C                          |                       |            | 750                   | 74         | 240                   | 33         |                       |            | 990                     |
|         |                  | S                          |                       |            | 750                   | 43         | 240                   | 25         |                       |            | 990                     |
|         |                  | P                          |                       |            | 1500                  | 58         | 480                   | 29         |                       |            | 1980                    |
| 6       | Haryana          | C                          |                       |            | 320                   | 93         | 380                   | 1          |                       |            | 700                     |
|         |                  | S                          |                       |            | 320                   | 39         | 380                   | 44         |                       |            | 700                     |
|         |                  | P                          |                       |            | 640                   | 66         | 760                   | 23         |                       |            | 1400                    |
| 7       | Himachal Pradesh | C                          |                       |            | 150                   | 84         | 150                   | 0          |                       |            | 300                     |
|         |                  | S                          |                       |            | 150                   | 69         | 150                   | 13         |                       |            | 300                     |
|         |                  | P                          |                       |            | 300                   | 76         | 300                   | 7          |                       |            | 600                     |
| 8       | Jammu & Kashmir  | C                          |                       |            | 160                   | 60         | 120                   | 0          |                       |            | 280                     |
|         |                  | S                          |                       |            | 160                   | 21         | 120                   | 0          |                       |            | 280                     |
|         |                  | P                          |                       |            | 320                   | 41         | 240                   | 0          |                       |            | 560                     |
| 9       | Jharkhand        | C                          | 40                    | 100        | 80                    | 100        | 100                   | 18         |                       |            | 220                     |
|         |                  | S                          | 40                    | 75         | 80                    | 68         | 100                   | 70         |                       |            | 220                     |
|         |                  | P                          | 80                    | 88         | 160                   | 84         | 200                   | 44         |                       |            | 440                     |
| 10      | Karnataka        | C                          |                       |            | 620                   | 51         | 200                   | 60         | 80                    | 25         | 900                     |
|         |                  | S                          |                       |            | 620                   | 83         | 200                   | 77         | 80                    | 78         | 900                     |
|         |                  | P                          |                       |            | 1240                  | 67         | 400                   | 68         | 160                   | 51         | 1800                    |
| 11      | Kerala           | C                          | 100                   | 98         | 100                   | 90         |                       |            | 320                   | 71         | 520                     |
|         |                  | S                          | 100                   | 96         | 100                   | 90         |                       |            | 320                   | 70         | 520                     |
|         |                  | P                          | 200                   | 97         | 200                   | 90         |                       |            | 640                   | 70         | 1040                    |
| 12      | Madhya Pradesh   | C                          |                       |            | 628                   | 92         | 524                   | 25         |                       |            | 1152                    |
|         |                  | S                          |                       |            | 628                   | 67         | 524                   | 61         |                       |            | 1152                    |
|         |                  | P                          |                       |            | 1256                  | 79         | 1048                  | 43         |                       |            | 2304                    |
| 13      | Maharashtra      | C                          |                       |            | 850                   | 43         | 450                   | 33         |                       |            | 1300                    |
|         |                  | S                          |                       |            | 850                   | 52         | 450                   | 44         |                       |            | 1300                    |
|         |                  | P                          |                       |            | 1700                  | 48         | 900                   | 38         |                       |            | 2600                    |
| 14      | Odisha           | C                          | 260                   | 99         | 390                   | 92         |                       |            | 180                   | 8          | 830                     |
|         |                  | S                          | 260                   | 94         | 390                   | 91         |                       |            | 180                   | 94         | 830                     |
|         |                  | P                          | 520                   | 97         | 780                   | 92         |                       |            | 360                   | 51         | 1660                    |
| 15      | Punjab           | C                          |                       |            | 380                   | 91         | 320                   | 2          |                       |            | 700                     |
|         |                  | S                          |                       |            | 380                   | 61         | 320                   | 41         |                       |            | 700                     |
|         |                  | P                          |                       |            | 760                   | 76         | 640                   | 22         |                       |            | 1400                    |
| 16      | Rajasthan        | C                          |                       |            | 520                   | 86         | 420                   | 17         |                       |            | 940                     |
|         |                  | S                          |                       |            | 520                   | 68         | 420                   | 63         |                       |            | 940                     |
|         |                  | P                          |                       |            | 1040                  | 77         | 840                   | 40         |                       |            | 1880                    |

## ANNEX-VI (Contd.....)

| Sl. No.            | State         | A<br>G<br>E<br>N<br>C<br>Y | Kharif                |            |                       |            | Rabi/ Summer          |            |                       |            | Grand Total of Planning |
|--------------------|---------------|----------------------------|-----------------------|------------|-----------------------|------------|-----------------------|------------|-----------------------|------------|-------------------------|
|                    |               |                            | Early Kharif          |            | Late Kharif           |            | Rabi                  |            | Summer                |            |                         |
|                    |               |                            | No. of Expts. Planned | % Response |                         |
| 1                  | 2             | 3                          | 4                     | 5          | 6                     | 7          | 8                     | 9          | 10                    | 11         | 12                      |
| 17                 | Tamil Nadu    | C                          |                       |            | 420                   | 92         | 320                   | 63         | 0                     | 0          | 740                     |
|                    | #             | S                          |                       |            | 420                   | 75         | 320                   | 74         | 0                     | 0          | 740                     |
|                    |               | P                          |                       |            | 840                   | 83         | 640                   | 68         | 0                     | 0          | 1480                    |
| 18                 | Telangana     | C                          |                       |            | 360                   | 95         | 120                   | 22         |                       |            | 480                     |
|                    |               | S                          |                       |            | 360                   | 95         | 120                   | 91         |                       |            | 480                     |
|                    |               | P                          |                       |            | 720                   | 95         | 240                   | 56         |                       |            | 960                     |
| 19                 | Uttar Pradesh | C                          |                       |            | 1380                  | 95         | 840                   | 19         | 80                    | 90         | 2300                    |
|                    |               | S                          |                       |            | 1380                  | 17         | 840                   | 14         | 80                    | 15         | 2300                    |
|                    |               | P                          |                       |            | 2760                  | 56         | 1680                  | 16         | 160                   | 53         | 4600                    |
| 20                 | Uttarakhand   | C                          |                       |            | 130                   | 88         | 60                    | 0          |                       |            | 190                     |
|                    |               | S                          |                       |            | 130                   | 69         | 60                    | 77         |                       |            | 190                     |
|                    |               | P                          |                       |            | 260                   | 78         | 120                   | 38         |                       |            | 380                     |
| 21                 | West Bengal   | C                          | 180                   | 96         | 160                   | 100        | 220                   | 50         | 190                   | 8          | 750                     |
|                    |               | S                          | 180                   | 2          | 160                   | 9          | 220                   | 0          | 190                   | 4          | 750                     |
|                    |               | P                          | 360                   | 49         | 320                   | 54         | 440                   | 25         | 380                   | 6          | 1500                    |
| 22                 | Puducherry    | C                          |                       |            | 10                    | 100        | 10                    | 100        | 10                    | 100        | 30                      |
|                    |               | S                          |                       |            | 10                    | 100        | 10                    | 100        | 10                    | 100        | 30                      |
|                    |               | P                          |                       |            | 20                    | 100        | 20                    | 100        | 20                    | 100        | 60                      |
| For States covered |               | C                          | 870                   | 81         | 8428                  | 81         | 5384                  | 25         | 940                   | 40         | 15622                   |
|                    |               | S                          | 870                   | 60         | 8428                  | 58         | 5384                  | 43         | 940                   | 57         | 15622                   |
|                    |               | P                          | 1740                  | 71         | 16856                 | 70         | 10768                 | 34         | 1880                  | 48         | 31244                   |

## Note:

- 1- \$ In Kerala, 220 experiments of Whole year crops are included in Summer season.
- 2- # In the light of introduction of concept of Kharif and Rabi seasons in the Tamil Nadu state from Agricultural year 2017-18 and categorization of crops, the data have been presented seasonwise instead of whole year.

**DISTRIBUTION OF PERCENTAGE OF EXPERIMENTS  
ACCORDING TO IMPORTANT INPUTS DURING 2019-20**

| Sl. No.             | State                   | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|---------------------|-------------------------|--------|-----|--|--------|--------|
|                     |                         |        |     | I  | HYV    | F      |
| 1                   | 2                       | 3      | 4   | 5  | 6      | 7      |
| <b>Paddy-Autumn</b> |                         |        |     |  |        |        |
| 1                   | Assam                   | C      | H   | 29.41  | 11.76  | 47.06  |
|                     |                         | S      |     | 10.81  | 0.00   | 43.24  |
|                     |                         | P      |     | 19.72  | 5.63   | 45.07  |
|                     |                         | C      | T   | 10.00  | 4.00   | 16.00  |
|                     |                         | S      |     | 5.80   | 0.00   | 23.19  |
|                     |                         | P      |     | 8.28   | 2.37   | 18.93  |
| 2                   | Bihar                   | C      | H   | 40.00  | 13.33  | 66.67  |
|                     |                         | S      |     | 68.42  | 10.53  | 97.37  |
|                     |                         | P      |     | 55.88  | 11.76  | 83.82  |
|                     |                         | C      | T   | 30.00  | 10.00  | 50.00  |
|                     |                         | S      |     | 65.00  | 10.00  | 92.50  |
|                     |                         | P      |     | 47.50  | 10.00  | 71.25  |
| 3                   | Jharkhand               | C      | H   | 0.00   | 0.00   | 5.00   |
|                     |                         | S      |     | 0.00   | 0.00   | 11.11  |
|                     |                         | P      |     | 0.00   | 0.00   | 7.89   |
|                     |                         | C      | T   | 0.00   | 0.00   | 5.00   |
|                     |                         | S      |     | 0.00   | 0.00   | 11.11  |
|                     |                         | P      |     | 0.00   | 0.00   | 7.89   |
| 4                   | Kerala                  | C      | H   | 37.76  | 86.73  | 70.41  |
|                     |                         | S      |     | 69.79  | 79.17  | 77.08  |
|                     |                         | P      |     | 53.61  | 82.99  | 73.71  |
|                     |                         | C      | T   | 37.00  | 85.00  | 69.00  |
|                     |                         | S      |     | 69.07  | 78.35  | 76.29  |
|                     |                         | P      |     | 52.79  | 81.73  | 72.59  |
| 5                   | Odisha                  | C      | H   | 7.83   | 66.82  | 88.48  |
|                     |                         | S      |     | 8.29   | 87.80  | 88.29  |
|                     |                         | P      |     | 8.06   | 77.01  | 88.39  |
|                     |                         | C      | T   | 7.83   | 66.82  | 88.48  |
|                     |                         | S      |     | 8.29   | 87.80  | 88.29  |
|                     |                         | P      |     | 8.06   | 77.01  | 88.39  |
| 6                   | Tamil Nadu #<br>Phase-I | C      | H   | 100.00   | 100.00 | 100.00 |
|                     |                         | S      |     | 100.00   | 100.00 | 100.00 |
|                     |                         | P      |     | 100.00   | 100.00 | 100.00 |
|                     |                         | C      | T   | 100.00   | 100.00 | 100.00 |
|                     |                         | S      |     | 100.00   | 100.00 | 100.00 |
|                     |                         | P      |     | 100.00   | 100.00 | 100.00 |
| 7                   | West Bengal             | C      | H   | 77.32  | 92.78  | 95.88  |
|                     |                         | S      |     | 100.00   | 100.00 | 100.00 |
|                     |                         | P      |     | 78.22  | 93.07  | 94.27  |
|                     |                         | C      | T   | 75.00  | 90.00  | 93.00  |
|                     |                         | S      |     | 100.00   | 100.00 | 100.00 |
|                     |                         | P      |     | 75.96  | 90.38  | 93.27  |
| <b>Paddy-Winter</b> |                         |        |     |  |        |        |
| 1                   | Andhra Pradesh          | C      | H   | 94.12  | 95.42  | 95.42  |
|                     |                         | S      |     | 92.16  | 100.00 | 100.00 |
|                     |                         | P      |     | 93.14  | 97.71  | 97.71  |
|                     |                         | C      | T   | 91.72  | 92.99  | 92.99  |
|                     |                         | S      |     | 92.16  | 100.00 | 100.00 |
|                     |                         | P      |     | 91.94  | 96.45  | 96.45  |

#= In the light of introduction of concept of Kharif and Rabi seasons in the Tamil Nadu state from Agricultural year 2019-20 and consequent, categorization of crops, the data have been presented seasonwise instead of whole year.

T= Total (Harvest+Missed+Lost).

I= Irrigation

HYV= High yield variety

F= Fertilizers

NA=Data not available, NR=Data not reported.

| Sl. No. | State            | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|---------|------------------|--------|-----|--|--------|--------|
|         |                  |        |     | I  | HVV    | F      |
| 1       | 2                | 3      | 4   | 5  | 6      | 7      |
| 2       | Assam            | C      | H   | 0.00   | 0.00   | 0.00   |
|         |                  | S      |     | 2.13   | 10.64  | 47.87  |
|         |                  | P      |     | 0.94   | 13.21  | 50.47  |
|         |                  | C      | T   | 0.00   | 0.00   | 0.00   |
|         |                  | S      |     | 2.13   | 10.64  | 47.87  |
|         |                  | P      |     | 0.93   | 13.08  | 50.00  |
| 3       | Bihar            | C      | H   | 64.53  | 59.30  | 92.44  |
|         |                  | S      |     | 51.45  | 56.07  | 100.00 |
|         |                  | P      |     | 57.97  | 57.68  | 96.23  |
|         |                  | C      | T   | 47.44  | 43.59  | 67.95  |
|         |                  | S      |     | 47.59  | 51.87  | 92.51  |
|         |                  | P      |     | 47.51  | 47.27  | 78.86  |
| 4       | Chhattisgarh     | C      | H   | 50.00  | 88.75  | 93.75  |
|         |                  | S      |     | 50.00  | 92.50  | 90.00  |
|         |                  | P      |     | 50.00  | 90.63  | 91.88  |
|         |                  | C      | T   | 50.00  | 88.75  | 93.75  |
|         |                  | S      |     | 50.00  | 92.50  | 90.00  |
|         |                  | P      |     | 50.00  | 90.63  | 91.88  |
| 5       | Gujarat          | C      | H   | 63.33  | 95.00  | 100.00 |
|         |                  | S      |     | 63.83  | 42.55  | 93.62  |
|         |                  | P      |     | 63.55  | 71.96  | 97.20  |
|         |                  | C      | T   | 47.50  | 71.25  | 75.00  |
|         |                  | S      |     | 63.83  | 52.55  | 93.62  |
|         |                  | P      |     | 53.54  | 60.63  | 81.89  |
| 6       | Haryana          | C      | H   | 100.00   | 100.00 | 100.00 |
|         |                  | S      |     | 100.00   | 100.00 | 95.00  |
|         |                  | P      |     | 100.00   | 100.00 | 98.46  |
|         |                  | C      | T   | 100.00   | 100.00 | 100.00 |
|         |                  | S      |     | 100.00   | 100.00 | 95.00  |
|         |                  | P      |     | 100.00   | 100.00 | 98.46  |
| 7       | Himachal Pradesh | C      | H   | 71.59  | 64.71  | 74.51  |
|         |                  | S      |     | 51.52  | 18.18  | 63.64  |
|         |                  | P      |     | 63.10  | 46.43  | 70.24  |
|         |                  | C      | T   | 60.00  | 55.00  | 63.33  |
|         |                  | S      |     | 30.91  | 10.91  | 38.18  |
|         |                  | P      |     | 46.09  | 33.91  | 51.30  |
| 8       | Jammu & Kashmir  | C      | H   | 86.67  | 66.67  | 96.67  |
|         |                  | S      |     | 73.91  | 82.61  | 100.00 |
|         |                  | P      |     | 78.95  | 76.32  | 98.68  |
|         |                  | C      | T   | 74.29  | 57.14  | 82.86  |
|         |                  | S      |     | 73.91  | 82.61  | 100.00 |
|         |                  | P      |     | 74.07  | 71.60  | 92.59  |
| 9       | Jharkhand        | C      | H   | 11.25  | 43.75  | 83.75  |
|         |                  | S      |     | 0.00   | 0.00   | 0.00   |
|         |                  | P      |     | 6.72   | 33.58  | 73.88  |
|         |                  | C      | T   | 11.25  | 43.75  | 83.75  |
|         |                  | S      |     | 0.00   | 0.00   | 0.00   |
|         |                  | P      |     | 6.52   | 32.61  | 71.74  |
| 10      | Karnataka        | C      | H   | 71.43  | 77.14  | 93.33  |
|         |                  | S      |     | 60.31  | 83.97  | 88.55  |
|         |                  | P      |     | 65.25  | 80.93  | 90.68  |
|         |                  | C      | T   | 65.79  | 71.05  | 85.96  |
|         |                  | S      |     | 57.25  | 79.71  | 84.06  |
|         |                  | P      |     | 61.11  | 75.79  | 84.92  |

| Sl. No. | State                  | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|---------|------------------------|--------|-----|--|--------|--------|
|         |                        |        |     | I  | HVV    | F      |
| 1       | 2                      | 3      | 4   | 5  | 6      | 7      |
| 11      | Kerala                 | C      | H   | 83.33  | 82.22  | 82.22  |
|         |                        | S      |     | 90.00  | 93.33  | 35.56  |
|         |                        | P      |     | 86.67  | 87.78  | 58.89  |
|         |                        | C      | T   | 83.33  | 82.22  | 82.22  |
|         |                        | S      |     | 90.00  | 93.33  | 35.56  |
|         |                        | P      |     | 86.67  | 87.78  | 58.89  |
| 12      | Madhya Pradesh         | C      | H   | 34.00  | 69.00  | 76.00  |
|         |                        | S      |     | 34.88  | 66.28  | 76.74  |
|         |                        | P      |     | 34.41  | 67.74  | 76.34  |
|         |                        | C      | T   | 34.00  | 69.00  | 76.00  |
|         |                        | S      |     | 34.88  | 66.28  | 76.74  |
|         |                        | P      |     | 34.41  | 67.74  | 76.34  |
| 13      | Maharashtra            | C      | H   | 25.71  | 84.29  | 94.29  |
|         |                        | S      |     | 21.74  | 73.91  | 91.30  |
|         |                        | P      |     | 24.14  | 80.17  | 93.10  |
|         |                        | C      | T   | 21.95  | 71.95  | 80.49  |
|         |                        | S      |     | 18.87  | 64.15  | 79.25  |
|         |                        | P      |     | 20.74  | 68.89  | 80.00  |
| 14      | Odisha                 | C      | H   | 26.54  | 82.31  | 95.77  |
|         |                        | S      |     | 27.56  | 95.67  | 91.34  |
|         |                        | P      |     | 27.04  | 88.91  | 93.58  |
|         |                        | C      | T   | 26.54  | 82.31  | 95.77  |
|         |                        | S      |     | 27.56  | 95.67  | 91.34  |
|         |                        | P      |     | 27.04  | 88.91  | 93.58  |
| 15      | Punjab                 | C      | H   | 99.47  | 97.33  | 99.47  |
|         |                        | S      |     | 100.00   | 97.56  | 98.37  |
|         |                        | P      |     | 99.68  | 97.42  | 99.03  |
|         |                        | C      | T   | 97.89  | 95.79  | 97.89  |
|         |                        | S      |     | 100.00   | 97.56  | 98.37  |
|         |                        | P      |     | 98.72  | 96.49  | 98.08  |
| 16      | Tamil Nadu<br>Phase-II | C      | H   | 98.28  | 100.00 | 98.28  |
|         |                        | S      |     | 91.67  | 97.92  | 97.92  |
|         |                        | P      |     | 95.28  | 99.06  | 98.11  |
|         |                        | C      | T   | 95.00  | 96.67  | 95.00  |
|         |                        | S      |     | 91.67  | 97.92  | 97.92  |
|         |                        | P      |     | 93.52  | 97.22  | 96.30  |
| 17      | Telangana              | C      | H   | 94.29  | 95.71  | 100.00 |
|         |                        | S      |     | 94.29  | 97.14  | 97.14  |
|         |                        | P      |     | 94.29  | 96.43  | 98.57  |
|         |                        | C      | T   | 94.29  | 95.71  | 100.00 |
|         |                        | S      |     | 94.29  | 97.14  | 97.14  |
|         |                        | P      |     | 94.29  | 96.43  | 98.57  |
| 18      | Uttar Pradesh          | C      | H   | 95.61  | 92.73  | 99.55  |
|         |                        | S      |     | 92.62  | 91.80  | 100.00 |
|         |                        | P      |     | 95.14  | 92.58  | 99.62  |
|         |                        | C      | T   | 95.61  | 92.73  | 99.55  |
|         |                        | S      |     | 92.62  | 91.80  | 100.00 |
|         |                        | P      |     | 95.14  | 92.58  | 99.62  |
| 19      | Uttarakhand            | C      | H   | 83.33  | 50.00  | 66.67  |
|         |                        | S      |     | 66.00  | 54.00  | 64.00  |
|         |                        | P      |     | 74.49  | 52.04  | 65.31  |
|         |                        | C      | T   | 83.33  | 50.00  | 66.67  |
|         |                        | S      |     | 66.00  | 54.00  | 64.00  |
|         |                        | P      |     | 74.49  | 52.04  | 65.31  |

| Sl. No.                  | State          | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|--------------------------|----------------|--------|-----|--|--------|--------|
|                          |                |        |     | I  | HVV    | F      |
| 1                        | 2              | 3      | 4   | 5  | 6      | 7      |
| 20                       | West Bengal    | C      | H   | 57.50  | 89.38  | 100.00 |
|                          |                | S      |     | 64.29  | 100.00 | 100.00 |
|                          |                | P      |     | 58.05  | 90.23  | 100.00 |
|                          |                | C      | T   | 57.50  | 89.38  | 100.00 |
|                          |                | S      |     | 64.29  | 100.00 | 100.00 |
|                          |                | P      |     | 58.05  | 90.23  | 100.00 |
| 21                       | Puducherry     | C      | H   | 100.00   | 100.00 | 100.00 |
|                          |                | S      |     | 100.00   | 100.00 | 100.00 |
|                          |                | P      |     | 100.00   | 100.00 | 100.00 |
|                          |                | C      | T   | 100.00   | 100.00 | 100.00 |
|                          |                | S      |     | 100.00   | 100.00 | 100.00 |
|                          |                | P      |     | 100.00   | 100.00 | 100.00 |
| <b>Paddy-Rabi/Summer</b> |                |        |     |  |        |        |
| 1                        | Andhra Pradesh | C      | H   | 100.00   | 98.20  | 97.30  |
|                          |                | S      |     | 100.00   | 98.00  | 98.00  |
|                          |                | P      |     | 100.00   | 98.10  | 97.63  |
|                          |                | C      | T   | 94.87  | 93.16  | 92.31  |
|                          |                | S      |     | 90.91  | 89.09  | 89.09  |
|                          |                | P      |     | 92.95  | 91.19  | 90.75  |
| 2                        | Assam          | C      | H   | 77.78  | 66.67  | 77.78  |
|                          |                | S      |     | 66.67  | 46.67  | 80.00  |
|                          |                | P      |     | 70.83  | 54.17  | 79.17  |
|                          |                | C      | T   | 35.00  | 30.00  | 35.00  |
|                          |                | S      |     | 66.67  | 46.67  | 80.00  |
|                          |                | P      |     | 48.57  | 37.14  | 54.29  |
| 3                        | Bihar          | C      | H   | 0.00   | 0.00   | 0.00   |
|                          |                | S      |     | 100.00   | 66.67  | 77.78  |
|                          |                | P      |     | 100.00   | 66.67  | 77.78  |
|                          |                | C      | T   | 0.00   | 0.00   | 0.00   |
|                          |                | S      |     | 69.23  | 46.15  | 53.85  |
|                          |                | P      |     | 27.27  | 18.18  | 21.21  |
| 4                        | Karnataka      | C      | H   | 100.00   | 63.16  | 94.74  |
|                          |                | S      |     | 93.75  | 100.00 | 87.50  |
|                          |                | P      |     | 97.14  | 80.00  | 91.43  |
|                          |                | C      | T   | 95.00  | 60.00  | 90.00  |
|                          |                | S      |     | 93.75  | 100.00 | 87.50  |
|                          |                | P      |     | 94.44  | 77.78  | 88.89  |
| 5                        | Kerala         | C      | H   | 95.92  | 91.84  | 87.76  |
|                          |                | S      |     | 100.00   | 97.87  | 89.36  |
|                          |                | P      |     | 97.92  | 94.79  | 88.54  |
|                          |                | C      | T   | 50.54  | 48.39  | 46.24  |
|                          |                | S      |     | 54.02  | 52.87  | 48.28  |
|                          |                | P      |     | 52.22  | 50.56  | 47.22  |
| 6                        | Odisha         | C      | H   | 91.67  | 100.00 | 33.33  |
|                          |                | S      |     | 100.00   | 100.00 | 89.78  |
|                          |                | P      |     | 99.33  | 100.00 | 85.23  |
|                          |                | C      | T   | 8.09   | 8.82   | 2.94   |
|                          |                | S      |     | 100.00   | 100.00 | 89.78  |
|                          |                | P      |     | 54.21  | 54.58  | 46.52  |
| 7                        | Tamil Nadu     | C      | H   | 95.83  | 100.00 | 95.83  |
|                          |                | S      |     | 100.00   | 100.00 | 100.00 |
|                          |                | P      |     | 97.92  | 100.00 | 97.92  |
|                          |                | C      | T   | 57.50  | 60.00  | 57.50  |
|                          |                | S      |     | 100.00   | 100.00 | 100.00 |
|                          |                | P      |     | 73.44  | 75.00  | 73.44  |

| Sl. No.              | State                | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|----------------------|----------------------|--------|-----|--|--------|--------|
|                      |                      |        |     | I  | HVV    | F      |
| 1                    | 2                    | 3      | 4   | 5  | 6      | 7      |
| 8                    | Telangana            | C      | H   | 100.00   | 100.00 | 100.00 |
|                      |                      | S      |     | 100.00   | 97.44  | 91.03  |
|                      |                      | P      |     | 100.00   | 98.70  | 95.45  |
|                      |                      | C      | T   | 95.00  | 95.00  | 95.00  |
|                      |                      | S      |     | 97.50  | 95.00  | 88.75  |
|                      |                      | P      |     | 96.25  | 95.00  | 91.88  |
| 9                    | Puducherry<br>Rabi-I | C      | H   | 100.00   | 100.00 | 100.00 |
|                      |                      | S      |     | 100.00   | 100.00 | 100.00 |
|                      |                      | P      |     | 100.00   | 100.00 | 80.00  |
|                      |                      | C      | T   | 100.00   | 100.00 | 90.00  |
|                      |                      | S      |     | 100.00   | 100.00 | 100.00 |
|                      |                      | P      |     | 100.00   | 100.00 | 80.00  |
|                      | Rabi-II              | C      | H   | 100.00   | 100.00 | 90.00  |
|                      |                      | S      |     | 100.00   | 100.00 | 100.00 |
|                      |                      | P      |     | 100.00   | 100.00 | 100.00 |
|                      |                      | C      | T   | 100.00   | 100.00 | 100.00 |
|                      |                      | S      |     | 100.00   | 100.00 | 100.00 |
|                      |                      | P      |     | 100.00   | 100.00 | 100.00 |
| 10                   | West Bengal          | C      | H   | 100.00   | 100.00 | 100.00 |
|                      |                      | S      |     | 0.00   | 0.00   | 0.00   |
|                      |                      | P      |     | 100.00   | 100.00 | 100.00 |
|                      |                      | C      | T   | 7.14   | 7.14   | 7.14   |
|                      |                      | S      |     | 0.00   | 0.00   | 0.00   |
|                      |                      | P      |     | 7.14   | 7.14   | 7.14   |
| <b>Jowar- Kharif</b> |                      |        |     |  |        |        |
| 1                    | Karnataka            | C      | H   | 38.46  | 84.62  | 50.00  |
|                      |                      | S      |     | 31.82  | 84.09  | 61.36  |
|                      |                      | P      |     | 34.29  | 84.29  | 57.14  |
|                      |                      | C      | T   | 20.41  | 44.90  | 26.53  |
|                      |                      | S      |     | 30.43  | 80.43  | 58.70  |
|                      |                      | P      |     | 25.26  | 62.11  | 42.11  |
| 2                    | Madhya Pradesh       | C      | H   | 0.00   | 27.08  | 61.46  |
|                      |                      | S      |     | 0.00   | 34.29  | 45.71  |
|                      |                      | P      |     | 0.00   | 30.12  | 54.82  |
|                      |                      | C      | T   | 0.00   | 26.00  | 59.00  |
|                      |                      | S      |     | 0.00   | 34.29  | 45.71  |
|                      |                      | P      |     | 0.00   | 29.41  | 53.53  |
| 3                    | Maharashtra          | C      | H   | 6.45   | 87.10  | 93.55  |
|                      |                      | S      |     | 0.00   | 77.78  | 92.59  |
|                      |                      | P      |     | 3.45   | 82.76  | 93.10  |
|                      |                      | C      | T   | 5.26   | 71.05  | 76.32  |
|                      |                      | S      |     | 0.00   | 70.00  | 83.33  |
|                      |                      | P      |     | 2.94   | 70.59  | 79.41  |
| 4                    | Rajasthan            | C      | H   | 1.75   | 24.56  | 54.39  |
|                      |                      | S      |     | 0.00   | 26.09  | 52.17  |
|                      |                      | P      |     | 0.97   | 25.24  | 53.40  |
|                      |                      | C      | T   | 1.67   | 23.33  | 51.67  |
|                      |                      | S      |     | 0.00   | 21.43  | 42.86  |
|                      |                      | P      |     | 0.86   | 22.41  | 47.41  |
| 5                    | Tamil Nadu           | C      | H   | 20.00  | 85.00  | 45.00  |
|                      |                      | S      |     | 6.90   | 79.31  | 10.34  |
|                      |                      | P      |     | 14.49  | 82.61  | 30.43  |
|                      |                      | C      | T   | 20.00  | 85.00  | 45.00  |
|                      |                      | S      |     | 6.90   | 79.31  | 10.34  |
|                      |                      | P      |     | 14.49  | 82.61  | 30.43  |

| Sl. No.           | State          | Agency | H/T | Percentage of Experiments under various inputs for crops |        |       |
|-------------------|----------------|--------|-----|--|--------|-------|
|                   |                |        |     | I  | HVV    | F     |
| 1                 | 2              | 3      | 4   | 5  | 6      | 7     |
| 6                 | Telangana      | C      | H   | 0.00   | 7.50   | 95.00 |
|                   |                | S      |     | 0.00   | 20.00  | 75.00 |
|                   |                | P      |     | 0.00   | 13.75  | 85.00 |
|                   |                | C      | T   | 0.00   | 7.50   | 95.00 |
|                   |                | S      |     | 0.00   | 20.00  | 75.00 |
|                   |                | P      |     | 0.00   | 13.75  | 85.00 |
| 7                 | Uttar Pradesh  | C      | H   | 0.00   | 2.50   | 15.00 |
|                   |                | S      |     | 0.00   | 0.00   | 0.00  |
|                   |                | P      |     | 0.00   | 1.92   | 11.54 |
|                   |                | C      | T   | 0.00   | 2.50   | 15.00 |
|                   |                | S      |     | 0.00   | 0.00   | 0.00  |
|                   |                | P      |     | 0.00   | 1.92   | 11.54 |
| <b>Jowar-Rabi</b> |                |        |     |  |        |       |
| 1                 | Karnataka      | C      | H   | 23.33  | 56.67  | 73.33 |
|                   |                | S      |     | 15.38  | 64.62  | 24.62 |
|                   |                | P      |     | 19.20  | 60.80  | 48.00 |
|                   |                | C      | T   | 20.29  | 49.28  | 63.77 |
|                   |                | S      |     | 14.93  | 62.69  | 23.88 |
|                   |                | P      |     | 17.65  | 55.88  | 44.12 |
| 2                 | Maharashtra    | C      | H   | 26.03  | 61.64  | 57.53 |
|                   |                | S      |     | 35.42  | 47.92  | 69.79 |
|                   |                | P      |     | 31.36  | 53.85  | 64.50 |
|                   |                | C      | T   | 17.92  | 42.45  | 39.62 |
|                   |                | S      |     | 33.33  | 45.10  | 65.69 |
|                   |                | P      |     | 25.48  | 43.75  | 52.40 |
| 3                 | Tamil Nadu     | C      | H   | 25.00  | 65.00  | 57.50 |
|                   |                | S      |     | 16.67  | 100.00 | 50.00 |
|                   |                | P      |     | 21.88  | 78.13  | 54.69 |
|                   |                | C      | T   | 25.00  | 65.00  | 57.50 |
|                   |                | S      |     | 16.67  | 100.00 | 50.00 |
|                   |                | P      |     | 21.88  | 78.13  | 54.69 |
| 4                 | Telangana      | C      | H   | 36.84  | 31.58  | 86.84 |
|                   |                | S      |     | 65.79  | 47.37  | 89.47 |
|                   |                | P      |     | 51.32  | 39.47  | 88.16 |
|                   |                | C      | T   | 35.00  | 30.00  | 82.50 |
|                   |                | S      |     | 65.79  | 47.37  | 89.47 |
|                   |                | P      |     | 50.00  | 38.46  | 85.90 |
| <b>BAJRA</b>      |                |        |     |  |        |       |
| 1                 | Andhra Pradesh | C      | H   | 5.88   | 58.82  | 73.53 |
|                   |                | S      |     | 5.56   | 38.89  | 38.89 |
|                   |                | P      |     | 5.71   | 48.57  | 55.71 |
|                   |                | C      | T   | 5.26   | 52.63  | 65.79 |
|                   |                | S      |     | 5.00   | 35.00  | 35.00 |
|                   |                | P      |     | 5.13   | 43.59  | 50.00 |
| 2                 | Gujarat        | C      | H   | 28.00  | 100.00 | 86.00 |
|                   |                | S      |     | 34.29  | 95.71  | 77.14 |
|                   |                | P      |     | 30.59  | 98.24  | 82.35 |
|                   |                | C      | T   | 25.69  | 91.74  | 78.90 |
|                   |                | S      |     | 33.80  | 94.37  | 76.06 |
|                   |                | P      |     | 28.89  | 92.78  | 77.78 |
| 3                 | Haryana        | C      | H   | 75.49  | 96.08  | 89.22 |
|                   |                | S      |     | 74.19  | 100.00 | 77.42 |
|                   |                | P      |     | 75.19  | 96.99  | 86.47 |
|                   |                | C      | T   | 74.04  | 94.23  | 87.50 |
|                   |                | S      |     | 74.19  | 100.00 | 77.42 |
|                   |                | P      |     | 74.07  | 95.56  | 85.19 |
| 4                 | Karnataka      | C      | H   | 12.90  | 80.65  | 45.16 |
|                   |                | S      |     | 12.50  | 83.13  | 20.83 |
|                   |                | P      |     | 12.66  | 82.28  | 30.38 |
|                   |                | C      | T   | 8.51   | 53.19  | 29.79 |
|                   |                | S      |     | 12.50  | 83.33  | 20.83 |
|                   |                | P      |     | 10.53  | 68.42  | 25.26 |

| Sl. No.      | State            | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|--------------|------------------|--------|-----|--|--------|--------|
|              |                  |        |     | I  | HVV    | F      |
| 1            | 2                | 3      | 4   | 5  | 6      | 7      |
| 5            | Maharashtra      | C      | H   | 22.22  | 87.04  | 61.11  |
|              |                  | S      |     | 21.05  | 50.00  | 57.89  |
|              |                  | P      |     | 21.74  | 71.74  | 59.78  |
|              |                  | C      | T   | 22.22  | 87.04  | 61.11  |
|              |                  | S      |     | 19.05  | 45.24  | 52.38  |
|              |                  | P      |     | 20.83  | 68.75  | 57.29  |
| 6            | Rajasthan        | C      | H   | 5.17   | 65.52  | 58.62  |
|              |                  | S      |     | 11.11  | 74.07  | 44.44  |
|              |                  | P      |     | 8.04   | 69.64  | 51.79  |
|              |                  | C      | T   | 5.00   | 63.33  | 56.67  |
|              |                  | S      |     | 11.11  | 74.07  | 44.44  |
|              |                  | P      |     | 7.89   | 68.42  | 50.88  |
| 7            | Tamil Nadu       | C      | H   | 20.00  | 85.00  | 30.00  |
|              |                  | S      |     | 20.69  | 93.10  | 44.83  |
|              |                  | P      |     | 20.29  | 88.41  | 36.23  |
|              |                  | C      | T   | 20.00  | 85.00  | 30.00  |
|              |                  | S      |     | 20.69  | 93.10  | 44.83  |
|              |                  | P      |     | 20.29  | 88.41  | 36.23  |
| 8            | Uttar Pradesh    | C      | H   | 36.00  | 77.33  | 88.67  |
|              |                  | S      |     | 27.27  | 100.00 | 90.91  |
|              |                  | P      |     | 34.88  | 80.23  | 88.95  |
|              |                  | C      | T   | 36.00  | 77.33  | 88.67  |
|              |                  | S      |     | 27.27  | 100.00 | 90.91  |
|              |                  | P      |     | 34.88  | 80.23  | 88.95  |
| <b>Maize</b> |                  |        |     |  |        |        |
| 1            | Bihar            | C      | H   | 64.71  | 47.06  | 76.47  |
|              |                  | S      |     | 52.94  | 11.76  | 76.47  |
|              |                  | P      |     | 58.82  | 29.41  | 76.47  |
|              |                  | C      | T   | 29.73  | 21.62  | 35.14  |
|              |                  | S      |     | 28.13  | 6.25   | 40.63  |
|              |                  | P      |     | 28.99  | 14.49  | 37.68  |
| 2            | Chhattisgarh     | C      | H   | 0.00   | 55.00  | 45.00  |
|              |                  | S      |     | 0.00   | 70.00  | 45.00  |
|              |                  | P      |     | 0.00   | 62.50  | 45.00  |
|              |                  | C      | T   | 0.00   | 55.00  | 45.00  |
|              |                  | S      |     | 0.00   | 70.00  | 45.00  |
|              |                  | P      |     | 0.00   | 62.50  | 45.00  |
| 3            | Gujarat          | C      | H   | 0.00   | 60.53  | 100.00 |
|              |                  | S      |     | 0.00   | 21.43  | 85.71  |
|              |                  | P      |     | 0.00   | 43.94  | 93.94  |
|              |                  | C      | T   | 0.00   | 57.50  | 95.00  |
|              |                  | S      |     | 0.00   | 21.43  | 85.71  |
|              |                  | P      |     | 0.00   | 42.65  | 91.18  |
| 4            | Haryana          | C      | H   | 68.75  | 81.25  | 75.00  |
|              |                  | S      |     | 100.00   | 100.00 | 100.00 |
|              |                  | P      |     | 79.19  | 87.50  | 83.33  |
|              |                  | C      | T   | 55.00  | 65.00  | 60.00  |
|              |                  | S      |     | 100.00   | 100.00 | 100.00 |
|              |                  | P      |     | 67.86  | 75.00  | 71.43  |
| 5            | Himachal Pradesh | C      | H   | 12.00  | 26.67  | 57.33  |
|              |                  | S      |     | 5.71   | 17.14  | 61.43  |
|              |                  | P      |     | 8.97   | 22.07  | 59.31  |
|              |                  | C      | T   | 10.00  | 22.22  | 47.78  |
|              |                  | S      |     | 4.76   | 14.29  | 51.19  |
|              |                  | P      |     | 7.47   | 18.39  | 49.43  |

| Sl. No. | State           | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|---------|-----------------|--------|-----|--|--------|--------|
|         |                 |        |     | I  | HVV    | F      |
| 1       | 2               | 3      | 4   | 5  | 6      | 7      |
| 6       | Jammu & Kashmir | C      | H   | 1.52   | 45.45  | 60.61  |
|         |                 | S      |     | 3.45   | 53.45  | 84.48  |
|         |                 | P      |     | 2.42   | 49.19  | 71.77  |
|         |                 | C      | T   | 1.47   | 44.12  | 58.82  |
|         |                 | S      |     | 3.33   | 51.67  | 81.67  |
|         |                 | P      |     | 2.34   | 47.66  | 69.53  |
| 7       | Jharkhand       | C      | H   | 5.00   | 35.00  | 80.00  |
|         |                 | S      |     | 0.00   | 0.00   | 33.33  |
|         |                 | P      |     | 3.13   | 21.88  | 62.50  |
|         |                 | C      | T   | 5.00   | 35.00  | 80.00  |
|         |                 | S      |     | 0.00   | 0.00   | 33.33  |
|         |                 | P      |     | 3.13   | 21.88  | 62.50  |
| 8       | Karnataka       | C      | H   | 13.33  | 96.67  | 93.33  |
|         |                 | S      |     | 20.83  | 87.50  | 70.83  |
|         |                 | P      |     | 17.95  | 91.03  | 79.49  |
|         |                 | C      | T   | 9.52   | 69.05  | 66.67  |
|         |                 | S      |     | 20.00  | 84.00  | 68.00  |
|         |                 | P      |     | 15.22  | 77.17  | 67.39  |
| 9       | Madhya Pradesh  | C      | H   | 0.00   | 40.00  | 72.50  |
|         |                 | S      |     | 0.00   | 37.88  | 74.24  |
|         |                 | P      |     | 0.00   | 39.04  | 73.29  |
|         |                 | C      | T   | 0.00   | 40.00  | 72.50  |
|         |                 | S      |     | 0.00   | 37.88  | 74.24  |
|         |                 | P      |     | 0.00   | 39.04  | 73.29  |
| 10      | Odisha          | C      | H   | 0.00   | 40.00  | 60.00  |
|         |                 | S      |     | 0.00   | 47.50  | 45.00  |
|         |                 | P      |     | 0.00   | 43.75  | 52.50  |
|         |                 | C      | T   | 0.00   | 40.00  | 60.00  |
|         |                 | S      |     | 0.00   | 47.50  | 45.00  |
|         |                 | P      |     | 0.00   | 43.75  | 52.50  |
| 11      | Punjab          | C      | H   | 73.53  | 94.12  | 94.12  |
|         |                 | S      |     | 87.50  | 68.75  | 100.00 |
|         |                 | P      |     | 80.30  | 81.82  | 96.97  |
|         |                 | C      | T   | 71.43  | 91.43  | 91.43  |
|         |                 | S      |     | 87.50  | 68.75  | 100.00 |
|         |                 | P      |     | 79.10  | 80.60  | 95.52  |
| 12      | Rajasthan       | C      | H   | 2.04   | 36.73  | 75.51  |
|         |                 | S      |     | 0.00   | 47.62  | 78.57  |
|         |                 | P      |     | 1.10   | 41.76  | 76.92  |
|         |                 | C      | T   | 2.00   | 36.00  | 74.00  |
|         |                 | S      |     | 0.00   | 47.62  | 78.57  |
|         |                 | P      |     | 1.09   | 41.30  | 76.09  |
| 13      | Tamil Nadu      | C      | H   | 40.00  | 95.00  | 80.00  |
|         |                 | S      |     | 47.06  | 100.00 | 88.24  |
|         |                 | P      |     | 43.24  | 97.30  | 83.78  |
|         |                 | C      | T   | 40.00  | 95.00  | 80.00  |
|         |                 | S      |     | 47.06  | 100.00 | 88.24  |
|         |                 | P      |     | 43.24  | 97.30  | 83.78  |
| 14      | Telangana       | C      | H   | 38.00  | 96.00  | 100.00 |
|         |                 | S      |     | 40.00  | 100.00 | 96.00  |
|         |                 | P      |     | 39.00  | 98.00  | 98.00  |
|         |                 | C      | T   | 38.00  | 96.00  | 100.00 |
|         |                 | S      |     | 40.00  | 100.00 | 96.00  |
|         |                 | P      |     | 39.00  | 98.00  | 98.00  |

| Sl. No.       | State          | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|---------------|----------------|--------|-----|--|--------|--------|
|               |                |        |     | I  | HV     | F      |
| 1             | 2              | 3      | 4   | 5  | 6      | 7      |
| 15            | Uttar Pradesh  | C      | H   | 55.36  | 61.31  | 95.83  |
|               |                | S      |     | 52.38  | 61.90  | 85.71  |
|               |                | P      |     | 54.76  | 61.43  | 93.81  |
|               |                | C      | T   | 55.36  | 61.31  | 95.83  |
|               |                | S      |     | 51.16  | 60.47  | 83.72  |
|               |                | P      |     | 54.50  | 61.14  | 93.36  |
| <b>Ragi</b>   |                |        |     |  |        |        |
| 1             | Karnataka      | C      | H   | 12.50  | 62.50  | 91.67  |
|               |                | S      |     | 11.11  | 83.33  | 86.11  |
|               |                | P      |     | 11.67  | 75.00  | 88.33  |
|               |                | C      | T   | 9.38   | 46.88  | 68.75  |
|               |                | S      |     | 10.00  | 75.00  | 77.50  |
|               |                | P      |     | 9.72   | 62.50  | 73.61  |
| 3             | Uttarakhand    | C      | H   | 0.00   | 0.00   | 0.00   |
|               |                | S      |     | 0.00   | 0.00   | 0.00   |
|               |                | P      |     | 0.00   | 0.00   | 0.00   |
|               |                | C      | T   | 0.00   | 0.00   | 0.00   |
|               |                | S      |     | 0.00   | 0.00   | 0.00   |
|               |                | P      |     | 0.00   | 0.00   | 0.00   |
| <b>Cotton</b> |                |        |     |  |        |        |
| 1             | Andhra Pradesh | C      | H   | 20.51  | 100.00 | 97.44  |
|               |                | S      |     | 5.26   | 100.00 | 100.00 |
|               |                | P      |     | 12.99  | 100.00 | 98.70  |
|               |                | C      | T   | 20.00  | 97.50  | 95.00  |
|               |                | S      |     | 5.26   | 100.00 | 100.00 |
|               |                | P      |     | 12.82  | 98.72  | 97.44  |
| 2             | Gujarat        | C      | H   | 51.95  | 96.10  | 98.70  |
|               |                | S      |     | 74.19  | 96.70  | 100.00 |
|               |                | P      |     | 58.33  | 96.30  | 99.07  |
|               |                | C      | T   | 41.67  | 77.08  | 79.17  |
|               |                | S      |     | 68.66  | 89.55  | 92.54  |
|               |                | P      |     | 48.65  | 80.31  | 82.63  |
|               | Haryana        | C      | H   | 100.00   | 100.00 | 96.30  |
|               |                | S      |     | 92.86  | 100.00 | 100.00 |
|               |                | P      |     | 97.56  | 100.00 | 97.56  |
|               |                | C      | T   | 96.43  | 96.43  | 92.86  |
|               |                | S      |     | 92.86  | 100.00 | 100.00 |
|               |                | P      |     | 95.24  | 97.62  | 95.24  |
| 4             | Karnataka      | C      | H   | 24.39  | 90.24  | 100.00 |
|               |                | S      |     | 40.00  | 98.00  | 76.00  |
|               |                | P      |     | 32.97  | 94.51  | 86.81  |
|               |                | C      | T   | 22.22  | 82.22  | 91.11  |
|               |                | S      |     | 40.00  | 98.00  | 76.00  |
|               |                | P      |     | 31.58  | 90.53  | 83.16  |
| 5             | Madhya Pradesh | C      | H   | 70.45  | 95.45  | 97.73  |
|               |                | S      |     | 50.00  | 60.00  | 60.00  |
|               |                | P      |     | 64.06  | 84.38  | 85.94  |
|               |                | C      | T   | 64.58  | 87.50  | 89.58  |
|               |                | S      |     | 50.00  | 60.00  | 60.00  |
|               |                | P      |     | 60.29  | 79.41  | 80.88  |

| Sl. No.          | State               | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|------------------|---------------------|--------|-----|--|--------|--------|
|                  |                     |        |     | I  | HV     | F      |
| 1                | 2                   | 3      | 4   | 5  | 6      | 7      |
| 6                | Maharashtra         | C      | H   | 31.11  | 100.00 | 99.26  |
|                  |                     | S      |     | 22.58  | 89.25  | 89.25  |
|                  |                     | P      |     | 27.63  | 95.61  | 95.18  |
|                  |                     | C      | T   | 31.11  | 100.00 | 99.26  |
|                  |                     | S      |     | 22.58  | 89.25  | 89.25  |
|                  |                     | P      |     | 27.63  | 95.61  | 95.18  |
| 7                | Punjab              | C      | H   | 100.00   | 100.00 | 98.61  |
|                  |                     | S      |     | 100.00   | 100.00 | 100.00 |
|                  |                     | P      |     | 100.00   | 100.00 | 99.16  |
|                  |                     | C      | T   | 100.00   | 100.00 | 98.61  |
|                  |                     | S      |     | 100.00   | 100.00 | 100.00 |
|                  |                     | P      |     | 100.00   | 100.00 | 99.16  |
| 8                | Rajasthan           | C      | H   | 95.00  | 95.00  | 100.00 |
|                  |                     | S      |     | 96.67  | 66.67  | 100.00 |
|                  |                     | P      |     | 95.71  | 82.86  | 100.00 |
|                  |                     | C      | T   | 95.00  | 95.00  | 100.00 |
|                  |                     | S      |     | 85.29  | 58.82  | 88.24  |
|                  |                     | P      |     | 90.54  | 78.38  | 94.59  |
| 9                | Tamil Nadu (Kharif) | C      | H   | 20.00  | 100.00 | 75.00  |
|                  |                     | S      |     | 21.43  | 100.00 | 85.71  |
|                  |                     | P      |     | 20.59  | 100.00 | 79.41  |
|                  |                     | C      | T   | 20.00  | 100.00 | 75.00  |
|                  |                     | S      |     | 21.43  | 100.00 | 85.71  |
|                  |                     | P      |     | 20.59  | 100.00 | 79.41  |
|                  | Tamil Nadu (Rabi)   | C      | H   | 51.43  | 100.00 | 97.14  |
|                  |                     | S      |     | 60.00  | 100.00 | 93.33  |
|                  |                     | P      |     | 55.38  | 100.00 | 95.38  |
|                  |                     | C      | T   | 46.15  | 89.74  | 87.18  |
|                  |                     | S      |     | 60.00  | 100.00 | 93.33  |
|                  |                     | P      |     | 52.17  | 94.20  | 89.86  |
| 10               | Telangana           | C      | H   | 15.00  | 97.50  | 97.50  |
|                  |                     | S      |     | 25.00  | 85.00  | 90.00  |
|                  |                     | P      |     | 20.00  | 91.25  | 93.75  |
|                  |                     | C      | T   | 15.00  | 97.50  | 97.50  |
|                  |                     | S      |     | 25.00  | 85.00  | 90.00  |
|                  |                     | P      |     | 20.00  | 91.25  | 93.75  |
| <b>Groundnut</b> |                     |        |     |  |        |        |
| 1                | Andhra Pradesh      | C      | H   | 95.00  | 90.00  | 90.00  |
|                  |                     | S      |     | 94.74  | 94.74  | 89.47  |
|                  |                     | P      |     | 94.87  | 92.31  | 89.74  |
|                  |                     | C      | T   | 95.00  | 90.00  | 90.00  |
|                  |                     | S      |     | 94.74  | 94.74  | 89.47  |
|                  |                     | P      |     | 94.87  | 92.31  | 89.74  |
| 2                | Gujarat             | C      | H   | 63.19  | 87.50  | 94.44  |
|                  |                     | S      |     | 66.67  | 35.63  | 95.40  |
|                  |                     | P      |     | 64.50  | 67.97  | 94.81  |
|                  |                     | C      | T   | 60.67  | 84.00  | 90.67  |
|                  |                     | S      |     | 64.44  | 34.44  | 92.22  |
|                  |                     | P      |     | 62.08  | 65.42  | 91.25  |
| 3                | Karnataka           | C      | H   | 70.59  | 35.29  | 58.82  |
|                  |                     | S      |     | 56.25  | 75.00  | 34.38  |
|                  |                     | P      |     | 61.22  | 61.22  | 42.86  |
|                  |                     | C      | T   | 30.00  | 15.00  | 25.00  |
|                  |                     | S      |     | 56.25  | 75.00  | 34.38  |
|                  |                     | P      |     | 41.67  | 41.67  | 29.17  |
| 4                | Madhya Pradesh      | C      | H   | 10.00  | 25.00  | 65.00  |
|                  |                     | S      |     | 0.00   | 23.33  | 63.33  |
|                  |                     | P      |     | 5.71   | 24.29  | 64.29  |
|                  |                     | C      | T   | 10.00  | 25.00  | 65.00  |
|                  |                     | S      |     | 0.00   | 23.33  | 63.33  |
|                  |                     | P      |     | 5.71   | 24.29  | 64.29  |

| Sl. No.          | State               | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|------------------|---------------------|--------|-----|--|--------|--------|
|                  |                     |        |     | I  | HVV    | F      |
| 1                | 2                   | 3      | 4   | 5  | 6      | 7      |
| 5                | Maharashtra         | C      | H   | 21.43  | 75.00  | 82.14  |
|                  |                     | S      |     | 48.28  | 55.17  | 82.76  |
|                  |                     | P      |     | 30.59  | 68.24  | 82.35  |
|                  |                     | C      | T   | 20.00  | 70.00  | 76.67  |
|                  |                     | S      |     | 38.89  | 44.44  | 66.67  |
|                  |                     | P      |     | 27.08  | 60.42  | 72.92  |
| 6                | Rajasthan           | C      | H   | 87.50  | 68.75  | 87.50  |
|                  |                     | S      |     | 55.00  | 20.00  | 80.00  |
|                  |                     | P      |     | 75.00  | 50.00  | 84.62  |
|                  |                     | C      | T   | 70.00  | 55.00  | 70.00  |
|                  |                     | S      |     | 39.29  | 14.29  | 57.14  |
|                  |                     | P      |     | 57.35  | 38.24  | 64.71  |
| 7                | Tamil Nadu (Kharif) | C      | H   | 21.05  | 100.00 | 42.11  |
|                  |                     | S      |     | 25.81  | 93.55  | 70.97  |
|                  |                     | P      |     | 23.19  | 97.10  | 55.07  |
|                  |                     | C      | T   | 21.05  | 100.00 | 42.11  |
|                  |                     | S      |     | 25.81  | 93.55  | 70.97  |
|                  |                     | P      |     | 23.19  | 97.10  | 55.07  |
|                  | Tamil Nadu (Rabi)   | C      | H   | 76.67  | 100.00 | 76.67  |
|                  |                     | S      |     | 76.47  | 100.00 | 88.24  |
|                  |                     | P      |     | 76.56  | 100.00 | 82.81  |
|                  |                     | C      | T   | 57.50  | 75.00  | 57.50  |
|                  |                     | S      |     | 76.47  | 100.00 | 88.24  |
|                  |                     | P      |     | 66.22  | 86.49  | 71.62  |
| 8                | Telangana           | C      | H   | 77.50  | 87.50  | 90.00  |
|                  |                     | S      |     | 77.50  | 82.50  | 90.00  |
|                  |                     | P      |     | 77.50  | 85.00  | 90.00  |
|                  |                     | C      | T   | 77.50  | 87.50  | 90.00  |
|                  |                     | S      |     | 77.50  | 82.50  | 90.00  |
|                  |                     | P      |     | 77.50  | 85.00  | 90.00  |
| <b>Sugarcane</b> |                     |        |     |  |        |        |
| 1                | Andhra Pradesh      | C      | H   | 100.00   | 53.33  | 90.00  |
|                  |                     | S      |     | 95.92  | 93.88  | 91.84  |
|                  |                     | P      |     | 98.17  | 71.56  | 90.83  |
|                  |                     | C      | T   | 100.00   | 53.33  | 90.00  |
|                  |                     | S      |     | 87.04  | 85.19  | 83.33  |
|                  |                     | P      |     | 93.86  | 68.42  | 86.84  |
| 2                | Assam               | C      | H   | 0.00   | 0.00   | 25.00  |
|                  |                     | S      |     | 0.00   | 0.00   | 25.00  |
|                  |                     | P      |     | 0.00   | 0.00   | 25.00  |
|                  |                     | C      | T   | 0.00   | 0.00   | 2.50   |
|                  |                     | S      |     | 0.00   | 0.00   | 20.00  |
|                  |                     | P      |     | 0.00   | 0.00   | 8.33   |
| 3                | Bihar               | C      | H   | 33.33  | 12.12  | 100.00 |
|                  |                     | S      |     | 65.22  | 39.13  | 82.61  |
|                  |                     | P      |     | 46.43  | 23.21  | 92.86  |
|                  |                     | C      | T   | 27.50  | 10.00  | 82.50  |
|                  |                     | S      |     | 62.50  | 37.50  | 79.17  |
|                  |                     | P      |     | 40.63  | 20.31  | 81.25  |
| 4                | Haryana             | C      | H   | 100.00   | 93.18  | 100.00 |
|                  |                     | S      |     | 95.24  | 100.00 | 100.00 |
|                  |                     | P      |     | 97.67  | 96.51  | 100.00 |
|                  |                     | C      | T   | 100.00   | 93.18  | 100.00 |
|                  |                     | S      |     | 95.24  | 100.00 | 100.00 |
|                  |                     | P      |     | 97.67  | 96.51  | 100.00 |
| 5                | Karnataka           | C      | H   | 100.00   | 92.86  | 92.86  |
|                  |                     | S      |     | 70.59  | 79.41  | 79.41  |
|                  |                     | P      |     | 83.87  | 85.48  | 85.48  |
|                  |                     | C      | T   | 87.50  | 81.25  | 81.25  |
|                  |                     | S      |     | 70.59  | 79.41  | 79.41  |
|                  |                     | P      |     | 78.79  | 80.30  | 80.30  |

| Sl. No.      | State         | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|--------------|---------------|--------|-----|--|--------|--------|
|              |               |        |     | I  | HVV    | F      |
| 1            | 2             | 3      | 4   | 5  | 6      | 7      |
| 6            | Maharashtra   | C      | H   | 94.44  | 86.11  | 94.44  |
|              |               | S      |     | 88.57  | 88.57  | 100.00 |
|              |               | P      |     | 91.55  | 87.32  | 97.18  |
|              |               | C      | T   | 69.39  | 63.27  | 69.39  |
|              |               | S      |     | 77.50  | 77.50  | 87.50  |
|              |               | P      |     | 73.03  | 69.66  | 77.53  |
| 7            | Punjab        | C      | H   | 98.00  | 96.00  | 100.00 |
|              |               | S      |     | 100.00   | 100.00 | 100.00 |
|              |               | P      |     | 98.57  | 97.14  | 100.00 |
|              |               | C      | T   | 98.00  | 96.00  | 100.00 |
|              |               | S      |     | 100.00   | 100.00 | 100.00 |
|              |               | P      |     | 98.57  | 97.14  | 100.00 |
| 8            | Rajasthan     | C      | H   | 100.00   | 41.94  | 54.84  |
|              |               | S      |     | 100.00   | 60.00  | 92.00  |
|              |               | P      |     | 100.00   | 50.00  | 71.43  |
|              |               | C      | T   | 77.50  | 32.50  | 42.50  |
|              |               | S      |     | 83.33  | 50.00  | 76.67  |
|              |               | P      |     | 80.00  | 40.00  | 57.14  |
| 9            | Tamil Nadu    | C      | H   | 97.06  | 97.06  | 88.24  |
|              |               | S      |     | 93.33  | 100.00 | 90.00  |
|              |               | P      |     | 95.31  | 98.44  | 89.06  |
|              |               | C      | T   | 89.19  | 89.19  | 81.08  |
|              |               | S      |     | 93.33  | 100.00 | 90.00  |
|              |               | P      |     | 91.04  | 94.03  | 85.07  |
| 10           | Uttar Pradesh | C      | H   | 91.88  | 54.31  | 99.49  |
|              |               | S      |     | 100.00   | 100.00 | 100.00 |
|              |               | P      |     | 92.42  | 57.35  | 99.53  |
|              |               | C      | T   | 91.88  | 54.31  | 99.49  |
|              |               | S      |     | 100.00   | 100.00 | 100.00 |
|              |               | P      |     | 92.42  | 57.35  | 99.53  |
| 11           | Uttarakhand   | C      | H   | 96.43  | 96.43  | 96.43  |
|              |               | S      |     | 0.00   | 0.00   | 0.00   |
|              |               | P      |     | 96.43  | 96.43  | 96.43  |
|              |               | C      | T   | 96.43  | 96.43  | 96.43  |
|              |               | S      |     | 0.00   | 0.00   | 0.00   |
|              |               | P      |     | 96.43  | 96.43  | 96.43  |
| <b>Wheat</b> |               |        |     |  |        |        |
| 1            | Assam         | C      | H   | 0.00   | 0.00   | 0.00   |
|              |               | S      |     | 0.00   | 0.00   | 100.00 |
|              |               | P      |     | 0.00   | 0.00   | 100.00 |
|              |               | C      | T   | 0.00   | 0.00   | 0.00   |
|              |               | S      |     | 0.00   | 0.00   | 8.33   |
|              |               | P      |     | 0.00   | 0.00   | 2.70   |
| 2            | Bihar         | C      | H   | 100.00   | 50.00  | 100.00 |
|              |               | S      |     | 95.06  | 53.09  | 95.06  |
|              |               | P      |     | 95.29  | 52.94  | 95.29  |
|              |               | C      | T   | 2.11   | 1.05   | 2.11   |
|              |               | S      |     | 79.38  | 44.33  | 79.38  |
|              |               | P      |     | 28.22  | 15.68  | 28.22  |
| 3            | Chhattisgarh  | C      | H   | 0.00   | 0.00   | 0.00   |
|              |               | S      |     | 0.00   | 0.00   | 0.00   |
|              |               | P      |     | 0.00   | 0.00   | 0.00   |
|              |               | C      | T   | 0.00   | 0.00   | 0.00   |
|              |               | S      |     | 0.00   | 0.00   | 0.00   |
|              |               | P      |     | 0.00   | 0.00   | 0.00   |

| Sl. No. | State            | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|---------|------------------|--------|-----|--|--------|--------|
|         |                  |        |     | I  | HVY    | F      |
| 1       | 2                | 3      | 4   | 5  | 6      | 7      |
| 4       | Gujarat          | C      | H   | 85.71  | 83.33  | 100.00 |
|         |                  | S      |     | 100.00   | 61.90  | 100.00 |
|         |                  | P      |     | 92.86  | 72.62  | 100.00 |
|         |                  | C      | T   | 25.35  | 24.65  | 29.58  |
|         |                  | S      |     | 100.00   | 61.90  | 100.00 |
|         |                  | P      |     | 42.39  | 33.15  | 45.65  |
| 5       | Haryana          | C      | H   | 100.00   | 98.13  | 100.00 |
|         |                  | S      |     | 100.00   | 98.94  | 98.94  |
|         |                  | P      |     | 100.00   | 98.43  | 99.61  |
|         |                  | C      | T   | 90.91  | 89.20  | 90.91  |
|         |                  | S      |     | 100.00   | 98.94  | 98.94  |
|         |                  | P      |     | 94.07  | 92.59  | 93.70  |
| 6       | Himachal Pradesh | C      | H   | 0.00   | 0.00   | 0.00   |
|         |                  | S      |     | 0.00   | 9.09   | 27.27  |
|         |                  | P      |     | 0.00   | 9.09   | 27.27  |
|         |                  | C      | T   | 0.00   | 0.00   | 0.00   |
|         |                  | S      |     | 0.00   | 6.67   | 20.00  |
|         |                  | P      |     | 0.00   | 1.64   | 4.92   |
| 7       | Jammu & Kashmir  | C      | H   | 0.00   | 0.00   | 0.00   |
|         |                  | S      |     | 16.67  | 100.00 | 100.00 |
|         |                  | P      |     | 16.67  | 100.00 | 100.00 |
|         |                  | C      | T   | 0.00   | 0.00   | 0.00   |
|         |                  | S      |     | 1.67   | 10.00  | 10.00  |
|         |                  | P      |     | 0.83   | 5.00   | 5.00   |
| 8       | Jharkhand        | C      | H   | 100.00   | 100.00 | 100.00 |
|         |                  | S      |     | 25.00  | 12.50  | 40.63  |
|         |                  | P      |     | 29.41  | 17.65  | 44.12  |
|         |                  | C      | T   | 5.00   | 5.00   | 5.00   |
|         |                  | S      |     | 25.00  | 12.50  | 40.63  |
|         |                  | P      |     | 13.89  | 8.33   | 20.83  |
| 9       | Karnataka        | C      | H   | 65.00  | 60.00  | 75.00  |
|         |                  | S      |     | 56.52  | 54.35  | 8.70   |
|         |                  | P      |     | 60.47  | 56.98  | 39.53  |
|         |                  | C      | T   | 52.00  | 48.00  | 60.00  |
|         |                  | S      |     | 56.52  | 54.35  | 8.70   |
|         |                  | P      |     | 54.17  | 51.04  | 35.42  |
| 10      | Madhya Pradesh   | C      | H   | 72.97  | 59.46  | 94.59  |
|         |                  | S      |     | 67.72  | 43.04  | 78.48  |
|         |                  | P      |     | 68.72  | 46.15  | 81.54  |
|         |                  | C      | T   | 10.80  | 8.80   | 14.00  |
|         |                  | S      |     | 67.62  | 43.04  | 78.48  |
|         |                  | P      |     | 32.84  | 22.06  | 38.97  |
| 11      | Maharashtra      | C      | H   | 87.18  | 97.44  | 92.31  |
|         |                  | S      |     | 85.37  | 71.95  | 85.37  |
|         |                  | P      |     | 85.95  | 80.17  | 87.60  |
|         |                  | C      | T   | 30.36  | 33.93  | 32.14  |
|         |                  | S      |     | 77.78  | 65.56  | 77.78  |
|         |                  | P      |     | 51.59  | 48.02  | 52.48  |
| 12      | Punjab           | C      | H   | 100.00   | 100.00 | 100.00 |
|         |                  | S      |     | 98.40  | 92.80  | 99.20  |
|         |                  | P      |     | 98.98  | 95.43  | 99.49  |
|         |                  | C      | T   | 32.88  | 32.88  | 32.88  |
|         |                  | S      |     | 98.40  | 92.80  | 99.20  |
|         |                  | P      |     | 56.69  | 54.65  | 56.98  |

| Sl. No.       | State            | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|---------------|------------------|--------|-----|--|--------|--------|
|               |                  |        |     | I  | HVV    | F      |
| 1             | 2                | 3      | 4   | 5  | 6      | 7      |
| 13            | Rajasthan        | C      | H   | 88.24  | 58.82  | 41.18  |
|               |                  | S      |     | 99.01  | 61.39  | 88.12  |
|               |                  | P      |     | 95.39  | 60.53  | 72.37  |
|               |                  | C      | T   | 38.14  | 25.42  | 17.80  |
|               |                  | S      |     | 83.33  | 51.67  | 74.17  |
|               |                  | P      |     | 60.92  | 38.66  | 46.22  |
| 14            | Uttar Pradesh    | C      | H   | 93.33  | 76.67  | 93.33  |
|               |                  | S      |     | 100.00   | 92.41  | 68.35  |
|               |                  | P      |     | 97.12  | 85.61  | 79.14  |
|               |                  | C      | T   | 10.00  | 8.21   | 10.00  |
|               |                  | S      |     | 100.00   | 92.41  | 68.35  |
|               |                  | P      |     | 21.13  | 18.62  | 17.21  |
| 15            | Uttarakhand      | C      | H   | 0.00   | 0.00   | 0.00   |
|               |                  | S      |     | 65.22  | 41.30  | 41.30  |
|               |                  | P      |     | 65.22  | 41.30  | 41.30  |
|               |                  | C      | T   | 0.00   | 0.00   | 0.00   |
|               |                  | S      |     | 50.00  | 31.67  | 31.67  |
|               |                  | P      |     | 25.00  | 15.83  | 15.83  |
| 16            | West Bengal      | C      | H   | 0.00   | 0.00   | 0.00   |
|               |                  | S      |     | 0.00   | 0.00   | 0.00   |
|               |                  | P      |     | 0.00   | 0.00   | 0.00   |
|               |                  | C      | T   | 0.00   | 0.00   | 0.00   |
|               |                  | S      |     | 0.00   | 0.00   | 0.00   |
|               |                  | P      |     | 0.00   | 0.00   | 0.00   |
| <b>Barley</b> |                  |        |     |  |        |        |
| 1             | Haryana          | C      | H   | 100.00   | 100.00 | 100.00 |
|               |                  | S      |     | 100.00   | 100.00 | 100.00 |
|               |                  | P      |     | 100.00   | 100.00 | 100.00 |
|               |                  | C      | T   | 78.57  | 78.57  | 78.57  |
|               |                  | S      |     | 100.00   | 100.00 | 100.00 |
|               |                  | P      |     | 86.36  | 86.36  | 86.36  |
| 2             | Himachal Pradesh | C      | H   | 0.00   | 0.00   | 0.00   |
|               |                  | S      |     | 0.00   | 0.00   | 20.00  |
|               |                  | P      |     | 0.00   | 0.00   | 20.00  |
|               |                  | C      | T   | 0.00   | 0.00   | 0.00   |
|               |                  | S      |     | 0.00   | 0.00   | 14.29  |
|               |                  | P      |     | 0.00   | 0.00   | 4.55   |
| 3             | Punjab           | C      | H   | 0.00   | 0.00   | 0.00   |
|               |                  | S      |     | 100.00   | 100.00 | 100.00 |
|               |                  | P      |     | 100.00   | 100.00 | 100.00 |
|               |                  | C      | T   | 0.00   | 0.00   | 0.00   |
|               |                  | S      |     | 100.00   | 100.00 | 100.00 |
|               |                  | P      |     | 25.00  | 25.00  | 25.00  |
| 4             | Rajasthan        | C      | H   | 95.45  | 81.82  | 54.55  |
|               |                  | S      |     | 98.44  | 39.06  | 81.25  |
|               |                  | P      |     | 97.67  | 50.00  | 74.42  |
|               |                  | C      | T   | 31.82  | 27.27  | 18.18  |
|               |                  | S      |     | 82.89  | 32.89  | 68.42  |
|               |                  | P      |     | 59.15  | 30.28  | 45.07  |
| <b>Gram</b>   |                  |        |     |  |        |        |
| 1             | Andhra Pradesh   | C      | H   | 10.00  | 96.67  | 100.00 |
|               |                  | S      |     | 0.00   | 100.00 | 98.28  |
|               |                  | P      |     | 5.08   | 98.31  | 99.15  |
|               |                  | C      | T   | 10.00  | 96.67  | 100.00 |
|               |                  | S      |     | 0.00   | 100.00 | 98.28  |
|               |                  | P      |     | 5.08   | 98.31  | 99.15  |

| Sl. No. | State          | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|---------|----------------|--------|-----|--|--------|--------|
|         |                |        |     | I  | HVY    | F      |
| 1       | 2              | 3      | 4   | 5  | 6      | 7      |
| 2       | Bihar          | C      | H   | 100.00   | 100.00 | 100.00 |
|         |                | S      |     | 8.33   | 0.00   | 58.33  |
|         |                | P      |     | 15.38  | 7.69   | 61.54  |
|         |                | C      | T   | 6.67   | 6.67   | 6.67   |
|         |                | S      |     | 7.14   | 0.00   | 50.00  |
|         |                | P      |     | 6.90   | 3.45   | 27.59  |
| 3       | Chhattisgarh   | C      | H   | 100.00   | 100.00 | 100.00 |
|         |                | S      |     | 0.00   | 0.00   | 0.00   |
|         |                | P      |     | 100.00   | 100.00 | 100.00 |
|         |                | C      | T   | 5.00   | 5.00   | 5.00   |
|         |                | S      |     | 0.00   | 0.00   | 0.00   |
|         |                | P      |     | 2.78   | 2.78   | 2.78   |
| 4       | Gujarat        | C      | H   | 46.67  | 73.33  | 60.00  |
|         |                | S      |     | 100.00   | 100.00 | 100.00 |
|         |                | P      |     | 42.94  | 76.47  | 64.71  |
|         |                | C      | T   | 21.21  | 33.33  | 27.27  |
|         |                | S      |     | 100.00   | 100.00 | 100.00 |
|         |                | P      |     | 25.71  | 37.14  | 31.43  |
| 5       | Haryana        | C      | H   | 63.64  | 77.27  | 51.52  |
|         |                | S      |     | 75.00  | 91.67  | 58.33  |
|         |                | P      |     | 66.67  | 81.11  | 53.33  |
|         |                | C      | T   | 60.00  | 72.86  | 48.57  |
|         |                | S      |     | 75.00  | 91.67  | 58.33  |
|         |                | P      |     | 63.83  | 77.66  | 51.06  |
| 6       | Jharkhand      | C      | H   | 0.00   | 0.00   | 100.00 |
|         |                | S      |     | 37.50  | 37.50  | 37.50  |
|         |                | P      |     | 33.33  | 33.33  | 44.44  |
|         |                | C      | T   | 0.00   | 0.00   | 10.00  |
|         |                | S      |     | 37.50  | 37.50  | 37.50  |
|         |                | P      |     | 16.67  | 16.67  | 22.22  |
| 7       | Karnataka      | C      | H   | 21.21  | 33.33  | 63.64  |
|         |                | S      |     | 20.00  | 72.50  | 25.00  |
|         |                | P      |     | 20.55  | 54.79  | 42.47  |
|         |                | C      | T   | 18.42  | 28.95  | 55.26  |
|         |                | S      |     | 20.00  | 72.50  | 25.00  |
|         |                | P      |     | 19.23  | 51.28  | 39.74  |
| 8       | Madhya Pradesh | C      | H   | 57.89  | 23.68  | 78.95  |
|         |                | S      |     | 43.59  | 25.64  | 57.69  |
|         |                | P      |     | 48.28  | 25.00  | 64.66  |
|         |                | C      | T   | 15.71  | 6.43   | 21.43  |
|         |                | S      |     | 43.59  | 25.64  | 57.69  |
|         |                | P      |     | 25.69  | 13.30  | 34.40  |
| 9       | Maharashtra    | C      | H   | 45.28  | 88.68  | 88.68  |
|         |                | S      |     | 58.06  | 70.97  | 67.74  |
|         |                | P      |     | 52.17  | 79.13  | 77.39  |
|         |                | C      | T   | 29.27  | 57.32  | 57.32  |
|         |                | S      |     | 58.06  | 70.97  | 67.74  |
|         |                | P      |     | 41.67  | 63.19  | 61.81  |
| 10      | Punjab         | C      | H   | 0.00   | 0.00   | 0.00   |
|         |                | S      |     | 0.00   | 0.00   | 0.00   |
|         |                | P      |     | 0.00   | 0.00   | 0.00   |
|         |                | C      | T   | 0.00   | 0.00   | 0.00   |
|         |                | S      |     | 0.00   | 0.00   | 0.00   |
|         |                | P      |     | 0.00   | 0.00   | 0.00   |

| Sl. No.                   | State          | Agency | H/T | Percentage of Experiments under various inputs for crops |        |        |
|---------------------------|----------------|--------|-----|--|--------|--------|
|                           |                |        |     | I  | HVY    | F      |
| 1                         | 2              | 3      | 4   | 5  | 6      | 7      |
| 11                        | Rajasthan      | C      | H   | 24.32  | 32.43  | 51.35  |
|                           |                | S      |     | 46.81  | 22.34  | 47.87  |
|                           |                | P      |     | 40.46  | 25.19  | 48.85  |
|                           |                | C      | T   | 8.04   | 10.71  | 16.96  |
|                           |                | S      |     | 40.00  | 19.09  | 40.91  |
|                           |                | P      |     | 23.87  | 14.86  | 28.83  |
| 12                        | Uttar Pradesh  | C      | H   | 0.00   | 10.00  | 5.00   |
|                           |                | S      |     | 0.00   | 100.00 | 100.00 |
|                           |                | P      |     | 0.00   | 25.00  | 20.83  |
|                           |                | C      | T   | 0.00   | 4.35   | 2.17   |
|                           |                | S      |     | 0.00   | 100.00 | 100.00 |
|                           |                | P      |     | 0.00   | 12.00  | 10.00  |
| <b>Rape &amp; Mustard</b> |                |        |     |  |        |        |
| 1                         | Assam          | C      | H   | 0.00   | 0.00   | 50.00  |
|                           |                | S      |     | 5.88   | 0.00   | 76.47  |
|                           |                | P      |     | 2.38   | 0.00   | 60.71  |
|                           |                | C      | T   | 0.00   | 0.00   | 35.71  |
|                           |                | S      |     | 4.35   | 0.00   | 56.52  |
|                           |                | P      |     | 1.72   | 0.00   | 43.97  |
| 2                         | Bihar          | C      | H   | 86.96  | 30.43  | 86.96  |
|                           |                | S      |     | 100.00   | 36.36  | 100.00 |
|                           |                | P      |     | 94.64  | 33.93  | 94.64  |
|                           |                | C      | T   | 58.82  | 20.59  | 58.82  |
|                           |                | S      |     | 100.00   | 36.36  | 100.00 |
|                           |                | P      |     | 79.10  | 28.36  | 79.10  |
| 3                         | Chhattisgarh   | C      | H   | 0.00   | 0.00   | 14.29  |
|                           |                | S      |     | 0.00   | 0.00   | 0.00   |
|                           |                | P      |     | 0.00   | 0.00   | 7.69   |
|                           |                | C      | T   | 0.00   | 0.00   | 6.67   |
|                           |                | S      |     | 0.00   | 0.00   | 0.00   |
|                           |                | P      |     | 0.00   | 0.00   | 4.55   |
| 4                         | Gujarat        | C      | H   | 92.00  | 100.00 | 92.00  |
|                           |                | S      |     | 92.00  | 60.00  | 84.00  |
|                           |                | P      |     | 92.00  | 80.00  | 88.00  |
|                           |                | C      | T   | 56.10  | 60.98  | 56.10  |
|                           |                | S      |     | 92.00  | 60.00  | 84.00  |
|                           |                | P      |     | 69.70  | 60.61  | 66.67  |
| 5                         | Haryana        | C      | H   | 100.00   | 96.88  | 96.88  |
|                           |                | S      |     | 97.62  | 100.00 | 90.48  |
|                           |                | P      |     | 99.06  | 98.11  | 94.34  |
|                           |                | C      | T   | 91.43  | 88.57  | 88.57  |
|                           |                | S      |     | 97.62  | 100.00 | 90.48  |
|                           |                | P      |     | 93.75  | 92.86  | 89.29  |
| 6                         | Jharkhand      | C      | H   | 85.71  | 57.14  | 92.86  |
|                           |                | S      |     | 28.57  | 7.14   | 14.29  |
|                           |                | P      |     | 57.14  | 32.14  | 53.57  |
|                           |                | C      | T   | 60.00  | 40.00  | 65.00  |
|                           |                | S      |     | 28.57  | 7.14   | 14.29  |
|                           |                | P      |     | 47.06  | 26.47  | 44.12  |
| 7                         | Madhya Pradesh | C      | H   | 60.87  | 43.48  | 60.87  |
|                           |                | S      |     | 30.00  | 30.00  | 30.00  |
|                           |                | P      |     | 51.52  | 39.39  | 51.52  |
|                           |                | C      | T   | 46.67  | 30.33  | 46.67  |
|                           |                | S      |     | 30.00  | 30.00  | 30.00  |
|                           |                | P      |     | 42.50  | 32.50  | 42.50  |

| Sl. No. | State         | Agency | H/T | Percentage of Experiments under various inputs for crops |       |        |
|---------|---------------|--------|-----|--|-------|--------|
|         |               |        |     | I  | HYV   | F      |
| 1       | 2             | 3      | 4   | 5  | 6     | 7      |
| 8       | Punjab        | C      | H   | 86.67  | 86.67 | 100.00 |
|         |               | S      |     | 68.18  | 90.91 | 81.82  |
|         |               | P      |     | 75.68  | 89.19 | 89.19  |
|         |               | C      | T   | 32.50  | 32.50 | 37.50  |
|         |               | S      |     | 68.18  | 90.91 | 81.82  |
|         |               | P      |     | 45.16  | 53.23 | 53.23  |
| 9       | Rajasthan     | C      | H   | 93.10  | 82.76 | 96.55  |
|         |               | S      |     | 87.01  | 59.74 | 92.21  |
|         |               | P      |     | 88.68  | 66.04 | 93.40  |
|         |               | C      | T   | 30.00  | 26.67 | 31.11  |
|         |               | S      |     | 83.75  | 57.50 | 88.75  |
|         |               | P      |     | 55.29  | 41.18 | 58.24  |
| 10      | Uttar Pradesh | C      | H   | 86.44  | 89.83 | 93.22  |
|         |               | S      |     | 73.33  | 86.67 | 86.67  |
|         |               | P      |     | 83.78  | 89.19 | 91.89  |
|         |               | C      | T   | 58.62  | 60.92 | 63.22  |
|         |               | S      |     | 73.33  | 86.67 | 86.67  |
|         |               | P      |     | 60.78  | 64.71 | 66.67  |
| 11      | West Bengal   | C      | H   | 81.82  | 84.55 | 100.00 |
|         |               | S      |     | 0.00   | 0.00  | 0.00   |
|         |               | P      |     | 81.82  | 84.55 | 100.00 |
|         |               | C      | T   | 81.82  | 84.55 | 100.00 |
|         |               | S      |     | 0.00   | 0.00  | 0.00   |
|         |               | P      |     | 81.82  | 84.55 | 100.00 |

**INCIDENCE OF ERRORS IN CONDUCTING CROP CUTTING EXPERIMENTS  
DURING 2019-20**

| Sl. No.          | State            | Season       | A<br>G<br>E<br>N<br>C<br>Y | % of Expts. where no error noticed | Percentage of experiments where errors noticed |                |                |                |                |                |                |                |    |    |
|------------------|------------------|--------------|----------------------------|------------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|
|                  |                  |              |                            |                                    | e <sub>1</sub>                                 | e <sub>2</sub> | e <sub>3</sub> | e <sub>4</sub> | e <sub>5</sub> | e <sub>6</sub> | e <sub>7</sub> | e <sub>8</sub> |    |    |
| 1                | 2                | 3            | 4                          | 5                                  | 6  | 7              | 8              | 9              | 10             | 11             | 12             | 13             |    |    |
| 1                | Andhra Pradesh   | Kharif       | C                          | 72                                 | 0  | 0              | 6              | 6              | 0              | 8              | 1              | 18             |    |    |
|                  |                  |              | S                          | 42                                 | 0  | 0              | 0              | 2              | 1              | 3              | 0              | 55             |    |    |
|                  |                  |              | P                          | 57                                 | 0  | 0              | 3              | 4              | 1              | 6              | 1              | 36             |    |    |
|                  |                  | Rabi         | C                          | 83                                 | 1  | 1              | 2              | 3              | 0              | 9              | 0              | 7              |    |    |
|                  |                  |              | S                          | 54                                 | 0  | 0              | 0              | 1              | 1              | 6              | 0              | 42             |    |    |
|                  |                  |              | P                          | 69                                 | 0  | 1              | 1              | 2              | 0              | 7              | 0              | 24             |    |    |
| 2                | Assam            | Early Kharif | C                          | 84                                 | 0  | 0              | 0              | 0              | 0              | 6              | 0              | 11             |    |    |
|                  |                  |              | S                          | 69                                 | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 31             |    |    |
|                  |                  |              | P                          | 76                                 | 0  | 0              | 0              | 0              | 0              | 3              | 0              | 22             |    |    |
|                  |                  | Late Kharif  | C                          | 97                                 | 0  | 0              | 0              | 2              | 0              | 2              | 0              | 0              |    |    |
|                  |                  |              | S                          | 64                                 | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 38             |    |    |
|                  |                  |              | P                          | 82                                 | 0  | 0              | 0              | 1              | 0              | 1              | 0              | 17             |    |    |
|                  |                  | Rabi         | C                          | 75                                 | 0  | 0              | 2              | 0              | 0              | 5              | 0              | 20             |    |    |
|                  |                  |              | S                          | 100                                | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              |    |    |
|                  |                  |              | P                          | 85                                 | 0  | 0              | 1              | 0              | 0              | 3              | 0              | 12             |    |    |
|                  |                  | Summer       | C                          | 100                                | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0  |    |
|                  |                  |              | S                          | 100                                | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0  |    |
|                  |                  |              | P                          | 100                                | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0  |    |
|                  |                  | 3            | Bihar                      | Autumn (Bhadai)                    | C  | 73             | 0              | 0              | 1              | 3              | 0              | 15             | 0  | 11 |
|                  |                  |              |                            |                                    | S  | 13             | 0              | 0              | 0              | 0              | 0              | 3              | 0  | 85 |
|                  |                  |              |                            |                                    | P  | 43             | 0              | 0              | 1              | 1              | 0              | 9              | 0  | 47 |
| Winter (Agahani) | C                |              |                            | 77                                 | 0  | 0              | 1              | 1              | 0              | 19             | 0              | 7              |    |    |
|                  | S                |              |                            | 31                                 | 0  | 0              | 0              | 0              | 1              | 3              | 1              | 68             |    |    |
|                  | P                |              |                            | 54                                 | 0  | 0              | 0              | 1              | 1              | 11             | 0              | 37             |    |    |
| Rabi             | C                |              |                            | 79                                 | 0  | 0              | 14             | 0              | 0              | 7              | 0              | 7              |    |    |
|                  | S                |              |                            | 4                                  | 0  | 0              | 0              | 0              | 0              | 5              | 2              | 96             |    |    |
|                  | P                |              |                            | 15                                 | 0  | 0              | 2              | 0              | 0              | 6              | 2              | 83             |    |    |
| Summer           | C                |              |                            | NC                                 | NC   | NC             | NC             | NC             | NC             | NC             | NC             | NC             | NC |    |
|                  | S                |              |                            | 94                                 | 0  | 0              | 0              | 0              | 0              | 0              | 6              | 6              |    |    |
|                  | P                |              |                            | 94                                 | 0  | 0              | 0              | 0              | 0              | 0              | 6              | 6              |    |    |
| 4                | Chhattisgarh     | Kharif       | C                          | 86                                 | 2  | 1              | 1              | 5              | 2              | 5              | 0              | 5              |    |    |
|                  |                  |              | S                          | 99                                 | 0  | 0              | 1              | 0              | 0              | 0              | 0              | 0              |    |    |
|                  |                  |              | P                          | 93                                 | 1  | 1              | 1              | 3              | 1              | 2              | 0              | 2              |    |    |
|                  |                  | Rabi         | C                          | 69                                 | 0  | 0              | 4              | 23             | 4              | 0              | 0              | 23             |    |    |
|                  |                  |              | S                          | 80                                 | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 20             |    |    |
|                  |                  |              | P                          | 74                                 | 0  | 0              | 2              | 13             | 2              | 0              | 0              | 22             |    |    |
| 5                | Gujarat          | Kharif       | C                          | 72                                 | 0  | 0              | 0              | 0              | 0              | 8              | 0              | 20             |    |    |
|                  |                  |              | S                          | 51                                 | 0  | 0              | 1              | 1              | 0              | 4              | 1              | 46             |    |    |
|                  |                  |              | P                          | 64                                 | 0  | 0              | 1              | 1              | 0              | 7              | 0              | 30             |    |    |
|                  |                  | Rabi         | C                          | 83                                 | 0  | 0              | 2              | 1              | 0              | 2              | 0              | 12             |    |    |
|                  |                  |              | S                          | 75                                 | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 25             |    |    |
|                  |                  |              | P                          | 79                                 | 0  | 0              | 1              | 1              | 0              | 1              | 0              | 18             |    |    |
| 6                | Haryana          | Kharif       | C                          | 82                                 | 0  | 0              | 3              | 3              | 0              | 12             | 1              | 4              |    |    |
|                  |                  |              | S                          | 82                                 | 0  | 0              | 0              | 0              | 0              | 3              | 0              | 17             |    |    |
|                  |                  |              | P                          | 82                                 | 0  | 0              | 2              | 2              | 0              | 9              | 0              | 8              |    |    |
|                  |                  | Rabi         | C                          | 93                                 | 0  | 0              | 1              | 0              | 0              | 7              | 0              | 0              |    |    |
|                  |                  |              | S                          | 85                                 | 0  | 0              | 1              | 0              | 1              | 7              | 0              | 6              |    |    |
|                  |                  |              | P                          | 90                                 | 0  | 0              | 1              | 0              | 0              | 7              | 0              | 2              |    |    |
| 7                | Himachal Pradesh | Kharif       | C                          | 70                                 | 0  | 1              | 8              | 17             | 2              | 7              | 0              | 15             |    |    |
|                  |                  |              | S                          | 80                                 | 0  | 0              | 8              | 7              | 6              | 13             | 0              | 9              |    |    |
|                  |                  |              | P                          | 74                                 | 0  | 0              | 8              | 12             | 3              | 10             | 0              | 12             |    |    |
|                  |                  | Rabi         | C                          | NC                                 | NC   | NC             | NC             | NC             | NC             | NC             | NC             | NC             |    |    |
|                  |                  |              | S                          | 66                                 | 0  | 0              | 0              | 0              | 19             | 28             | 0              | 0              |    |    |
|                  |                  |              | P                          | 66                                 | 0  | 0              | 0              | 0              | 19             | 28             | 0              | 0              |    |    |

## ANNEX VIII (Contd.....)

| S. No. | State           | Season                | A<br>G<br>E<br>N<br>C<br>Y | % of Expts. where no error noticed | Percentage of experiments where errors noticed |                |                |                |                |                |                |                |    |    |
|--------|-----------------|-----------------------|----------------------------|------------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|
|        |                 |                       |                            |                                    | e <sub>1</sub>                                 | e <sub>2</sub> | e <sub>3</sub> | e <sub>4</sub> | e <sub>5</sub> | e <sub>6</sub> | e <sub>7</sub> | e <sub>8</sub> |    |    |
| 1      | 2               | 3                     | 4                          | 5                                  | 6  | 7              | 8              | 9              | 10             | 11             | 12             | 13             |    |    |
| 8      | Jammu & Kashmir | Kharif                | C                          | 79                                 | 1  | 1              | 9              | 13             | 0              | 7              | 0              | 1              |    |    |
|        |                 |                       | S                          | 26                                 | 0  | 0              | 15             | 6              | 3              | 2              | 4              | 70             |    |    |
|        |                 |                       | P                          | 52                                 | 1  | 1              | 13             | 9              | 2              | 5              | 2              | 37             |    |    |
|        |                 | Rabi                  | C                          | NC                                 | NC   | NC             | NC             | NC             | NC             | NC             | NC             | NC             | NC |    |
|        |                 |                       | S                          | 0                                  | 0  | 0              | 0              | 50             | 0              | 0              | 100            | 100            |    |    |
|        |                 |                       | P <sup>A</sup>             | 0                                  | 0  | 0              | 0              | 50             | 0              | 0              | 100            | 100            |    |    |
| 9      | Jharkhand       | Early Kharif (Bhadai) | C                          | 58                                 | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 43             |    |    |
|        |                 |                       | S                          | 100                                | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              |    |    |
|        |                 |                       | P                          | 76                                 | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 24             |    |    |
|        |                 | Late Kharif (Agahani) | C                          | 65                                 | 0  | 0              | 0              | 1              | 0              | 3              | 0              | 33             |    |    |
|        |                 |                       | S                          | 96                                 | 0  | 0              | 0              | 0              | 4              | 0              | 0              | 0              |    |    |
|        |                 |                       | P                          | 78                                 | 0  | 0              | 0              | 1              | 1              | 1              | 0              | 19             |    |    |
|        |                 | Rabi                  | C                          | 56                                 | 0  | 0              | 6              | 6              | 0              | 0              | 0              | 39             |    |    |
|        |                 |                       | S                          | 98                                 | 0  | 0              | 0              | 0              | 0              | 0              | 2              | 0              |    |    |
|        |                 |                       | P                          | 90                                 | 0  | 0              | 1              | 1              | 0              | 0              | 2              | 7              |    |    |
|        |                 | 10                    | Karnataka                  | Kharif                             | C  | 66             | 0              | 1              | 2              | 6              | 0              | 11             | 0  | 24 |
|        |                 |                       |                            |                                    | S  | 59             | 0              | 0              | 1              | 2              | 0              | 10             | 0  | 38 |
|        |                 |                       |                            |                                    | P  | 62             | 0              | 1              | 1              | 4              | 0              | 10             | 0  | 32 |
| Rabi   | C               |                       |                            | 67                                 | 0  | 1              | 1              | 2              | 1              | 22             | 2              | 27             |    |    |
|        | S               |                       |                            | 62                                 | 0  | 0              | 0              | 2              | 1              | 14             | 1              | 24             |    |    |
|        | P               |                       |                            | 64                                 | 0  | 0              | 0              | 2              | 1              | 18             | 1              | 26             |    |    |
| Summer | C               |                       |                            | 51                                 | 0  | 0              | 0              | 2              | 0              | 2              | 0              | 47             |    |    |
|        | S               |                       |                            | 61                                 | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 39             |    |    |
|        | P               |                       |                            | 56                                 | 0  | 0              | 0              | 1              | 0              | 1              | 0              | 43             |    |    |
| 11     | Kerala          |                       |                            | Autumn                             | C  | 81             | 0              | 0              | 3              | 1              | 0              | 2              | 0  | 14 |
|        |                 |                       |                            |                                    | S  | 83             | 0              | 0              | 0              | 0              | 0              | 10             | 0  | 6  |
|        |                 |                       |                            |                                    | P  | 82             | 0              | 0              | 2              | 1              | 0              | 6              | 0  | 10 |
|        |                 | Winter                | C                          | 79                                 | 0  | 0              | 1              | 1              | 1              | 8              | 1              | 9              |    |    |
|        |                 |                       | S                          | 99                                 | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 1              |    |    |
|        |                 |                       | P                          | 89                                 | 0  | 0              | 1              | 1              | 1              | 4              | 1              | 5              |    |    |
|        |                 | Summer                | C                          | 74                                 | 0  | 0              | 0              | 0              | 0              | 2              | 0              | 24             |    |    |
|        |                 |                       | S                          | 81                                 | 0  | 0              | 0              | 0              | 0              | 1              | 0              | 18             |    |    |
|        |                 |                       | P                          | 77                                 | 0  | 0              | 0              | 0              | 0              | 2              | 0              | 21             |    |    |
|        |                 | 12                    | Madhya Pradesh             | Kharif                             | C  | 88             | 1              | 1              | 1              | 1              | 1              | 6              | 0  | 4  |
|        |                 |                       |                            |                                    | S  | 80             | 0              | 0              | 0              | 0              | 1              | 1              | 0  | 19 |
|        |                 |                       |                            |                                    | P  | 85             | 0              | 0              | 0              | 1              | 1              | 4              | 0  | 10 |
| Rabi   | C               |                       |                            | 91                                 | 1  | 0              | 1              | 3              | 0              | 1              | 1              | 5              |    |    |
|        | S               |                       |                            | 78                                 | 0  | 0              | 0              | 0              | 0              | 1              | 0              | 21             |    |    |
|        | P               |                       |                            | 82                                 | 0  | 0              | 0              | 1              | 0              | 1              | 0              | 17             |    |    |
| 13     | Maharashtra     | Kharif                | C                          | 55                                 | 1  | 2              | 11             | 27             | 1              | 15             | 3              | 22             |    |    |
|        |                 |                       | S                          | 27                                 | 0  | 0              | 1              | 1              | 1              | 2              | 0              | 72             |    |    |
|        |                 |                       | P                          | 43                                 | 1  | 2              | 7              | 16             | 1              | 9              | 1              | 44             |    |    |
|        |                 | Rabi                  | C                          | 59                                 | 2  | 1              | 13             | 32             | 0              | 9              | 1              | 15             |    |    |
|        |                 |                       | S                          | 31                                 | 0  | 0              | 0              | 0              | 0              | 2              | 0              | 68             |    |    |
|        |                 |                       | P                          | 42                                 | 1  | 0              | 5              | 13             | 0              | 5              | 0              | 47             |    |    |
| 14     | Odisha          | Autumn                | C                          | 87                                 | 0  | 0              | 2              | 1              | 0              | 1              | 0              | 11             |    |    |
|        |                 |                       | S                          | 65                                 | 0  | 0              | 0              | 2              | 0              | 9              | 10             | 23             |    |    |
|        |                 |                       | P                          | 76                                 | 0  | 0              | 1              | 1              | 0              | 5              | 5              | 17             |    |    |
|        |                 | Winter                | C                          | 85                                 | 0  | 0              | 1              | 0              | 0              | 1              | 0              | 14             |    |    |
|        |                 |                       | S                          | 83                                 | 0  | 0              | 0              | 0              | 1              | 1              | 4              | 12             |    |    |
|        |                 |                       | P                          | 84                                 | 0  | 0              | 0              | 0              | 0              | 1              | 2              | 13             |    |    |
|        |                 | Summer                | C                          | 100                                | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              |    |    |
|        |                 |                       | S                          | 59                                 | 0  | 0              | 0              | 0              | 0              | 0              | 1              | 41             |    |    |
|        |                 |                       | P                          | 62                                 | 0  | 0              | 0              | 0              | 0              | 0              | 1              | 38             |    |    |

| S. No. | State         | Season            | A<br>G<br>E<br>N<br>C<br>Y | % of Expts. where no error noticed | Percentage of experiments where errors noticed |                |                |                |                |                |                |                |
|--------|---------------|-------------------|----------------------------|------------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|        |               |                   |                            |                                    | e <sub>1</sub>                                 | e <sub>2</sub> | e <sub>3</sub> | e <sub>4</sub> | e <sub>5</sub> | e <sub>6</sub> | e <sub>7</sub> | e <sub>8</sub> |
| 1      | 2             | 3                 | 4                          | 5                                  | 6  | 7              | 8              | 9              | 10             | 11             | 12             | 13             |
| 15     | Punjab        | Kharif            | C                          | 67                                 | 0  | 0              | 4              | 4              | 1              | 21             | 0              | 15             |
|        |               |                   | S                          | 89                                 | 0  | 0              | 0              | 2              | 0              | 7              | 0              | 1              |
|        |               |                   | P                          | 76                                 | 0  | 0              | 2              | 3              | 1              | 16             | 0              | 9              |
|        |               | Rabi              | C                          | 67                                 | 0  | 0              | 1              | 6              | 0              | 1              | 0              | 26             |
|        | S             |                   | 92                         | 0                                  | 0  | 0              | 2              | 0              | 7              | 0              | 1              |                |
|        | P             |                   | 83                         | 0                                  | 0  | 0              | 3              | 0              | 5              | 0              | 10             |                |
| 16     | Rajasthan     | Kharif            | C                          | 58                                 | 2  | 2              | 5              | 8              | 1              | 41             | 0              | 9              |
|        |               |                   | S                          | 57                                 | 0  | 0              | 0              | 0              | 0              | 7              | 0              | 41             |
|        |               |                   | P                          | 58                                 | 1  | 1              | 3              | 4              | 1              | 25             | 0              | 23             |
|        |               | Rabi              | C                          | 42                                 | 1  | 5              | 4              | 2              | 0              | 24             | 0              | 37             |
|        | S             |                   | 51                         | 0                                  | 1  | 0              | 0              | 0              | 3              | 0              | 46             |                |
|        | P             |                   | 49                         | 0                                  | 2  | 1              | 1              | 0              | 9              | 0              | 43             |                |
| 17     | Tamil Nadu #  | Kharif            | C                          | 79                                 | 4  | 3              | 6              | 3              | 0              | 12             | 1              | 4              |
|        |               |                   | S                          | 80                                 | 0  | 0              | 4              | 3              | 7              | 7              | 1              | 3              |
|        |               |                   | P                          | 79                                 | 2  | 2              | 5              | 3              | 3              | 10             | 1              | 4              |
|        |               | Rabi              | C                          | 78                                 | 2  | 1              | 4              | 5              | 2              | 16             | 3              | 3              |
|        | S             |                   | 92                         | 0                                  | 0  | 0              | 2              | 0              | 5              | 2              | 1              |                |
|        | P             |                   | 85                         | 1                                  | 1  | 2              | 3              | 1              | 10             | 2              | 2              |                |
| 18     | Telangana     | Kharif            | C                          | 79                                 | 0  | 0              | 1              | 1              | 0              | 6              | 1              | 13             |
|        |               |                   | S                          | 54                                 | 0  | 0              | 8              | 3              | 2              | 10             | 1              | 34             |
|        |               |                   | P                          | 66                                 | 0  | 0              | 4              | 2              | 1              | 8              | 1              | 24             |
|        |               | Rabi              | C                          | 89                                 | 0  | 0              | 0              | 1              | 0              | 3              | 0              | 7              |
|        | S             |                   | 70                         | 0                                  | 0  | 9              | 8              | 0              | 11             | 0              | 17             |                |
|        | P             |                   | 80                         | 0                                  | 0  | 4              | 4              | 0              | 7              | 0              | 12             |                |
| 19     | Uttar Pradesh | Kharif            | C                          | 56                                 | 1  | 0              | 14             | 14             | 2              | 27             | 0              | 15             |
|        |               |                   | S                          | 23                                 | 6  | 0              | 1              | 1              | 0              | 7              | 0              | 77             |
|        |               |                   | P                          | 51                                 | 1  | 0              | 12             | 12             | 1              | 24             | 0              | 24             |
|        |               | Rabi              | C                          | 47                                 | 4  | 4              | 6              | 8              | 22             | 14             | 0              | 11             |
|        | S             |                   | 100                        | 0                                  | 0  | 0              | 0              | 0              | 0              | 0              | 0              |                |
|        | P             |                   | 66                         | 2                                  | 2  | 4              | 5              | 14             | 9              | 0              | 7              |                |
|        | Zaid Rabi     | C                 | 64                         | 0                                  | 5  | 11             | 18             | 0              | 29             | 0              | 14             |                |
| S      |               | Insufficient Data |                            |                                    |  |                |                |                |                |                |                |                |
| P      |               | 64                | 0                          | 4                                  | 10   | 15             | 0              | 27             | 0              | 14             |                |                |
| 20     | Uttarakhand   | Kharif            | C                          | 45                                 | 1  | 1              | 2              | 1              | 1              | 52             | 0              | 7              |
|        |               |                   | S                          | 83                                 | 0  | 1              | 1              | 2              | 0              | 3              | 1              | 10             |
|        |               |                   | P                          | 62                                 | 0  | 1              | 1              | 1              | 0              | 31             | 0              | 8              |
|        |               | Rabi              | C                          | NC                                 | NC   | NC             | NC             | NC             | NC             | NC             | NC             | NC             |
|        | S             |                   | 87                         | 0                                  | 0  | 4              | 4              | 0              | 0              | 0              | 9              |                |
|        | P             |                   | 87                         | 0                                  | 0  | 4              | 4              | 0              | 0              | 0              | 9              |                |
| 21     | West Bengal   | Aus               | C                          | 80                                 | 0  | 0              | 0              | 1              | 3              | 2              | 1              | 15             |
|        |               |                   | S                          | 100                                | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
|        |               |                   | P                          | 80                                 | 0  | 0              | 0              | 1              | 3              | 2              | 1              | 14             |
|        |               | Aman              | C                          | 81                                 | 0  | 0              | 2              | 1              | 2              | 0              | 0              | 16             |
|        | S             |                   | 93                         | 0                                  | 0  | 0              | 0              | 0              | 0              | 0              | 7              |                |
|        | P             |                   | 82                         | 0                                  | 0  | 2              | 1              | 2              | 0              | 0              | 15             |                |
|        |               | Rabi              | C                          | 55                                 | 0  | 0              | 1              | 1              | 3              | 9              | 0              | 35             |
|        | S             |                   | NC                         | NC                                 | NC   | NC             | NC             | NC             | NC             | NC             | NC             |                |
|        | P             |                   | 55                         | 0                                  | 0  | 1              | 1              | 3              | 9              | 0              | 35             |                |
|        |               | Summer            | C                          | 100                                | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
|        | S             |                   | 100                        | 0                                  | 0  | 0              | 0              | 0              | 0              | 0              | 0              |                |
|        | P             |                   | 100                        | 0                                  | 0  | 0              | 0              | 0              | 0              | 0              | 0              |                |

| S. No.             | State        | Season  | A G E N C Y | % of Expts. where error noticed | Percentage of experiments where errors noticed |                |                |                |                |                |                |                |    |
|--------------------|--------------|---------|-------------|---------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|
|                    |              |         |             |                                 | e <sub>1</sub>                                 | e <sub>2</sub> | e <sub>3</sub> | e <sub>4</sub> | e <sub>5</sub> | e <sub>6</sub> | e <sub>7</sub> | e <sub>8</sub> |    |
| 1                  | 2            | 3       | 4           | 5                               | 6  | 7              | 8              | 9              | 10             | 11             | 12             | 13             |    |
| 22                 | Puducherry   | Kharif  | C           | 70                              | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 30 |
|                    |              |         | S           | 100                             | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0  |
|                    |              |         | P           | 85                              | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0  |
|                    |              | Rabi-I  | C           | 50                              | 10   | 10             | 10             | 30             | 0              | 20             | 0              | 0              | 20 |
|                    |              |         | S           | 100                             | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0  |
|                    |              |         | P           | 75                              | 5  | 5              | 5              | 15             | 0              | 10             | 0              | 0              | 10 |
|                    |              | Rabi-II | C           | 100                             | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0  |
|                    |              |         | S           | 100                             | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0  |
|                    |              |         | P           | 100                             | 0  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0  |
| For States covered | Early Kharif | C       | 49          | 0                               | 1  | 1              | 1              | 1              | 1              | 3              | 4              | 24             |    |
|                    |              | S       | 33          | 0                               | 0  | 1              | 0              | 4              | 7              | 11             | 39             |                |    |
|                    |              | P       | 42          | 0                               | 0  | 1              | 0              | 2              | 5              | 7              | 22             |                |    |
|                    | Late Kharif  | C       | 70          | 1                               | 1  | 6              | 8              | 1              | 15             | 1              | 14             |                |    |
|                    |              | S       | 60          | 0                               | 0  | 2              | 1              | 1              | 5              | 1              | 36             |                |    |
|                    |              | P       | 66          | 1                               | 0  | 4              | 5              | 1              | 11             | 1              | 23             |                |    |
|                    | Rabi         | C       | 72          | 1                               | 1  | 3              | 5              | 3              | 10             | 1              | 14             |                |    |
|                    |              | S       | 66          | 0                               | 0  | 1              | 1              | 0              | 5              | 1              | 29             |                |    |
|                    |              | P       | 69          | 0                               | 1  | 2              | 3              | 1              | 7              | 1              | 22             |                |    |
|                    | Summer       | C       | 73          | 0                               | 1  | 2              | 4              | 0              | 7              | 0              | 22             |                |    |
|                    |              | S       | 74          | 0                               | 0  | 0              | 0              | 0              | 1              | 0              | 25             |                |    |
|                    |              | P       | 73          | 0                               | 0  | 1              | 2              | 0              | 3              | 0              | 24             |                |    |
|                    | All Seasons  | C       | 69          | 1                               | 1  | 5              | 7              | 1              | 13             | 1              | 15             |                |    |
|                    |              | S       | 61          | 0                               | 0  | 1              | 1              | 1              | 5              | 1              | 33             |                |    |
|                    |              | P       | 65          | 0                               | 0  | 3              | 4              | 1              | 9              | 1              | 22             |                |    |

**Note:**

1. e<sub>1</sub>= Error in selection of survey/sub-survey nos.
2. e<sub>2</sub>= Error in selection of field within survey/sub-survey nos.
3. e<sub>3</sub>= Error in measurement of field
4. e<sub>4</sub>= Error in selection of random nos., location and marking of plots
5. e<sub>5</sub>= Error in weighing of produce
6. e<sub>6</sub>= Error in reporting ancillary information
7. e<sub>7</sub>= Inadequate arrangements for storing of produce for drying and incorrect reporting of constituents in crop mixture.
8. e<sub>8</sub>= Others.
9. \$ In Kerala, whole year data has been included in Summer season
10. NR - Not Reported.
- 11.# - In the light of introduction of concept of Kharif and Rabi seasons in the Tamil Nadu state from Agricultural year 2017-18 and consequent, categorization of crops, the data have been presented seasonwise instead of whole year
12. NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

**SUPPLY AND USE OF EQUIPMENT FOR CROP CUTTING  
EXPERIMENTS DURING 2019-20**

| Sl. No. | State            | Season          | A<br>G<br>E<br>N<br>C<br>Y | Percentage of experiments for which              |      |         |        |  |      |         |        |    |
|---------|------------------|-----------------|----------------------------|--|------|---------|--------|--|------|---------|--------|----|
|         |                  |                 |                            | Concerned Primary workers were not supplied with |      |         |        | Primary workers did not use the supplied items |      |         |        |    |
|         |                  |                 |                            | Tape   | Pegs | Balance | Weight | Tape   | Pegs | Balance | Weight |    |
| 1       | 2                | 3               | 4                          | 5  | 6    | 7       | 8      | 9  | 10   | 11      | 12     |    |
| 1       | Andhra Pradesh   | Kharif          | C                          | 0  | 96   | 3       | 0      | 0  | 0    | 2       | 2      |    |
|         |                  |                 | S                          | 2  | 83   | 0       | 1      | 15   | 7    | 15      | 14     |    |
|         |                  |                 | P                          | 1  | 90   | 2       | 1      | 7  | 4    | 8       | 8      |    |
|         |                  | Rabi            | C                          | 2  | 95   | 2       | 0      | 0  | 0    | 0       | 0      | 0  |
|         |                  |                 | S                          | 0  | 90   | 0       | 0      | 11   | 0    | 12      | 12     |    |
|         |                  |                 | P                          | 1  | 92   | 1       | 0      | 5  | 0    | 6       | 6      |    |
| 2       | Assam            | Early Kharif    | C                          | 18   | 95   | 23      | 15     | 6  | 0    | 13      | 15     |    |
|         |                  |                 | S                          | 0  | 86   | 5       | 3      | 3  | 8    | 3       | 8      |    |
|         |                  |                 | P                          | 8  | 90   | 13      | 8      | 4  | 4    | 7       | 11     |    |
|         |                  |                 | Late Kharif                | C  | 17   | 95      | 25     | 25   | 11   | 1       | 21     | 15 |
|         |                  |                 |                            | S  | 0    | 71      | 0      | 0  | 17   | 9       | 11     | 13 |
|         |                  |                 |                            | P  | 9    | 84      | 14     | 14   | 14   | 4       | 17     | 14 |
|         |                  | Rabi            | C                          | 11   | 85   | 11      | 4      | 2  | 0    | 12      | 5      |    |
|         |                  |                 | S                          | 0  | 86   | 0       | 1      | 0  | 0    | 0       | 0      |    |
|         |                  |                 | P                          | 6  | 85   | 6       | 3      | 1  | 0    | 7       | 3      |    |
|         |                  | Summer          | C                          | 33   | 94   | 33      | 33     | 0  | 0    | 0       | 0      |    |
|         |                  |                 | S                          | 0  | 93   | 0       | 0      | 13   | 7    | 13      | 20     |    |
|         |                  |                 | P                          | 13   | 94   | 13      | 13     | 8  | 4    | 8       | 13     |    |
| 3       | Bihar            | Autumn (Bhadai) | C                          | 100  | 98   | 100     | 71     | 0  | 1    | 0       | 0      |    |
|         |                  |                 | S                          | 56   | 67   | 56      | 56     | 35   | 9    | 35      | 31     |    |
|         |                  |                 | P                          | 78   | 82   | 78      | 64     | 17   | 5    | 17      | 15     |    |
|         |                  |                 | Winter (Aghani)            | C  | 95   | 99      | 100    | 77   | 1    | 0       | 0      | 0  |
|         |                  |                 |                            | S  | 45   | 60      | 50     | 53   | 47   | 18      | 43     | 39 |
|         |                  |                 |                            | P  | 70   | 79      | 75     | 65   | 24   | 9       | 21     | 19 |
|         |                  | Rabi            | C                          | 100  | 100  | 100     | 83     | 0  | 0    | 0       | 0      |    |
|         |                  |                 | S                          | 39   | 48   | 39      | 39     | 46   | 22   | 46      | 44     |    |
|         |                  |                 | P                          | 48   | 56   | 48      | 45     | 39   | 19   | 39      | 38     |    |
|         |                  | Summer          | C                          | NC   | NC   | NC      | NC     | NC   | NC   | NC      | NC     |    |
|         |                  |                 | S                          | 44   | 44   | 44      | 44     | 0  | 0    | 0       | 0      |    |
|         |                  |                 | P                          | 44   | 44   | 44      | 44     | 0  | 0    | 0       | 0      |    |
| 4       | Chhattisgarh     | Kharif          | C                          | 19   | 94   | 63      | 42     | 16   | 2    | 14      | 9      |    |
|         |                  |                 | S                          | 0  | 55   | 54      | 54     | 0  | 0    | 0       | 0      |    |
|         |                  |                 | P                          | 10   | 75   | 59      | 48     | 8  | 1    | 7       | 4      |    |
|         |                  |                 | Rabi                       | C  | 0    | 92      | 69     | 15   | 23   | 0       | 0      | 0  |
|         |                  |                 |                            | S  | 0    | 50      | 50     | 0  | 0    | 0       | 0      | 0  |
|         |                  |                 |                            | P  | 0    | 74      | 61     | 9  | 13   | 0       | 0      | 0  |
| 5       | Gujarat          | Kharif          | C                          | 13   | 89   | 18      | 7      | 19   | 6    | 21      | 16     |    |
|         |                  |                 | S                          | 1  | 46   | 2       | 1      | 28   | 7    | 26      | 15     |    |
|         |                  |                 | P                          | 9  | 73   | 12      | 5      | 22   | 6    | 23      | 16     |    |
|         |                  |                 | Rabi                       | C  | 18   | 93      | 22     | 2  | 17   | 5       | 24     | 10 |
|         |                  |                 |                            | S  | 0    | 61      | 3      | 3  | 17   | 7       | 14     | 9  |
|         |                  |                 |                            | P  | 10   | 78      | 13     | 3  | 17   | 6       | 20     | 9  |
| 6       | Haryana          | Kharif          | C                          | 13   | 97   | 26      | 10     | 3  | 0    | 2       | 1      |    |
|         |                  |                 | S                          | 57   | 72   | 57      | 14     | 27   | 27   | 27      | 20     |    |
|         |                  |                 | P                          | 26   | 90   | 35      | 11     | 10   | 8    | 9       | 7      |    |
|         |                  |                 | Rabi                       | C  | 12   | 92      | 21     | 13   | 6    | 0       | 1      | 2  |
|         |                  |                 |                            | S  | 31   | 70      | 31     | 21   | 26   | 26      | 26     | 14 |
|         |                  |                 |                            | P  | 19   | 84      | 24     | 16   | 13   | 9       | 10     | 6  |
| 7       | Himachal Pradesh | Kharif          | C                          | 25   | 95   | 52      | 32     | 17   | 2    | 32      | 27     |    |
|         |                  |                 | S                          | 5  | 57   | 38      | 50     | 40   | 33   | 55      | 41     |    |
|         |                  |                 | P                          | 16   | 78   | 46      | 40     | 27   | 16   | 42      | 33     |    |
|         |                  |                 | Rabi                       | C  | NC   | NC      | NC     | NC   | NC   | NC      | NC     | NC |
|         |                  |                 |                            | S  | 0    | 13      | 16     | 63   | 91   | 59      | 84     | 38 |
|         |                  |                 |                            | P  | 0    | 13      | 16     | 63   | 91   | 59      | 84     | 38 |
| 8       | Jammu & Kashmir  | Kharif          | C                          | 84   | 100  | 100     | 89     | 15   | 0    | 0       | 0      |    |
|         |                  |                 | S                          | 73   | 99   | 80      | 82     | 23   | 0    | 20      | 18     |    |
|         |                  |                 | P                          | 79   | 100  | 90      | 85     | 19   | 0    | 11      | 10     |    |
|         |                  |                 | Rabi                       | C  | NC   | NC      | NC     | NC   | NC   | NC      | NC     | NC |
|         |                  |                 |                            | S  | 100  | 100     | 100    | 100  | 0    | 0       | 0      | 0  |
|         |                  |                 |                            | P*   | 100  | 100     | 100    | 100  | 0    | 0       | 0      | 0  |

| S. No. | State             | Season       | A<br>G<br>E<br>N<br>C<br>Y | Percentage of experiments for which              |      |         |        |  |      |         |        |   |   |
|--------|-------------------|--------------|----------------------------|--|------|---------|--------|--|------|---------|--------|---|---|
|        |                   |              |                            | Concerned Primary workers were not supplied with |      |         |        | Primary workers did not use the supplied items |      |         |        |   |   |
|        |                   |              |                            | Tape   | Pegs | Balance | Weight | Tape   | Pegs | Balance | Weight |   |   |
| 1      | 2                 | 3            | 4                          | 5  | 6    | 7       | 8      | 9  | 10   | 11      | 12     |   |   |
| 9      | Jharkhand         | Early Kharif | C                          | 95   | 100  | 95      | 85     | 0  | 0    | 0       | 0      |   |   |
|        |                   |              | S                          | 20   | 33   | 33      | 33     | 27   | 13   | 13      | 13     |   |   |
|        |                   |              | P                          | 63   | 71   | 69      | 63     | 11   | 6    | 6       | 6      |   |   |
|        |                   | Late Kharif  | C                          | 95   | 100  | 100     | 85     | 0  | 0    | 0       | 0      |   |   |
|        |                   |              | S                          | 15   | 33   | 33      | 39     | 44   | 11   | 11      | 20     |   |   |
|        |                   |              | P                          | 63   | 73   | 73      | 66     | 18   | 4    | 4       | 8      |   |   |
|        |                   | Rabi         | C                          | 100  | 100  | 94      | 94     | 0  | 0    | 0       | 6      |   |   |
|        |                   |              | S                          | 27   | 73   | 73      | 73     | 46   | 0    | 0       | 0      |   |   |
|        |                   |              | P                          | 40   | 78   | 77      | 77     | 38   | 0    | 0       | 1      |   |   |
| 10     | Karnataka         | Kharif       | C                          | 22   | 90   | 27      | 15     | 15   | 4    | 17      | 4      |   |   |
|        |                   |              | S                          | 26   | 58   | 27      | 16     | 26   | 12   | 25      | 23     |   |   |
|        |                   |              | P                          | 24   | 71   | 27      | 16     | 22   | 9    | 22      | 15     |   |   |
|        |                   | Rabi         | C                          | 24   | 71   | 24      | 3      | 36   | 19   | 36      | 5      |   |   |
|        |                   |              | S                          | 27   | 53   | 26      | 26     | 36   | 22   | 30      | 30     |   |   |
|        |                   |              | P                          | 26   | 61   | 26      | 16     | 36   | 21   | 33      | 19     |   |   |
|        |                   | Summer       | C                          | 7  | 67   | 13      | 4      | 27   | 16   | 27      | 4      |   |   |
|        |                   |              | S                          | 33   | 50   | 25      | 27     | 50   | 28   | 53      | 44     |   |   |
|        |                   |              | P                          | 21   | 58   | 19      | 16     | 39   | 23   | 41      | 25     |   |   |
|        |                   | 11           | Kerala<br>& *              | Autumn   | C    | 0       | 29     | 2  | 5    | 1       | 14     | 8 | 0 |
|        |                   |              |                            |  | S    | 0       | 9      | 0  | 0    | 4       | 5      | 4 | 0 |
|        |                   |              |                            |  | P    | 0       | 19     | 1  | 3    | 3       | 10     | 6 | 0 |
| Winter | C                 |              |                            | 1  | 20   | 3       | 0      | 3  | 3    | 4       | 0      |   |   |
|        | S                 |              |                            | 0  | 3    | 0       | 0      | 0  | 3    | 0       | 2      |   |   |
|        | P                 |              |                            | 1  | 12   | 2       | 0      | 2  | 3    | 2       | 1      |   |   |
| Summer | C                 |              |                            | 1  | 10   | 1       | 2      | 1  | 2    | 4       | 2      |   |   |
|        | S                 |              |                            | 0  | 0    | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|        | P                 |              |                            | 1  | 5    | 1       | 1      | 0  | 1    | 2       | 1      |   |   |
| 12     | Madhya<br>Pradesh | Kharif       | C                          | 39   | 96   | 80      | 53     | 15   | 1    | 18      | 12     |   |   |
|        |                   |              | S                          | 0  | 13   | 12      | 13     | 17   | 14   | 11      | 8      |   |   |
|        |                   |              | P                          | 23   | 61   | 51      | 36     | 16   | 6    | 15      | 11     |   |   |
|        |                   | Rabi         | C                          | 21   | 92   | 72      | 56     | 29   | 7    | 27      | 24     |   |   |
|        |                   |              | S                          | 0  | 5    | 1       | 5      | 15   | 43   | 30      | 25     |   |   |
|        |                   |              | P                          | 6  | 30   | 22      | 20     | 19   | 33   | 29      | 25     |   |   |
| 13     | Maharashtra       | Kharif       | C                          | 82   | 98   | 89      | 65     | 8  | 1    | 6       | 3      |   |   |
|        |                   |              | S                          | 49   | 49   | 50      | 38     | 44   | 29   | 43      | 39     |   |   |
|        |                   |              | P                          | 68   | 77   | 72      | 53     | 23   | 13   | 22      | 18     |   |   |
|        |                   | Rabi         | C                          | 95   | 100  | 94      | 13     | 2  | 0    | 2       | 0      |   |   |
|        |                   |              | S                          | 57   | 55   | 58      | 49     | 37   | 30   | 37      | 36     |   |   |
|        |                   |              | P                          | 72   | 73   | 73      | 35     | 23   | 18   | 23      | 22     |   |   |
| 14     | Odisha            | Autumn       | C                          | 0  | 6    | 0       | 0      | 0  | 2    | 3       | 1      |   |   |
|        |                   |              | S                          | 0  | 0    | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|        |                   |              | P                          | 0  | 3    | 0       | 0      | 0  | 1    | 2       | 0      |   |   |
|        |                   | Winter       | C                          | 0  | 3    | 0       | 0      | 0  | 1    | 1       | 0      |   |   |
|        |                   |              | S                          | 0  | 0    | 0       | 0      | 2  | 2    | 2       | 2      |   |   |
|        |                   |              | P                          | 0  | 2    | 0       | 0      | 1  | 2    | 2       | 1      |   |   |
|        |                   | Summer       | C                          | 0  | 0    | 0       | 0      | 0  | 53   | 0       | 0      |   |   |
|        |                   |              | S                          | 0  | 0    | 0       | 0      | 0  | 1    | 0       | 0      |   |   |
|        |                   |              | P                          | 0  | 0    | 0       | 0      | 0  | 5    | 0       | 0      |   |   |
| 15     | Punjab            | Kharif       | C                          | 63   | 97   | 93      | 49     | 4  | 2    | 2       | 2      |   |   |
|        |                   |              | S                          | 36   | 81   | 56      | 25     | 2  | 1    | 1       | 1      |   |   |
|        |                   |              | P                          | 52   | 91   | 78      | 39     | 3  | 2    | 2       | 2      |   |   |
|        |                   | Rabi         | C                          | 64   | 100  | 95      | 51     | 2  | 0    | 2       | 0      |   |   |
|        |                   |              | S                          | 25   | 98   | 57      | 21     | 0  | 0    | 3       | 1      |   |   |
|        |                   |              | P                          | 39   | 99   | 71      | 31     | 1  | 0    | 2       | 0      |   |   |
| 16     | Rajasthan         | Kharif       | C                          | 82   | 97   | 95      | 67     | 5  | 1    | 3       | 3      |   |   |
|        |                   |              | S                          | 30   | 35   | 27      | 30     | 36   | 28   | 44      | 41     |   |   |
|        |                   |              | P                          | 58   | 69   | 64      | 50     | 19   | 22   | 22      | 20     |   |   |
|        |                   | Rabi         | C                          | 100  | 100  | 100     | 58     | 0  | 0    | 0       | 4      |   |   |
|        |                   |              | S                          | 27   | 40   | 27      | 24     | 46   | 28   | 48      | 52     |   |   |
|        |                   |              | P                          | 48   | 57   | 48      | 34     | 32   | 20   | 34      | 38     |   |   |
| 17     | Tamil<br>Nadu #   | Kharif       | C                          | 3  | 25   | 27      | 0      | 2  | 12   | 3       | 0      |   |   |
|        |                   |              | S                          | 0  | 4    | 5       | 3      | 14   | 15   | 16      | 15     |   |   |
|        |                   |              | P                          | 2  | 16   | 17      | 1      | 7  | 13   | 9       | 7      |   |   |
|        |                   | Rabi         | C                          | 3  | 15   | 12      | 1      | 1  | 9    | 1       | 0      |   |   |
|        |                   |              | S                          | 0  | 0    | 2       | 0      | 22   | 24   | 23      | 24     |   |   |
|        |                   |              | P                          | 2  | 7    | 7       | 0      | 12   | 17   | 12      | 12     |   |   |

| S. No.      | State         | Season             | A<br>G<br>E<br>N<br>C<br>Y | Percentage of experiments for which              |      |         |        |  |      |         |        |   |   |
|-------------|---------------|--------------------|----------------------------|--|------|---------|--------|--|------|---------|--------|---|---|
|             |               |                    |                            | Concerned Primary workers were not supplied with |      |         |        | Primary workers did not use the supplied items |      |         |        |   |   |
|             |               |                    |                            | Tape   | Pegs | Balance | Weight | Tape   | Pegs | Balance | Weight |   |   |
| 1           | 2             | 3                  | 4                          | 5  | 6    | 7       | 8      | 9  | 10   | 11      | 12     |   |   |
| 18          | Telangana     | Kharif             | C                          | 3  | 97   | 10      | 4      | 1  | 1    | 1       | 1      |   |   |
|             |               |                    | S                          | 8  | 64   | 12      | 10     | 12   | 9    | 13      | 14     |   |   |
|             |               |                    | P                          | 5  | 80   | 11      | 7      | 6  | 5    | 7       | 7      |   |   |
|             |               | Rabi               | C                          | 1  | 99   | 14      | 14     | 15   | 1    | 12      | 12     |   |   |
|             |               |                    | S                          | 16   | 90   | 16      | 16     | 12   | 2    | 14      | 14     |   |   |
|             |               |                    | P                          | 7  | 95   | 15      | 14     | 14   | 1    | 13      | 13     |   |   |
| 19          | Uttar Pradesh | Kharif             | C                          | 34   | 95   | 72      | 52     | 14   | 2    | 14      | 10     |   |   |
|             |               |                    | S                          | 7  | 28   | 14      | 14     | 16   | 15   | 35      | 24     |   |   |
|             |               |                    | P                          | 30   | 86   | 63      | 47     | 14   | 4    | 17      | 12     |   |   |
|             |               | Rabi               | C                          | 22   | 99   | 92      | 68     | 27   | 1    | 7       | 6      |   |   |
|             |               |                    | S                          | 0  | 28   | 11      | 8      | 41   | 31   | 53      | 42     |   |   |
|             |               |                    | P                          | 14   | 73   | 63      | 47     | 32   | 12   | 24      | 19     |   |   |
|             |               | Summer             | C                          | 60   | 100  | 96      | 65     | 19   | 0    | 3       | 0      |   |   |
|             |               |                    | S                          | 0  | 0    | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | P                          | 59   | 96   | 90      | 61     | 21   | 4    | 9       | 4      |   |   |
| 20          | Uttarakhand   | Kharif             | C                          | 9  | 36   | 18      | 16     | 10   | 10   | 13      | 7      |   |   |
|             |               |                    | S                          | 0  | 0    | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | P                          | 5  | 20   | 10      | 9      | 6  | 6    | 7       | 4      |   |   |
|             |               | Rabi               | C                          | NC   | NC   | NC      | NC     | NC   | NC   | NC      | NC     |   |   |
|             |               |                    | S                          | 2  | 0    | 0       | 0      | 4  | 9    | 7       | 9      |   |   |
|             |               |                    | P                          | 2  | 0    | 0       | 0      | 4  | 9    | 7       | 9      |   |   |
| 21          | West Bengal @ | Autumn             | C                          | 2  | 99   | 8       | 0      | 0  | 0    | 2       | 0      |   |   |
|             |               |                    | S                          | 0  | 50   | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | P                          | 2  | 98   | 7       | 0      | 0  | 0    | 2       | 0      |   |   |
|             |               | Winter             | C                          | 1  | 93   | 13      | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | S                          | 0  | 100  | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | P                          | 1  | 94   | 11      | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               | Rabi               | C                          | 0  | 94   | 4       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | S                          | NC   | NC   | NC      | NC     | NC   | NC   | NC      | NC     |   |   |
|             |               |                    | P                          | 0  | 325  | 4       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | Summer                     | C  | 0    | 75      | 38     | 0  | 0    | 0       | 0      | 0 |   |
|             |               |                    |                            | S  | 0    | 25      | 0      | 0  | 0    | 0       | 0      | 0 |   |
|             |               |                    |                            | P  | 0    | 58      | 25     | 0  | 0    | 0       | 0      | 0 |   |
| 22          | Puducherry    | Kharif             | C                          | 0  | 0    | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | S                          | 0  | 0    | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | P                          | 0  | 0    | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               | Rabi-I             | C                          | 0  | 10   | 10      | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | S                          | 0  | 0    | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | P                          | 0  | 5    | 5       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               | Rabi-II            | C                          | 0  | 0    | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | S                          | 0  | 0    | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               |                    | P                          | 0  | 0    | 0       | 0      | 0  | 0    | 0       | 0      |   |   |
|             |               | For States Covered | Early Kharif               | C  | C    | 19      | 55     | 21   | 15   | 1       | 3      | 4 | 2 |
|             |               |                    |                            |  | S    | 9       | 26     | 11   | 11   | 8       | 4      | 7 | 6 |
|             |               |                    |                            |  | P    | 15      | 43     | 17   | 13   | 4       | 3      | 5 | 4 |
| Late Kharif | C             |                    |                            | 34   | 85   | 52      | 34     | 9  | 2    | 9       | 6      |   |   |
|             | S             |                    |                            | 17   | 45   | 23      | 18     | 21   | 13   | 22      | 19     |   |   |
|             | P             |                    |                            | 27   | 69   | 40      | 28     | 14   | 7    | 14      | 11     |   |   |
| Rabi        | C             |                    |                            | 27   | 84   | 42      | 22     | 9  | 3    | 7       | 4      |   |   |
|             | S             |                    |                            | 19   | 47   | 24      | 20     | 26   | 21   | 28      | 25     |   |   |
|             | P             |                    |                            | 23   | 69   | 32      | 21     | 19   | 13   | 18      | 16     |   |   |
| Summer      | C             |                    |                            | 14   | 38   | 22      | 15     | 7  | 5    | 6       | 2      |   |   |
|             | S             |                    |                            | 6  | 14   | 5       | 5      | 7  | 5    | 8       | 7      |   |   |
|             | P             |                    |                            | 10   | 25   | 13      | 9      | 7  | 5    | 7       | 5      |   |   |
| All Seasons | C             | 31                 | 81                         | 47   | 30   | 8       | 3      | 8  | 5    |         |        |   |   |
|             | S             | 17                 | 42                         | 21   | 18   | 21      | 14     | 22   | 19   |         |        |   |   |
|             | P             | 24                 | 65                         | 35   | 24   | 14      | 8      | 14   | 12   |         |        |   |   |

Note:

- @= ISI Equipments in place of Tape
- § In Kerala, whole year data has been included in Summer season
- #= In the light of introduction of concept of Kharif and Rabi seasons in the Tamil Nadu state from Agricultural year 2017-18 and consequent categorization of crops, the data have been presented seasonwise instead of whole year.
- \* Since data from one agency is available, the same data has been taken against pooled data for comparison purpose .
- NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

**DELEGATION OF WORK AND CONDUCT OF CROP CUTTING EXPERIMENTS BY  
UNTRAINED WORKERS DURING 2019-20**

| Sl. No. | State            | A<br>G<br>E<br>N<br>C<br>Y | Percentage of Experiments |    |    |    |     |    |             |    |    |    |     |    |      |    |    |    |     |    |        |    |    |    |     |    |  |
|---------|------------------|----------------------------|---------------------------|----|----|----|-----|----|-------------|----|----|----|-----|----|------|----|----|----|-----|----|--------|----|----|----|-----|----|--|
|         |                  |                            | Early Kharif              |    |    |    |     |    | Late Kharif |    |    |    |     |    | Rabi |    |    |    |     |    | Summer |    |    |    |     |    |  |
|         |                  |                            | DS                        | UW | DJ | UW | NCP | UW | DS          | UW | DJ | UW | NCP | UW | DS   | UW | DJ | UW | NCP | UW | DS     | UW | DJ | UW | NCP | UW |  |
| 1       | 2                | 3                          | 4                         | 5  | 6  | 7  | 8   | 9  | 10          | 11 | 12 | 13 | 14  | 15 | 16   | 17 | 18 | 19 | 20  | 21 | 22     | 23 | 24 | 25 | 26  | 27 |  |
| 1       | Andhra Pradesh   | C                          |                           |    |    |    |     |    | 1           | 0  | 3  | 0  | 95  | 2  | 2    | 0  | 13 | 13 | 120 | 16 |        |    |    |    |     |    |  |
|         |                  | S                          |                           |    |    |    |     |    | 0           | 0  | 0  | 0  | 100 | 2  | 1    | 0  | 0  | 0  | 99  | 6  |        |    |    |    |     |    |  |
|         |                  | P                          |                           |    |    |    |     |    | 1           | 0  | 2  | 0  | 98  | 2  | 1    | 0  | 7  | 7  | 110 | 11 |        |    |    |    |     |    |  |
| 2       | Assam            | C                          | 1                         | 0  | 0  | 0  | 99  | 0  | 1           | 0  | 1  | 0  | 98  | 0  | 0    | 0  | 0  | 0  | 100 | 2  | 0      | 0  | 0  | 0  | 100 | 0  |  |
|         |                  | S                          | 0                         | 0  | 0  | 0  | 100 | 0  | 0           | 0  | 0  | 0  | 100 | 0  | 0    | 0  | 0  | 0  | 100 | 0  | 0      | 0  | 0  | 0  | 100 | 0  |  |
|         |                  | P                          | 1                         | 0  | 0  | 0  | 99  | 0  | 0           | 0  | 0  | 0  | 99  | 0  | 0    | 0  | 0  | 0  | 100 | 1  | 0      | 0  | 0  | 0  | 100 | 0  |  |
| 3       | Bihar            | C                          | 0                         | 0  | 5  | 0  | 95  | 24 | 0           | 0  | 2  | 2  | 98  | 24 | 0    | 0  | 7  | 7  | 93  | 0  | NC     | NC | NC | NC | NC  | NC |  |
|         |                  | S                          | 0                         | 0  | 0  | 0  | 100 | 33 | 1           | 1  | 0  | 0  | 99  | 32 | 0    | 0  | 0  | 0  | 100 | 0  | 0      | 0  | 0  | 0  | 100 | 44 |  |
|         |                  | P                          | 0                         | 0  | 3  | 0  | 97  | 28 | 0           | 0  | 1  | 1  | 99  | 28 | 0    | 0  | 1  | 1  | 99  | 0  | 0      | 0  | 0  | 0  | 100 | 44 |  |
| 4       | Chhattisgarh     | C                          |                           |    |    |    |     |    | 2           | 0  | 2  | 0  | 96  | 5  | 8    | 0  | 0  | 0  | 92  | 0  |        |    |    |    |     |    |  |
|         |                  | S                          |                           |    |    |    |     |    | 0           | 0  | 0  | 0  | 100 | 0  | 0    | 0  | 0  | 0  | 100 | 0  |        |    |    |    |     |    |  |
|         |                  | P                          |                           |    |    |    |     |    | 1           | 0  | 1  | 0  | 98  | 2  | 4    | 0  | 0  | 0  | 96  | 0  |        |    |    |    |     |    |  |
| 5       | Gujarat          | C                          |                           |    |    |    |     |    | 0           | 0  | 1  | 0  | 99  | 0  | 0    | 0  | 0  | 0  | 100 | 2  |        |    |    |    |     |    |  |
|         |                  | S                          |                           |    |    |    |     |    | 2           | 0  | 0  | 0  | 98  | 2  | 6    | 0  | 3  | 0  | 91  | 0  |        |    |    |    |     |    |  |
|         |                  | P                          |                           |    |    |    |     |    | 1           | 0  | 1  | 0  | 99  | 1  | 3    | 0  | 1  | 0  | 96  | 1  |        |    |    |    |     |    |  |
| 6       | Haryana          | C                          |                           |    |    |    |     |    | 2           | 0  | 2  | 1  | 98  | 0  | 0    | 0  | 2  | 0  | 98  | 0  |        |    |    |    |     |    |  |
|         |                  | S                          |                           |    |    |    |     |    | 0           | 0  | 3  | 0  | 97  | 0  | 3    | 0  | 2  | 0  | 94  | 0  |        |    |    |    |     |    |  |
|         |                  | P                          |                           |    |    |    |     |    | 1           | 0  | 2  | 0  | 97  | 0  | 1    | 0  | 2  | 0  | 97  | 0  |        |    |    |    |     |    |  |
| 7       | Himachal Pradesh | C                          |                           |    |    |    |     |    | 0           | 0  | 2  | 2  | 106 | 3  | NC   | NC | NC | NC | NC  | NC |        |    |    |    |     |    |  |
|         |                  | S                          |                           |    |    |    |     |    | 0           | 0  | 0  | 0  | 121 | 0  | 0    | 0  | 0  | 0  | 100 | 0  |        |    |    |    |     |    |  |
|         |                  | P                          |                           |    |    |    |     |    | 0           | 0  | 1  | 1  | 113 | 2  | 0    | 0  | 0  | 0  | 100 | 0  |        |    |    |    |     |    |  |
| 8       | Jammu & Kashmir  | C                          |                           |    |    |    |     |    | 0           | 0  | 4  | 2  | 96  | 3  | NC   | NC | NC | NC | NC  | NC |        |    |    |    |     |    |  |
|         |                  | S                          |                           |    |    |    |     |    | 0           | 0  | 2  | 0  | 98  | 0  | 0    | 0  | 0  | 0  | 100 | 0  |        |    |    |    |     |    |  |
|         |                  | P                          |                           |    |    |    |     |    | 0           | 0  | 3  | 1  | 97  | 2  | 0    | 0  | 0  | 0  | 100 | 0  |        |    |    |    |     |    |  |
| 9       | Jharkhand        | C                          | 5                         | 5  | 0  | 0  | 95  | 40 | 8           | 5  | 3  | 3  | 90  | 63 | 0    | 0  | 0  | 0  | 100 | 33 |        |    |    |    |     |    |  |
|         |                  | S                          | 0                         | 0  | 0  | 0  | 100 | 0  | 0           | 0  | 4  | 4  | 96  | 0  | 0    | 0  | 0  | 0  | 100 | 0  |        |    |    |    |     |    |  |
|         |                  | P                          | 3                         | 3  | 0  | 0  | 97  | 23 | 4           | 3  | 3  | 3  | 93  | 37 | 0    | 0  | 0  | 0  | 100 | 6  |        |    |    |    |     |    |  |
| 10      | Karnataka        | C                          |                           |    |    |    |     |    | 1           | 0  | 0  | 0  | 99  | 3  | 1    | 0  | 1  | 1  | 98  | 3  | 5      | 0  | 0  | 0  | 95  | 4  |  |
|         |                  | S                          |                           |    |    |    |     |    | 1           | 0  | 0  | 0  | 99  | 0  | 1    | 0  | 0  | 0  | 99  | 0  | 0      | 0  | 0  | 0  | 100 | 0  |  |
|         |                  | P                          |                           |    |    |    |     |    | 1           | 0  | 0  | 0  | 99  | 1  | 1    | 0  | 0  | 0  | 98  | 1  | 3      | 0  | 0  | 0  | 97  | 2  |  |
| 11      | Kerala @         | C                          | 4                         | 0  | 0  | 0  | 98  | 2  | 3           | 0  | 0  | 0  | 97  | 1  |      |    |    |    |     |    | 2      | 0  | 0  | 0  | 98  | 0  |  |
|         |                  | S                          | 4                         | 0  | 0  | 0  | 97  | 0  | 0           | 0  | 0  | 0  | 100 | 0  |      |    |    |    |     |    | 0      | 0  | 0  | 0  | 100 | 0  |  |
|         |                  | P                          | 4                         | 0  | 0  | 0  | 97  | 1  | 2           | 0  | 0  | 0  | 98  | 1  |      |    |    |    |     |    | 1      | 0  | 0  | 0  | 99  | 0  |  |
| 12      | Madhya Pradesh   | C                          |                           |    |    |    |     |    | 0           | 0  | 1  | 0  | 99  | 1  | 2    | 0  | 2  | 0  | 97  | 8  |        |    |    |    |     |    |  |
|         |                  | S                          |                           |    |    |    |     |    | 0           | 0  | 0  | 0  | 100 | 3  | 0    | 0  | 0  | 0  | 100 | 19 |        |    |    |    |     |    |  |
|         |                  | P                          |                           |    |    |    |     |    | 0           | 0  | 0  | 0  | 99  | 2  | 0    | 0  | 0  | 0  | 99  | 16 |        |    |    |    |     |    |  |
| 13      | Maharashtra      | C                          |                           |    |    |    |     |    | 4           | 0  | 3  | 0  | 93  | 3  | 0    | 0  | 4  | 0  | 96  | 2  |        |    |    |    |     |    |  |
|         |                  | S                          |                           |    |    |    |     |    | 6           | 0  | 3  | 0  | 91  | 0  | 3    | 0  | 2  | 0  | 96  | 0  |        |    |    |    |     |    |  |
|         |                  | P                          |                           |    |    |    |     |    | 5           | 0  | 3  | 0  | 92  | 2  | 2    | 0  | 3  | 0  | 96  | 1  |        |    |    |    |     |    |  |
| 14      | Odisha           | C                          | 0                         | 0  | 0  | 0  | 100 | 0  | 1           | 0  | 0  | 0  | 99  | 0  |      |    |    |    |     |    | 0      | 0  | 0  | 0  | 100 | 0  |  |
|         |                  | S                          | 2                         | 0  | 0  | 0  | 98  | 1  | 1           | 0  | 0  | 0  | 99  | 0  |      |    |    |    |     |    | 0      | 0  | 0  | 0  | 100 | 0  |  |
|         |                  | P                          | 1                         | 0  | 0  | 0  | 99  | 1  | 1           | 0  | 0  | 0  | 99  | 0  |      |    |    |    |     |    | 0      | 0  | 0  | 0  | 100 | 0  |  |

| Sl. No.            | State         | A<br>G<br>E<br>N<br>C<br>Y | Percentage of Experiments |    |    |    |     |    |    |             |    |    |     |    |    |    |      |    |     |     |    |    |    |        |     |    |    |  |  |
|--------------------|---------------|----------------------------|---------------------------|----|----|----|-----|----|----|-------------|----|----|-----|----|----|----|------|----|-----|-----|----|----|----|--------|-----|----|----|--|--|
|                    |               |                            | Early Kharif              |    |    |    |     |    |    | Late Kharif |    |    |     |    |    |    | Rabi |    |     |     |    |    |    | Summer |     |    |    |  |  |
|                    |               |                            | DS                        | UW | DJ | UW | NCP | UW | DS | UW          | DJ | UW | NCP | UW | DS | UW | DJ   | UW | NCP | UW  | DS | UW | DJ | UW     | NCP | UW |    |  |  |
|                    |               |                            | 4                         | 5  | 6  | 7  | 8   | 9  | 10 | 11          | 12 | 13 | 14  | 15 | 16 | 17 | 18   | 19 | 20  | 21  | 22 | 23 | 24 | 25     | 26  | 27 |    |  |  |
| 15                 | Punjab        | C                          |                           |    |    |    |     |    | 1  | 0           | 1  | 0  | 98  | 0  | 0  | 0  | 0    | 0  | 0   | 100 | 0  |    |    |        |     |    |    |  |  |
|                    |               | S                          |                           |    |    |    |     |    | 0  | 0           | 0  | 0  | 100 | 0  | 0  | 0  | 0    | 0  | 0   | 100 | 0  |    |    |        |     |    |    |  |  |
|                    |               | P                          |                           |    |    |    |     |    | 1  | 0           | 1  | 0  | 99  | 0  | 0  | 0  | 0    | 0  | 0   | 100 | 0  |    |    |        |     |    |    |  |  |
| 16                 | Rajasthan     | C                          |                           |    |    |    |     |    | 2  | 0           | 1  | 0  | 98  | 1  | 0  | 0  | 0    | 0  | 0   | 100 | 0  |    |    |        |     |    |    |  |  |
|                    |               | S                          |                           |    |    |    |     |    | 2  | 0           | 1  | 0  | 98  | 0  | 1  | 0  | 0    | 0  | 0   | 99  | 0  |    |    |        |     |    |    |  |  |
|                    |               | P                          |                           |    |    |    |     |    | 2  | 0           | 1  | 0  | 98  | 0  | 1  | 0  | 0    | 0  | 0   | 99  | 0  |    |    |        |     |    |    |  |  |
| 17                 | Tamil Nadu    | C                          |                           |    |    |    |     |    | 3  | 0           | 4  | 0  | 94  | 1  | 0  | 0  | 4    | 0  | 96  | 1   |    |    |    |        |     |    |    |  |  |
|                    |               | S                          |                           |    |    |    |     |    | 0  | 0           | 0  | 0  | 100 | 0  | 0  | 0  | 0    | 0  | 0   | 100 | 0  |    |    |        |     |    |    |  |  |
|                    | #             | P                          |                           |    |    |    |     |    | 2  | 0           | 2  | 0  | 96  | 1  | 0  | 0  | 2    | 0  | 98  | 1   |    |    |    |        |     |    |    |  |  |
| 18                 | Telangana     | C                          |                           |    |    |    |     |    | 2  | 0           | 0  | 0  | 98  | 9  | 0  | 0  | 0    | 0  | 100 | 4   |    |    |    |        |     |    |    |  |  |
|                    |               | S                          |                           |    |    |    |     |    | 1  | 0           | 0  | 0  | 99  | 1  | 2  | 0  | 0    | 0  | 98  | 0   |    |    |    |        |     |    |    |  |  |
|                    |               | P                          |                           |    |    |    |     |    | 1  | 0           | 0  | 0  | 98  | 5  | 1  | 0  | 0    | 0  | 99  | 2   |    |    |    |        |     |    |    |  |  |
| 19                 | Uttar Pradesh | C                          |                           |    |    |    |     |    | 1  | 0           | 11 | 10 | 89  | 50 | 0  | 0  | 0    | 0  | 100 | 68  | 0  | 0  | 0  | 0      | 26  | 68 | 25 |  |  |
|                    |               | S                          |                           |    |    |    |     |    | 0  | 0           | 5  | 0  | 95  | 0  | 10 | 2  | 0    | 0  | 90  | 33  | 0  | 0  | 0  | 0      | 0   | 0  | 0  |  |  |
|                    |               | P                          |                           |    |    |    |     |    | 1  | 0           | 10 | 8  | 89  | 42 | 4  | 1  | 0    | 0  | 96  | 55  | 0  | 0  | 0  | 0      | 23  | 72 | 30 |  |  |
| 20                 | Uttarakhand   | C                          |                           |    |    |    |     |    | 0  | 0           | 2  | 0  | 98  | 0  | NC | NC | NC   | NC | NC  | NC  |    |    |    |        |     |    |    |  |  |
|                    |               | S                          |                           |    |    |    |     |    | 4  | 0           | 0  | 0  | 96  | 1  | 0  | 0  | 0    | 0  | 100 | 0   |    |    |    |        |     |    |    |  |  |
|                    |               | P                          |                           |    |    |    |     |    | 2  | 0           | 1  | 0  | 97  | 0  | 0  | 0  | 0    | 0  | 100 | 0   |    |    |    |        |     |    |    |  |  |
| 21                 | West Bengal   | C                          | 0                         | 0  | 0  | 0  | 100 | 5  | 1  | 0           | 0  | 0  | 99  | 4  | 0  | 0  | 0    | 0  | 100 | 11  | 0  | 0  | 0  | 0      | 100 | 0  |    |  |  |
|                    |               | S                          | 0                         | 0  | 0  | 0  | 100 | 0  | 0  | 0           | 0  | 0  | 100 | 29 | NC | NC | NC   | NC | NC  | NC  | 0  | 0  | 0  | 0      | 100 | 50 |    |  |  |
|                    |               | P                          | 0                         | 0  | 0  | 0  | 100 | 5  | 1  | 0           | 0  | 0  | 99  | 6  | 0  | 0  | 0    | 0  | 100 | 11  | 0  | 0  | 0  | 0      | 100 | 17 |    |  |  |
| 22                 | Puducherry    | C                          |                           |    |    |    |     |    | 0  | 0           | 0  | 0  | 100 | 0  | 0  | 0  | 0    | 0  | 100 | 0   | 20 | 0  | 0  | 0      | 80  | 0  |    |  |  |
|                    |               | S                          |                           |    |    |    |     |    | 0  | 0           | 0  | 0  | 100 | 0  | 0  | 0  | 0    | 0  | 100 | 0   | 0  | 0  | 0  | 0      | 100 | 0  |    |  |  |
|                    |               | P                          |                           |    |    |    |     |    | 0  | 0           | 0  | 0  | 100 | 0  | 0  | 0  | 0    | 0  | 100 | 0   | 10 | 0  | 0  | 0      | 90  | 0  |    |  |  |
| For States Covered |               | C                          | 1                         | 0  | 1  | 0  | 99  | 6  | 1  | 0           | 3  | 2  | 96  | 12 | 1  | 0  | 3    | 1  | 100 | 10  | 2  | 0  | 6  | 5      | 92  | 5  |    |  |  |
|                    |               | S                          | 2                         | 0  | 0  | 0  | 99  | 5  | 1  | 0           | 1  | 0  | 99  | 2  | 1  | 0  | 0    | 0  | 98  | 4   | 0  | 0  | 0  | 0      | 100 | 4  |    |  |  |
|                    |               | P                          | 1                         | 0  | 0  | 0  | 99  | 6  | 1  | 0           | 2  | 1  | 97  | 8  | 1  | 0  | 1    | 1  | 99  | 7   | 1  | 0  | 3  | 2      | 96  | 4  |    |  |  |

**Note:**

- 1- @= In Kerala Whole year data has been included in Summer season
- 2- # = In the light of introduction of concept of Kharif and Rabi seasons in the Tamil Nadu state from Agricultural year 2017-18 and consequent categorization of crops, the data have been presented seasonwise instead of whole year.
- 3- NA = Data Not available
- 4 DS=For which field work was delegated to equivalent/senior person
- 5 DJ=For which field work was delegated to juniors
- 6 NCP= For which field work was conducted by designated person(no change in primary worker)
- 7 UW=For which field work was conducted by untrained workers
8. NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

**SUBSTITUTION OF SAMPLING UNITS OBSERVED DURING SAMPLE CHECK ON CROP  
CUTTING EXPERIMENTS UNDER ICS DURING 2019-20**

| Sl. No.     | State            | Season       | Percentage of experiments for which substitution was done in respect of |   |   |    |                                      |   |    |     |
|-------------|------------------|--------------|---|---|---|----|--------------------------------------|---|----|-----|
|             |                  |              | Selected villages due to reason *                                       |   |   |    | Selected survey nos. due to reason † |   |    |     |
| Reason Code |                  |              | 1   | 2 | 3 | 9  | 1                                    | 2 | 3  | 9   |
| 1           | 2                | 3            | 4   | 5 | 6 | 7  | 8                                    | 9 | 10 | 11  |
| 1           | Andhra Pradesh   | Kharif       | 22  | 0 | 0 | 0  | 1                                    | 0 | 0  | 0   |
|             |                  | Rabi         | 21  | 0 | 0 | 0  | 0                                    | 0 | 0  | 0   |
| 2           | Assam            | Early Kharif | 10  | 0 | 0 | 0  | 0                                    | 0 | 0  | 4   |
|             |                  | Late Kharif  | 5   | 5 | 0 | 0  | 0                                    | 0 | 0  | 0   |
|             |                  | Rabi         | 14  | 0 | 0 | 0  | 0                                    | 0 | 0  | 2   |
|             |                  | Summer       | 13  | 0 | 0 | 8  | 0                                    | 0 | 0  | 4   |
| 3           | Bihar            | Bhadai       | 9   | 3 | 1 | 0  | 3                                    | 0 | 0  | 13  |
|             |                  | Aghani       | 1   | 1 | 0 | 0  | 2                                    | 0 | 0  | 12  |
|             |                  | Rabi         | 2   | 0 | 0 | 0  | 0                                    | 2 | 0  | 4   |
|             |                  | Summer       | 0   | 0 | 0 | 0  | 0                                    | 0 | 0  | 0   |
| 4           | Chhattisgarh     | Kharif       | 11  | 0 | 0 | 0  | 3                                    | 0 | 0  | 1   |
|             |                  | Rabi         | 35  | 0 | 0 | 0  | 4                                    | 0 | 0  | 0   |
| 5           | Gujarat          | Kharif       | 5   | 1 | 0 | 0  | 2                                    | 0 | 0  | 2   |
|             |                  | Rabi         | 5   | 0 | 0 | 3  | 1                                    | 0 | 0  | 6   |
| 6           | Haryana          | Kharif       | 11  | 1 | 0 | 1  | 2                                    | 0 | 0  | 3   |
|             |                  | Rabi         | 13  | 0 | 0 | 0  | 2                                    | 0 | 0  | 2   |
| 7           | Himachal Pradesh | Kharif       | 12  | 0 | 0 | 1  | 0                                    | 0 | 0  | 7   |
|             |                  | Rabi         | 22  | 0 | 0 | 0  | 0                                    | 0 | 0  | 0   |
| 8           | Jammu & Kashmir  | Kharif       | 0   | 0 | 0 | 34 | 4                                    | 1 | 2  | 10  |
|             |                  | Rabi         | 0   | 0 | 0 | 0  | 0                                    | 0 | 0  | 100 |
| 9           | Jharkhand        | Early Kharif | 14  | 0 | 0 | 0  | 0                                    | 3 | 1  | 31  |
|             |                  | Late Kharif  | 4   | 0 | 1 | 0  | 0                                    | 1 | 0  | 31  |
|             |                  | Rabi         | 2   | 0 | 0 | 8  | 2                                    | 0 | 0  | 27  |
| 10          | Karnataka        | Kharif       | 29  | 2 | 0 | 5  | 0                                    | 1 | 0  | 1   |
|             |                  | Rabi         | 34  | 1 | 0 | 2  | 0                                    | 0 | 0  | 1   |
|             |                  | Summer       | 40  | 1 | 0 | 0  | 1                                    | 3 | 0  | 2   |
| 11          | Kerala           | Autumn       | 29  | 0 | 0 | 1  | 1                                    | 0 | 0  | 0   |
|             |                  | Winter       | 21  | 0 | 0 | 0  | 1                                    | 0 | 0  | 0   |
|             |                  | Summer@      | 2   | 0 | 0 | 2  | 0                                    | 0 | 0  | 0   |
| 12          | Madhya Pradesh   | Kharif       | 13  | 0 | 0 | 1  | 0                                    | 0 | 0  | 2   |
|             |                  | Rabi         | 8   | 0 | 0 | 1  | 1                                    | 0 | 0  | 0   |
| 13          | Maharashtra      | Kharif       | 4   | 0 | 0 | 0  | 0                                    | 0 | 0  | 0   |
|             |                  | Rabi         | 2   | 0 | 0 | 0  | 0                                    | 0 | 0  | 1   |
| 14          | Odisha           | Autumn       | 6   | 0 | 0 | 0  | 0                                    | 0 | 0  | 0   |
|             |                  | Winter       | 11  | 0 | 0 | 0  | 0                                    | 0 | 0  | 1   |
|             |                  | Summer       | 17  | 0 | 0 | 0  | 1                                    | 0 | 0  | 0   |
| 15          | Punjab           | Kharif       | 0   | 2 | 0 | 0  | 0                                    | 0 | 0  | 0   |
|             |                  | Rabi         | 0   | 2 | 0 | 0  | 0                                    | 0 | 0  | 0   |
| 16          | Rajasthan        | Kharif       | 5   | 0 | 0 | 0  | 0                                    | 0 | 0  | 0   |
|             |                  | Rabi         | 5   | 0 | 0 | 0  | 0                                    | 0 | 0  | 0   |
| 17          | Tamil Nadu #     | Kharif       | 31  | 0 | 0 | 0  | 0                                    | 0 | 0  | 0   |
|             |                  | Rabi         | 20  | 0 | 0 | 0  | 0                                    | 0 | 0  | 0   |

**ANNEX- XI (Contd.....)**

| Sl. No.            | State         | Season  | Percentage of experiments for which substitution was done in respect of |    |   |   |                                     |   |    |    |
|--------------------|---------------|---------|---|----|---|---|-------------------------------------|---|----|----|
|                    |               |         | Selected villages due to reason *                                       |    |   |   | Selected survey nos.due to reason § |   |    |    |
| Reason Code        |               |         | 1   | 2  | 3 | 9 | 1                                   | 2 | 3  | 9  |
| 1                  | 2             | 3       | 4   | 5  | 6 | 7 | 8                                   | 9 | 10 | 11 |
| 18                 | Telangana     | Kharif  | 3   | 0  | 0 | 0 | 0                                   | 0 | 0  | 0  |
|                    |               | Rabi    | 3   | 0  | 0 | 0 | 0                                   | 0 | 0  | 0  |
| 19                 | Uttar Pradesh | Kharif  | 4   | 1  | 0 | 0 | 1                                   | 1 | 0  | 0  |
|                    |               | Rabi    | 1   | 1  | 0 | 0 | 0                                   | 1 | 0  | 0  |
|                    |               | Summer  | 4   | 2  | 0 | 4 | 1                                   | 0 | 0  | 0  |
| 20                 | Uttarakhand   | Kharif  | 12  | 1  | 0 | 0 | 1                                   | 2 | 0  | 0  |
|                    |               | Rabi    | 4   | 4  | 0 | 0 | 0                                   | 0 | 0  | 4  |
| 21                 | West Bengal   | Aus     | 0   | 0  | 0 | 0 | 1                                   | 0 | 0  | 0  |
|                    |               | Aman    | 0   | 0  | 0 | 0 | 1                                   | 0 | 2  | 0  |
|                    |               | Rabi    | 0   | 2  | 0 | 0 | 0                                   | 0 | 0  | 0  |
|                    |               | Summer  | 0   | 0  | 0 | 0 | 0                                   | 0 | 0  | 0  |
| 22                 | Puducherry    | Kharif  | 50  | 10 | 0 | 0 | 0                                   | 5 | 0  | 0  |
|                    |               | Rabi-I  | 10  | 0  | 0 | 0 | 0                                   | 0 | 0  | 0  |
|                    |               | Rabi-II | 20  | 0  | 0 | 0 | 0                                   | 0 | 0  | 0  |
| For States covered | Early Kharif  | 10      | 1   | 0  | 0 | 0 | 0                                   | 0 | 4  |    |
|                    | Late Kharif   | 11      | 1   | 0  | 1 | 1 | 0                                   | 0 | 2  |    |
|                    | Rabi          | 11      | 0   | 0  | 1 | 1 | 0                                   | 0 | 2  |    |
|                    | Summer        | 10      | 0   | 0  | 2 | 0 | 0                                   | 0 | 1  |    |
|                    | All Seasons   | 11      | 1   | 0  | 1 | 1 | 0                                   | 0 | 2  |    |

Note:

\* 1.Crop not sown

2.Entire crop harvested in the village.

3. Records not available

9.Others

§ 1.Crop harvested prior to selection.

2.Crop harvested before the date fixed.

3.Field partially harvested affecting the location of experimental plot.

9.Others.

@ In Kerala, data for whole year crops has been included in Summer season

# In the light of introduction of concept of Kharif and Rabi seasons in the Tamil Nadu state from Agricultural year categorization of crops, the data have been presented seasonwise instead of whole year.

**COMPARISON OF ESTIMATES OF CROP AREAS BASED ON  
ICS, TRS & FINAL ESTIMATES : 2019-20**

| Sl No              | State              | A<br>G<br>E<br>N<br>C<br>Y | Estimates of area based on sample checks (ICS) (in '000' ha) |                   | Estimated area as per TRS (in '000' ha) | Final Estimates of Area (in '000' ha) | Ratio of Area Estimates |                 |                |  |
|--------------------|--------------------|----------------------------|--|-------------------|---|---------------------------------------|-------------------------|-----------------|----------------|--|
|                    |                    |                            | A-III  | A-IV              |   |                                       | TRS/<br>Final           | A-III/<br>Final | A-IV/<br>Final |  |
|                    |                    |                            | As per primary worker  | As per supervisor |   |                                       |                         |                 |                |  |
|                    |                    |                            | 4  | 5                 |   |                                       |                         |                 |                |  |
| 1                  | 2                  | 3                          | 4  | 5                 | 6                                       | 7                                     | 8                       | 9               | 10             |  |
| <b>RICE-KHARIF</b> |                    |                            |  |                   |   |                                       |                         |                 |                |  |
| 1                  | Andhra Pradesh     | C                          | 8  | 1703              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 1783   | 1928              |   |                                       |                         |                 |                |  |
|                    |                    | P^                         | 1099   | 1842              | 1523                                    | 1526                                  | 0.9980                  | 0.7200          | 1.2068         |  |
| 2                  | Assam (Autumn)     | C                          |  | 36                |   |                                       |                         |                 |                |  |
|                    |                    | S                          |  | 22                |   |                                       |                         |                 |                |  |
|                    |                    | P^                         |  | 31                | 206                                     | 400                                   | 0.5150                  | 0.0000          | 0.0772         |  |
|                    | Assam (Winter)     | C                          |  | 429               |   |                                       |                         |                 |                |  |
|                    |                    | S                          |  | 242               |   |                                       |                         |                 |                |  |
|                    |                    | P^                         |  | 367               | 1720                                    | 2024                                  | 0.8498                  | 0.0000          | 0.1812         |  |
| 3                  | Bihar (Bhadai)     | C                          | 0  | 649               |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 91   | 1042              |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 0  | 832               | 453                                     | 462                                   | 0.9805                  | 0.0000          | 1.8009         |  |
|                    | Bihar (Aghani)     | C                          | 0  | 5228              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 630  | 4218              |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 312  | 4728              |   | 2364                                  | 0.0000                  | 0.1319          | 2.0002         |  |
| 4                  | Chhattisgarh       | C                          | 3632   | 3691              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 4847   | 4840              |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 4230   | 4257              | 4385                                    | 3666                                  | 1.1961                  | 1.1540          | 1.1611         |  |
| 5                  | Gujarat            | C                          | 0  | 672               |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 232  | 1088              |   |                                       |                         |                 |                |  |
|                    |                    | P^                         | 106  | 862               | 147                                     | 850                                   | 0.1730                  | 0.1250          | 1.0150         |  |
| 6                  | Haryana            | C                          | 1834   | 1864              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 1537   | 1451              |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 1700   | 1677              | 1442                                    | 1447                                  | 0.9965                  | 1.1749          | 1.1593         |  |
| 7                  | Himachal Pradesh   | C                          | 59   | 51                |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 279  | 264               |   |                                       |                         |                 |                |  |
|                    |                    | P^                         | 167  | 155               |   | 73                                    | 0.0000                  | 2.3034          | 2.1374         |  |
| 8                  | Jammu & Kashmir    | C                          | 62   | 64                |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 152  | 142               |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 119  | 114               | 287                                     | 281                                   | 1.0231                  | 0.4236          | 0.4057         |  |
| 9                  | Jharkhand (Bhadai) | C                          | NR   | 96                |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 409  | 423               |   |                                       |                         |                 |                |  |
|                    |                    | P^                         | 175  | 236               | 65                                      | 75                                    | 0.8667                  | 2.3383          | 3.1509         |  |
|                    | (Aghani)           | C                          | NR   | 1144              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 1542   | 1765              |   |                                       |                         |                 |                |  |
|                    |                    | P^                         | 635  | 1400              | 1038                                    | 1283                                  | 0.8090                  | 0.4948          | 1.0910         |  |
| 10                 | Karnataka          | C                          | 1416   | 1408              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 2288   | 2350              |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 1852   | 1879              | 971                                     | 916                                   | 1.0600                  | 2.0220          | 2.0515         |  |
| 11                 | Kerala (Autumn)    | C                          | 2  | 2                 |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 1  | 1                 |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 2  | 2                 |   | 46                                    | 0.0000                  | 0.0353          | 0.0353         |  |
|                    | Kerala (Winter)    | C                          | 3  | 3                 |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 3  | 3                 |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 3  | 3                 |   | 106                                   | 0.0000                  | 0.0296          | 0.0296         |  |
| 12                 | Madhya Pradesh     | C                          | 2759   | 2828              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 2700   | 2688              |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 2732   | 2764              | 2144                                    | 1982                                  | 1.0817                  | 1.3784          | 1.3947         |  |
| 13                 | Maharashtra        | C                          | 1031   | 1104              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 1262   | 1259              |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 1136   | 1174              | 1478                                    | 1478                                  | 0.9999                  | 0.7686          | 0.7946         |  |
| 14                 | Odisha (Autumn)    | C                          | 665  | 667               |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 818  | 818               |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 741  | 743               |   | 551                                   | 0.0000                  | 1.3454          | 1.3477         |  |
|                    | Odisha (Winter)    | C                          | 4113   | 4113              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 3156   | 3156              |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 3632   | 3632              |   | 3097                                  | 0.0000                  | 1.1729          | 1.1729         |  |
| 15                 | Punjab             | C                          | 4729   | 4727              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 3056   | 3066              |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 4040   | 4043              |   | 2920                                  | 0.0000                  | 1.3835          | 1.3846         |  |
| 16                 | Tamil Nadu P-I     | C                          | 1430   | 1733              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 2188   | 1773              |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 1807   | 1753              | 991                                     | 880                                   | 1.1261                  | 2.0538          | 1.9920         |  |
|                    | P-II               | C                          | 448  | 473               |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 461  | 579               |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 455  | 526               | 535                                     | 862                                   | 0.6206                  | 0.5276          | 0.6097         |  |
| 17                 | Telangana          | C                          | 0  | 2495              |   |                                       |                         |                 |                |  |
|                    |                    | S                          | 2248   | 2359              |   |                                       |                         |                 |                |  |
|                    |                    | P                          | 1371   | 2412              | 1539                                    | 1096                                  | 1.4042                  | 1.2505          | 2.2009         |  |

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|---------------------|-------------------|----------------------------|--|-------|---|---------------------------------------|-------------------------|-----------------|----------------|--|
|                     |                   |                            | A-III  | A-IV  |   |                                       | TRS/<br>Final           | A-III/<br>Final | A-IV/<br>Final |  |
|                     |                   |                            | As per primary worker  |       |   |                                       |                         |                 |                |  |
|                     |                   |                            | As per supervisor  |       |   |                                       |                         |                 |                |  |
| 1                   | 2                 | 3                          | 4  | 5     | 6                                       | 7                                     | 8                       | 9               | 10             |  |
| 18                  | Uttar Pradesh     | C                          | 9732   | 9622  |   |                                       |                         |                 |                |  |
|                     |                   | S                          | 2550   | 2782  |   |                                       |                         |                 |                |  |
|                     | \$\$              | P                          | 7966   | 7940  | 5899                                    | 5711                                  | 1.0329                  | 1.3948          | 1.3903         |  |
| 19                  | Uttar-akhhand     | C                          | 222  | 264   |   |                                       |                         |                 |                |  |
|                     |                   | S                          | 227  | 111   |   |                                       |                         |                 |                |  |
|                     | \$\$              | P                          | 225  | 187   | 230                                     | 230                                   | 1.0000                  | 0.9762          | 0.8148         |  |
| 20                  | W.Bengal (Autumn) | C                          | 33   | 82    |   |                                       |                         |                 |                |  |
|                     |                   | S                          | 1  | 1     |   |                                       |                         |                 |                |  |
|                     | @ (Winter)        | P                          | 26   | 65    |   | 165                                   | 0.0000                  | 0.1602          |                |  |
|                     |                   | C                          | 670  | 2621  |   |                                       |                         |                 |                |  |
|                     | @                 | S                          | 251  | 261   |   |                                       |                         |                 |                |  |
|                     | P                 | 581                        | 2122   |       | 4054                                    | 0.0000                                | 0.1434                  | 0.5235          |                |  |
| 21                  | Puducherry        | C                          | 0  | 0     |   |                                       |                         |                 |                |  |
|                     | \$\$              | S                          | 4  | 5     |   |                                       |                         |                 |                |  |
|                     |                   | P^A                        | 1  | 1     | 4                                       | 14                                    | 0.2915                  | 0.0729          | 0.0729         |  |
| For states covered  |                   |                            | 35113  | 45748 | 25057                                   | 38558                                 | 0.6499                  | 0.9107          | 1.1865         |  |
| RICE (RABI/ SUMMER) |                   |                            |  |       |   |                                       |                         |                 |                |  |
| 1                   | Andhra Pradesh    | C                          | 0  | 930   |   |                                       |                         |                 |                |  |
|                     |                   | S                          | 1064   | 1107  |   |                                       |                         |                 |                |  |
|                     | @                 | P                          | 654  | 1039  |   | 774                                   | 0.0000                  | 0.8446          | 1.3421         |  |
| 2                   | Assam             | C                          | 0  | 448   |   |                                       |                         |                 |                |  |
|                     | *                 | S                          | 0  | 245   |   |                                       |                         |                 |                |  |
|                     | \$\$              | P^A                        | 0  | 380   | 418                                     | 396                                   | 1.0568                  | 0.0000          | 0.9607         |  |
| 3                   | Bihar             | C                          | 0  | 0     |   |                                       |                         |                 |                |  |
|                     | * \$\$            | S                          | 0  | 412   |   |                                       |                         |                 |                |  |
|                     |                   | P                          | 0  | 204   | 83                                      | 60                                    | 1.3742                  | 0.0000          | 3.3776         |  |
| 4                   | Karnataka         | C                          | 0  | 0     |   |                                       |                         |                 |                |  |
|                     | \$\$              | S                          | 341  | 341   |   |                                       |                         |                 |                |  |
|                     |                   | P                          | 171  | 171   | 260                                     | 269                                   | 0.9665                  | 0.6339          | 0.6345         |  |
| 5                   | Kerala            | C                          | 1  | 1     |   |                                       |                         |                 |                |  |
|                     | @                 | S                          | 4  | 4     |   |                                       |                         |                 |                |  |
|                     |                   | P                          | 2  | 2     |   | 46                                    | 0.0000                  | 0.0507          | 0.0510         |  |
| 6                   | Odisha            | C                          | 0  | 0     |   |                                       |                         |                 |                |  |
|                     | @                 | S                          | 156  | 159   |   |                                       |                         |                 |                |  |
|                     |                   | P^A                        | 78   | 80    |   | 293                                   | 0.0000                  | 0.2657          | 0.2718         |  |
| 7                   | Tamil Nadu        | C                          | 135  | 184   |   |                                       |                         |                 |                |  |
|                     |                   | S                          | 376  | 420   |   |                                       |                         |                 |                |  |
|                     |                   | P                          | 193  | 221   | 733                                     | 165                                   | 4.4432                  | 1.1724          | 1.3386         |  |
| 8                   | Telangana         | C                          | 0  | 255   |   |                                       |                         |                 |                |  |
|                     |                   | S                          | 577  | 591   |   |                                       |                         |                 |                |  |
|                     |                   | P                          | 352  | 460   | 1550                                    | 915                                   | 1.6940                  | 0.3843          | 0.5025         |  |
| 9                   | West Bengal       | C                          | 0  | 0     |   |                                       |                         |                 |                |  |
|                     | @                 | S                          | 0  | 0     |   |                                       |                         |                 |                |  |
|                     |                   | P                          | 0  | 0     |   | 1272                                  | 0.0000                  | 0.0000          | 0.0000         |  |
| 10                  | Puducherry        | C                          | 6  | 6     |   |                                       |                         |                 |                |  |
|                     | Rabi-I            | S                          | 13   | 12    |   |                                       |                         |                 |                |  |
|                     | @                 | P                          | 9  | 9     |   |                                       | 0.0000                  | 0.0000          | 0.0000         |  |
|                     | Rabi-II           | C                          | 1  | 1     |   |                                       |                         |                 |                |  |
|                     | \$\$              | S                          | 6  | 6     |   |                                       |                         |                 |                |  |
|                     | P                 | 4                          | 4  | 10    | 5                                       | 2.2124                                | 0.7931                  | 0.7931          |                |  |
| For states covered  |                   |                            | 1462   | 2569  | 3054                                    | 4194                                  | 0.7282                  | 0.3487          | 0.6125         |  |
| JOWAR(KHARIF)       |                   |                            |  |       |   |                                       |                         |                 |                |  |
| 2                   | Karnataka         | C                          | 224  | 247   |   |                                       |                         |                 |                |  |
|                     |                   | S                          | 149  | 160   |   |                                       |                         |                 |                |  |
|                     |                   | P                          | 186  | 204   | 182                                     | 128                                   | 1.4263                  | 1.4595          | 1.5950         |  |
| 3                   | Madhya Pradesh    | C                          | 34   | 34    |   |                                       |                         |                 |                |  |
|                     |                   | S                          | 87   | 74    |   |                                       |                         |                 |                |  |
|                     | \$\$              | P                          | 58   | 52    | 161                                     | 108                                   | 1.4907                  | 0.5413          | 0.4827         |  |
| 4                   | Maharashtra       | C                          | 224  | 253   |   |                                       |                         |                 |                |  |
|                     | \$\$              | S                          | 206  | 222   |   |                                       |                         |                 |                |  |
|                     |                   | P                          | 216  | 239   | 390                                     | 309                                   | 1.2622                  | 0.6990          | 0.7725         |  |
| 5                   | Rajasthan         | C                          | 245  | 255   |   |                                       |                         |                 |                |  |
|                     |                   | S                          | 115  | 109   |   |                                       |                         |                 |                |  |
|                     |                   | P                          | 181  | 183   | 659                                     | 643                                   | 1.0251                  | 0.2817          | 0.2853         |  |
| 6                   | Tamil Nadu        | C                          | 1601   | 438   |   |                                       |                         |                 |                |  |
|                     |                   | S                          | 118  | 170   |   |                                       |                         |                 |                |  |
|                     |                   | P                          | 862  | 304   | 390                                     | 232                                   | 1.6822                  | 3.7190          | 1.3125         |  |

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|--------------------|------------------|----------------------------|--|-------------------|---|---------------------------------------|-------------------------|-----------------|----------------|
|                    |                  |                            | A-III  | A-IV              |   |                                       | TRS/<br>Final           | A-III/<br>Final | A-IV/<br>Final |
|                    |                  |                            | As per primary worker  | As per supervisor |   |                                       |                         |                 |                |
|                    |                  |                            | 4  | 5                 |   |                                       |                         |                 |                |
| 7                  | Telangana        | C                          | 0  | 6                 |   |                                       |                         |                 |                |
|                    |                  | S                          | 35   | 35                |   |                                       |                         |                 |                |
|                    |                  | P                          | 21   | 24                | 58                                      | 57                                    | 1.0175                  | 0.3693          | 0.4124         |
| 8                  | Uttar Pradesh    | C                          | 58   | 95                |   |                                       |                         |                 |                |
|                    |                  | S                          | 67   | 70                |   |                                       |                         |                 |                |
|                    |                  | P                          | 60   | 89                | 168                                     | 168                                   | 1.0000                  | 0.3587          | 0.5292         |
| For states covered |                  |                            | 1585   | 1094              | 2008                                    | 1644                                  | 1.2212                  | 0.9641          | 0.6656         |
| <b>JOWAR(RABI)</b> |                  |                            |  |                   |   |                                       |                         |                 |                |
| 1                  | Karnataka        | C                          | 265  | 652               |   |                                       |                         |                 |                |
|                    |                  | S                          | 899  | 794               |   |                                       |                         |                 |                |
|                    |                  | P                          | 582  | 723               | 646                                     | 699                                   | 0.9242                  | 0.8328          | 1.0344         |
| 2                  | Maharashtra      | C                          | 157  | 1985              |   |                                       |                         |                 |                |
|                    |                  | S                          | 1906   | 1990              |   |                                       |                         |                 |                |
|                    |                  | P                          | 953  | 1987              | 1982                                    | 1982                                  | 1.0002                  | 0.4812          | 1.0028         |
| 3                  | Tamil Nadu       | C                          | 0  | 4                 |   |                                       |                         |                 |                |
|                    |                  | S                          | 28   | 28                |   |                                       |                         |                 |                |
|                    |                  | P                          | 6  | 13                | 98                                      | 218                                   | 0.4492                  | 0.0282          | 0.0612         |
| 4                  | Telangana        | C                          | 0  | 40                |   |                                       |                         |                 |                |
|                    |                  | S                          | 11   | 11                |   |                                       |                         |                 |                |
|                    |                  | P                          | 7  | 22                | 31                                      | 31                                    | 1.0000                  | 0.2180          | 0.7242         |
| For states covered |                  |                            | 1548   | 2746              | 2757                                    | 2930                                  | 0.9410                  | 0.5285          | 0.9373         |
| <b>BAJRA</b>       |                  |                            |  |                   |   |                                       |                         |                 |                |
| 1                  | Andhra Pradesh   | C                          | 0  | 47                |   |                                       |                         |                 |                |
|                    |                  | S                          | 110  | 115               |   |                                       |                         |                 |                |
|                    |                  | P                          | 67   | 89                | 22                                      | 25                                    | 0.8800                  | 2.6957          | 3.5689         |
| 2                  | Gujarat          | C                          | NR   | 289               |   |                                       |                         |                 |                |
|                    |                  | S                          | 0  | 245               |   |                                       |                         |                 |                |
|                    |                  | P^                         | 0  | 269               | 27                                      | 435                                   | 0.0620                  | 0.0000          | 0.6178         |
| 3                  | Haryana          | C                          | 461  | 482               |   |                                       |                         |                 |                |
|                    |                  | S                          | 283  | 285               |   |                                       |                         |                 |                |
|                    |                  | P                          | 381  | 393               | 446                                     | 493                                   | 0.9050                  | 0.7724          | 0.7979         |
| 4                  | Karnataka        | C                          | 278  | 319               |   |                                       |                         |                 |                |
|                    |                  | S                          | 202  | 187               |   |                                       |                         |                 |                |
|                    |                  | P                          | 240  | 253               | 299                                     | 322                                   | 0.9286                  | 0.7460          | 0.7856         |
| 5                  | Maharashtra      | C                          | 271  | 301               |   |                                       |                         |                 |                |
|                    |                  | S                          | 1078   | 1148              |   |                                       |                         |                 |                |
|                    |                  | P                          | 638  | 687               | 673                                     | 673                                   | 1.0003                  | 0.9486          | 1.0206         |
| 6                  | Rajasthan        | C                          | 801  | 825               |   |                                       |                         |                 |                |
|                    |                  | S                          | 1189   | 1140              |   |                                       |                         |                 |                |
|                    |                  | P                          | 992  | 980               | 4143                                    | 4287                                  | 0.9664                  | 0.2313          | 0.2285         |
| 7                  | Tamil Nadu       | C                          | 48   | 32                |   |                                       |                         |                 |                |
|                    |                  | S                          | 70   | 117               |   |                                       |                         |                 |                |
|                    |                  | P                          | 22   | 22                | 45                                      | 67                                    | 0.6668                  | 0.3203          | 0.3313         |
| 8                  | Uttar Pradesh    | C                          | 816  | 615               |   |                                       |                         |                 |                |
|                    |                  | S                          | 186  | 190               |   |                                       |                         |                 |                |
|                    |                  | P                          | 661  | 511               | 917                                     | 917                                   | 1.0000                  | 0.7208          | 0.5570         |
| For states covered |                  |                            | 3001   | 3204              | 6572                                    | 7219                                  | 0.9103                  | 0.4156          | 0.4438         |
| <b>MAIZE</b>       |                  |                            |  |                   |   |                                       |                         |                 |                |
| 2                  | Bihar            | C                          | 0  | 543               |   |                                       |                         |                 |                |
|                    |                  | S                          | 42   | 413               |   |                                       |                         |                 |                |
|                    |                  | P                          | 97   | 482               | 228                                     | 209                                   | 1.0893                  | 0.4613          | 2.3048         |
| 3                  | Chhattisgarh     | C                          | 272  | 277               |   |                                       |                         |                 |                |
|                    |                  | S                          | 201  | 205               |   |                                       |                         |                 |                |
|                    |                  | P                          | 237  | 241               | 119                                     | 128                                   | 0.9284                  | 1.8476          | 1.8835         |
| 4                  | Gujarat          | C                          | NR   | 235               |   |                                       |                         |                 |                |
|                    |                  | S                          | 247  | 324               |   |                                       |                         |                 |                |
|                    |                  | P^                         | 195  | 276               | 49                                      | 301                                   | 0.1631                  | 0.6489          | 0.9172         |
| 5                  | Haryana          | C                          | 3  | 3                 |   |                                       |                         |                 |                |
|                    |                  | S                          | 3  | 3                 |   |                                       |                         |                 |                |
|                    |                  | P^                         | 3  | 3                 | 7                                       | 6                                     | 1.1667                  | 0.5239          | 0.5239         |
| 6                  | Himachal Pradesh | C                          | 249  | 220               |   |                                       |                         |                 |                |
|                    |                  | S                          | 99   | 108               |   |                                       |                         |                 |                |
|                    |                  | P^                         | 176  | 165               | 0                                       | 287                                   | 0.0000                  | 0.6109          | 0.5743         |
| 7                  | Jammu & Kashmir  | C                          | 293  | 295               |   |                                       |                         |                 |                |
|                    |                  | S                          | 308  | 299               |   |                                       |                         |                 |                |
|                    |                  | P                          | 303  | 297               | 302                                     | 269                                   | 1.1241                  | 1.1261          | 1.1069         |
| 8                  | Jharkhand        | C                          | NR   | 155               |   |                                       |                         |                 |                |
|                    |                  | S                          | 414  | 454               |   |                                       |                         |                 |                |
|                    |                  | P^                         | 178  | 283               |   | 249                                   | 0.0000                  | 0.7129          | 1.1371         |

| Sl No              | State             | A<br>G<br>E<br>N<br>C<br>Y | Estimates of area based on sample checks (ICS) (in '000' ha) |                   | Estimated area as per TRS (in '000' ha) | Final Estimates of Area (in '000' ha) | Ratio of Area Estimates |                 |                |
|--------------------|-------------------|----------------------------|--|-------------------|---|---------------------------------------|-------------------------|-----------------|----------------|
|                    |                   |                            | A-III  | A-IV              |   |                                       | TRS/<br>Final           | A-III/<br>Final | A-IV/<br>Final |
|                    |                   |                            | As per primary worker  | As per supervisor |   |                                       |                         |                 |                |
|                    |                   |                            | 4  | 5                 |   |                                       |                         |                 |                |
| 1                  | 2                 | 3                          | 4  | 5                 | 6                                       | 7                                     | 8                       | 9               | 10             |
| 9                  | Karnataka         | C                          | 1227   | 1291              |   |                                       |                         |                 |                |
|                    |                   | S                          | 1262   | 1256              |   |                                       |                         |                 |                |
|                    |                   | P                          | 1245   | 1274              | 1365                                    | 1287                                  | 1.0606                  | 0.9670          | 0.9897         |
| 10                 | Madhya Pradesh    | C                          | 1333   | 1304              |   |                                       |                         |                 |                |
|                    |                   | S                          | 914  | 925               |   |                                       |                         |                 |                |
|                    |                   | P                          | 1143   | 1132              | 1069                                    | 1383                                  | 0.7730                  | 0.8264          | 0.8184         |
| 11                 | Odisha            | C                          | 78   | 78                |   |                                       |                         |                 |                |
|                    |                   | S                          | 50   | 50                |   |                                       |                         |                 |                |
|                    |                   | P^                         | 64   | 64                |   | 61                                    | 0.0000                  | 1.0497          | 1.0497         |
| 12                 | Punjab            | C                          | 105  | 95                |   |                                       |                         |                 |                |
|                    |                   | S                          | 26   | 26                |   |                                       |                         |                 |                |
|                    |                   | P                          | 73   | 67                |   | 115                                   | 0.0000                  | 0.6354          | 0.5830         |
| 13                 | Rajasthan         | C                          | 223  | 107               |   |                                       |                         |                 |                |
|                    |                   | S                          | 125  | 126               |   |                                       |                         |                 |                |
|                    |                   | P                          | 175  | 116               | 853                                     | 876                                   | 0.9742                  | 0.1997          | 0.1328         |
| 14                 | Tamil Nadu        | C                          | 267  | 296               |   |                                       |                         |                 |                |
|                    |                   | S                          | 138  | 149               |   |                                       |                         |                 |                |
|                    |                   | P                          | 203  | 223               |   | 169                                   | 0.0000                  | 1.2027          | 1.3200         |
| 14                 | Telangana         | C                          | 0  | 425               |   |                                       |                         |                 |                |
|                    |                   | S                          | 434  | 448               |   |                                       |                         |                 |                |
|                    |                   | P                          | 265  | 439               | 377                                     | 391                                   | 0.9642                  | 0.6768          | 1.1224         |
| 15                 | Uttar Pradesh     | C                          | 192  | 372               |   |                                       |                         |                 |                |
|                    |                   | S                          | 192  | 188               |   |                                       |                         |                 |                |
|                    |                   | P                          | 192  | 327               | 665                                     | 665                                   | 1.0000                  | 0.2889          | 0.4913         |
| For states covered |                   |                            | 4546   | 5389              | 5034                                    | 6395                                  | 0.0000                  | 0.7109          | 0.8427         |
| RAGI               |                   |                            |  |                   |   |                                       |                         |                 |                |
| 1                  | Karnataka         | C                          | 499  | 510               |   |                                       |                         |                 |                |
|                    |                   | S                          | 1329   | 1395              |   |                                       |                         |                 |                |
|                    |                   | P                          | 914  | 952               | 614                                     | 641                                   | 0.9579                  | 1.4260          | 1.4859         |
| 2                  | Uttarakhand       | C                          | 108  | 83                |   |                                       |                         |                 |                |
|                    |                   | S                          | 131  | 110               |   |                                       |                         |                 |                |
|                    |                   | P                          | 119  | 96                | 84                                      | 84                                    | 1.0000                  | 1.4194          | 1.1485         |
| For states covered |                   |                            | 1033   | 1049              | 698                                     | 725                                   | 0.9628                  | 1.4253          | 1.4468         |
| COTTON             |                   |                            |  |                   |   |                                       |                         |                 |                |
| 1                  | Andhra Pradesh    | C                          | 0  | 853               |   |                                       |                         |                 |                |
|                    |                   | S                          | 705  | 739               |   |                                       |                         |                 |                |
|                    |                   | P                          | 433  | 783               | 642                                     | 657                                   | 0.9772                  | 0.6592          | 1.1913         |
| 2                  | Gujarat           | C                          | 0  | 2177              |   |                                       |                         |                 |                |
|                    |                   | S                          | 0  | 2234              |   |                                       |                         |                 |                |
|                    |                   | P^                         | 0  | 2203              | 399                                     | 2655                                  | 0.1503                  | 0.0000          | 0.8298         |
| 3                  | Haryana           | C                          | 703  | 709               |   |                                       |                         |                 |                |
|                    |                   | S                          | 110  | 615               |   |                                       |                         |                 |                |
|                    |                   | P                          | 435  | 666               | 683                                     | 723                                   | 0.9447                  | 0.6018          | 0.9217         |
| 4                  | Karnataka         | C                          | 554  | 588               |   |                                       |                         |                 |                |
|                    |                   | S                          | 878  | 865               |   |                                       |                         |                 |                |
|                    |                   | P                          | 716  | 727               | 548                                     | 817                                   | 0.6707                  | 0.8760          | 0.8893         |
| 5                  | Madhya Pradesh    | C                          | 528  | 532               |   |                                       |                         |                 |                |
|                    |                   | S                          | 458  | 460               |   |                                       |                         |                 |                |
|                    |                   | P                          | 496  | 500               | 554                                     | 650                                   | 0.8523                  | 0.7638          | 0.7685         |
| 6                  | Maharashtra       | C                          | 2564   | 4059              |   |                                       |                         |                 |                |
|                    |                   | S                          | 3734   | 3730              |   |                                       |                         |                 |                |
|                    |                   | P                          | 3097   | 3909              | 4491                                    | 4491                                  | 1.0000                  | 0.6896          | 0.8705         |
| 7                  | Punjab            | C                          | 133  | 130               |   |                                       |                         |                 |                |
|                    |                   | S                          | 45   | 46                |   |                                       |                         |                 |                |
|                    |                   | P                          | 97   | 95                |   | 248                                   | 0.0000                  | 0.3905          | 0.3847         |
| 8                  | Rajasthan         | C                          | 194  | 152               |   |                                       |                         |                 |                |
|                    |                   | S                          | 197  | 374               |   |                                       |                         |                 |                |
|                    |                   | P                          | 195  | 261               | 760                                     | 760                                   | 1.0000                  | 0.2569          | 0.3435         |
| 9                  | Tamil Nadu Kharif | C                          | 165  | 174               |   |                                       |                         |                 |                |
|                    |                   | S                          | 135  | 140               |   |                                       |                         |                 |                |
|                    |                   | P                          | 150  | 157               | 165                                     | 170                                   | 0.9706                  | 0.8823          | 0.9252         |
| Tamil Nadu Rabi    | C                 | 0                          | 5  |                   |   |                                       |                         |                 |                |
|                    | S                 | 19                         | 19   |                   |   |                                       |                         |                 |                |
|                    | P                 | 9                          | 12   | 22                |   | 0.0000                                | 0.0000                  | 0.0000          |                |
| 10                 | Telngana          | C                          | 0  | 2678              |   |                                       |                         |                 |                |
|                    |                   | S                          | 1969   | 1973              |   |                                       |                         |                 |                |
|                    |                   | P                          | 1187   | 2253              | 2083                                    | 2127                                  | 0.9793                  | 0.5581          | 1.0593         |
| For states covered |                   |                            | 6816   | 11566             | 10347                                   | 13298                                 | 0.7781                  | 0.5126          | 0.8698         |

| Sl No              | State              | A<br>G<br>E<br>N<br>C<br>Y | Estimates of area based on sample checks (ICS) (in '000' ha) |                   | Estimated area as per TRS (in '000' ha) | Final Estimates of Area (in '000' ha) | Ratio of Area Estimates |                 |                |
|--------------------|--------------------|----------------------------|--|-------------------|---|---------------------------------------|-------------------------|-----------------|----------------|
|                    |                    |                            | A-III  | A-IV              |   |                                       | TRS/<br>Final           | A-III/<br>Final | A-IV/<br>Final |
|                    |                    |                            | As per primary worker  | As per supervisor |   |                                       |                         |                 |                |
|                    |                    |                            | 4  | 5                 |   |                                       |                         |                 |                |
| <b>GROUNDNUT</b>   |                    |                            |  |                   |   |                                       |                         |                 |                |
| 1                  | Andhra Pradesh     | C                          | 0  | 231               |   |                                       |                         |                 |                |
|                    |                    | S                          | 434  | 431               |   |                                       |                         |                 |                |
|                    |                    | P^                         | 267  | 354               | 563                                     | 568                                   | 0.9912                  | 0.4694          | 0.6233         |
| 2                  | Gujarat            | C                          | 0  | 1460              |   |                                       |                         |                 |                |
|                    |                    | S                          | 96   | 1346              |   |                                       |                         |                 |                |
|                    |                    | P^                         | 44   | 1408              | 229                                     | 1629                                  | 0.1406                  | 0.0270          | 0.8643         |
| 3                  | Karnataka          | C                          | 237  | 247               |   |                                       |                         |                 |                |
|                    |                    | S                          | 413  | 414               |   |                                       |                         |                 |                |
|                    |                    | P                          | 325  | 331               | 420                                     | 393                                   | 1.0687                  | 0.8278          | 0.8410         |
| 4                  | Madhya Pradesh     | C                          | 232  | 236               |   |                                       |                         |                 |                |
|                    |                    | S                          | 247  | 246               |   |                                       |                         |                 |                |
|                    |                    | P                          | 239  | 241               | 208                                     | 217                                   | 0.9585                  | 1.1003          | 1.1105         |
| 5                  | Maharashtra        | C                          | 44   | 34                |   |                                       |                         |                 |                |
|                    |                    | S                          | 137  | 195               |   |                                       |                         |                 |                |
|                    |                    | P                          | 86   | 107               | 221                                     | 221                                   | 1.0000                  | 0.3900          | 0.4850         |
| 6                  | Rajasthan          | C                          | 85   | 86                |   |                                       |                         |                 |                |
|                    |                    | S                          | 128  | 126               |   |                                       |                         |                 |                |
|                    |                    | P                          | 106  | 106               | 642                                     | 735                                   | 0.8740                  | 0.1442          | 0.1437         |
| 7                  | Tamil Nadu Kharif  | C                          | 557  | 514               |   |                                       |                         |                 |                |
|                    |                    | S                          | 430  | 239               |   |                                       |                         |                 |                |
|                    |                    | P                          | 493  | 377               | 279                                     | 209                                   | 1.3339                  | 2.3583          | 1.8032         |
| 8                  | Tamil Nadu Rabi    | C                          | 0  | 0                 |   |                                       |                         |                 |                |
|                    |                    | S                          | 15   | 15                |   |                                       |                         |                 |                |
|                    |                    | P                          | 7  | 7                 | 128                                     | 137                                   | 0.9310                  | 0.0529          | 0.0530         |
| 9                  | Telngana           | C                          | 0  | 58                |   |                                       |                         |                 |                |
|                    |                    | S                          | 76   | 59                |   |                                       |                         |                 |                |
|                    |                    | P                          | 46   | 59                | 13                                      | 12                                    | 1.0833                  | 3.8161          | 4.8934         |
| For states covered |                    |                            | 1560   | 2924              | 2562                                    | 3972                                  | 0.6450                  | 0.3928          | 0.7360         |
| <b>SUGARCANE</b>   |                    |                            |  |                   |   |                                       |                         |                 |                |
| 1                  | Andhra Pradesh     | C                          | 0  | 25                |   |                                       |                         |                 |                |
|                    |                    | S                          | 39   | 72                |   |                                       |                         |                 |                |
|                    |                    | P^                         | 24   | 54                | 86                                      | 86                                    | 1.0000                  | 0.2815          | 0.6287         |
| 2                  | Assam *\$\$        | C                          | 0  | 1                 |   |                                       |                         |                 |                |
|                    |                    | S                          | 0  | 3                 |   |                                       |                         |                 |                |
|                    |                    | P^                         | 0  | 1                 | 22                                      | 30                                    | 0.7407                  | 0.0000          | 0.0491         |
| 3                  | Bihar \$\$         | C                          | 0  | 479               |   |                                       |                         |                 |                |
|                    |                    | S                          | 0  | 138               |   |                                       |                         |                 |                |
|                    |                    | P^                         | 0  | 320               | 234                                     | 224                                   | 1.0452                  | 0.0000          | 1.4298         |
| 4                  | Haryana            | C                          | 132  | 182               |   |                                       |                         |                 |                |
|                    |                    | S                          | 95   | 95                |   |                                       |                         |                 |                |
|                    |                    | P                          | 116  | 143               | 113                                     | 96                                    | 1.1734                  | 1.1995          | 1.4823         |
| 5                  | Karnataka \$\$     | C                          | 636  | 765               |   |                                       |                         |                 |                |
|                    |                    | S                          | 1115   | 1126              |   |                                       |                         |                 |                |
|                    |                    | P                          | 875  | 946               | 444                                     | 429                                   | 1.0350                  | 2.0404          | 2.2040         |
| 6                  | Maharashtra @      | C                          | 190  | 169               |   |                                       |                         |                 |                |
|                    |                    | S                          | 707  | 767               |   |                                       |                         |                 |                |
|                    |                    | P                          | 425  | 441               |   | 822                                   | 0.0000                  | 0.5170          | 0.5365         |
| 7                  | Punjab @           | C                          | 48   | 52                |   |                                       |                         |                 |                |
|                    |                    | S                          | 13   | 13                |   |                                       |                         |                 |                |
|                    |                    | P                          | 34   | 36                |   | 91                                    | 0.0000                  | 0.3711          | 0.3922         |
| 8                  | Rajasthan          | C                          | 0  | 0                 |   |                                       |                         |                 |                |
|                    |                    | S                          | 0  | 0                 |   |                                       |                         |                 |                |
|                    |                    | P^                         | 1  | 1                 | 6                                       | 4                                     | 1.3423                  | 0.2237          | 0.2237         |
| 9                  | Tamil Nadu Kharif  | C                          | 111  | 112               |   |                                       |                         |                 |                |
|                    |                    | S                          | 198  | 223               |   |                                       |                         |                 |                |
|                    |                    | P                          | 154  | 168               | 133                                     | 131                                   | 1.0137                  | 1.1763          | 1.2778         |
| 10                 | Uttar Pradesh \$\$ | C                          | 2197   | 3079              |   |                                       |                         |                 |                |
|                    |                    | S                          | 1248   | 1244              |   |                                       |                         |                 |                |
|                    |                    | P                          | 1963   | 2628              | 2208                                    | 2208                                  | 1.0000                  | 0.8892          | 1.1900         |
| 11                 | Uttarakhand        | C                          | 104  | 102               |   |                                       |                         |                 |                |
|                    |                    | S                          | 94   | 93                |   |                                       |                         |                 |                |
|                    |                    | P                          | 99   | 98                | 92                                      | 92                                    | 1.0000                  | 1.0775          | 1.0606         |
| For states covered |                    |                            | 3692   | 4835              | 3338                                    | 4214                                  | 0.7921                  | 0.8761          | 1.1473         |

| Sl No              | State            | A<br>G<br>E<br>N<br>C<br>Y | Estimates of area based on sample checks (ICS) (in '000' ha) |                   | Estimated area as per TRS (in '000' ha) | Final Estimates of Area (in '000' ha) | Ratio of Area Estimates |                 |                |  |
|--------------------|------------------|----------------------------|--|-------------------|---|---------------------------------------|-------------------------|-----------------|----------------|--|
|                    |                  |                            | A-III  | A-IV              |   |                                       | TRS/<br>Final           | A-III/<br>Final | A-IV/<br>Final |  |
|                    |                  |                            | As per primary worker  | As per supervisor |   |                                       |                         |                 |                |  |
|                    |                  |                            |  |                   |   |                                       |                         |                 |                |  |
| 1                  | 2                | 3                          | 4  | 5                 | 6                                       | 7                                     | 8                       | 9               | 10             |  |
| <b>WHEAT</b>       |                  |                            |  |                   |   |                                       |                         |                 |                |  |
| 1                  | Assam            | C                          | 0  | 4                 |   |                                       |                         |                 |                |  |
|                    |                  | S                          | 0  | 12                |   |                                       |                         |                 |                |  |
|                    |                  | P^                         | 0  | 7                 | 17                                      | 11                                    | 0.0000                  | 0.0000          | 0.6131         |  |
| 2                  | Bihar            | C                          | NR   | 8292              |   |                                       |                         |                 |                |  |
|                    | * \$\$           | S                          | 708  | 4128              |   |                                       |                         |                 |                |  |
|                    |                  | P^                         | 350  | 6232              | 2085                                    | 2150                                  | 0.9697                  | 0.1630          | 2.8986         |  |
| 3                  | Chhattisgarh     | C                          | 148  | 148               |   |                                       |                         |                 |                |  |
|                    | \$\$             | S                          | 341  | 341               |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 243  | 243               | 106                                     | 110                                   | 0.9654                  | 2.2150          | 2.2152         |  |
| 4                  | Gujarat          | C                          | NR   | 622               |   |                                       |                         |                 |                |  |
|                    |                  | S                          | 50   | 626               |   |                                       |                         |                 |                |  |
|                    |                  | P^                         | 23   | 624               | 219                                     | 1018                                  | 0.2151                  | 0.0227          | 0.6129         |  |
| 5                  | Haryana          | C                          | 2414   | 2343              |   |                                       |                         |                 |                |  |
|                    |                  | S                          | 1319   | 1919              |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 1919   | 2151              | 2510                                    | 2534                                  | 0.9906                  | 0.7572          | 0.8490         |  |
| 6                  | Himachal Pradesh | C                          | 260  | 243               |   |                                       |                         |                 |                |  |
|                    | @                | S                          | 10   | 10                |   |                                       |                         |                 |                |  |
|                    |                  | P^                         | 137  | 128               |   | 286                                   | 0.0000                  | 0.4787          | 0.4489         |  |
| 7                  | Jammu & Kashmir  | C                          | 0  | 0                 |   |                                       |                         |                 |                |  |
|                    | \$\$             | S                          | 90   | 85                |   |                                       |                         |                 |                |  |
|                    |                  | P^                         | 57   | 54                | 279                                     | 244                                   | 1.1438                  | 0.2333          | 0.2198         |  |
| 8                  | Jharkhand        | C                          | 0  | 139               |   |                                       |                         |                 |                |  |
|                    | * \$\$           | S                          | 709  | 934               |   |                                       |                         |                 |                |  |
|                    |                  | P^                         | 292  | 467               | 55                                      | 215                                   | 0.2561                  | 1.3587          | 2.1727         |  |
| 9                  | Karnataka        | C                          | 108  | 199               |   |                                       |                         |                 |                |  |
|                    | \$\$             | S                          | 263  | 267               |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 185  | 233               | 137                                     | 150                                   | 0.9133                  | 1.2342          | 1.5503         |  |
| 10                 | Madhya Pradesh   | C                          | 9753   | 9711              |   |                                       |                         |                 |                |  |
|                    | \$\$             | S                          | 6479   | 6449              |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 8265   | 8229              | 5433                                    | 6551                                  | 0.8293                  | 1.2617          | 1.2561         |  |
| 11                 | Maharashtra      | C                          | 428  | 1841              |   |                                       |                         |                 |                |  |
|                    | \$\$             | S                          | 1348   | 1408              |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 847  | 1644              | 1057                                    | 1057                                  | 1.0000                  | 0.8013          | 1.5550         |  |
| 12                 | Punjab           | C                          | 3635   | 3686              |   |                                       |                         |                 |                |  |
|                    | @                | S                          | 0  | 0                 |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 2138   | 2168              |   | 3521                                  | 0.0000                  | 0.6072          | 0.6159         |  |
| 13                 | Rajasthan        | C                          | 846  | 833               |   |                                       |                         |                 |                |  |
|                    |                  | S                          | 875  | 763               |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 860  | 798               | 3539                                    | 3118                                  | 1.1350                  | 0.2759          | 0.2560         |  |
| 14                 | Uttar Pradesh    | C                          | 7694   | 10724             |   |                                       |                         |                 |                |  |
|                    | @                | S                          | 3438   | 3522              |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 6647   | 8953              | 9853                                    | 9853                                  | 1.0000                  | 0.6747          | 0.9087         |  |
| 15                 | Uttarakhand      | C                          | 341  | 348               |   |                                       |                         |                 |                |  |
|                    | \$\$             | S                          | 322  | 321               |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 331  | 334               | 316                                     | 316                                   | 1.0000                  | 1.0488          | 1.0578         |  |
| 16                 | West Bengal      | C                          | 0  | 1                 |   |                                       |                         |                 |                |  |
|                    | @                | S                          | 56   | 56                |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 12   | 13                |   | 188                                   | 0.0000                  | 0.0630          | 0.0686         |  |
| For states covered |                  |                            | 22308  | 32279             | 25606                                   | 31322                                 | 0.8175                  | 0.7122          | 1.0305         |  |
| <b>BARLEY</b>      |                  |                            |  |                   |   |                                       |                         |                 |                |  |
| 1                  | Haryana          | C                          | 21   | 25                |   |                                       |                         |                 |                |  |
|                    |                  | S                          | 31   | 31                |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 25   | 27                | 18                                      | 12                                    | 1.4851                  | 2.0911          | 2.2553         |  |
| 2                  | Himachal Pradesh | C                          | 4  | 3                 |   |                                       |                         |                 |                |  |
|                    | @                | S                          | 7  | 7                 |   |                                       |                         |                 |                |  |
|                    |                  | P^                         | 6  | 5                 |   | 20                                    | 0.0000                  | 0.2718          | 0.2497         |  |
| 3                  | Punjab           | C                          | 1  | 1                 |   |                                       |                         |                 |                |  |
|                    | @                | S                          | 0  | 0                 |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 1  | 1                 |   | 6                                     | 0.0000                  | 0.1222          | 0.0895         |  |
| 4                  | Rajasthan        | C                          | 68   | 77                |   |                                       |                         |                 |                |  |
|                    |                  | S                          | 124  | 122               |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 95   | 99                | 311                                     | 301                                   | 1.0324                  | 0.3166          | 0.3292         |  |
| For states covered |                  |                            | 127  | 132               | 329                                     | 340                                   | 0.9678                  | 0.3736          | 0.3888         |  |
| <b>GRAM</b>        |                  |                            |  |                   |   |                                       |                         |                 |                |  |
| 1                  | Andhra Pradesh   | C                          | 0  | 367               |   |                                       |                         |                 |                |  |
|                    |                  | S                          | 491  | 491               |   |                                       |                         |                 |                |  |
|                    |                  | P^                         | 302  | 443               | 452                                     | 459                                   | 0.9847                  | 0.6577          | 0.9646         |  |
| 2                  | Bihar            | C                          | NR   | 368               |   |                                       |                         |                 |                |  |
|                    | \$\$             | S                          | 16   | 22                |   |                                       |                         |                 |                |  |
|                    |                  | P                          | 8  | 197               | 54                                      | 53                                    | 1.0227                  | 0.1545          | 3.7322         |  |

| Sl No              | State                     | A<br>G<br>E<br>N<br>C<br>Y | Estimates of area based on sample checks (ICS) (in '000' ha) |      | Estimated area as per TRS (in '000' ha) | Final Estimates of Area (in '000' ha) | Ratio of Area Estimates |                 |                |        |
|--------------------|---------------------------|----------------------------|--|------|---|---------------------------------------|-------------------------|-----------------|----------------|--------|
|                    |                           |                            | A-III  | A-IV |   |                                       | TRS/<br>Final           | A-III/<br>Final | A-IV/<br>Final |        |
|                    |                           |                            | As per primary worker  |      |   |                                       |                         |                 |                |        |
|                    |                           |                            | As per supervisor  |      |   |                                       |                         |                 |                |        |
| 1                  | 2                         | 3                          | 4  | 5    | 6                                       | 7                                     | 8                       | 9               | 10             |        |
| 3                  | Chhattisgarh<br>\$\$      | C                          | 518  | 506  |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 328  | 328  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 425  | 418  | 284                                     | 382                                   | 0.7439                  | 1.1123          | 1.0952         |        |
| 4                  | Gujarat                   | C                          | NR   | 82   |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 44   | 108  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 20   | 94   | 55                                      | 405                                   | 0.1358                  | 0.0502          | 0.2315         |        |
| 5                  | Haryana                   | C                          | 41   | 39   |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 4  | 4    |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 24   | 23   | 38                                      | 44                                    | 0.8642                  | 0.5538          | 0.5206         |        |
| 6                  | Jharkhand<br>* \$\$       | C                          | 0  | 50   |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 51   | 94   |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 21   | 68   | 13                                      | 230                                   | 0.0565                  | 0.0918          | 0.2967         |        |
| 7                  | Karnataka<br>\$\$         | C                          | 234  | 550  |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 382  | 174  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 308  | 362  | 649                                     | 864                                   | 0.7512                  | 0.3565          | 0.4186         |        |
| 8                  | Madhya<br>Pradesh<br>\$\$ | C                          | 1593   | 1610 |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 1043   | 1045 |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 1343   | 1354 | 2938                                    | 1926                                  | 1.5254                  | 0.6972          | 0.7028         |        |
| 9                  | Maharashtra<br>\$\$       | C                          | 502  | 1915 |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 1907   | 2052 |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 1142   | 1977 | 2043                                    | 2043                                  | 0.9999                  | 0.5589          | 0.9677         |        |
| 10                 | Punjab*<br>@              | C                          | 2  | 3    |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 0  | NR   |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 1  | 2    |   | 2                                     | 0.0000                  | 0.6698          | 1.0063         |        |
| 11                 | Rajasthan                 | C                          | 357  | 357  |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 482  | 490  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 418  | 422  | 2269                                    | 2463                                  | 0.9212                  | 0.1698          | 0.1715         |        |
| 12                 | Uttar<br>Pradesh          | C                          | 264  | 1287 |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 188  | 188  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 245  | 1017 | 616                                     | 621                                   | 0.9919                  | 0.3949          | 1.6376         |        |
| For states covered |                           |                            | 4258   | 6376 | 9411                                    | 9491                                  |                         | 0.9919          | 0.3949         | 1.6376 |
| RAPE & MUSTARD     |                           |                            |  |      |   |                                       |                         |                 |                |        |
| 1                  | Assam<br>@<br>\$\$        | C                          | 0  | 281  |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 0  | 184  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 0  | 249  | 284                                     | 287                                   | 0.9880                  | 0.0000          | 0.8661         |        |
| 2                  | Bihar<br>@                | C                          | 0  | 370  |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 10   | 32   |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 5  | 203  |   | 75                                    | 0.0000                  | 0.0681          | 2.6970         |        |
| 3                  | Chhattisgarh<br>\$\$      | C                          | 260  | 265  |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 127  | 127  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 195  | 197  | 41                                      | 39                                    | 1.0502                  | 4.9944          | 5.0566         |        |
| 4                  | Gujarat                   | C                          | 0  | 4    |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 0  | 0    |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 0  | 2    | 34                                      | 173                                   | 0.1970                  | 0.0000          | 0.0132         |        |
| 5                  | Haryana<br>@              | C                          | 671  | 656  |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 386  | 386  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 542  | 534  |   | 641                                   | 0.0000                  | 0.8452          | 0.8325         |        |
| 6                  | Jharkhand<br>* \$\$       | C                          | 0  | 47   |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 33   | 128  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 43   | 81   | 4                                       | 291                                   | 0.0137                  | 0.1471          | 0.2763         |        |
| 8                  | Madhya<br>Pradesh<br>\$\$ | C                          | 459  | 482  |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 128  | 129  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 309  | 321  | 620                                     | 675                                   | 0.9185                  | 0.4578          | 0.4763         |        |
| 9                  | Punjab<br>@               | C                          | 3  | 3    |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 0  | 0    |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 2  | 2    |   | 31                                    | 0.0000                  | 0.0487          | 0.0487         |        |
| 10                 | Rajasthan                 | C                          | 423  | 418  |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 955  | 939  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 684  | 674  | 2522                                    | 3076                                  | 0.8198                  | 0.2225          | 0.2190         |        |
| 11                 | Uttar<br>Pradesh<br>@     | C                          | 1291   | 3545 |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 133  | 129  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 1006   | 2705 | 703                                     | 759                                   | 0.9259                  | 1.3247          | 3.5625         |        |
| 12                 | West<br>Bengal<br>@       | C                          | 0  | 6    |   |                                       |                         |                 |                |        |
|                    |                           | S                          | 93   | 126  |   |                                       |                         |                 |                |        |
|                    |                           | P                          | 20   | 31   |   | 610                                   | 0.0000                  | 0.0323          | 0.0509         |        |
| For states covered |                           |                            | 2806   | 4999 | 4208                                    | 6659                                  |                         | 0.4213          | 0.7507         |        |

Source:- (1) TRS information collected in prescribed format from Shashtri Bhawan, New Delhi.  
(2) Final Estimates collected from DES, M/o Agriculture, New Delhi.

Note:-

- 1) A-III = Estimates based on khasra entries in sample cluster.
- 2) A-IV = Estimates based on supervisors observations of crop area in sample cluster.
- 3) \* = A-III figures not given due to insufficient data of primary workers
- 4) @ Data Not available for TRS estimates
- 5) \$ Data Not available for Final Estimates
- 6) TRS is not applicable in the States of Kerala, Orissa and West Bengal
- 7) NA- Not Available/Applicable.
- 8) # - In the light of introduction of concept of Kharif and Rabi seasons in the Tamil Nadu state from Agricultural year 2017-18 and consequent categorization of crops, the data have been presented seasonwise instead of whole year.
- 9) P^= Since data from only one agency is available, the same has been taken against pooled agency for comparison purpose.
- 10) NR= Not Reported.
- 11) \$\$= TRS area is of 2017-18.
- 12) NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

**COMPARISON OF PERCENTAGE OF AREA UNDER DIFFERENT INPUTS AS ESTIMATED  
UNDER ICS & TRS : 2019-20**

| Sl. No.  | State            | S E A S O N | Percentage of Area under different categories |       |        |             |        |        |           |                    |       |        |             |       |        |           |
|--|------------------|-------------|---|-------|--------|-------------|--------|--------|-----------|--------------------|-------|--------|-------------|-------|--------|-----------|
|  |                  |             | As per Sample check                           |       |        |             |        |        | T O T A L | As per T.R.S. @    |       |        |             |       |        | T O T A L |
|  |                  |             | Irrigated                                     |       |        | Unirrigated |        |        |           | Irrigated          |       |        | Unirrigated |       |        |           |
|  |                  |             | HYV   | Local | Total  | HYV         | Local  | Total  |           | HYV                | Local | Total  | HYV         | Local | Total  |           |
| 1  | 2                | 3           | 4   | 5     | 6      | 7           | 8      | 9      | 10        | 11                 | 12    | 13     | 14          | 15    | 16     | 17        |
| <b>RICE</b>  |                  |             |   |       |        |             |        |        |           |                    |       |        |             |       |        |           |
| 1  | Andhra           | Kharif      | 96.07   | 0.65  | 96.72  | 2.85        | 0.43   | 3.28   | 100       | 0.00               | 0.00  | 95.80  | 0.00        | 0.00  | 4.20   | 100       |
|  | Pradesh          | Rabi        | 98.81   | 0.26  | 99.08  | 0.61        | 0.31   | 0.92   | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
| 2  | Assam            | Autumn      | 1.98  | 1.83  | 3.81   | 5.01        | 91.18  | 96.19  | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
|  |                  | Winter      | 0.00  | 0.00  | 0.00   | 2.63        | 97.37  | 100.00 | 100       | 0.00               | 0.00  | 0.00   | 0.00        | 0.00  | 0.00   | 0         |
|  |                  | Summer      | 14.39   | 11.10 | 25.49  | 0.14        | 74.37  | 74.51  | 100       | Data not available |       |        |             |       |        |           |
| 3  | Bihar            | Autumn      | 53.42   | 8.27  | 61.69  | 9.29        | 29.02  | 38.31  | 100       | 0.00               | 0.00  | 50.99  | 0.00        | 0.00  | 49.01  | 100       |
|  |                  | Winter      | 73.42   | 11.89 | 85.31  | 5.09        | 9.60   | 14.69  | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
|  |                  | Summer      | 0.00  | 0.00  | 0.00   | 0.00        | 100.00 | 100.00 | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
| 4  | Chattis-garh     | Kharif      | 33.99   | 0.13  | 34.12  | 49.46       | 16.42  | 65.88  | 100       | 0.00               | 0.00  | 34.46  | 0.00        | 0.00  | 65.54  | 100       |
| 5  | Gujarat          | Kharif      | 71.15   | 14.39 | 85.54  | 11.27       | 3.19   | 14.46  | 100       | 0.00               | 0.00  | 78.23  | 0.00        | 0.00  | 21.77  | 100       |
| 6  | Haryana          | Kharif      | 99.92   | 0.00  | 99.92  | -           | -      | -      | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
| 7  | Himachal Pradesh | Kharif      | 73.01   | 2.57  | 75.59  | 17.85       | 6.56   | 24.41  | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
| 8  | Jammu & Kashmir  | Kharif      | 48.64   | 41.30 | 89.94  | 8.56        | 1.50   | 10.06  | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
| 9  | Jharkhand        | Autumn      | 0.00  | 0.00  | 0.00   | 0.00        | 100.00 | 100.00 | 100       | 0.00               | 0.00  | 0.00   | 0.00        | 0.00  | 100.00 | 100       |
|  |                  | Winter      | 5.15  | 0.62  | 5.77   | 16.75       | 77.48  | 94.23  | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
|  |                  | Summer      | Data Not Available                            |       |        |             |        |        |           |                    |       |        |             |       |        |           |
| 10   | Karnataka        | Kharif      | 55.32   | 3.99  | 59.31  | 34.52       | 6.17   | 40.69  | 100       | 0.00               | 0.00  | 74.67  | 0.00        | 0.00  | 25.33  | 100       |
|  |                  | Rabi        | 88.45   | 11.55 | 100.00 | 0.00        | 0.00   | 0.00   | 100       | 0.00               | 0.00  | 100.00 | 0.00        | 0.00  | 0.00   | 100       |
| 11   | Kerala           | Autumn      | 27.14   | 0.09  | 27.23  | 72.43       | 0.34   | 72.77  | 100       | TRS NOT APPLICABLE |       |        |             |       |        |           |
|  |                  | Winter      | 65.35   | 0.99  | 66.34  | 6.18        | 27.48  | 33.66  | 100       | TRS NOT APPLICABLE |       |        |             |       |        |           |
|  |                  | Summer      | 95.92   | 3.95  | 99.87  | 0.11        | 0.02   | 0.13   | 100       | TRS NOT APPLICABLE |       |        |             |       |        |           |
| 12   | Madhya Pradesh   | Kharif      | 40.90   | 9.66  | 50.56  | 29.78       | 19.66  | 49.44  | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
| 13   | Maharashtra      | Kharif      | 34.59   | 4.04  | 38.63  | 50.60       | 10.77  | 61.37  | 100       | 0.00               | 0.00  | 21.54  | 0.00        | 0.00  | 82.18  | 100       |
| 14   | Odisha           | Autumn      | 2.31  | 0.05  | 2.36   | 88.61       | 9.03   | 97.64  | 100       | TRS NOT APPLICABLE |       |        |             |       |        |           |
|  |                  | Winter      | 9.77  | 0.00  | 9.77   | 89.84       | 0.39   | 90.23  | 100       | TRS NOT APPLICABLE |       |        |             |       |        |           |
|  |                  | Summer      | 84.45   | 1.91  | 86.37  | 13.63       | 0.00   | 13.63  | 100       | TRS NOT APPLICABLE |       |        |             |       |        |           |
| 15   | Punjab           | Kharif      | 98.77   | 1.23  | 100.00 | 0.00        | 0.00   | 0.00   | 100       | Data not available |       |        |             |       |        |           |
| 16   | Tamil Nadu       | Phase I     | 91.04   | 3.19  | 94.23  | 5.52        | 0.25   | 5.77   | 100       | 0.00               | 0.00  | 88.40  | 0.00        | 0.00  | 11.60  | 100       |
|  |                  | Phase II    | 99.80   | 0.00  | 99.80  | 0.20        | 0.00   | 0.20   | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
|  |                  | Rabi        | 99.95   | 0.00  | 99.95  | 0.00        | 0.05   | 0.05   | 100       | 0.00               | 0.00  | 95.91  | 0.00        | 0.00  | 4.09   | 100       |
| 17   | Telangana        | Kharif      | 96.45   | 2.22  | 98.67  | 1.33        | 0.00   | 1.33   | 100       | 0.00               | 0.00  | 99.03  | 0.00        | 0.00  | 0.97   | 100       |
|  |                  | Rabi        | 100.00  | 0.00  | 100.00 | 0.00        | 0.00   | 0.00   | 100       | 0.00               | 0.00  | 99.94  | 0.00        | 0.00  | 0.06   | 100       |
| 18   | Uttar Pradesh    | Kharif      | 98.26   | 0.67  | 98.93  | 0.95        | 0.12   | 1.07   | 100       | 0.00               | 0.00  | 83.92  | 0.00        | 0.00  | 16.08  | 100       |
| 19   | Uttara-khand     | Kharif      | 86.71   | 2.77  | 89.48  | 0.44        | 10.08  | 10.52  | 100       | 0.00               | 0.00  | 73.91  | 0.00        | 0.00  | 26.09  | 100       |
| 20   | West Bengal      | Autumn      | Data Not Available                            |       |        |             |        |        |           |                    |       |        |             |       |        |           |
|  |                  | Winter      | 0.09  | 0.01  | 0.10   | 1.51        | 98.39  | 99.90  | 100       | TRS NOT APPLICABLE |       |        |             |       |        |           |
|  |                  | Summer      | NC  | NC    | NC     | NC          | NC     | NC     | NC        | TRS NOT APPLICABLE |       |        |             |       |        |           |
| 21   | Puducherry       | Kharif      | 100.00  | 0.00  | 100.00 | 0.00        | 0.00   | 0.00   | 100       | 0.00               | 0.00  | 0.00   | 0.00        | 0.00  | 0.00   | 0         |
|  |                  | Rabi-I      | 100.00  | 0.00  | 100.00 | 0.00        | 0.00   | 0.00   | 100       | Data not available |       |        |             |       |        |           |
|  |                  | Rabi-II     | 100.00  | 0.00  | 100.00 | 0.00        | 0.00   | 0.00   | 100       | 0.00               | 0.00  | 0.00   | 0.00        | 0.00  | 100.00 | 100       |
| TOTAL FOR STATES COVERED UNDER ICS SCHEME                                    |                  |             | 72.01   | 3.29  | 75.29  | 16.18       | 8.53   | 24.71  | 100       | 0.00               | 0.00  | 71.67  | 0.00        | 0.00  | 28.58  | 100       |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                  |             | 78.47   | 2.95  | 81.42  | 11.99       | 6.59   | 18.58  | 100       | 0.00               | 0.00  | 71.74  | 0.00        | 0.00  | 28.52  | 100       |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL               |                  |             | 75.38   | 2.69  | 78.07  | 15.47       | 6.46   | 21.93  | 100       | 0.00               | 0.00  | 63.31  | 0.00        | 0.00  | 37.04  | 100       |

@ = TRS data collected from Ministry of Agriculture, New Delhi

| Sl. No.  | State          | S E A S O N | Percentage of Area under different categories |       |       |             |       |        |           |                 |       |       |             |       |        |           |
|--|----------------|-------------|---|-------|-------|-------------|-------|--------|-----------|-----------------|-------|-------|-------------|-------|--------|-----------|
|  |                |             | As per Sample check                           |       |       |             |       |        | T O T A L | As per T.R.S. @ |       |       |             |       |        | T O T A L |
|  |                |             | Irrigated                                     |       |       | Unirrigated |       |        |           | Irrigated       |       |       | Unirrigated |       |        |           |
|  |                |             | HYV   | Local | Total | HYV         | Local | Total  |           | HYV             | Local | Total | HYV         | Local | Total  |           |
| 1  | 2              | 3           | 4   | 5     | 6     | 7           | 8     | 9      | 10        | 11              | 12    | 13    | 14          | 15    | 16     | 17        |
| <b>JOWAR</b>   |                |             |   |       |       |             |       |        |           |                 |       |       |             |       |        |           |
| 1  | Karnataka      | Kharif      | 9.42  | 0.44  | 9.86  | 62.40       | 27.74 | 90.14  | 100       | 0.00            | 0.00  | 15.38 | 0.00        | 0.00  | 84.62  | 100       |
|  |                | Rabi        | 17.33   | 4.72  | 22.05 | 54.10       | 23.85 | 77.95  | 100       | 0.00            | 0.00  | 15.79 | 0.00        | 0.00  | 84.21  | 100       |
| 2  | Madhya Pradesh | Kharif      | 2.92  | 0.00  | 2.92  | 61.47       | 35.61 | 97.08  | 100       | NC              | NC    | NC    | NC          | NC    | NC     | NC        |
| 3  | Maharashtra    | Kharif      | 8.64  | 0.00  | 8.64  | 85.36       | 6.00  | 91.36  | 100       | 0.00            | 0.00  | 1.54  | 0.00        | 0.00  | 98.46  | 100       |
|  |                | Rabi        | 25.06   | 7.00  | 32.06 | 46.60       | 21.34 | 67.94  | 100       | 0.00            | 0.00  | 22.45 | 0.00        | 0.00  | 77.55  | 100       |
| 4  | Rajasthan      | Kharif      | 3.50  | 0.43  | 3.93  | 42.81       | 53.26 | 96.07  | 100       | 0.00            | 0.00  | 0.46  | 0.00        | 0.00  | 99.54  | 100       |
| 5  | Tamil Nadu     | Phase I     | 12.92   | 3.48  | 16.40 | 60.54       | 23.06 | 83.60  | 100       | 0.00            | 0.00  | 7.95  | 0.00        | 0.00  | 92.05  | 100       |
|  |                | Phase II    | 24.01   | 9.62  | 33.63 | 57.85       | 8.51  | 66.37  | 100       | 0.00            | 0.00  | 15.31 | 0.00        | 0.00  | 84.69  | 100       |
| 6  | Telangana      | Kharif      | 0.00  | 0.00  | 0.00  | 87.79       | 12.21 | 100.00 | 100       | 0.00            | 0.00  | 0.00  | 0.00        | 0.00  | 100.00 | 100       |
|  |                | Rabi        | 88.65   | 0.49  | 89.14 | 8.06        | 2.80  | 10.86  | 100       | 0.00            | 0.00  | 58.06 | 0.00        | 0.00  | 41.94  | 100       |
| 7  | Uttar Pradesh  | Kharif      | 8.42  | 0.37  | 8.79  | 23.59       | 67.63 | 91.21  | 100       | 0.00            | 0.00  | 0.60  | 0.00        | 0.00  | 99.40  | 100       |
| TOTAL FOR  |                |             | 19.74   | 5.06  | 24.80 | 51.50       | 23.71 | 75.20  | 100       | 0.00            | 0.00  | 14.10 | 0.00        | 0.00  | 85.90  | 100       |
| COVERED UNDER ICS SCHEME   |                |             |   |       |       |             |       |        |           |                 |       |       |             |       |        |           |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                |             | 19.74   | 5.06  | 24.80 | 51.50       | 23.71 | 75.20  | 100       | 0.00            | 0.00  | 14.10 | 0.00        | 0.00  | 85.90  | 100       |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL               |                |             | 7.99  | 0.34  | 8.34  | 62.19       | 29.47 | 91.66  | 100       | 0.00            | 0.00  | 20.46 | 0.00        | 0.00  | 79.54  | 100       |
| <b>BAJRA</b>   |                |             |   |       |       |             |       |        |           |                 |       |       |             |       |        |           |
| 1  | Andhra Pradesh | Kharif      | 17.09   | 0.00  | 17.09 | 81.74       | 1.17  | 82.91  | 100       | 0.00            | 0.00  | 13.64 | 0.00        | 0.00  | 86.36  | 100       |
| 2  | Gujarat        | Kharif      | 29.60   | 0.29  | 29.89 | 62.30       | 7.81  | 70.11  | 100       | 0.00            | 0.00  | 14.81 | 0.00        | 0.00  | 85.19  | 100       |
| 3  | Haryana        | Kharif      | 58.37   | 0.15  | 58.52 | 23.62       | 17.86 | 41.48  | 100       | NC              | NC    | NC    | NC          | NC    | NC     | NC        |
| 4  | Karnataka      | Kharif      | 12.70   | 0.55  | 13.26 | 72.02       | 14.72 | 86.74  | 100       | 0.00            | 0.00  | 17.73 | 0.00        | 0.00  | 82.27  | 100       |
| 5  | Maharashtra    | Kharif      | 17.17   | 0.00  | 17.17 | 81.11       | 1.72  | 82.83  | 100       | 0.00            | 0.00  | 4.61  | 0.00        | 0.00  | 95.39  | 100       |
| 6  | Rajasthan      | Kharif      | 1.92  | 2.63  | 4.55  | 62.15       | 33.31 | 95.45  | 100       | 0.00            | 0.00  | 4.49  | 0.00        | 0.00  | 95.51  | 100       |
| 7  | Tamil Nadu     | Kharif      | 19.34   | 0.00  | 19.34 | 40.04       | 40.62 | 80.66  | 100       | 0.00            | 0.00  | 13.33 | 0.00        | 0.00  | 86.67  | 100       |
| 8  | Uttar Pradesh  | Kharif      | 7.16  | 0.06  | 7.22  | 91.17       | 1.62  | 92.78  | 100       | 0.00            | 0.00  | 9.05  | 0.00        | 0.00  | 90.95  | 100       |
| TOTAL FOR STATES COVERED UNDER ICS SCHEME                                    |                |             | 9.97  | 0.32  | 10.29 | 83.99       | 5.72  | 89.71  | 100       | 0.00            | 0.00  | 5.97  | 0.00        | 0.00  | 94.03  | 100       |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                |             | 9.97  | 0.32  | 10.29 | 83.99       | 5.72  | 89.71  | 100       | 0.00            | 0.00  | 5.97  | 0.00        | 0.00  | 94.03  | 100       |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL               |                |             | 12.70   | 0.55  | 13.26 | 72.02       | 14.72 | 86.74  | 100       | 0.00            | 0.00  | 17.73 | 0.00        | 0.00  | 82.27  | 100       |

| Sl. No.  | State            | S E A S O N | Percentage of Area under different categories |       |       |             |        |        |           |                    |       |       |             |       |       |           |
|--|------------------|-------------|---|-------|-------|-------------|--------|--------|-----------|--------------------|-------|-------|-------------|-------|-------|-----------|
|  |                  |             | As per Sample check                           |       |       |             |        |        | T O T A L | As per T.R.S. @    |       |       |             |       |       | T O T A L |
|  |                  |             | Irrigated                                     |       |       | Unirrigated |        |        |           | Irrigated          |       |       | Unirrigated |       |       |           |
|  |                  |             | HYV   | Local | Total | HYV         | Local  | Total  |           | HYV                | Local | Total | HYV         | Local | Total |           |
| 1  | 2                | 3           | 4   | 5     | 6     | 7           | 8      | 9      | 10        | 11                 | 12    | 13    | 14          | 15    | 16    | 17        |
| <b>RAGI</b>  |                  |             |   |       |       |             |        |        |           |                    |       |       |             |       |       |           |
| 1  | Karnataka        | Kharif      | 3.89  | 3.89  | 7.78  | 79.32       | 12.90  | 92.22  | 100       | 0.00               | 0.00  | 7.00  | 0.00        | 0.00  | 93.00 | 100       |
| 2  | Uttarakhand      | Kharif      | 0.00  | 0.00  | 0.00  | 0.00        | 100.00 | 100.00 | 100       | 0.00               | 0.00  | 0.00  | 0.00        | 0.00  | 100   | 100       |
| TOTAL FOR STATES COVERED UNDER ICS SCHEME                                    |                  |             | 3.75  | 3.75  | 7.50  | 76.47       | 16.03  | 92.50  | 100       | 0.00               | 0.00  | 6.16  | 0.00        | 0.00  | 93.84 | 100       |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                  |             | 3.75  | 3.75  | 7.50  | 76.47       | 16.03  | 92.50  | 100       | 0.00               | 0.00  | 7.00  | 0.00        | 0.00  | 93.00 | 100       |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL               |                  |             | 3.89  | 3.89  | 7.78  | 79.32       | 12.90  | 92.22  | 100       | 0.00               | 0.00  | 7.00  | 0.00        | 0.00  | 93.00 | 100       |
| <b>MAIZE</b>   |                  |             |   |       |       |             |        |        |           |                    |       |       |             |       |       |           |
| 1  | Bihar            | Kharif      | 61.33   | 7.46  | 68.79 | 1.24        | 29.96  | 31.21  | 100       | 0.00               | 0.00  | 44.30 | 0.00        | 0.00  | 55.70 | 100       |
| 2  | Chattisgarh      | Kharif      | 1.35  | 0.00  | 1.35  | 59.53       | 24.44  | 98.65  | 100       | 0.00               | 0.00  | 4.20  | 0.00        | 0.00  | 95.80 | 100       |
| 3  | Gujarat          | Kharif      | 29.39   | 6.78  | 36.17 | 37.23       | 26.60  | 63.83  | 100       | 0.00               | 0.00  | 26.53 | 0.00        | 0.00  | 73.47 | 100       |
| 4  | Haryana          | Kharif      | 93.31   | 0.00  | 93.31 | 0.00        | 6.69   | 6.69   | 100       | NC                 | NC    | NC    | NC          | NC    | NC    | NC        |
| 5  | Himachal Pradesh | Kharif      | 5.26  | 15.61 | 20.86 | 35.88       | 43.26  | 79.14  | 100       | 0.00               | 0.00  | 0.00  | 0.00        | 0.00  | 0.00  | 0.00      |
| 6  | Jharkhand        | Kharif      | 0.00  | 0.00  | 0.00  | 0.00        | 0.00   | 0.00   | 0         | 0.00               | 0.00  | 0.00  | 0.00        | 0.00  | 0.00  | 0.00      |
| 7  | Jammu & Kashmir  | Kharif      | 9.16  | 7.81  | 16.97 | 48.86       | 34.17  | 83.03  | 100       | NC                 | NC    | NC    | NC          | NC    | NC    | NC        |
| 8  | Karnataka        | Kharif      | 30.86   | 0.99  | 31.85 | 65.03       | 3.12   | 68.15  | 100       | 0.00               | 0.00  | 26.23 | 0.00        | 0.00  | 73.77 | 100       |
| 9  | Madhya Pradesh   | Kharif      | 1.20  | 0.03  | 1.22  | 72.82       | 25.96  | 98.78  | 100       | NC                 | NC    | NC    | NC          | NC    | NC    | NC        |
| 10   | Odisha           | Kharif      | 0.37  | 0.00  | 0.37  | 96.53       | 3.10   | 99.63  | 100       | Not applicable     |       |       |             |       |       |           |
| 11   | Punjab           | Kharif      | 82.91   | 5.49  | 88.40 | 0.00        | 11.60  | 11.60  | 100       | Data not available |       |       |             |       |       |           |
| 12   | Rajasthan        | Kharif      | 0.10  | 0.00  | 0.10  | 60.90       | 39.01  | 99.90  | 100       | 0.00               | 0.00  | 0.12  | 0.00        | 0.00  | 99.88 | 100       |
| 13   | Tamil Nadu       | Kharif      | 33.40   | 0.54  | 33.94 | 58.63       | 7.44   | 66.06  | 100       | Data not available |       |       |             |       |       |           |
| 14   | Telangana        | Kharif      | 10.97   | 0.87  | 11.85 | 87.83       | 0.33   | 88.15  | 100       | Data not available |       |       |             |       |       |           |
| 15   | Uttar Pradesh    | Kharif      | 53.46   | 0.00  | 53.46 | 39.85       | 6.69   | 46.54  | 100       | 0.00               | 0.00  | 36.09 | 0.00        | 0.00  | 63.91 | 100       |
| TOTAL FOR STATES COVERED UNDER ICS SCHEME                                    |                  |             | 24.19   | 1.79  | 25.98 | 57.24       | 16.53  | 74.02  | 100       | 0.00               | 0.00  | 21.74 | 0.00        | 0.00  | 78.26 | 100.00    |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                  |             | 24.78   | 1.65  | 26.43 | 55.37       | 17.90  | 73.57  | 100       | 0.00               | 0.00  | 22.40 | 0.00        | 0.00  | 77.60 | 100       |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL               |                  |             | 1.72  | 0.54  | 2.26  | 71.24       | 26.50  | 97.74  | 100       | 0.00               | 0.00  | 24.25 | 0.00        | 0.00  | 75.75 | 100       |

| Sl. No.  | State          | S E A S O N | Percentage of Area under different categories |       |        |             |       |       |           |                    |       |       |             |       |       |           |
|--|----------------|-------------|---|-------|--------|-------------|-------|-------|-----------|--------------------|-------|-------|-------------|-------|-------|-----------|
|  |                |             | As per Sample check                           |       |        |             |       |       | T O T A L | As per T.R.S. @    |       |       |             |       |       | T O T A L |
|  |                |             | Irrigated                                     |       |        | Unirrigated |       |       |           | Irrigated          |       |       | Unirrigated |       |       |           |
|  |                |             | HYV   | Local | Total  | HYV         | Local | Total |           | HYV                | Local | Total | HYV         | Local | Total |           |
| 1  | 2              | 3           | 4   | 5     | 6      | 7           | 8     | 9     | 10        | 11                 | 12    | 13    | 14          | 15    | 16    | 17        |
| <b>COTTON</b>  |                |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| 1  | Andhra Pradesh | Kharif      | 14.90   | 0.06  | 14.96  | 82.55       | 2.48  | 85.04 | 100       | 0.00               | 0.00  | 22.74 | 0.00        | 0.00  | 77.26 | 100       |
| 2  | Gujarat        | Kharif      | 80.77   | 0.33  | 81.09  | 13.97       | 4.94  | 18.91 | 100       | 0.00               | 0.00  | 64.91 | 0.00        | 0.00  | 35.09 | 100       |
| 3  | Haryana        | Kharif      | 98.17   | 0.22  | 98.39  | 1.38        | 0.23  | 1.61  | 100       | NC                 | NC    | NC    | NC          | NC    | NC    | NC        |
| 4  | Karnataka      | Kharif      | 23.13   | 0.59  | 23.71  | 69.09       | 7.20  | 76.29 | 100       | 0.00               | 0.00  | 23.08 | 0.00        | 0.00  | 76.92 | 100       |
| 5  | Madhya Pradesh | Kharif      | 58.78   | 0.00  | 58.78  | 36.51       | 4.71  | 41.22 | 100       | NC                 | NC    | NC    | NC          | NC    | NC    | NC        |
| 6  | Maharashtra    | Kharif      | 16.80   | 0.09  | 16.89  | 82.98       | 0.13  | 83.11 | 100       | 0.00               | 0.00  | 10.38 | 0.00        | 0.00  | 89.62 | 100       |
| 7  | Punjab         | Kharif      | 99.25   | 0.75  | 100.00 | 0.00        | 0.00  | 0.00  | 100       | Data not available |       |       |             |       |       |           |
| 8  | Rajasthan      | Kharif      | 90.62   | 4.44  | 95.06  | 2.63        | 2.31  | 4.94  | 100       | 0.00               | 0.00  | 97.50 | 0.00        | 0.00  | 2.50  | 100       |
| 9  | Tamil Nadu     | Kharif      | 44.30   | 0.00  | 44.30  | 52.93       | 2.76  | 55.70 | 100       | 0.00               | 0.00  | 20.00 | 0.00        | 0.00  | 80.00 | 100       |
|  | Tamil Nadu     | Rabi        | 100.00  | 0.00  | 100.00 | 0.00        | 0.00  | 0.00  | 100       | 0.00               | 0.00  | 27.27 | 0.00        | 0.00  | 72.73 | 100       |
| 10   | Telangana      | Kharif      | 9.76  | 0.00  | 9.76   | 89.82       | 0.43  | 90.24 | 100       | 0.00               | 0.00  | 0.00  | 0.00        | 0.00  | 0.00  | 0         |
| TOTAL FOR  |                |             | 35.46   | 0.25  | 35.70  | 62.35       | 1.95  | 64.30 | 100       | 0.00               | 0.00  | 22.20 | 0.00        | 0.00  | 77.80 | 100       |
| STATES COVERED UNDER ICS SCHEME                                    |                |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| TOTAL FOR  |                |             | 38.93   | 0.28  | 39.21  | 58.61       | 2.19  | 60.79 | 100       | 0.00               | 0.00  | 22.20 | 0.00        | 0.00  | 77.80 | 100       |
| STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL     |                |             | Variety wise TRS Estimates not available      |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| <b>GROUNDNUT</b>   |                |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| 1  | Andhra Pradesh | Kharif      | 5.57  | 3.06  | 8.63   | 86.32       | 5.04  | 91.37 | 100       | 0.00               | 0.00  | 5.33  | 0.00        | 0.00  | 94.67 | 100       |
| 2  | Gujarat        | Kharif      | 61.26   | 0.95  | 62.21  | 18.28       | 19.51 | 37.79 | 100       | 0.00               | 0.00  | 24.02 | 0.00        | 0.00  | 75.98 | 100       |
| 3  | Karnataka      | Kharif      | 6.16  | 1.06  | 7.22   | 63.74       | 29.03 | 92.78 | 100       | 0.00               | 0.00  | 8.10  | 0.00        | 0.00  | 91.90 | 100       |
| 4  | Madhya Pradesh | Kharif      | 6.09  | 0.24  | 6.34   | 59.22       | 34.44 | 93.66 | 100       | 0.00               | 0.00  | NC    | 0.00        | 0.00  | NC    | NC        |
| 5  | Maharashtra    | Kharif      | 24.32   | 0.62  | 24.94  | 65.45       | 9.61  | 75.06 | 100       | 0.00               | 0.00  | 7.24  | 0.00        | 0.00  | 92.76 | 100       |
| 6  | Rajasthan      | Kharif      | 60.53   | 9.61  | 70.15  | 14.69       | 15.16 | 29.85 | 100       | 0.00               | 0.00  | 85.36 | 0.00        | 0.00  | 14.64 | 100       |
| 7  | Tamil Nadu     | Kharif      | 61.32   | 0.72  | 62.04  | 37.42       | 0.54  | 37.96 | 100       | 0.00               | 0.00  | 10.75 | 0.00        | 0.00  | 89.25 | 100       |
|  | Tamil Nadu     | Rabi        | 100.00  | 0.00  | 100.00 | 0.00        | 0.00  | 0.00  | 100       | 0.00               | 0.00  | 89.06 | 0.00        | 0.00  | 10.94 | 100       |
| 8  | Telangana      | Kharif      | 5.79  | 0.00  | 5.79   | 94.21       | 0.00  | 94.21 | 100       | 0.00               | 0.00  | 0.00  | 0.00        | 0.00  | 30.77 | 100       |
| TOTAL FOR  |                |             | 42.39   | 1.35  | 43.74  | 39.50       | 16.76 | 56.26 | 100       | 0.00               | 0.00  | 33.51 | 0.00        | 0.00  | 66.49 | 100       |
| STATES COVERED UNDER ICS SCHEME                                    |                |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| TOTAL FOR  |                |             | 42.87   | 1.37  | 44.24  | 38.78       | 16.98 | 55.76 | 100       | 0.00               | 0.00  | 33.51 | 0.00        | 0.00  | 66.49 | 100       |
| STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL     |                |             | 6.16  | 1.06  | 7.22   | 63.74       | 29.03 | 92.78 | 100       | 0.00               | 0.00  | 8.10  | 0.00        | 0.00  | 91.90 | 100       |

| Sl. No.  | State          | S E A S O N | Percentage of Area under different categories |       |        |             |       |       |           |                    |       |        |             |       |        |           |
|--|----------------|-------------|---|-------|--------|-------------|-------|-------|-----------|--------------------|-------|--------|-------------|-------|--------|-----------|
|  |                |             | As per Sample check                           |       |        |             |       |       | T O T A L | As per T.R.S. @    |       |        |             |       |        | T O T A L |
|  |                |             | Irrigated                                     |       |        | Unirrigated |       |       |           | Irrigated          |       |        | Unirrigated |       |        |           |
|  |                |             | HYV   | Local | Total  | HYV         | Local | Total |           | HYV                | Local | Total  | HYV         | Local | Total  |           |
| 1  | 2              | 3           | 4   | 5     | 6      | 7           | 8     | 9     | 10        | 11                 | 12    | 13     | 14          | 15    | 16     | 17        |
| <b>SUGARCANE</b>   |                |             |   |       |        |             |       |       |           |                    |       |        |             |       |        |           |
| 1  | Andhra Pradesh | Kharif      | 100.00  | 0.00  | 100.00 | 0.00        | 0.00  | 0.00  | 100       | 0.00               | 0.00  | 91.86  | 0.00        | 0.00  | 8.14   | 100       |
| 2  | Assam          | Kharif      | 0.00  | 0.00  | 0.00   | 0.00        | 0.00  | 0.00  | 0         | Data not available |       |        |             |       |        |           |
| 3  | Bihar          | Kharif      | 69.41   | 21.42 | 90.84  | 2.09        | 7.07  | 9.16  | 100       | 0.00               | 0.00  | 52.14  | 0.00        | 0.00  | 47.86  | 100       |
| 4  | Haryana        | Kharif      | 100.00  | 0.00  | 100.00 | 0.00        | 0.00  | 0.00  | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
| 5  | Karnataka @    | Kharif      | 77.82   | 21.19 | 99.01  | 0.33        | 0.66  | 0.99  | 100       | NC                 | NC    | NC     | NC          | NC    | NC     | NC        |
| 6  | Maharashtra    | Kharif      | 87.16   | 9.12  | 96.28  | 2.20        | 1.52  | 3.72  | 100       | Data not available |       |        |             |       |        |           |
| 7  | Punjab         | Kharif      | 100.00  | 0.00  | 100.00 | 0.00        | 0.00  | 0.00  | 100       | Data not available |       |        |             |       |        |           |
| 8  | Rajasthan      | Kharif      | NC  | NC    | NC     | NC          | NC    | NC    | NC        | -                  | -     | 100.00 | -           | -     | 0.00   | 100       |
| 9  | Tamil Nadu     | Phase I     | 99.46   | 0.21  | 99.67  | 0.33        | 0.00  | 0.33  | 100       | 0.00               | 0.00  | 100.00 | -           | -     | 0.00   | 100       |
|  |                | Phase II    | 100.00  | 0.00  | 100.00 | 0.00        | 0.00  | 0.00  | 100       | NC                 | NC    | NC     | -           | -     | NC     | NC        |
| 10   | Uttar Pradesh  | Kharif      | 93.41   | 2.73  | 96.15  | 3.72        | 0.13  | 3.85  | 100       | -                  | -     | 94.52  | -           | -     | 5.48   | 100       |
| 11   | Uttarakhand    | Kharif      | 97.74   | 2.26  | 100.00 | 0.00        | 0.00  | 0.00  | 100       | -                  | -     | 0.00   | -           | -     | 100.00 | 100       |
| TOTAL FOR  |                |             | 89.83   | 6.76  | 96.59  | 2.79        | 0.61  | 3.41  | 100       | 0.00               | 0.00  | 87.97  | 0.00        | 0.00  | 12.03  | 100       |
| STATES COVERED UNDER ICS SCHEME  |                |             |   |       |        |             |       |       |           |                    |       |        |             |       |        |           |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                |             | 90.08   | 6.54  | 96.62  | 2.87        | 0.52  | 3.38  | 100       | 0.00               | 0.00  | 87.97  | 0.00        | 0.00  | 12.03  | 100       |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL               |                |             | Variety wise TRS estimates not available.     |       |        |             |       |       |           |                    |       |        |             |       |        |           |

| Sl. No.  | State            | S E A S O N | Percentage of Area under different categories |       |        |             |       |       |           |                    |       |       |             |       |        |           |
|--|------------------|-------------|---|-------|--------|-------------|-------|-------|-----------|--------------------|-------|-------|-------------|-------|--------|-----------|
|  |                  |             | As per Sample check                           |       |        |             |       |       | T O T A L | As per T.R.S. @    |       |       |             |       |        | T O T A L |
|  |                  |             | Irrigated                                     |       |        | Unirrigated |       |       |           | Irrigated          |       |       | Unirrigated |       |        |           |
|  |                  |             | HYV   | Local | Total  | HYV         | Local | Total |           | HYV                | Local | Total | HYV         | Local | Total  |           |
| 1  | 2                | 3           | 4   | 5     | 6      | 7           | 8     | 9     | 10        | 11                 | 12    | 13    | 14          | 15    | 16     | 17        |
| <b>WHEAT</b>   |                  |             |   |       |        |             |       |       |           |                    |       |       |             |       |        |           |
| 1  | Assam            | Rabi        | 0.00  | 7.88  | 7.88   | 0.00        | 92.12 | 92.12 | 100       | NC                 | NC    | NC    | NC          | NC    | NC     | NC        |
| 2  | Bihar            | Rabi        | 83.54   | 8.88  | 92.41  | 1.12        | 6.47  | 7.59  | 100       | NC                 | NC    | NC    | NC          | NC    | NC     | NC        |
| 3  | Chhattisgarh     | Rabi        | 81.61   | 17.79 | 99.40  | 0.07        | 0.53  | 0.60  | 100       | 0.00               | 0.00  | 86.79 | 0.00        | 0.00  | 13.21  | 100       |
| 4  | Gujarat          | Rabi        | 85.59   | 7.41  | 93.01  | 1.75        | 5.24  | 6.99  | 100       | 0.00               | 0.00  | 96.35 | 0.00        | 0.00  | 3.65   | 100       |
| 5  | Haryana          | Rabi        | 96.01   | 2.65  | 98.66  | 0.05        | 1.29  | 1.34  | 100       | 0.00               | 0.00  | NC    | 0.00        | 0.00  | NC     | NC        |
| 6  | Himachal Pradesh | Rabi        | 41.78   | 4.17  | 45.96  | 26.70       | 27.34 | 54.04 | 100       | 0.00               | 0.00  | 0.00  | 0.00        | 0.00  | 0.00   | 0.00      |
| 7  | Jammu & Kashmir  | Rabi        | 40.27   | 1.40  | 41.67  | 58.33       | 0.00  | 58.33 | 100       | Data not available |       |       |             |       |        |           |
| 8  | Jharkhand        | Rabi        | 2.32  | 26.73 | 29.05  | 1.78        | 69.17 | 70.95 | 100       | 0.00               | 0.00  | 92.73 | 0.00        | 0.00  | 7.27   | 100       |
| 9  | Karnataka        | Rabi        | 53.46   | 28.11 | 81.57  | 10.42       | 8.01  | 18.43 | 100       | 0.00               | 0.00  | 67.12 | 0.00        | 0.00  | 32.88  | 100       |
| 10   | Madhya Pradesh   | Rabi        | 70.19   | 22.82 | 93.01  | 2.06        | 4.93  | 6.99  | 100       | NC                 | NC    | NC    | NC          | NC    | NC     | NC        |
| 11   | Maharashtra      | Rabi        | 76.36   | 8.48  | 84.84  | 12.53       | 2.63  | 15.16 | 100       | 0.00               | 0.00  | 70.01 | 0.00        | 0.00  | 29.99  | 100       |
| 12   | Punjab           | Rabi        | 91.86   | 8.14  | 100.00 | 0.00        | 0.00  | 0.00  | 100       | Data not available |       |       |             |       |        |           |
| 13   | Rajasthan        | Rabi        | 85.00   | 11.26 | 96.26  | 2.87        | 0.87  | 3.74  | 100       | 0.00               | 0.00  | 99.35 | 0.00        | 0.00  | 0.65   | 100       |
| 14   | Uttar Pradesh    | Rabi        | 99.50   | 0.20  | 99.70  | 0.07        | 0.23  | 0.30  | 100       | 0.00               | 0.00  | 0.00  | 0.00        | 0.00  | 0.00   | 0.00      |
| 15   | Uttarakhand      | Rabi        | 55.15   | 5.58  | 60.73  | 2.20        | 37.07 | 39.27 | 100       | 0.00               | 0.00  | 0.00  | 0.00        | 0.00  | 100.00 | 100       |
| 16   | West Bengal      | Rabi        | 86.61   | 0.00  | 86.61  | 0.00        | 13.39 | 13.39 | 100       | TRS not applicable |       |       |             |       |        |           |
| TOTAL FOR  |                  |             | 86.34   | 8.89  | 95.23  | 1.75        | 3.02  | 4.77  | 100       | 0.00               | 0.00  | 30.79 | 0.00        | 0.00  | 69.21  | 100       |
| STATES COVERED UNDER ICS SCHEME  |                  |             |   |       |        |             |       |       |           |                    |       |       |             |       |        |           |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                  |             | 76.60   | 15.21 | 91.80  | 3.03        | 5.16  | 8.20  | 100       | 0.00               | 0.00  | 30.79 | 0.00        | 0.00  | 69.21  | 100       |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL               |                  |             | 74.90   | 17.44 | 92.35  | 1.81        | 5.84  | 7.65  | 100       | 0.00               | 0.00  | 1.48  | 0.00        | 0.00  | 98.52  | 100       |

| Sl. No.  | State            | S E A S O N | Percentage of Area under different categories |       |        |             |       |       |           |                    |       |       |             |       |       |           |
|--|------------------|-------------|---|-------|--------|-------------|-------|-------|-----------|--------------------|-------|-------|-------------|-------|-------|-----------|
|  |                  |             | As per Sample check                           |       |        |             |       |       | T O T A L | As per T.R.S. @    |       |       |             |       |       | T O T A L |
|  |                  |             | Irrigated                                     |       |        | Unirrigated |       |       |           | Irrigated          |       |       | Unirrigated |       |       |           |
|  |                  |             | HYV   | Local | Total  | HYV         | Local | Total |           | HYV                | Local | Total | HYV         | Local | Total |           |
| 1  | 2                | 3           | 4   | 5     | 6      | 7           | 8     | 9     | 10        | 11                 | 12    | 13    | 14          | 15    | 16    | 17        |
| <b>BARLEY</b>  |                  |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| 1  | Haryana          | Rabi        | 52.79   | 47.21 | 100.00 | 0.00        | 0.00  | 0.00  | 100       | -                  | -     | NC    | -           | -     | NC    | 0         |
| 2  | Himachal Pradesh | Rabi        | 0.55  | 4.08  | 4.63   | 1.09        | 94.28 | 95.37 | 100       | -                  | -     | 0.00  | -           | -     | 0.00  | 0         |
| 3  | Punjab           | Rabi        | 0.00  | 0.00  | 0.00   | 0.00        | 0.00  | 0.00  | 0         | Data not available |       |       |             |       |       |           |
| 4  | Rajasthan        | Rabi        | 82.95   | 15.32 | 98.28  | 0.93        | 0.80  | 1.72  | 100       | 0.00               | 0.00  | 97.43 | 0.00        | 0.00  | 2.57  | 100       |
| TOTAL FOR  |                  |             | 77.64   | 19.97 | 97.61  | 0.79        | 1.59  | 2.39  | 100       | 1.00               | -     | 97.43 | -           | -     | 2.57  | 100       |
| STATES COVERED UNDER ICS SCHEME                                    |                  |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| TOTAL FOR  |                  |             | 71.03   | 13.12 | 84.16  | 0.79        | 0.68  | 1.48  | 100       | -                  | -     | 97.43 | -           | -     | 2.57  | 100       |
| STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                  |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL     |                  |             | VARIETY-WISE TRS ESTIMATES NOT AVAILABLE      |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| <b>GRAM</b>  |                  |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| 1  | Andhra Pradesh   | Rabi        | 1.54  | 0.00  | 1.54   | 88.03       | 10.43 | 98.46 | 100       | 0.00               | 0.00  | 1.33  | 0.00        | 0.00  | 98.67 | 100       |
| 2  | Bihar            | Rabi        | 0.00  | 0.00  | 0.00   | 0.00        | 0.00  | 0.00  | 0         | NC                 | NC    | NC    | NC          | NC    | NC    | NC        |
| 3  | Chhattisgarh     | Rabi        | 17.88   | 20.26 | 38.14  | 1.11        | 60.75 | 61.86 | 100       | -                  | -     | 67.42 | -           | -     | 32.58 | 100       |
| 4  | Gujarat          | Rabi        | 39.07   | 38.65 | 77.72  | 8.19        | 14.09 | 22.28 | 100       | -                  | -     | 81.82 | -           | -     | 18.18 | 100       |
| 5  | Haryana          | Rabi        | 78.53   | 0.00  | 78.53  | 21.47       | 0.00  | 21.47 | 100       | -                  | -     | NC    | -           | -     | NC    | NC        |
| 6  | Jharkhand        | Rabi        | 0.00  | 2.13  | 2.13   | 1.45        | 96.42 | 97.87 | 100       | -                  | -     | 7.69  | -           | -     | 92.31 | 100       |
| 7  | Karnataka        | Rabi        | 12.67   | 16.39 | 29.06  | 43.27       | 27.67 | 70.94 | 100       | 0.00               | 0.00  | 28.66 | 0.00        | 0.00  | 71.34 | 100       |
| 8  | Madhya Pradesh   | Rabi        | 31.74   | 43.08 | 74.82  | 8.66        | 16.52 | 25.18 | 100       | -                  | -     | NC    | -           | -     | NC    | NC        |
| 9  | Maharashtra      | Rabi        | 38.15   | 6.86  | 45.01  | 42.72       | 12.27 | 54.99 | 100       | 0.00               | 0.00  | 31.82 | 0.00        | 0.00  | 68.18 | 100       |
| 10   | Punjab           | Rabi        | 0.00  | 0.00  | 0.00   | 0.00        | 0.00  | 0.00  | 0         | Data not available |       |       |             |       |       |           |
| 11   | Rajasthan        | Rabi        | 19.99   | 18.46 | 38.45  | 25.25       | 36.30 | 61.55 | 100       | -                  | -     | 45.09 | -           | -     | 54.91 | 100       |
| 12   | Uttar Pradesh    | Rabi        | 6.13  | 5.40  | 11.54  | 1.57        | 86.89 | 88.46 | 100       | Data not available |       |       |             |       |       |           |
| TOTAL FOR  |                  |             | 24.18   | 16.46 | 40.63  | 26.96       | 32.40 | 59.37 | 100       |                    |       | 33.33 |             |       | 66.67 | 100       |
| STATES COVERED UNDER ICS SCHEME                                    |                  |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| TOTAL FOR  |                  |             | 20.84   | 6.95  | 27.79  | 31.27       | 17.56 | 51.44 | 100       | -                  | -     | 33.33 | -           | -     | 66.67 | 100       |
| STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                  |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL     |                  |             | VARIETY WISE TRS ESTIMATES NOT AVAILABLE      |       |        |             |       |       |           |                    |       |       |             |       |       |           |

| Sl. No.  | State          | S E A S O N | Percentage of Area under different categories |       |        |             |       |       |           |                    |       |       |             |       |       |           |
|--|----------------|-------------|---|-------|--------|-------------|-------|-------|-----------|--------------------|-------|-------|-------------|-------|-------|-----------|
|  |                |             | As per Sample check                           |       |        |             |       |       | T O T A L | As per T.R.S. @    |       |       |             |       |       | T O T A L |
|  |                |             | Irrigated                                     |       |        | Unirrigated |       |       |           | Irrigated          |       |       | Unirrigated |       |       |           |
|  |                |             | HYV   | Local | Total  | HYV         | Local | Total |           | HYV                | Local | Total | HYV         | Local | Total |           |
| 1  | 2              | 3           | 4   | 5     | 6      | 7           | 8     | 9     | 10        | 11                 | 12    | 13    | 14          | 15    | 16    | 17        |
| <b>RAPE &amp; MUSTARD</b>  |                |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| 1  | Assam          | Rabi        | 0.12  | 0.54  | 0.66   | 4.26        | 95.08 | 99.34 | 100       | 0                  | 0     | NC    | 0           | 0     | NC    | NC        |
| 2  | Bihar          | Rabi        | 77.51   | 12.46 | 89.97  | 3.20        | 6.83  | 10.03 | 100       | Data Not available |       |       |             |       |       |           |
| 3  | Chattisgarh    | Rabi        | 0.00  | 3.05  | 3.05   | 1.52        | 95.44 | 96.95 | 100       | 0                  | 0     | 15    | 0           | 0     | 85    | 100       |
| 4  | Gujarat        | Rabi        | 100.00  | 0.00  | 100.00 | 0.00        | 0.00  | 0.00  | 100       | 0.00               | 0.00  | 97.06 | 0.00        | 0.00  | 2.94  | 100       |
| 5  | Haryana @      | Rabi        | 91.55   | 0.00  | 91.55  | 8.30        | 0.15  | 8.45  | 100       | 0.00               | 0.00  | 0.00  | 0.00        | 0.00  | 0.00  | 0         |
| 6  | Jharkhand      | Rabi        | 0.66  | 30.03 | 30.70  | 1.35        | 67.95 | 69.30 | 100       | 0.00               | 0.00  | 0.00  | 0.00        | 0.00  | 0.00  | 0         |
| 7  | Madhya Pradesh | Rabi        | 55.85   | 17.54 | 73.39  | 7.52        | 19.09 | 26.61 | 100       | 0                  | 0     | NC    | 0           | 0     | NC    | NC        |
| 8  | Punjab         | Rabi        | 29.20   | 70.80 | 100.00 | 0.00        | 0.00  | 0.00  | 100       | Data Not available |       |       |             |       |       |           |
| 9  | Rajasthan      | Rabi        | 81.43   | 10.19 | 91.62  | 5.83        | 2.55  | 8.38  | 100       | 0                  | 0     | NC    | 0           | 0     | NC    | NC        |
| 10   | Uttar Pradesh  | Rabi        | 90.94   | 3.26  | 94.20  | 1.94        | 3.86  | 5.80  | 100       | 0.00               | 0.00  | 0.00  | 0.00        | 0.00  | 0.00  | 0         |
| 11   | West Bengal    | Rabi        | 31.67   | 7.57  | 39.24  | 0.00        | 60.76 | 60.76 | 100       | TRS Not applicable |       |       |             |       |       |           |
| TOTAL FOR  |                |             | 84.49   | 4.99  | 89.48  | 3.13        | 7.39  | 10.52 | 100       | 0.00               | 0.00  | 51.90 | 0.00        | 0.00  | 48.10 | 100       |
| STATES COVERED UNDER ICS SCHEME                                    |                |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| TOTAL FOR  |                |             | 61.57   | 11.30 | 72.87  | 5.88        | 21.24 | 27.13 | 100       | 0.00               | 0.00  | 52.00 | 0.00        | 0.00  | 48.00 | 100       |
| STATES WHERE TRS ESTIMATES AVAILABLE FOR IRRIGATED AND UNIRRIGATED |                |             |   |       |        |             |       |       |           |                    |       |       |             |       |       |           |
| TOTAL FOR STATES WHERE TRS ESTIMATES AVAILABLE FOR HYV & LOCAL     |                |             | VARIETY-WISE TRS ESTIMATES NOT AVAILABLE      |       |        |             |       |       |           |                    |       |       |             |       |       |           |

1. @ -Data for oilseeds used

2. NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

Note: # - In the light of introduction of concept of Kharif and Rabi seasons in the Tamil Nadu state from Agricultural year 2017-18 and consequent categorization of crops, the data have been presented seasonwise instead of whole year.

**COMPARISON OF ESTIMATES OF YIELD RATES UNDER  
ICS AND CES DURING 2019-20**

| Sl. No.              | State                          | A<br>G<br>E<br>N<br>C<br>Y | ICS          |          |                                      |         | C.E.S.       |          |                                      |         | % Diff.<br>(Col.6-<br>Col.10/<br>Col.10<br>x 100) | Coefficient<br>of<br>Variation |      |
|----------------------|--------------------------------|----------------------------|--------------|----------|--------------------------------------|---------|--------------|----------|--------------------------------------|---------|---|--------------------------------|------|
|                      |                                |                            | No.of Expts. |          | Estimated<br>Yield<br>Rate<br>Kg/Hac | %<br>SE | No.of Expts. |          | Estimated<br>Yield<br>Rate<br>Kg/Hac | %<br>SE |   |                                |      |
|                      |                                |                            | Planned      | Analysed |                                      |         | Planned      | Analysed |                                      |         |   |                                |      |
| 1                    | 2                              | 3                          | 4            | 5        | 6                                    | 7       | 8            | 9        | 10                                   | 11      | 12  | 13                             |      |
| <b>RICE (KHARIF)</b> |                                |                            |              |          |                                      |         |              |          |                                      |         |   |                                |      |
| 1                    | Andhra Pradesh                 | C                          | 160          | 149      | 3564                                 | 2.3     |              |          |                                      |         |   |                                | 28   |
|                      |                                | S                          | 160          | 148      | 3470                                 | 2.2     |              |          |                                      |         |   |                                | N.C. |
|                      |                                | P                          | 320          | 297      | 3513                                 | 1.6     | 3804         | 3804     | 5116                                 | 0.5     | -31.33  |                                | 27   |
| 2                    | Assam (Aut)                    | C                          | 100          | 34       | 2032                                 | 8.7     |              |          |                                      |         |   |                                | 51   |
|                      |                                | S                          | 100          | 37       | NP                                   |         |              |          |                                      |         |   |                                | 0    |
|                      |                                | P                          | 200          | 71       | 1939                                 | 6.6     | 1500         | 698      | 1532                                 | 1.3     | 26.57   |                                | 56   |
|                      | Assam (Wint)                   | C                          | 120          | 118      | 2348                                 | 3.2     |              |          |                                      |         |   |                                | 34   |
|                      |                                | S                          | 120          | 92       | 2212                                 | 3.2     |              |          |                                      |         |   |                                | 31   |
|                      |                                | P                          | 240          | 210      | 2278                                 | 2.3     | 3000         | 2784     | 2108                                 | 0.6     | 8.06  |                                | 33   |
| 3                    | Bihar (Aut/ Bhadai)            | C                          | 40           | 30       | 1378                                 | 14.4    |              |          |                                      |         |   |                                | 79   |
|                      |                                | S                          | 40           | 34       | 1871                                 | 6       |              |          |                                      |         |   |                                | N.C. |
|                      |                                | P                          | 80           | 64       | 1762                                 | 5.3     | 952          | 720      | 1639                                 | NR      | 7.50  |                                | 42   |
|                      | Bihar (Wint/Winter)            | C                          | 240          | 165      | 2687                                 | 3.8     |              |          |                                      |         |   |                                | 48   |
|                      |                                | S                          | 240          | 138      | 2502                                 | 5.2     |              |          |                                      |         |   |                                | N.C. |
|                      |                                | P                          | 480          | 303      | 2616                                 | 3.0     | 41245        | 38955    | 3527                                 | 0.0     | -25.83  |                                | 53   |
| 4                    | Chhattisgarh                   | C                          | 80           | 80       | 2309                                 | 5.4     |              |          |                                      |         |   |                                | 48   |
|                      |                                | S                          | 80           | 80       | 2266                                 | 3.7     |              |          |                                      |         |   |                                | 33   |
|                      |                                | P                          | 160          | 160      | 2279                                 | 3.0     | 2026         | 1596     | 1353                                 | 1.2     | 68.44   |                                | 38   |
| 5                    | Gujarat *                      | C                          | 80           | 60       | 2322                                 | 7.4     |              |          |                                      |         |   |                                | 57   |
|                      |                                | S                          | 80           | 47       | N.P.                                 |         |              |          |                                      |         |   |                                | N.C. |
|                      |                                | P                          | 160          | 107      | 2150                                 | 6.1     | 13121        | 11894    | 3268                                 | 2.0     | -34.21  |                                | 63   |
| 6                    | Haryana @                      | C                          | 90           | 90       | 3191                                 | 3.2     |              |          |                                      |         |   |                                | 31   |
|                      |                                | S                          | 90           | 38       | N.P.                                 |         |              |          |                                      |         |   |                                | 0    |
|                      |                                | P                          | 180          | 128      | 0                                    | 0.0     | 990          | 864      | 3268                                 | 1.6     | -100.00   |                                | 0    |
| 7                    | Himachal Pradesh               | C                          | 60           | 51       | 2431                                 | 7.9     |              |          |                                      |         |   |                                | 56   |
|                      |                                | S                          | 60           | 33       | 1632                                 | 11.9    |              |          |                                      |         |   |                                | N.C. |
|                      |                                | P                          | 120          | 84       | 2039                                 | 6.7     | 1626         | 1042     | 2198                                 | 2.7     | -7.24   |                                | 61   |
| 8                    | Jammu & Kashmir                | C                          | 70           | 30       | 1718                                 | 7.5     |              |          |                                      |         |   |                                | 41   |
|                      |                                | S                          | 70           | 22       | 0                                    | 0.0     |              |          |                                      |         |   |                                | N.C. |
|                      |                                | P                          | 140          | 52       | 1896                                 | 4.2     | 1362         | 1054     | 3375                                 | 3.0     | -43.82  |                                | 30   |
| 9                    | Jharkhand (Aut/E. Kharif)      | C                          | 20           | 20       | 1402                                 | 10.7    |              |          |                                      |         |   |                                | 48   |
|                      |                                | S                          | 20           | 18       | 1228                                 | 13.9    |              |          |                                      |         |   |                                | N.C. |
|                      |                                | P                          | 40           | 38       | 1327                                 | 8.5     | 600          | 452      | 1675                                 | 0.0     | -20.78  |                                | 52   |
|                      | Jharkhand (Wint/L. Kharif) * @ | C                          | 80           | 80       | 1768                                 | 4.7     |              |          |                                      |         |   |                                | 42   |
|                      |                                | S                          | 80           | 54       | N.P.                                 |         |              |          |                                      |         |   |                                | N.C. |
|                      |                                | P                          | 160          | 134      | 1711                                 | 3.7     | 18120        | 15321    | 2108                                 | 0.0     | -18.83  |                                | 43   |
| 10                   | Karnataka **                   | C                          | 144          | 94       | N.P.                                 |         |              |          |                                      |         |   |                                | 57   |
|                      |                                | S                          | 144          | 130      | N.P.                                 |         |              |          |                                      |         |   |                                | 56   |
|                      |                                | P                          | 288          | 224      | 3085                                 | 3.8     | 13010        | 11199    | 5249                                 | 1.5     | -41.23  |                                | 56   |
| 11                   | Kerala (Aut)                   | C                          | 100          | 98       | 2180                                 | 10.4    |              |          |                                      |         |   |                                | 103  |
|                      |                                | S                          | 100          | 96       | 1966                                 | 10.3    |              |          |                                      |         |   |                                | 101  |
|                      |                                | P                          | 200          | 194      | 2062                                 | 7.3     | 2268         | 2264     | 2614                                 | 3.0     | -21.12  |                                | 102  |
|                      | Kerala (Wint)                  | C                          | 100          | 90       | 3069                                 | 7.6     |              |          |                                      |         |   |                                | 72   |
|                      |                                | S                          | 100          | 90       | 2211                                 | 26.7    |              |          |                                      |         |   |                                | 253  |
|                      |                                | P                          | 200          | 180      | 2953                                 | 7.4     | 3144         | 3140     | 3058                                 | 1.3     | -3.43   |                                | 99   |
| 12                   | Madhya Pradesh *               | C                          | 100          | 100      | 2238                                 | 6.6     |              |          |                                      |         |   |                                | 66   |
|                      |                                | S                          | 100          | 86       | N.P.                                 |         |              |          |                                      |         |   |                                | 45   |
|                      |                                | P                          | 200          | 186      | 2166                                 | 3.9     | 2760         | 2316     | 1127                                 | 10.0    | 92.19   |                                | 53   |
| 13                   | Maharashtra *                  | C                          | 82           | 51       | 1901                                 | 16.1    |              |          |                                      |         |   |                                | 115  |
|                      |                                | S                          | 82           | 38       | N.P.                                 |         |              |          |                                      |         |   |                                | N.C. |
|                      |                                | P                          | 164          | 89       | 1555                                 | 6.4     | 9712         | 7806     | 1943                                 | 0.0     | -19.97  |                                | 60   |
| 14                   | Odisha (Aut) **                | C                          | 220          | 217      | N.P.                                 |         |              |          |                                      |         |   |                                | 63   |
|                      |                                | S                          | 220          | 205      | N.P.                                 |         |              |          |                                      |         |   |                                | 66   |
|                      |                                | P                          | 440          | 422      | 1624                                 | 3.2     | 5837         | 5837     | 1806                                 | 1.0     | -10.08  |                                | 65   |
|                      | Odisha (Wint) @                | C                          | 270          | 260      | 2198                                 | 2.9     |              |          |                                      |         |   |                                | 47   |
|                      |                                | S                          | 270          | 254      | N.P.                                 |         |              |          |                                      |         |   |                                | 46   |
|                      |                                | P                          | 540          | 514      | 2261                                 | 2.1     | 28003        | 28003    | 2499                                 | 0.3     | -9.52   |                                | 47   |
| 15                   | Punjab @                       | C                          | 190          | 187      | 4181                                 | 1.8     |              |          |                                      |         |   |                                | 24   |
|                      |                                | S                          | 190          | 122      | N.P.                                 |         |              |          |                                      |         |   |                                | 25   |
|                      |                                | P                          | 380          | 309      | 4086                                 | 1.4     | 1982         | 1976     | 6036                                 | NR      | -32.31  |                                | 25   |
| 16                   | Tamil Nadu (Phase-I)           | C                          | 40           | 40       | 4199                                 | 3.8     |              |          |                                      |         |   |                                | 24   |
|                      |                                | S                          | 40           | 38       | 4373                                 | 4.6     |              |          |                                      |         |   |                                | 28   |
|                      |                                | P                          | 80           | 78       | 4267                                 | 3.0     | 428          | 428      | 4104                                 | 1.3     | 3.96  |                                | 26   |
|                      | Tamil Nadu (Phase-II)          | C                          | 80           | 58       | 4004                                 | 3.2     |              |          |                                      |         |   |                                | 24   |
|                      |                                | S                          | 80           | 48       | 0                                    | 0.0     |              |          |                                      |         |   |                                | 0    |
|                      |                                | P                          | 160          | 106      | 4004                                 | 3.2     | 1260         | 1260     | 3641                                 | 0.8     | 9.98  |                                | 33   |
| 17                   | Telangana                      | C                          | 70           | 65       | 3608                                 | 5.3     |              |          |                                      |         |   |                                | 42   |
|                      |                                | S                          | 70           | 69       | 3722                                 | 4.5     |              |          |                                      |         |   |                                | 37   |
|                      |                                | P                          | 140          | 134      | 3672                                 | 3.4     | 1894         | 1894     | 2814                                 | 0.8     | 30.49   |                                | 39   |

| Sl. No.               | State                | A<br>G<br>E<br>N<br>C<br>Y | ICS          |          |                                      |         | C.E.S.       |          |                                      |         | % Diff. (Col.6- Col.10/ Col.10 x 100) | Coeffi-<br>cient<br>of<br>Varia-<br>tion |
|-----------------------|----------------------|----------------------------|--------------|----------|--------------------------------------|---------|--------------|----------|--------------------------------------|---------|---------------------------------------|--|
|                       |                      |                            | No.of Expts. |          | Estimated<br>Yield<br>Rate<br>Kg/Hac | %<br>SE | No.of Expts. |          | Estimated<br>Yield<br>Rate<br>Kg/Hac | %<br>SE |                                       |  |
|                       |                      |                            | Planned      | Analysed |                                      |         | Planned      | Analysed |                                      |         |                                       |  |
| 1                     | 2                    | 3                          | 4            | 5        | 6                                    | 7       | 8            | 9        | 10                                   | 11      | 12                                    | 13                                       |
| 18                    | Uttar Pradesh        | C                          | 660          | 658      | 2808                                 | 1.4     |              |          |                                      |         |                                       | 35                                       |
|                       | * @                  | S                          | 660          | 122      | N.P.                                 |         |              |          |                                      |         |                                       | N.C.                                     |
|                       |                      | P                          | 1320         | 780      | 2808                                 | 1.4     | 189064       | 188448   | 2873                                 | NR      | -2.26                                 | 38                                       |
| 19                    | Uttarakhand          | C                          | 50           | 47       | 2916                                 | 7.8     |              |          |                                      |         |                                       | 53                                       |
|                       | * @                  | S                          | 50           | 50       | N.P.                                 |         |              |          |                                      |         |                                       | N.C.                                     |
|                       |                      | P                          | 100          | 97       | 2581                                 | 4.6     | 2674         | 2672     | 2339                                 | 0.9     | 10.35                                 | 45                                       |
| 20                    | West Bengal          | C                          | 100          | 97       | 2656                                 | 3.7     |              |          |                                      |         |                                       | 36                                       |
|                       | E. Kharif * @        | S                          | 100          | 4        | N.P.                                 |         |              |          |                                      |         |                                       | 0  |
|                       |                      | P                          | 200          | 101      | 0                                    | 0.0     | 2281         | 2011     | 2590                                 | 1.2     | -100.00                               | 0  |
|                       | L. Kharif * @        | C                          | 160          | 160      | 2866                                 | 2.5     |              |          |                                      |         |                                       | 32                                       |
|                       |                      | S                          | 160          | 14       | N.P.                                 |         |              |          |                                      |         |                                       | 0  |
|                       |                      | P                          | 320          | 174      | 0                                    | 0.0     | 13308        | 12739    | 2774                                 | 0.5     | -100.00                               | 0  |
| 21                    | Puducherry (Kh.)     | C                          | 10           | 10       | 2029                                 | 9.7     |              |          |                                      |         |                                       | 31                                       |
|                       |                      | S                          | 10           | 10       | 2112                                 | 5.4     |              |          |                                      |         |                                       | 17                                       |
|                       |                      | P                          | 20           | 20       | 2091                                 | 4.8     | 88           | 88       | 3280                                 | 2.3     | -36.25                                | 21                                       |
| For states covered    |                      |                            | 7032         | 5256     | 2294                                 | 1.0     | 366059       | 351265   | 2961                                 | 0.2     | -22.53                                | 75                                       |
| <b>RICE (SUMMER)</b>  |                      |                            |              |          |                                      |         |              |          |                                      |         |                                       |  |
| 1                     | Andhra Pradesh       | C                          | 120          | 26       | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                       |                      | S                          | 120          | 90       | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                       |                      | P                          | 240          | 116      | 4009                                 | 4.4     | 2994         | 2960     | 7122                                 | 0.5     | -43.71                                | 47                                       |
| 2                     | Assam                | C                          | 40           | 18       | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                       | *                    | S                          | 40           | 30       | N.P.                                 |         |              |          |                                      |         |                                       | N.C.                                     |
|                       |                      | P                          | 80           | 48       | 2904                                 | 4.9     | 2000         | 1066     | 2593                                 | 1.4     | 11.99                                 | 34                                       |
| 3                     | Bihar                | C                          | 40           | 18       | N.P.                                 |         |              |          |                                      |         |                                       | 0  |
|                       | **                   | S                          | 40           | 24       | N.P.                                 |         |              |          |                                      |         |                                       | N.C.                                     |
|                       |                      | P                          | 80           | 42       | 2226                                 | 3.9     | 440          | 389      | 2133                                 | NR      | 4.36                                  | 25                                       |
| 4                     | Karnataka            | C                          | 40           | 7        | N.P.                                 |         |              |          |                                      |         |                                       | 0  |
|                       | **                   | S                          | 40           | 32       | N.P.                                 |         |              |          |                                      |         |                                       | 0  |
|                       |                      | P                          | 80           | 39       | 3715                                 | 8.2     | 3540         | 2747     | 4919                                 | 4.3     | -24.48                                | 51                                       |
| 5                     | Kerala               | C                          | 100          | 31       | 2259                                 | 23.5    |              |          |                                      |         |                                       | 131                                      |
|                       |                      | S                          | 100          | 29       | 3242                                 | 10.4    |              |          |                                      |         |                                       | 56                                       |
|                       |                      | P                          | 200          | 60       | 2958                                 | 9.7     | 1608         | 799      | 3548                                 | 2.3     | -16.63                                | 75                                       |
| 6                     | Odisha               | C                          | 140          | 50       | N.P.                                 |         |              |          |                                      |         |                                       | 0  |
|                       | **                   | S                          | 140          | 134      | N.P.                                 |         |              |          |                                      |         |                                       | 0  |
|                       |                      | P                          | 280          | 184      | 3425                                 | 3.4     | 6188         | 6188     | 3188                                 | 0.7     | 7.43                                  | 46                                       |
| 7                     | Tamil Nadu           | C                          | 40           | 17       | 4488                                 | 6.9     |              |          |                                      |         |                                       | 29                                       |
|                       |                      | S                          | 40           | 21       | 2108                                 | 18.6    |              |          |                                      |         |                                       | 85                                       |
|                       |                      | P                          | 80           | 38       | 3568                                 | 6.8     | 300          | 300      | 4303                                 | 0.9     | -17.09                                | 42                                       |
| 8                     | Telangana            | C                          | 80           | 6        | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                       |                      | S                          | 80           | 75       | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                       |                      | P                          | 160          | 81       | 3761                                 | 4.4     | 2180         | 2180     | 3723                                 | 0.5     | 1.02                                  | 40                                       |
| 9                     | West Bengal          | C                          | 140          | 10       | 3169                                 | 2.3     |              |          |                                      |         |                                       | 7  |
|                       | *                    | S                          | 140          | 0        | N.P.                                 |         |              |          |                                      |         |                                       | 0  |
|                       |                      | P                          | 280          | 10       | 0                                    | 0.0     | 11674        | 10891    | 3379                                 | 0.7     | -100.00                               | 0  |
| 10                    | Puducherry (Rabi-I)  | C                          | 10           | 10       | 3118                                 | 11.3    |              |          |                                      |         |                                       | 36                                       |
|                       |                      | S                          | 10           | 10       | 2544                                 | 13.9    |              |          |                                      |         |                                       | N.C.                                     |
|                       |                      | P                          | 20           | 20       | 2833                                 | 8.8     | 140          | 140      | 2732                                 | 3.2     | 3.70                                  | 39                                       |
|                       | Puducherry (Rabi-II) | C                          | 10           | 10       | 3356                                 | 8.6     |              |          |                                      |         |                                       | 27                                       |
|                       | *                    | S                          | 10           | 10       | 3150                                 | 4.4     |              |          |                                      |         |                                       | 14                                       |
|                       |                      | P                          | 20           | 20       | 3189                                 | 3.4     | 70           | 70       | 3328                                 | 2.3     | -4.18                                 | 15                                       |
| For states covered    |                      |                            | 1520         | 658      | 2520                                 | 2.2     | 31134        | 27730    | 4103                                 | 0.4     | -38.59                                | 57                                       |
| <b>JOWAR (KHARIF)</b> |                      |                            |              |          |                                      |         |              |          |                                      |         |                                       |  |
| 1                     | Karnataka            | C                          | 50           | 14       | N.P.                                 |         |              |          |                                      |         |                                       | 0  |
|                       | **                   | S                          | 50           | 37       | N.P.                                 |         |              |          |                                      |         |                                       | 0  |
|                       |                      | P                          | 100          | 51       | 1224                                 | 22.5    | 3584         | 2442     | 1662                                 | 4.1     | -26.35                                | 161                                      |
| 2                     | Madhya Pradesh*      | C                          | 100          | 92       | 1156                                 | 10.4    |              |          |                                      |         |                                       | 100                                      |
|                       |                      | S                          | 100          | 70       | N.P.                                 |         |              |          |                                      |         |                                       | 80                                       |
|                       |                      | P                          | 200          | 162      | 984                                  | 7.1     | 1746         | 1378     | 1491                                 | 2.2     | -34.00                                | 90                                       |
| 3                     | Maharashtra          | C                          | 80           | 38       | 722                                  | 18.5    |              |          |                                      |         |                                       | 114                                      |
|                       | * @                  | S                          | 80           | 54       | N.P.                                 |         |              |          |                                      |         |                                       | N.C.                                     |
|                       |                      | P                          | 160          | 92       | 736                                  | 15.3    | 5604         | 3212     | 717                                  | 0.0     | 2.66                                  | 147                                      |
| 4                     | Rajasthan            | C                          | 60           | 55       | 660                                  | 11.8    |              |          |                                      |         |                                       | 88                                       |
|                       |                      | S                          | 60           | 42       | 403                                  | 11.3    |              |          |                                      |         |                                       | 73                                       |
|                       |                      | P                          | 120          | 97       | 467                                  | 8.4     | 10564        | 9826     | 709                                  | 0.0     | -34.18                                | 83                                       |
| 5                     | Tamil Nadu #         | C                          | 40           | 40       | 1150                                 | 10.9    |              |          |                                      |         |                                       | 69                                       |
|                       |                      | S                          | 40           | 29       | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                       |                      | P                          | 80           | 69       | 1150                                 | 10.9    | 440          | 440      | 1193                                 | 2.9     | -3.62                                 | 91                                       |
| 6                     | Telangana            | C                          | 40           | 38       | 1004                                 | 20.1    |              |          |                                      |         |                                       | 124                                      |
|                       |                      | S                          | 40           | 36       | 1185                                 | 11.4    |              |          |                                      |         |                                       | 68                                       |
|                       |                      | P                          | 80           | 74       | 1129                                 | 10.0    | 514          | 512      | 1184                                 | 3.5     | 0.00                                  | 86                                       |
| 7                     | Uttar Pradesh @      | C                          | 40           | 40       | 1984                                 | 16.2    |              |          |                                      |         |                                       | 102                                      |
|                       | *                    | S                          | 40           | 12       | N.P.                                 |         |              |          |                                      |         |                                       | N.C.                                     |
|                       |                      | P                          | 80           | 52       | 1984                                 | 16.2    | 6656         | 5697     | 1349                                 | NR      | 47.07                                 | 117                                      |
| For states covered    |                      |                            | 820          | 597      | 885                                  | 5.7     | 29108        | 23507    | 984                                  | 0.7     | -10.07                                | 140                                      |

| Sl. No.            | State            | A<br>G<br>E<br>N<br>C<br>Y | ICS          |          |                             |      | C.E.S.       |          |                             |      | % Diff. Col.10/ Col.10 x 100) | Coeffi- cient of Varia- tion |
|--------------------|------------------|----------------------------|--------------|----------|-----------------------------|------|--------------|----------|-----------------------------|------|-------------------------------|------------------------------|
|                    |                  |                            | No.of Expts. |          | Estimated Yield Rate Kg/Hac | % SE | No.of Expts. |          | Estimated Yield Rate Kg/Hac | % SE |                               |                              |
|                    |                  |                            | Planned      | Analysed |                             |      | Planned      | Analysed |                             |      |                               |                              |
| 1                  | 2                | 3                          | 4            | 5        | 6                           | 7    | 8            | 9        | 10                          | 11   | 12                            | 13                           |
| <b>JOWAR(RABI)</b> |                  |                            |              |          |                             |      |              |          |                             |      |                               |                              |
| 1                  | Karnataka *      | C                          | 70           | 54       | 0                           | 0.0  |              |          |                             |      |                               | 0                            |
|                    |                  | S                          | 70           | 55       | N.P.                        |      |              |          |                             |      |                               | 0                            |
|                    |                  | P                          | 140          | 109      | 1315                        | 11.8 | 10286        | 8954     | 1106                        | 1.9  | 18.90                         | 123                          |
| 2                  | Maharashtra @    | C                          | 150          | 62       | 695                         | 26.1 |              |          |                             |      |                               | 206                          |
|                    |                  | S                          | 150          | 86       | N.P.                        |      |              |          |                             |      |                               | N.C.                         |
|                    |                  | P                          | 300          | 148      | 622                         | 15.8 | 21802        | 17878    | 785                         | 0.0  | -20.80                        | 192                          |
| 3                  | Tamil Nadu       | C                          | 40           | 36       | 1035                        | 13.3 |              |          |                             |      |                               | 80                           |
|                    |                  | S                          | 40           | 24       | 899                         | 8.9  |              |          |                             |      |                               | N.C.                         |
|                    |                  | P                          | 80           | 60       | 933                         | 7.4  | 640          | 640      | 1115                        | 3.3  | -16.31                        | 58                           |
| 4                  | Telangana @      | C                          | 40           | 20       | 958                         | 19.1 |              |          |                             |      |                               | 85                           |
|                    |                  | S                          | 40           | 34       | N.P.                        |      |              |          |                             |      |                               | 117                          |
|                    |                  | P                          | 80           | 54       | 1129                        | 14.5 | 354          | 354      | 2127                        | 3.8  | 0.00                          | 107                          |
| For states covered |                  |                            | 600          | 371      | 881                         | 9.4  | 33082        | 27826    | 896                         | 0.6  | -1.67                         | 180                          |
| <b>BAJRA</b>       |                  |                            |              |          |                             |      |              |          |                             |      |                               |                              |
| 1                  | Andhra Pradesh   | C                          | 40           | 34       | 2404                        | 16.3 |              |          |                             |      |                               | 95                           |
|                    |                  | S                          | 40           | 36       | 1380                        | 11.3 |              |          |                             |      |                               | 68                           |
|                    |                  | P                          | 80           | 70       | 1519                        | 9.5  | 498          | 404      | 2297                        | 2.5  | -33.87                        | 80                           |
| 2                  | Gujarat @        | C                          | 110          | 91       | 1793                        | 13.8 |              |          |                             |      |                               | 132                          |
|                    |                  | S                          | 110          | 63       | N.P.                        |      |              |          |                             |      |                               | N.C.                         |
|                    |                  | P                          | 220          | 154      | 2229                        | 7.5  | 2232         | 2002     | 1738                        | 0.0  | 28.25                         | 93                           |
| 3                  | Haryana * @      | C                          | 104          | 102      | 2776                        | 21.1 |              |          |                             |      |                               | 213                          |
|                    |                  | S                          | 104          | 31       | N.P.                        |      |              |          |                             |      |                               | 0                            |
|                    |                  | P                          | 208          | 133      | 0                           | 0.0  | 1532         | 1438     | 1762                        | 1.0  | -100.00                       | 0                            |
| 4                  | Karnataka **     | C                          | 50           | 21       | N.P.                        |      |              |          |                             |      |                               | 0                            |
|                    |                  | S                          | 50           | 42       | N.P.                        |      |              |          |                             |      |                               | 0                            |
|                    |                  | P                          | 100          | 63       | 1101                        | 13.4 | 3896         | 2985     | 1153                        | 2.8  | -4.51                         | 106                          |
| 5                  | Maharashtra *    | C                          | 60           | 14       | 2034                        | 5.7  |              |          |                             |      |                               | 0                            |
|                    |                  | S                          | 60           | 30       | N.P.                        |      |              |          |                             |      |                               | N.C.                         |
|                    |                  | P                          | 120          | 44       | 2023                        | 4.3  | 5534         | 4359     | 762                         | NR   | 52.84                         | 137                          |
| 6                  | Rajasthan        | C                          | 60           | 57       | 1518                        | 8.9  |              |          |                             |      |                               | 67                           |
|                    |                  | S                          | 60           | 44       | 1152                        | 15.0 |              |          |                             |      |                               | 99                           |
|                    |                  | P                          | 120          | 101      | 1379                        | 7.7  | 25736        | 25515    | 1189                        | 0.0  | 15.99                         | 77                           |
| 7                  | Tamil Nadu #     | C                          | 40           | 40       | 3866                        | 4.2  |              |          |                             |      |                               | 26                           |
|                    |                  | S                          | 40           | 29       | 2035                        | 11.2 |              |          |                             |      |                               | 60                           |
|                    |                  | P                          | 80           | 69       | 3255                        | 4.0  | 444          | 424      | 2743                        | 4.2  | 18.69                         | 33                           |
| 8                  | Uttar Pradesh @  | C                          | 150          | 150      | 2273                        | 4.3  |              |          |                             |      |                               | 53                           |
|                    |                  | S                          | 150          | 22       | N.P.                        |      |              |          |                             |      |                               | N.C.                         |
|                    |                  | P                          | 300          | 172      | 2273                        | 4.3  | 33800        | 33006    | 2115                        | NR   | 7.47                          | 57                           |
| For states covered |                  |                            | 1228         | 806      | 1146                        | 5.9  | 73672        | 70133    | 1334                        | 0.2  | -14.08                        | 168                          |
| <b>MAIZE</b>       |                  |                            |              |          |                             |      |              |          |                             |      |                               |                              |
| 2                  | Bihar **         | C                          | 40           | 17       | N.P.                        |      |              |          |                             |      |                               | 38                           |
|                    |                  | S                          | 40           | 14       | N.P.                        |      |              |          |                             |      |                               | N.C.                         |
|                    |                  | P                          | 80           | 31       | 0                           | 0.0  | 41245        | 13060    | 2078                        | NR   | -100.00                       | 0                            |
| 3                  | Chhattisgarh     | C                          | 40           | 40       | 3745                        | 5.6  |              |          |                             |      |                               | 36                           |
|                    |                  | S                          | 40           | 30       | 4165                        | 13.8 |              |          |                             |      |                               | 76                           |
|                    |                  | P                          | 80           | 70       | 3795                        | 5.2  | 556          | 464      | 3119                        | 1.7  | 21.67                         | 44                           |
| 4                  | Gujarat * @      | C                          | 40           | 26       | 1527                        | 9.7  |              |          |                             |      |                               | 49                           |
|                    |                  | S                          | 40           | 28       | N.P.                        |      |              |          |                             |      |                               | N.C.                         |
|                    |                  | P                          | 80           | 54       | 1526                        | 9.0  | 2040         | 1876     | 1497                        | 0.0  | 1.92                          | 66                           |
| 5                  | Haryana * @      | C                          | 20           | 16       | 2776                        | 21   |              |          |                             |      |                               | 84                           |
|                    |                  | S                          | 20           | 8        | N.P.                        |      |              |          |                             |      |                               | 0                            |
|                    |                  | P                          | 40           | 24       | 0                           | 0    | 144          | 88       | 3000                        | 12.6 | -100.00                       | 0                            |
| 6                  | Himachal Pradesh | C                          | 90           | 75       | 2785                        | 7.3  |              |          |                             |      |                               | 63                           |
|                    |                  | S                          | 90           | 70       | 2450                        | 9.6  |              |          |                             |      |                               | 80                           |
|                    |                  | P                          | 180          | 145      | 2643                        | 5.8  | 2628         | 2254     | 2821                        | 1.3  | -6.31                         | 70                           |
| 7                  | Jammu & Kashmir  | C                          | 90           | 66       | 2034                        | 5.7  |              |          |                             |      |                               | 35                           |
|                    |                  | S                          | 90           | 12       | 0                           | 0.0  |              |          |                             |      |                               | 57                           |
|                    |                  | P                          | 180          | 78       | 2023                        | 4.3  | 1380         | 1012     | 1943                        | 5.0  | 4.12                          | 38                           |
| 8                  | Jharkhand * @    | C                          | 20           | 20       | 2460                        | 16.5 |              |          |                             |      |                               | 74                           |
|                    |                  | S                          | 20           | 12       | N.P.                        |      |              |          |                             |      |                               | 80                           |
|                    |                  | P                          | 40           | 32       | 2295                        | 13.5 | 7830         | 6102     | 25172                       | 0.0  | -90.88                        | 76                           |
| 9                  | Karnatka         | C                          | 50           | 22       | 0                           | 0.0  |              |          |                             |      |                               | 0                            |
|                    |                  | S                          | 50           | 44       | 0                           | 0.0  |              |          |                             |      |                               | 0                            |
|                    |                  | P                          | 100          | 66       | 2982                        | 8.8  | 12732        | 11440    | 4505                        | 1.2  | -33.81                        | 71                           |
| 10                 | Madhya Pradesh   | C                          | 80           | 80       | 2127                        | 9.3  |              |          |                             |      |                               | 83                           |
|                    |                  | S                          | 80           | 66       | 1828                        | 9.9  |              |          |                             |      |                               | 80                           |
|                    |                  | P                          | 160          | 146      | 1964                        | 6.8  | 1928         | 1768     | 2308                        | 1.7  | -14.90                        | 82                           |
| 11                 | Odisha           | C                          | 40           | 40       | 2646                        | 4.1  |              |          |                             |      |                               | 26                           |
|                    |                  | S                          | 40           | 40       | 2438                        | 8.9  |              |          |                             |      |                               | 56                           |
|                    |                  | P                          | 80           | 80       | 2605                        | 3.7  | 2933         | 2933     | 2878                        | 2.0  | -9.49                         | 33                           |
| 12                 | Punjab           | C                          | 48           | 34       | 4135                        | 11.3 |              |          |                             |      |                               | 66                           |
|                    |                  | S                          | 48           | 32       | 0                           | 0.0  |              |          |                             |      |                               | 0                            |
|                    |                  | P                          | 96           | 66       | 0                           | 0.0  | 362          | 361      | 3582                        | NR   | -100.00                       | 0                            |
| 13                 | Rajasthan        | C                          | 50           | 47       | 1784                        | 16.3 |              |          |                             |      |                               | 112                          |
|                    |                  | S                          | 50           | 40       | 1349                        | 26.1 |              |          |                             |      |                               | 165                          |
|                    |                  | P                          | 100          | 87       | 1607                        | 14.0 | 11172        | 11100    | 1297                        | 0.0  | 23.86                         | 131                          |

| Sl. No.            | State               | A<br>G<br>E<br>N<br>C<br>Y | I.C.S.        |          |                             |      | C.E.S.        |          |                             |      | % Diff. (Col.6- Col.10/ Col.10 x 100) | Coefficient of Variation |
|--------------------|---------------------|----------------------------|---------------|----------|-----------------------------|------|---------------|----------|-----------------------------|------|---------------------------------------|--------------------------|
|                    |                     |                            | No. of Expts. |          | Estimated Yield Rate Kg/Hac | % SE | No. of Expts. |          | Estimated Yield Rate Kg/Hac | % SE |                                       |                          |
|                    |                     |                            | Planned       | Analysed |                             |      | Planned       | Analysed |                             |      |                                       |                          |
| 1                  | 2                   | 3                          | 4             | 5        | 6                           | 7    | 8             | 9        | 10                          | 11   | 12                                    | 13                       |
| 14                 | Tamil Nadu          | C                          | 40            | 40       | 8811                        | 4.1  |               |          |                             |      |                                       | 26                       |
|                    |                     | S                          | 40            | 34       | 0                           | 0.0  |               |          |                             |      |                                       | 0                        |
|                    |                     | P                          | 80            | 74       | 8811                        | 4.1  | 432           | 432      | 7839                        | 1.6  | 12.40                                 | 35                       |
| 15                 | Telangana           | C                          | 50            | 50       | 4617                        | 9.0  |               |          |                             |      |                                       | 63                       |
|                    |                     | S                          | 50            | 48       | 4482                        | 7.8  |               |          |                             |      |                                       | 54                       |
|                    |                     | P                          | 100           | 98       | 4539                        | 5.9  | 2054          | 2054     | 4845                        | 1.4  | 0.00                                  | 58                       |
| 16                 | Uttar Pradesh       | C                          | 170           | 160      | 2570                        | 6.1  |               |          |                             |      |                                       | 77                       |
|                    |                     | S                          | 170           | 42       | N.P.                        |      |               |          |                             |      |                                       | N.C.                     |
|                    |                     | P                          | 340           | 202      | 2570                        | 6.1  | 28348         | 27546    | 2467                        | NR   | 4.18                                  | 86                       |
| For states covered |                     |                            | 1736          | 1253     | 2488                        | 3.0  | 115784        | 82490    | 3565                        | 0.4  | -30.21                                | 107                      |
| <b>RAGI</b>        |                     |                            |               |          |                             |      |               |          |                             |      |                                       |                          |
| 1                  | Karnataka           | C                          | 40            | 24       | 0                           | 0.0  |               |          |                             |      |                                       | 0                        |
|                    |                     | S                          | 40            | 34       | 0                           | 0.0  |               |          |                             |      |                                       | 0                        |
|                    |                     | P                          | 80            | 58       | 1315                        | 8.4  | 1452          | 965      | 1457                        | 4.9  | -9.75                                 | 64                       |
| 3                  | Uttarakhand         | C                          | 40            | 39       | 1385                        | 5.8  |               |          |                             |      |                                       | 36                       |
|                    |                     | S                          | 40            | 40       | N.P.                        |      |               |          |                             |      |                                       | N.C.                     |
|                    |                     | P                          | 80            | 79       | 1404                        | 4.9  | 1114          | 1114     | 1488                        | 1.2  | -5.65                                 | 43                       |
| For states covered |                     |                            | 160           | 137      | 1325                        | 7.4  | 2566          | 2079     | 1480                        | 1.6  | -10.43                                | 87                       |
| <b>COTTON</b>      |                     |                            |               |          |                             |      |               |          |                             |      |                                       |                          |
| 1                  | Andhra Pradesh      | C                          | 40            | 39       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | S                          | 40            | 38       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | P                          | 80            | 77       | 548                         | 13.3 | 952           | 924      | 1880                        | 2.0  | -70.85                                | 117                      |
| 2                  | Gujarat             | C                          | 220           | 151      |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | S                          | 220           | 62       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | P                          | 440           | 213      | 529                         | 7.5  | 29328         | 27077    | 1598                        | 0.9  | 0.00                                  | 109                      |
| 3                  | Haryana             | C                          | 56            | 54       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | S                          | 56            | 28       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | P                          | 112           | 82       | 280                         | 4.8  | 940           | 908      | 275                         | 0.0  | 1.82                                  | 43                       |
| 4                  | Karnataka           | C                          | 56            | 37       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | S                          | 56            | 39       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | P                          | 112           | 76       | 225                         | 26.1 | 3620          | 3099     | 518                         | 2.9  | -56.56                                | 228                      |
| 5                  | Madhya Pradesh      | C                          | 48            | 44       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | S                          | 48            | 20       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | P                          | 96            | 64       | 879                         | 10.4 | 962           | 819      | 1227                        | 2.1  | -28.36                                | 83                       |
| 6                  | Maharashtra         | C                          | 140           | 129      |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | S                          | 140           | 80       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | P                          | 280           | 209      | 458                         | 5.5  | 13620         | 12992    | 248                         | 0.0  | 84.98                                 | 80                       |
| 7                  | Punjab              | C                          | 72            | 72       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | S                          | 72            | 47       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | P                          | 144           | 119      | 767                         | 2.8  | 668           | 664      | 842                         | NR   | -8.91                                 | 31                       |
| 8                  | Rajasthan           | C                          | 40            | 40       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | S                          | 40            | 26       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | P                          | 80            | 66       | 581                         | 6.6  | 7264          | 6957     | 1869                        | 0.0  | -68.92                                | 54                       |
| 9                  | Tamil Nadu (Kharif) | C                          | 40            | 40       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | S                          | 40            | 28       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | P                          | 80            | 68       | 434                         | 8.7  | 564           | 564      | 414                         | 1.4  | 4.90                                  | 72                       |
| 9                  | Tamil Nadu (Rabi)   | C                          | 40            | 35       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | S                          | 40            | 30       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | P                          | 80            | 65       | 476                         | 8.5  | 256           | 256      | 427                         | 2.6  | 0.00                                  | 69                       |
| 10                 | Telangana           | C                          | 40            | 40       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | S                          | 40            | 36       |                             |      |               |          |                             |      |                                       |                          |
|                    |                     | P                          | 80            | 76       | 689                         | 7.2  | 1420          | 1420     | 1769                        | 1.1  | -61.05                                | 63                       |
| For states covered |                     |                            | 1584          | 1115     | 523                         | 3.0  | 59594         | 55680    | 1021                        | 0.5  | -48.81                                | 101                      |
| <b>GROUNDNUT</b>   |                     |                            |               |          |                             |      |               |          |                             |      |                                       |                          |
| 1                  | Andhra Pradesh      | C                          | 110           | 104      | 1143                        | 7.2  |               |          |                             |      |                                       | 74                       |
|                    |                     | S                          | 110           | 106      | 1190                        | 7.7  |               |          |                             |      |                                       | 79                       |
|                    |                     | P                          | 220           | 210      | 1164                        | 5.3  | 2604          | 2492     | 1096                        | 2.5  | 6.20                                  | 76                       |
| 2                  | Gujarat * @         | C                          | 150           | 126      | 2955                        | 5.9  |               |          |                             |      |                                       | 66                       |
|                    |                     | S                          | 150           | 58       | N.P.                        |      |               |          |                             |      |                                       | 0                        |
|                    |                     | P                          | 300           | 184      | 2844                        | 5.3  | 3498          | 3352     | 2764                        | 0.0  | 2.89                                  | 72                       |
| 3                  | Karnataka **        | C                          | 70            | 34       | N.P.                        |      |               |          |                             |      |                                       | 0                        |
|                    |                     | S                          | 70            | 63       | N.P.                        |      |               |          |                             |      |                                       | 0                        |
|                    |                     | P                          | 140           | 97       | 933                         | 8.1  | 8308          | 6471     | 863                         | 2.4  | 8.11                                  | 80                       |
| 4                  | Madhya Pradesh      | C                          | 40            | 40       | 1059                        | 11.9 |               |          |                             |      |                                       | 75                       |
|                    |                     | S                          | 40            | 26       | 1335                        | 18.6 |               |          |                             |      |                                       | 95                       |
|                    |                     | P                          | 80            | 66       | 1115                        | 10.1 | 954           | 792      | 1141                        | 3.2  | -2.28                                 | 82                       |
| 5                  | Maharashtra *       | C                          | 60            | 17       | 803                         | 45.6 |               |          |                             |      |                                       | 188                      |
|                    |                     | S                          | 60            | 20       | N.P.                        |      |               |          |                             |      |                                       | N.C.                     |
|                    |                     | P                          | 120           | 37       | 717                         | 19.1 | 4276          | 2711     | 877                         | 0.0  | -18.24                                | 116                      |
| 6                  | Rajasthan           | C                          | 40            | 32       | 2333                        | 7.0  |               |          |                             |      |                                       | 40                       |
|                    |                     | S                          | 40            | 20       | 0                           | 0.0  |               |          |                             |      |                                       | 0                        |
|                    |                     | P                          | 80            | 52       | 0                           | 0.0  | 7620          | 5783     | 2195                        | 0.0  | -100.00                               | 0                        |
| 7                  | Tamil Nadu (Kharif) | C                          | 40            | 36       | 3087                        | 4.2  |               |          |                             |      |                                       | 25                       |
|                    |                     | S                          | 40            | 31       | 0                           | 0.0  |               |          |                             |      |                                       | 0                        |
|                    |                     | P                          | 80            | 67       | 3087                        | 4.2  | 700           | 700      | 2479                        | 1.8  | 24.55                                 | 35                       |

| Sl. No.            | State             | A<br>G<br>E<br>N<br>C<br>Y | ICS          |          |                             |      | C.E.S.       |          |                             |      | % Diff. (Col.6- Col.10/ Col.10 x 100) | Coefficient of Variation |
|--------------------|-------------------|----------------------------|--------------|----------|-----------------------------|------|--------------|----------|-----------------------------|------|---------------------------------------|--------------------------|
|                    |                   |                            | No.of Expts. |          | Estimated Yield Rate Kg/Hac | % SE | No.of Expts. |          | Estimated Yield Rate Kg/Hac | % SE |                                       |                          |
|                    |                   |                            | Planned      | Analysed |                             |      | Planned      | Analysed |                             |      |                                       |                          |
| 1                  | 2                 | 3                          | 4            | 5        | 6                           | 7    | 8            | 9        | 10                          | 11   | 12                                    | 13                       |
|                    | Tamil Nadu (Rabi) | C                          | 40           | 18       | 2981                        | 16.6 |              |          |                             |      |                                       | 70                       |
|                    |                   | S                          | 40           | 32       | 2650                        | 16.2 |              |          |                             |      |                                       | 92                       |
|                    |                   | P                          | 80           | 50       | 2792                        | 11.6 | 460          | 460      | 3742                        | 1.5  | -25.39                                | 82                       |
| 8                  | Telangana         | C                          | 40           | 40       | 3667                        | 14.8 |              |          |                             |      |                                       | 94                       |
|                    |                   | S                          | 40           | 40       | N.P.                        |      |              |          |                             |      |                                       | 61                       |
|                    |                   | P                          | 80           | 80       | 2575                        | 8.2  | 198          | 198      | 2743                        | 3.5  | 0.00                                  | 73                       |
| For states covered |                   |                            | 1180         | 843      | 1728                        | 3.6  | 28618        | 22959    | 2083                        | 0.3  | -17.05                                | 105                      |
| <b>SUGARCANE</b>   |                   |                            |              |          |                             |      |              |          |                             |      |                                       |                          |
| 1                  | Andhra Pradesh    | C                          | 60           | 57       | 81242                       | 4.5  |              |          |                             |      |                                       | 34                       |
|                    |                   | S                          | 60           | 48       | 72683                       | 7.6  |              |          |                             |      |                                       | 53                       |
|                    |                   | P                          | 120          | 105      | 78682                       | 3.9  | 1602         | 1578     | 79335                       | 0.5  | -0.82                                 | 39                       |
| 2                  | Assam * @         | C                          | 40           | 4        | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 40           | 16       | N.P.                        |      |              |          |                             |      |                                       | N.C.                     |
|                    |                   | P                          | 80           | 20       | 33154                       | 14.7 | 700          | 336      | 41010                       | 0.2  | -19.16                                | 66                       |
| 3                  | Bihar * @         | C                          | 40           | 33       | 69068                       | 12.6 |              |          |                             |      |                                       | 72                       |
|                    |                   | S                          | 40           | 19       | N.P.                        |      |              |          |                             |      |                                       | N.C.                     |
|                    |                   | P                          | 80           | 52       | 57721                       | 8.7  | 772          | 724      | 60649                       | NR   | -4.83                                 | 63                       |
| 4                  | Haryana * @       | C                          | 50           | 34       | 77936                       | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 50           | 20       | N.P.                        |      |              |          |                             |      |                                       | 0                        |
|                    |                   | P                          | 100          | 54       | 0                           | 0.0  | 1070         | 850      | 75183                       | 0.0  | -100.00                               | 0                        |
| 5                  | Karnataka **      | C                          | 40           | 19       | N.P.                        |      |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 40           | 31       | N.P.                        |      |              |          |                             |      |                                       | 0                        |
|                    |                   | P                          | 80           | 50       | 99931                       | 10.5 | 1130         | 1020     | 98195                       | 5.0  | 1.77                                  | 74                       |
| 6                  | Maharashtra * @   | C                          | 68           | 19       | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 68           | 27       | N.P.                        |      |              |          |                             |      |                                       | N.C.                     |
|                    |                   | P                          | 136          | 46       | 88623                       | 11.7 | 4840         | 2406     | 84600                       | 0.0  | 4.76                                  | 79                       |
| 7                  | Punjab * @        | C                          | 70           | 52       | 80259                       | 4.7  |              |          |                             |      |                                       | 34                       |
|                    |                   | S                          | 70           | 32       | N.P.                        |      |              |          |                             |      |                                       | 15                       |
|                    |                   | P                          | 140          | 84       | 81714                       | 2.3  | 698          | 683      | 80246                       | NR   | 1.83                                  | 21                       |
| 8                  | Rajasthan         | C                          | 40           | 25       | 66978                       | 20.7 |              |          |                             |      |                                       | 104                      |
|                    |                   | S                          | 40           | 25       | 71964                       | 10.8 |              |          |                             |      |                                       | 54                       |
|                    |                   | P                          | 80           | 50       | 70769                       | 9.6  | 450          | 388      | 73054                       | 0.0  | -3.13                                 | 68                       |
| 9                  | Tamil Nadu        | C                          | 40           | 28       | 114038                      | 5.6  |              |          |                             |      |                                       | 29                       |
|                    |                   | S                          | 40           | 30       | 120872                      | 19.4 |              |          |                             |      |                                       | 106                      |
|                    |                   | P                          | 80           | 58       | 114507                      | 5.4  | 468          | 468      | 107615                      | 1.2  | 6.40                                  | 41                       |
| 10                 | Uttar Pradesh * @ | C                          | 200          | 197      | 89069                       | 3.3  |              |          |                             |      |                                       | 46                       |
|                    |                   | S                          | 200          | 14       | N.P.                        |      |              |          |                             |      |                                       | N.C.                     |
|                    |                   | P                          | 400          | 211      | 89069                       | 3.3  | 9336         | 9278     | 81313                       | NR   | 9.54                                  | 48                       |
| 11                 | Uttarakhand * @   | C                          | 40           | 28       | 75933                       | 9.6  | 0            |          |                             |      |                                       | 51                       |
|                    |                   | S                          | 40           | 0        | N.P.                        |      | 0            |          |                             |      |                                       | N.C.                     |
|                    |                   | P                          | 80           | 28       | 75933                       | 9.6  | 0            | 0        | 0                           | 0    | 0                                     | 51                       |
| For states covered |                   |                            | 1376         | 758      | 84498                       | 3.3  | 21066        | 17731    | 82575                       | 0.4  | 0.00                                  | 91                       |
| <b>WHEAT</b>       |                   |                            |              |          |                             |      |              |          |                             |      |                                       |                          |
| 1                  | Assam * @         | C                          | 50           | 0        | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 50           | 2        | N.P.                        |      |              |          |                             |      |                                       | N.C.                     |
|                    |                   | P                          | 100          | 2        | 0                           | 0.0  | 700          | 114      | 1279                        | 0.4  | -100.00                               | 0                        |
| 2                  | Bihar             | C                          | 230          | 175      | 2914                        | 2.8  |              |          |                             |      |                                       | 37                       |
|                    |                   | S                          | 230          | 130      | 2759                        | 4.4  |              |          |                             |      |                                       | N.C.                     |
|                    |                   | P                          | 460          | 305      | 2805                        | 2.4  | 41265        | 40965    | 2595                        | NR   | 8.09                                  | 41                       |
| 3                  | Chhattisgarh @    | C                          | 40           | 0        | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 40           | 0        | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | P                          | 80           | 0        | 0                           | 0.0  | 892          | 642      | 1294                        | 2.1  | -100.00                               | 0                        |
| 4                  | Gujarat * @       | C                          | 150          | 40       | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 150          | 40       | N.P.                        |      |              |          |                             |      |                                       | N.C.                     |
|                    |                   | P                          | 300          | 80       | 3083                        | 4.0  | 40978        | 39087    | 2898                        | 0.0  | 6.38                                  | 36                       |
| 5                  | Haryana           | C                          | 180          | 1        | 4863                        | 2.1  |              |          |                             |      |                                       | 2                        |
|                    |                   | S                          | 180          | 86       | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | P                          | 360          | 87       | 4863                        | 2.1  | 2200         | 2182     | 4407                        | 0.7  | 10.35                                 | 20                       |
| 6                  | Himachal Pradesh  | C                          | 110          | 0        | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 110          | 14       | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | P                          | 220          | 14       | 0                           | 0.0  | 2794         | 1778     | 2187                        | 1.7  | -100.00                               | 0                        |
| 7                  | Jammu & Kashmir   | C                          | 120          | 0        | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 120          | 0        | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | P                          | 240          | 0        | 0                           | 0.0  | 1956         | 1576     | 2154                        | 4.0  | -100.00                               | 0                        |
| 8                  | Jharkhand *       | C                          | 40           | 2        | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 40           | 32       | N.P.                        |      |              |          |                             |      |                                       | N.C.                     |
|                    |                   | P                          | 80           | 34       | 0                           | 0.0  | 17520        | 11902    | 2022                        | 0.0  | -100.00                               | 0                        |
| 9                  | Karnataka *       | C                          | 50           | 34       | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 50           | 40       | N.P.                        |      |              |          |                             |      |                                       | 0                        |
|                    |                   | P                          | 100          | 74       | 877                         | 11.4 | 3854         | 2947     | 1241                        | 3.6  | -29.33                                | 98                       |
| 10                 | Madhya Pradesh    | C                          | 250          | 37       | 0                           | 0.0  |              |          |                             |      |                                       | 0                        |
|                    |                   | S                          | 250          | 158      | 877                         | 11.4 |              |          |                             |      |                                       | 0                        |
|                    |                   | P                          | 500          | 195      | 0                           | 0.0  | 5830         | 5146     | 2896                        | 0.6  | -100.00                               | 0                        |

| Sl. No.            | State            | A<br>G<br>E<br>N<br>C<br>Y | ICS           |          |                                      |         | C.E.S.        |          |                                      |         | % Diff.<br>(Col.6-<br>Col.10/<br>Col.10<br>x 100) | Coeffi-<br>cient<br>of<br>Varia-<br>tion |
|--------------------|------------------|----------------------------|---------------|----------|--------------------------------------|---------|---------------|----------|--------------------------------------|---------|---|--|
|                    |                  |                            | No. of Expts. |          | Estimated<br>Yield<br>Rate<br>Kg/Hac | %<br>SE | No. of Expts. |          | Estimated<br>Yield<br>Rate<br>Kg/Hac | %<br>SE |   |  |
|                    |                  |                            | Planned       | Analysed |                                      |         | Planned       | Analysed |                                      |         |   |  |
| 1                  | 2                | 3                          | 4             | 5        | 6                                    | 7       | 8             | 9        | 10                                   | 11      | 12  | 13                                       |
| 11                 | Maharashtra      | C                          | 150           | 39       | 1675                                 | 9.5     |               |          |                                      |         |   | 59                                       |
|                    | * @              | S                          | 150           | 58       | N.P.                                 |         |               |          |                                      |         |   | N.C.                                     |
|                    |                  | P                          | 300           | 97       | 1549                                 | 8.7     | 8854          | 7756     | 1713                                 | 0.0     | -9.57   | 86                                       |
| 12                 | Punjab           | C                          | 220           | 4        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | S                          | 220           | 105      | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | P                          | 440           | 109      | 4966                                 | 1.2     | 2332          | 2332     | 5004                                 | NR      | -0.76   | 13                                       |
| 13                 | Rajasthan        | C                          | 130           | 7        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | S                          | 130           | 70       | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | P                          | 260           | 77       | 3977                                 | 4.2     | 38580         | 37604    | 3973                                 | 0.0     | 0.10  | 36                                       |
| 14                 | Uttar Pradesh    | C                          | 570           | 32       | 3716                                 | 4.4     |               |          |                                      |         |   | 25                                       |
|                    | * @              | S                          | 570           | 77       | N.P.                                 |         |               |          |                                      |         |   | N.C.                                     |
|                    |                  | P                          | 1140          | 109      | 3716                                 | 4.4     | 229176        | 228503   | 3675                                 | NR      | 1.12  | 46                                       |
| 15                 | Uttarakhand* @   | C                          | 60            | 0        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | S                          | 60            | 46       | N.P.                                 |         |               |          |                                      |         |   | N.C.                                     |
|                    |                  | P                          | 120           | 46       | 2319                                 | 5.7     | 2668          | 2663     | 2782                                 | 0.8     | -16.64  | 39                                       |
| 16                 | West Bengal      | C                          | 110           | 0        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | S                          | 110           | 0        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | P                          | 220           | 0        | 0                                    | 0.0     | 2528          | 2285     | 2682                                 | 0.9     | -100.00   | 0  |
| For states covered |                  |                            | 4920          | 1229     | 2889                                 | 1.9     | 402127        | 387482   | 3539                                 | 0.1     | -18.37  | 67                                       |
| <b>BARLEY</b>      |                  |                            |               |          |                                      |         |               |          |                                      |         |   |  |
| 1                  | Haryana          | C                          | 30            | 0        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | S                          | 30            | 16       | 4009                                 | 5.1     |               |          |                                      |         |   | 20                                       |
|                    |                  | P                          | 60            | 16       | 4009                                 | 5.1     | 516           | 355      | 3414                                 | 1.6     | 17.43   | 20                                       |
| 2                  | Himachal Pradesh | C                          | 40            | 0        | 1307                                 | 5.0     |               |          |                                      |         |   | 0  |
|                    |                  | S                          | 40            | 6        | 1913                                 | 18.2    |               |          |                                      |         |   | 45                                       |
|                    |                  | P                          | 80            | 6        | 1328                                 | 4.8     | 1258          | 656      | 1679                                 | 4.5     | -20.89  | 12                                       |
| 3                  | Punjab           | C                          | 30            | 0        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | S                          | 30            | 10       | 4089                                 | 3.0     |               |          |                                      |         |   | 10                                       |
|                    |                  | P                          | 60            | 10       | 4089                                 | 3.0     | 252           | 228      | 3781                                 | NR      | 8.15  | 10                                       |
| 4                  | Rajasthan        | C                          | 80            | 11       | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | S                          | 80            | 56       | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | P                          | 160           | 67       | 3585                                 | 3.8     | 4952          | 4924     | 3527                                 | 0.0     | 1.64  | 31                                       |
| For states covered |                  |                            | 360           | 99       | 3474                                 | 3.4     | 6978          | 6163     | 3417                                 | 0.2     | 1.67  | 34                                       |
| <b>GRAM</b>        |                  |                            |               |          |                                      |         |               |          |                                      |         |   |  |
| 1                  | Andhra Pradesh   | C                          | 60            | 57       | 1223                                 | 7.0     |               |          |                                      |         |   | 53                                       |
|                    | *                | S                          | 60            | 58       | 1313                                 | 6.6     |               |          |                                      |         |   | N.C.                                     |
|                    |                  | P                          | 120           | 115      | 1268                                 | 4.8     | 1354          | 1354     | 1218                                 | 1.2     | 4.11  | 52                                       |
| 2                  | Bihar            | C                          | 40            | 37       | 1246                                 | 10.4    |               |          |                                      |         |   | 63                                       |
|                    |                  | S                          | 40            | 28       | 1200                                 | 9.1     |               |          |                                      |         |   | N.C.                                     |
|                    |                  | P                          | 80            | 65       | 1084                                 | 18.8    | 720           | 710      | 730                                  | 0.0     | 48.49   | 152                                      |
| 3                  | Chhattisgarh     | C                          | 40            | 2        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | S                          | 40            | 0        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | P                          | 80            | 2        | 0                                    | 0.0     | 594           | 494      | 252                                  | 8.5     | -100.00   | 0  |
| 4                  | Gujarat          | C                          | 40            | 15       | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    | * @              | S                          | 40            | 2        | N.P.                                 |         |               |          |                                      |         |   | N.C.                                     |
|                    |                  | P                          | 80            | 17       | 1185                                 | 9.4     | 2385          | 2320     | 1568                                 | 0.0     | -24.43  | 39                                       |
| 5                  | Haryana          | C                          | 70            | 0        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    | *                | S                          | 70            | 24       | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | P                          | 140           | 24       | 0                                    | 0.0     | 562           | 512      | 619                                  | 0.0     | -100.00   | 0  |
| 6                  | Jharkhand        | C                          | 20            | 2        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    | *                | S                          | 20            | 8        | N.P.                                 |         |               |          |                                      |         |   | N.C.                                     |
|                    |                  | P                          | 40            | 10       | 1105                                 | 29.2    | 7830          | 5094     | 1120                                 | NR      | -1.34   | 92                                       |
| 7                  | Karnataka        | C                          | 40            | 29       | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    | *                | S                          | 40            | 40       | N.P.                                 |         |               |          |                                      |         |   | 0  |
|                    |                  | P                          | 80            | 69       | 845                                  | 11.3    | 9410          | 7482     | 696                                  | 2.0     | 21.41   | 94                                       |
| 8                  | Madhya Pradesh   | C                          | 140           | 38       | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    | *                | S                          | 140           | 78       | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | P                          | 280           | 116      | 1424                                 | 4.6     | 5330          | 4306     | 1115                                 | 0.8     | 27.71   | 50                                       |
| 9                  | Maharashtra      | C                          | 100           | 46       | 1359                                 | 7.9     |               |          |                                      |         |   | 54                                       |
|                    | * @              | S                          | 100           | 46       | N.P.                                 |         |               |          |                                      |         |   | N.C.                                     |
|                    |                  | P                          | 200           | 92       | 1265                                 | 5.8     | 13656         | 12853    | 1096                                 | 0.0     | 15.47   | 56                                       |
| 10                 | Punjab           | C                          | 30            | 0        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    | *                | S                          | 30            | 0        | N.P.                                 |         |               |          |                                      |         |   | 0  |
|                    |                  | P                          | 60            | 0        | 0                                    | 0.0     | 92            | 88       | 1219                                 | NR      | -100.00   | 0  |
| 11                 | Rajasthan        | C                          | 120           | 29       | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | S                          | 120           | 64       | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    |                  | P                          | 240           | 93       | 1314                                 | 9.0     | 18736         | 17700    | 1079                                 | 0.0     | 21.75   | 86                                       |
| 12                 | Uttar Pradesh    | C                          | 50            | 2        | 0                                    | 0.0     |               |          |                                      |         |   | 0  |
|                    | * @              | S                          | 50            | 4        | N.P.                                 |         |               |          |                                      |         |   | N.C.                                     |
|                    |                  | P                          | 100           | 6        | 1118                                 | 20.1    | 13278         | 13125    | 1371                                 | NR      | -18.45  | 49                                       |
| 13                 | West Bengal      | C                          |               |          |                                      |         |               |          |                                      |         |   | N.C.                                     |
|                    | **               | S                          |               |          |                                      |         |               |          |                                      |         |   | N.C.                                     |
|                    |                  | P                          |               |          |                                      |         | 725           | 630      | 1030                                 | 4.5     | -100.0  | N.C.                                     |
| For states covered |                  |                            | 1500          | 609      | 1192                                 | 3.5     | 74672         | 66668    | 1077                                 | 0.3     | 10.76   | 86                                       |

| Sl. No.                   | State          | A<br>G<br>E<br>N<br>C<br>Y | ICS          |          |                                      |         | C.E.S.       |          |                                      |         | % Diff. (Col.6- Col.10/ Col.10 x 100) | Coeffi-<br>cient<br>of<br>Varia-<br>tion |
|---------------------------|----------------|----------------------------|--------------|----------|--------------------------------------|---------|--------------|----------|--------------------------------------|---------|---------------------------------------|--|
|                           |                |                            | No.of Expts. |          | Estimated<br>Yield<br>Rate<br>Kg/Hac | %<br>SE | No.of Expts. |          | Estimated<br>Yield<br>Rate<br>Kg/Hac | %<br>SE |                                       |  |
|                           |                |                            | Planned      | Analysed |                                      |         | Planned      | Analysed |                                      |         |                                       |  |
| 1                         | 2              | 3                          | 4            | 5        | 6                                    | 7       | 8            | 9        | 10                                   | 11      | 12                                    | 13                                       |
| <b>RAPE &amp; MUSTARD</b> |                |                            |              |          |                                      |         |              |          |                                      |         |                                       |  |
| 1                         | Assam          | C                          | 70           | 50       | 600                                  | 5.7     |              |          |                                      |         |                                       | 40                                       |
|                           | *              | S                          | 70           | 33       | N.P.                                 |         |              |          |                                      |         |                                       | N.C.                                     |
|                           |                | P                          | 140          | 83       | 602                                  | 4.9     | 1250         | 1042     | 617                                  | 0.9     | -2.43                                 | 45                                       |
| 2                         | Bihar          | C                          | 40           | 32       | 1084                                 | 18.8    |              |          |                                      |         |                                       | 106                                      |
|                           |                | S                          | 40           | 30       | 1241                                 | 9.0     |              |          |                                      |         |                                       | N.C.                                     |
|                           |                | P                          | 80           | 62       | 1201                                 | 8.6     | 1008         | 1002     | 1187                                 | NR      | 1.18                                  | 68                                       |
| 3                         | Chhattisgarh   | C                          | 30           | 14       | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                           |                | S                          | 30           | 12       | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                           |                | P                          | 60           | 26       | 474                                  | 11.3    | 372          | 244      | 448                                  | 5.6     | 5.80                                  | 58                                       |
| 4                         | Gujarat        | C                          | 50           | 25       | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                           | * @            | S                          | 50           | 17       | N.P.                                 |         |              |          |                                      |         |                                       | N.C.                                     |
|                           |                | P                          | 100          | 42       | 1990                                 | 3.8     | 1206         | 1143     | 1932                                 | 0.0     | 2.99                                  | 25                                       |
| 5                         | Haryana        | C                          | 100          | 2        | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                           | *              | S                          | 100          | 42       | 1653                                 | 5.1     |              |          |                                      |         |                                       | 33                                       |
|                           |                | P                          | 200          | 44       | 1653                                 | 5.1     | 1040         | 990      | 1434                                 | 0.5     | 15.27                                 | 34                                       |
| 6                         | Jharkhand      | C                          | 20           | 14       | 712                                  | 10.9    |              |          |                                      |         |                                       | 41                                       |
|                           |                | S                          | 20           | 10       | 0                                    | 0.0     |              |          |                                      |         |                                       | N.C.                                     |
|                           |                | P                          | 40           | 24       | 0                                    | 0.0     | 7830         | 4860     | 935                                  | NR      | -100.00                               | 0  |
| 7                         | Madhya Pradesh | C                          | 60           | 46       | 1516                                 | 5.1     |              |          |                                      |         |                                       | 35                                       |
|                           | *              | S                          | 60           | 18       | N.P.                                 |         |              |          |                                      |         |                                       | 0  |
|                           |                | P                          | 120          | 64       | 1575                                 | 5.0     | 1116         | 996      | 1178                                 | 2.0     | 33.70                                 | 40                                       |
| 8                         | Punjab         | C                          | 40           | 3        | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                           | *              | S                          | 40           | 16       | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                           |                | P                          | 80           | 19       | 1751                                 | 5.1     | 568          | 556      | 1482                                 | NR      | 18.15                                 | 22                                       |
| 9                         | Rajasthan      | C                          | 90           | 25       | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                           |                | S                          | 90           | 73       | 0                                    | 0.0     |              |          |                                      |         |                                       | 0  |
|                           |                | P                          | 180          | 98       | 1529                                 | 6.1     | 28998        | 27574    | 1581                                 | 0.0     | -3.29                                 | 60                                       |
| 10                        | Uttar Pradesh  | C                          | 100          | 55       | 1210                                 | 9.4     |              |          |                                      |         |                                       | 70                                       |
|                           | * @            | S                          | 100          | 15       | N.P.                                 |         |              |          |                                      |         |                                       | N.C.                                     |
|                           |                | P                          | 200          | 70       | 1210                                 | 9.4     | 27794        | 27494    | 1260                                 | NR      | -3.97                                 | 79                                       |
| 11                        | West Bengal    | C                          | 110          | 110      | 1274                                 | 4.0     |              |          |                                      |         |                                       | 42                                       |
|                           |                | S                          | 110          | 0        | 0                                    | 0.0     |              |          |                                      |         |                                       | N.C.                                     |
|                           |                | P                          | 220          | 110      | 0                                    | 0.0     | 5030         | 4397     | 1077                                 | 0.9     |                                       | 0  |
| For states covered        |                |                            | 1420         | 642      | 1265                                 | 3.7     | 76212        | 70298    | 1385                                 | 0.2     | -8.63                                 | 93                                       |

- Note:
- 1) \*\* = Combined estimates prepared due to low response
  - 2) \* = State sample estimates not prepared due to low response
  - 3) @ = Both Central & State Estimates not prepared due to low response
  - 4) Only combined estimates are prepared for Cotton crop
  - 5) # = In the light of introduction of concept of Kharif and Rabi seasons in the Tamil Nadu state from Agricultural year 2017-18 and consequent, categorization of crops, the data have been presented seasonwise instead of whole year.
  - 6) N.P. = Not prepared, N.C.= Not Calculated, NR = Not reported
  - 7) The CES figures though reported against pooled figures are based on the experiments analysed in totality by the State Govt.
  - 8) NA = Not Applicable
  - 9) NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

ESTIMATES OF YIELD RATE ACCORDING TO IRRIGATION  
AND SEED VARIETY UNDER ICS DURING 2019-20

| Sl. No.      | State            | A    | S    | High Yield Varieties |                  |             |                  |             |                  | Other Varieties |                  |             |                  |             |                  | Both HYV & Other varieties |                  |             |                  |             |                  |             |                  |
|--------------|------------------|------|------|----------------------|------------------|-------------|------------------|-------------|------------------|-----------------|------------------|-------------|------------------|-------------|------------------|----------------------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|
|              |                  |      |      | Irrigated            |                  | Unirrigated |                  | Total       |                  | Irrigated       |                  | Unirrigated |                  | Total       |                  | Irrigated                  |                  | Unirrigated |                  | Total       |                  |             |                  |
|              |                  |      |      | No. Of Exp.          | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.     | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.                | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha |
| 1            | 2                | 3    | 4    | 5                    | 6                | 7           | 8                | 9           | 10               | 11              | 12               | 13          | 14               | 15          | 16               | 17                         | 18               | 19          | 20               | 21          | 22               |             |                  |
| <b>PADDY</b> |                  |      |      |                      |                  |             |                  |             |                  |                 |                  |             |                  |             |                  |                            |                  |             |                  |             |                  |             |                  |
| 1            | Andhra Pradesh   | C    | Kh.  | 137                  | 3639             | 5           | 2812             | 142         | 3610             | 3               | 2738             | 4           | 1982             | 7           | 0                | 140                        | 3620             | 9           | 2443             | 149         | 3549             |             |                  |
|              |                  |      |      | S                    | 136              | 3559        | 12               | 2518        | 148              | 3474            | 0                | 0           | 0                | 0           | 0                | 0                          | 0                | 136         | 3559             | 12          | 2518             | 148         | 3474             |
|              |                  |      |      | P                    | 273              | 3599        | 17               | 2604        | 290              | 3541            | 3                | 0           | 4                | 0           | 7                | 0                          | 276              | 3590        | 21               | 2486        | 297              | 3512        |                  |
|              |                  |      |      | C Sum.               | 26               | 4102        | 0                | 0           | 26               | 4102            | 0                | 0           | 0                | 0           | 0                | 0                          | NC               | 26          | 4102             | 0           | 0                | 26          | 4102             |
|              |                  |      |      | S                    | 88               | 4261        | 0                | 0           | 88               | 4261            | 2                | 826         | 0                | 0           | 2                | 826                        | 90               | 4184        | 0                | 0           | 90               | 4184        |                  |
|              |                  |      |      | P                    | 114              | 8363        | 0                | 0           | 114              | 4225            | 2                | 826         | 0                | NC          | 2                | 826                        | 116              | 4166        | 0                | NC          | 116              | 4166        |                  |
| 2            | Assam            | C    | Aut. | 2                    | 1680             | 2           | 136              | 4           | 908              | 8               | 2121             | 22          | 2090             | 30          | 2098             | 10                         | 2033             | 24          | 1927             | 34          | 1958             |             |                  |
|              |                  |      |      | S                    | 0                | 0           | 0                | 0           | 0                | NC              | 4                | 2218        | 33               | 1735        | 37               | 1787                       | 4                | 2218        | 33               | 1735        | 37               | 1787        |                  |
|              |                  |      |      | P                    | 2                | 1680        | 2                | 136         | 4                | 908             | 12               | 2153        | 55               | 1877        | 67               | 1926                       | 14               | 2086        | 57               | 1815        | 71               | 1869        |                  |
|              |                  |      |      | C Win.               | 0                | 0           | 18               | 2733        | 18               | 2733            | 0                | 0           | 100              | 2285        | 100              | 2285                       | 0                | 0           | 118              | 2353        | 118              | 2353        |                  |
|              |                  |      |      | S                    | 0                | 0           | 10               | 2301        | 10               | 2301            | 0                | 0           | 82               | 2199        | 82               | 2199                       | 0                | 0           | 92               | 2210        | 92               | 2210        |                  |
|              |                  |      |      | P                    | 0                | NC          | 28               | 2578        | 28               | 2578            | 0                | 0           | 182              | 991         | 182              | 2246                       | 0                | NC          | 210              | 2140        | 210              | 2291        |                  |
|              |                  |      |      | C Sum.               | 8                | 3185        | 4                | 3495        | 12               | 3289            | 6                | 3130        | 0                | 0           | 6                | 3130                       | 14               | 3162        | 4                | 3495        | 18               | 3236        |                  |
|              |                  |      |      | S                    | 14               | 2820        | 0                | 0           | 14               | 2820            | 6                | 3035        | 10               | 2875        | 16               | 2935                       | 20               | 2884        | 10               | 2875        | 30               | 2881        |                  |
|              |                  |      |      | P                    | 22               | 2952        | 4                | 3495        | 26               | 3036            | 12               | 3083        | 10               | 2875        | 22               | 2988                       | 34               | 2998        | 14               | 3052        | 48               | 3014        |                  |
|              |                  |      |      | 3                    | Bihar            | C           | Bha.             | 0           | 0                | 4               | 1338             | 4           | 1338             | 12          | 1626             | 14                         | 1898             | 26          | 1773             | 12          | 1626             | 18          | 1774             |
| S            | 4                | 2688 | 0    |                      |                  |             |                  | 0           | 4                | 2688            | 18               | 1850        | 12               | 1864        | 30               | 1856                       | 22               | 2002        | 12               | 1864        | 34               | 1953        |                  |
| P            | 4                | 2688 | 4    |                      |                  |             |                  | 1338        | 8                | 2013            | 30               | 0           | 26               | 1883        | 56               | 1817                       | 34               | 1869        | 30               | 1864        | 64               | 1842        |                  |
| C Agh.       | 69               | 2613 | 30   |                      |                  |             |                  | 3078        | 99               | 2754            | 38               | 2295        | 28               | 1953        | 66               | 2150                       | 107              | 2500        | 58               | 2018        | 165              | 2331        |                  |
| S            | 56               | 2560 | 24   |                      |                  |             |                  | 1772        | 80               | 2324            | 20               | 2307        | 38               | 3126        | 58               | 2843                       | 76               | 2420        | 62               | 1989        | 138              | 2226        |                  |
| P            | 125              | 2589 | 54   |                      |                  |             |                  | 2498        | 179              | 2562            | 58               | 2299        | 66               | 2628        | 124              | 2474                       | 183              | 2467        | 120              | 2003        | 303              | 2283        |                  |
| C Sum.       | 0                | 0    | 0    |                      |                  |             |                  | 0           | 0                | NC              | 0                | 0           | 0                | 0           | 0                | 0                          | NC               | 0           | 0                | 0           | 0                | 0           | NC               |
| S            | 12               | 2539 | 0    |                      |                  |             |                  | 0           | 12               | 2320            | 6                | 2185        | 0                | 0           | 6                | 2185                       | 18               | 2421        | 0                | 0           | 18               | 2421        |                  |
| P            | 12               | 2539 | 0    |                      |                  |             |                  | 0           | 12               | NC              | 6                | 2185        | 0                | 0           | 6                | NC                         | 18               | 2421        | 0                | 0           | 18               | NC          |                  |
| 4            | Chhattisgarh     | C    | Kh.  |                      |                  |             |                  | 40          | 2893             | 31              | 1910             | 71          | 2464             | 0           | 0                | 9                          | 1454             | 9           | 1454             | 40          | 2893             | 40          | 1808             |
|              |                  |      |      | S                    | 40               | 2492        | 34               | 2140        | 74               | 2330            | 0                | 0           | 6                | 1359        | 6                | 1359                       | 40               | 2492        | 40               | 2023        | 80               | 2257        |                  |
|              |                  |      |      | P                    | 80               | 2692        | 65               | 2030        | 145              | 2396            | 0                | 0           | 15               | 1416        | 15               | 1416                       | 80               | 2692        | 80               | 1915        | 160              | 2304        |                  |
|              |                  |      |      | C Sum.               | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 0           | 0                | 0           | 0                | 0                          | 0                | 0           | 0                | 0           | 0                | 0           | 0                |
| 5            | Gujarat          | C    | Kh.  | 35                   | 2371             | 22          | 2060             | 57          | 2340             | 3               | 2540             | 0           | 0                | 3           | 2540             | 38                         | 2385             | 22          | 2060             | 60          | 2265             |             |                  |
|              |                  |      |      | S                    | 9                | 2486        | 11               | 1388        | 20               | 1882            | 21               | 1568        | 6                | 716         | 27               | 1379                       | 30               | 1844        | 17               | 1151        | 47               | 1593        |                  |
|              |                  |      |      | P                    | 44               | 2395        | 33               | 1836        | 77               | 2221            | 24               | 1690        | 6                | 716         | 30               | 1495                       | 68               | 2146        | 39               | 1664        | 107              | 1970        |                  |
|              |                  |      |      | C Kh.                | 90               | 3176        | 0                | 0           | 90               | 3176            | 0                | 0           | 0                | 0           | 0                | 0                          | 90               | 3176        | 0                | 0           | 90               | 3176        |                  |
| 6            | Haryana          | C    | Kh.  | 38                   | 3151             | 0           | 0                | 38          | 3151             | 0               | 0                | 0           | 0                | 0           | 0                | NC                         | 38               | 3151        | 0                | 0           | 38               | 3151        |                  |
|              |                  |      |      | S                    | 128              | 3169        | 0                | 0           | 128              | 3169            | 0                | 11219       | 0                | 0           | 0                | 0                          | NC               | 128         | 3169             | 0           | 0                | 128         | 3169             |
|              |                  |      |      | P                    | 22               | 3209        | 11               | 1619        | 33               | 2679            | 14               | 2223        | 4                | 1507        | 18               | 1772                       | 36               | 2826        | 15               | 1589        | 51               | 2462        |                  |
|              |                  |      |      | C Kh.                | 4                | 1398        | 2                | 2428        | 6                | 1741            | 13               | 1752        | 14               | 1526        | 27               | 1635                       | 17               | 1669        | 16               | 1639        | 33               | 1654        |                  |
| 7            | Himachal Pradesh | C    | Kh.  | 26                   | 2931             | 13          | 1743             | 39          | 2535             | 27              | 1997             | 18          | 1522             | 45          | 1690             | 53                         | 2455             | 31          | 1615             | 84          | 2145             |             |                  |
|              |                  |      |      | S                    | 18               | 1727        | 2                | 1540        | 20               | 1708            | 8                | 1790        | 2                | 1041        | 10               | 1640                       | 26               | 1746        | 4                | 1290        | 30               | 1685        |                  |
|              |                  |      |      | P                    | 12               | 3101        | 8                | 1764        | 20               | 2566            | 2                | 3134        | 0                | 0           | 2                | 3134                       | 14               | 3106        | 8                | 1764        | 22               | 2618        |                  |
|              |                  |      |      | C Kh.                | 30               | 2276        | 10               | 1719        | 40               | 2137            | 10               | 2058        | 2                | 1041        | 12               | 1889                       | 40               | 2222        | 12               | 1606        | 52               | 2080        |                  |
| 8            | Jammu & Kashmir  | C    | Kh.  | 0                    | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 20          | 892              | 20          | 892              | 0                          | 0                | 20          | 892              | 20          | 892              |             |                  |
|              |                  |      |      | S                    | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 0           | 18               | 899         | 18               | 899                        | 0                | 0           | 18               | 899         | 18               | 899         |                  |
|              |                  |      |      | P                    | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 0           | 38               | 896         | 38               | 896                        | 0                | 0           | 38               | 896         | 38               | 896         |                  |
|              |                  |      |      | C Wint.              | 4                | 1489        | 31               | 2481        | 35               | 2368            | 5                | 1293        | 40               | 1925        | 45               | 1855                       | 9                | 1380        | 71               | 2168        | 80               | 2079        |                  |
| 9            | Jhar-khand       | C    | Aut. | 0                    | 0                | 10          | 1870             | 10          | 1870             | 0               | 0                | 44          | 1710             | 44          | 1710             | 0                          | 0                | 54          | 1740             | 54          | 1740             |             |                  |
|              |                  |      |      | S                    | 4                | 1489        | 41               | 2332        | 45               | 2257            | 5                | 1293        | 84               | 1813        | 89               | 1783                       | 9                | 1380        | 125              | 1983        | 134              | 1942        |                  |
|              |                  |      |      | P                    | 4                | 1489        | 41               | 2332        | 45               | 2257            | 5                | 1293        | 84               | 1813        | 89               | 1783                       | 9                | 1380        | 125              | 1983        | 134              | 1942        |                  |
|              |                  |      |      | C Kh.                | 58               | 3561        | 16               | 2401        | 74               | 3310            | 7                | 2154        | 13               | 2509        | 20               | 2385                       | 65               | 3410        | 29               | 2449        | 94               | 3113        |                  |
| 10           | Karnataka        | C    | Kh.  | 75                   | 3194             | 35          | 2744             | 110         | 3051             | 4               | 2643             | 16          | 1690             | 20          | 1881             | 79                         | 3166             | 51          | 2410             | 130         | 2869             |             |                  |
|              |                  |      |      | S                    | 133              | 3354        | 51               | 2636        | 184              | 3155            | 11               | 2332        | 29               | 2057        | 40               | 2133                       | 144              | 3276        | 80               | 5897        | 224              | 2972        |                  |
|              |                  |      |      | P                    | 4                | 2877        | 0                | 0           | 4                | 2877            | 3                | 2146        | 0                | 0           | 3                | 3550                       | 7                | 2564        | 0                | 0           | 7                | 2564        |                  |
|              |                  |      |      | C Sum.               | 30               | 3228        | 2                | 3827        | 32               | 3265            | 0                | 0           | 0                | 0           | 0                | 3352                       | 30               | 3228        | 2                | 3827        | 32               | 3265        |                  |
| 11           | Kerala           | C    | Aut. | 34                   | 3187             | 2           | 2483             | 36          | 3222             | 3               | 3391             | 0           | 0                | 3           | 3391             | 37                         | 3102             | 2           | 3827             | 39          | 3139             |             |                  |
|              |                  |      |      | S                    | 62               | 1835        | 14               | 1959        | 76               | 1858            | 5                | 1696        | 15               | 1691        | 20               | 1692                       | 67               | 1825        | 29               | 1676        | 96               | 1780        |                  |
|              |                  |      |      | P                    | 97               | 1864        | 64               | 1895        | 161              | 1876            | 7                | 1865        | 26               | 1813        | 33               | 1824                       | 104              | 1864        | 90               | 1824        | 194              | 1846        |                  |
|              |                  |      |      | C Win.               | 71               | 2444        | 3                | 2340        | 74               | 2440            | 4                | 2375        | 12               | 2722        | 16               | 2635                       | 75               | 2441        | 15               | 2645        | 90               | 2475        |                  |
|              |                  |      |      | S                    | 78               | 2538        | 6                | 1982        | 84               | 2499            | 3                | 2784        | 3                | 2021        | 6                | 2403                       | 81               | 2548        | 9                | 1995        | 90               | 2492        |                  |
|              |                  |      |      | P                    | 149              | 2494        | 9                | 2101        | 158              | 2471            | 7                | 2550        | 15               | 2582        | 22               | 2572                       | 156              | 2496        | 24               | 2401        | 180              | 2484        |                  |
|              |                  |      |      | C Sum.               | 29               | 2456        | 0                | 0           | 29               | 2456            | 0                | 0           | 2                | 195         | 2                | 195                        | 29               | 2456        | 2                | 195         | 31               | 2310        |                  |
|              |                  |      |      | S                    | 29               | 2497        | 0                | 0           | 29               | 2497            | 0                | 0           | 0                | 0           | 0                | 0                          | NC               | 29          | 2497             | 0           | 0                | 29          | 2497             |
|              |                  |      |      | P                    | 58               | 2477        | 0                | 2058        | 58               | 2477            | 0                | NC          | 2                | 195         | 2                | NC                         | 58               | 2477        | 2                | 195         | 60               | 2400        |                  |
|              |                  |      |      | 12                   | Madhya Pradesh   | C           | Kh.              | 34          | 3005             | 35              | 2314             | 69          | 2655             | 0           | 0                | 31                         | 1740             | 31          | 1740             | 34          | 3005             | 66          | 2045             |
| S            | 30               | 2690 | 27   |                      |                  |             |                  | 1798        | 57               | 2267            | 0                | 0           | 29               | 1565        | 29               | 1565                       | 30               | 2690        | 56               | 1678        | 86               | 2031        |                  |
| P            | 64               | 2857 | 62   |                      |                  |             |                  | 2090        | 126              | 2480            | 0                | NC          | 60               | 1656        | 60               | 1656                       | 64               | 2857        | 122              | 1876        | 186              | 2214        |                  |

| Sl. No.            | State          | A G E N C Y | S E A S O N | High Yield Varieties |                  |             |                  |             |                  | Other Varieties |                  |             |                  |             |                  | Both HYV & Other varieties |                  |             |                  |             |                  |      |
|--------------------|----------------|-------------|-------------|----------------------|------------------|-------------|------------------|-------------|------------------|-----------------|------------------|-------------|------------------|-------------|------------------|----------------------------|------------------|-------------|------------------|-------------|------------------|------|
|                    |                |             |             | Irrigated            |                  | Unirrigated |                  | Total       |                  | Irrigated       |                  | Unirrigated |                  | Total       |                  | Irrigated                  |                  | Unirrigated |                  | Total       |                  |      |
|                    |                |             |             | No. Of Exp.          | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.     | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.                | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha |      |
| 1                  | 2              | 3           | 4           | 5                    | 6                | 7           | 8                | 9           | 10               | 11              | 12               | 13          | 14               | 15          | 16               | 17                         | 18               | 19          | 20               | 21          | 22               |      |
| 13                 | Maharashtra    | C           | Kh.         | 14                   | 1841             | 27          | 1407             | 41          | 1555             | 2               | 2063             | 8           | 1221             | 10          | 1389             | 16                         | 1869             | 35          | 1365             | 51          | 1523             |      |
|                    |                | S           |             | 8                    | 2230             | 20          | 1429             | 28          | 1658             | 2               | 1203             | 8           | 667              | 10          | 774              | 10                         | 2024             | 28          | 1211             | 38          | 1425             |      |
|                    |                | P           |             | 22                   | 1982             | 47          | 1417             | 69          | 1597             | 4               | 1633             | 16          | 944              | 20          | 1081             | 26                         | 1929             | 63          | 1297             | 89          | 1481             |      |
| 14                 | Odisha         | C           | Aut.        | 15                   | 1473             | 130         | 1534             | 145         | 1528             | 2               | 1855             | 70          | 1550             | 72          | 1558             | 17                         | 1518             | 200         | 1540             | 217         | 1538             |      |
|                    |                | S           |             | 15                   | 2023             | 165         | 1522             | 180         | 1564             | 2               | 1367             | 23          | 1446             | 25          | 1440             | 17                         | 1945             | 188         | 1354             | 205         | 1403             |      |
|                    |                | P           |             | 30                   | 1748             | 295         | 1528             | 325         | 1548             | 4               | 1611             | 93          | 1524             | 97          | 1528             | 34                         | 1732             | 388         | 1450             | 422         | 1472             |      |
|                    |                | C           | Win.        | 64                   | 2397             | 150         | 2140             | 214         | 2217             | 5               | 2670             | 41          | 2121             | 46          | 2180             | 69                         | 2417             | 191         | 2136             | 260         | 2210             |      |
|                    |                | S           |             | 70                   | 741              | 173         | 1929             | 243         | 1587             | 0               | 0                | 11          | 1560             | 11          | 1560             | 70                         | 741              | 184         | 1814             | 254         | 1519             |      |
|                    |                | P           |             | 134                  | 1532             | 323         | 2027             | 457         | 1882             | 5               | 2670             | 52          | 2002             | 57          | 2061             | 139                        | 1573             | 375         | 1978             | 514         | 1869             |      |
|                    |                | C           | Sum.        | 11                   | 2130             | 1           | 1756             | 12          | 2098             | 0               | 0                | 0           | 0                | 0           | 0                | 0                          | 11               | 2130        | 1                | 1756        | 12               | 2098 |
|                    |                | S           |             | 137                  | 3001             | 0           | 0                | 137         | 3001             | 0               | 0                | 0           | 0                | 0           | 0                | 0                          | 137              | 3001        | 0                | 0           | 137              | 3001 |
| P                  |                | 148         | 2937        | 1                    | 0                | 149         | 2929             | 0           | 0                | 0               | 0                | 0           | 0                | 0           | 148              | 2937                       | 1                | 1589        | 149              | 2929        |                  |      |
| 15                 | Punjab         | C           | Kh.         | 181                  | 4697             | 1           | 3199             | 182         | 4689             | 5               | 4087             | 0           | 0                | 5           | 4087             | 186                        | 4681             | 1           | 3199             | 187         | 4673             |      |
|                    |                | S           |             | 119                  | 4149             | 0           | 0                | 119         | 4149             | 3               | 5242             | 0           | 0                | 3           | 5242             | 122                        | 4176             | 0           | 0                | 122         | 4176             |      |
|                    |                | P           |             | 300                  | 4480             | 1           | 3199             | 301         | 4475             | 8               | 4520             | 0           | 0                | 8           | 4520             | 308                        | 4481             | 1           | 3199             | 309         | 4477             |      |
| 16                 | Tamil Nadu     | C           | Phase I     | 40                   | 4512             | 0           | 0                | 40          | 0                | 0               | 0                | 0           | 0                | 0           | 0                | 40                         | 4512             | 0           | 0                | 40          | 0                |      |
|                    |                | S           |             | 38                   | 4337             | 0           | 0                | 38          | 0                | 0               | 0                | 0           | 0                | 0           | 0                | 38                         | 4337             | 0           | 0                | 38          | 0                |      |
|                    |                | P           |             | 78                   | 0                | 0           | 0                | 78          | 0                | 0               | 0                | 0           | 0                | 0           | 0                | 78                         | 0                | 0           | 0                | 78          | 0                |      |
|                    |                | C           | Phase II    | 57                   | 4393             | 1           | 1687             | 58          | 4346             | 0               | 0                | 0           | 0                | 0           | 0                | NC                         | 57               | 4393        | 1                | 1687        | 58               | 4346 |
|                    |                | S           |             | 43                   | 4856             | 4           | 2596             | 47          | 4664             | 1               | 1448             | 0           | 0                | 1           | 0                | 44                         | 4779             | 4           | 2596             | 48          | 4597             |      |
|                    |                | P           |             | 100                  | 4592             | 5           | 2414             | 105         | 4488             | 1               | 3070             | 0           | 0                | 1           | NC               | 101                        | 4561             | 5           | 2414             | 106         | 4460             |      |
|                    |                | C           | Phase III   | 17                   | 4497             | 0           | 0                | 17          | 4497             | 0               | 0                | 0           | 0                | 0           | 0                | 17                         | 4497             | 0           | 0                | 17          | 4497             |      |
|                    |                | S           |             | 21                   | 4066             | 0           | 0                | 21          | 4066             | 0               | 0                | 0           | 0                | 0           | 0                | NC                         | 21               | 4066        | 0                | 0           | 21               | 4066 |
| P                  |                | 38          | 4258        | 0                    | 0                | 38          | 4258             | 0           | 0                | 0               | 0                | 0           | 0                | NC          | 38               | 4258                       | 0                | 1           | 38               | 4258        |                  |      |
| 17                 | Telangana      | C           | Kh.         | 58                   | 3512             | 4           | 2917             | 62          | 3474             | 3               | 4333             | 0           | 0                | 3           | 4333             | 61                         | 3553             | 4           | 2917             | 65          | 3514             |      |
|                    |                | S           |             | 63                   | 3678             | 4           | 2578             | 67          | 3612             | 2               | 2583             | 0           | 0                | 2           | 2583             | 65                         | 3644             | 4           | 2578             | 69          | 3582             |      |
|                    |                | P           |             | 121                  | 3598             | 8           | 2747             | 129         | 3546             | 5               | 3633             | 0           | NC               | 5           | 3633             | 126                        | 3600             | 8           | 2747             | 134         | 3549             |      |
|                    |                | C           | Rabi        | 6                    | 4280             | 0           | 0                | 6           | 4280             | 0               | 0                | 0           | 0                | 0           | 0                | NC                         | 6                | 4280        | 0                | 0           | 6                | 4280 |
|                    |                | S           |             | 73                   | 4849             | 0           | 0                | 73          | 4849             | 2               | 3646             | 0           | 0                | 2           | 3646             | 75                         | 4816             | 0           | 0                | 75          | 4816             |      |
| P                  |                | 79          | 3740        | 0                    | 2900             | 79          | 4805             | 2           | 0                | 0               | 0                | 2           | NC               | 81          | 3739             | 0                          | 2900             | 81          | 4777             |             |                  |      |
| 18                 | Uttar Pradesh  | C           | Kh.         | 582                  | 2777             | 28          | 3183             | 610         | 2796             | 47              | 2842             | 1           | 1115             | 48          | 2806             | 629                        | 2782             | 29          | 3111             | 658         | 2796             |      |
|                    |                | S           |             | 104                  | 2804             | 8           | 1505             | 112         | 2711             | 9               | 2783             | 1           | 2130             | 10          | 2717             | 113                        | 2803             | 9           | 1574             | 122         | 2712             |      |
|                    |                | P           |             | 686                  | 2781             | 36          | 2810             | 722         | 2783             | 56              | 2833             | 2           | 1622             | 58          | 2791             | 742                        | 2785             | 38          | 2747             | 780         | 2783             |      |
| 19                 | Uttarakhand    | C           | Kh.         | 24                   | 3607             | 0           | 0                | 24          | 3607             | 15              | 2365             | 8           | 1585             | 23          | 2093             | 39                         | 3129             | 8           | 1585             | 47          | 2866             |      |
|                    |                | S           |             | 27                   | 3318             | 0           | 0                | 27          | 3318             | 6               | 3244             | 17          | 991              | 23          | 1579             | 33                         | 3304             | 17          | 991              | 50          | 2518             |      |
|                    |                | P           |             | 51                   | 3454             | 0           | 0                | 51          | 3454             | 21              | 2616             | 25          | 1181             | 46          | 1836             | 72                         | 3209             | 25          | 1181             | 97          | 2687             |      |
| 20                 | West Bengal    | C           | Aut.        | 69                   | 2745             | 21          | 1878             | 90          | 2542             | 6               | 2800             | 1           | 1379             | 7           | 2597             | 75                         | 2749             | 22          | 1856             | 97          | 2546             |      |
|                    |                | S           |             | 4                    | 2234             | 0           | 0                | 4           | 2234             | 0               | 0                | 0           | 0                | 0           | 4                | 2234                       | 0                | 0           | 4                | 2234        |                  |      |
|                    |                | P           |             | 73                   | 2717             | 21          | 1878             | 94          | 2529             | 6               | 2800             | 1           | 0                | 7           | 2597             | 79                         | 2723             | 22          | 1856             | 101         | 2534             |      |
|                    |                | C           | Am.         | 88                   | 3184             | 55          | 2436             | 143         | 2896             | 4               | 2736             | 13          | 1812             | 17          | 2030             | 92                         | 3164             | 68          | 2317             | 160         | 2804             |      |
|                    |                | S           |             | 9                    | 3159             | 5           | 2818             | 14          | 3038             | 0               | 0                | 0           | 0                | 0           | 9                | 3159                       | 5                | 2818        | 14               | 3038        |                  |      |
|                    |                | P           |             | 97                   | 3181             | 60          | 2468             | 157         | 2909             | 4               | 2736             | 13          | 1812             | 17          | 2030             | 101                        | 3164             | 73          | 2351             | 174         | 2823             |      |
|                    |                | C           | Sum.        | 10                   | 3104             | 0           | 0                | 10          | 3104             | 0               | 0                | 0           | 0                | 0           | 0                | NC                         | 10               | 3104        | 0                | 0           | 10               | 3104 |
| S                  |                | 0           | 0           | 0                    | 0                | 0           | NC               | 0           | 0                | 0               | 0                | 0           | 0                | 0           | 0                | 0                          | 0                | 0           | 0                | 0           | NC               |      |
| P                  |                | 10          | 3104        | 0                    | 0                | 10          | NC               | 0           | NC               | 0               | 0                | 0           | 0                | NC          | 10               | 3104                       | 0                | 0           | 10               | NC          |                  |      |
| 21                 | Puducherry     | C           | Kh.         | 10                   | 2875             | 0           | 0                | 10          | 2875             | 0               | 0                | 0           | 0                | 0           | 10               | 2875                       | 0                | 0           | 10               | 2875        |                  |      |
|                    |                | S           |             | 10                   | 3138             | 0           | 0                | 10          | 3138             | 0               | 0                | 0           | 0                | 0           | 10               | 3138                       | 0                | 0           | 10               | 3138        |                  |      |
|                    |                | P           |             | 20                   | 3006             | 0           | 0                | 20          | 3006             | 0               | 0                | 0           | 0                | 0           | 20               | 3006                       | 0                | 0           | 20               | 3006        |                  |      |
|                    |                | C           | R-I         | 10                   | 3162             | 0           | 0                | 10          | 3162             | 0               | 0                | 0           | 0                | 0           | 10               | 3162                       | 0                | 0           | 10               | 3162        |                  |      |
|                    |                | S           |             | 10                   | 2579             | 0           | 0                | 10          | 2579             | 0               | 0                | 0           | 0                | 0           | 10               | 2579                       | 0                | 0           | 10               | 2579        |                  |      |
|                    |                | P           |             | 20                   | 2658             | 0           | 0                | 20          | 2870             | 0               | 0                | 0           | 0                | 0           | 20               | 2870                       | 0                | 0           | 20               | 2870        |                  |      |
|                    |                | C           | R-II        | 10                   | 3344             | 0           | 0                | 10          | 3344             | 0               | 0                | 0           | 0                | 0           | 10               | 3344                       | 0                | 0           | 10               | 3344        |                  |      |
| S                  |                | 10          | 3139        | 0                    | 0                | 10          | 3139             | 0           | 0                | 0               | 0                | 0           | 10               | 3139        | 0                | 0                          | 10               | 3139        |                  |             |                  |      |
| P                  |                | 20          | 3242        | 0                    | 0                | 20          | 3242             | 0           | 0                | 0               | 0                | 0           | 20               | 3242        | 0                | 0                          | 20               | 3242        |                  |             |                  |      |
| For States Covered | C              |             |             | 1884                 | 3141             | 678         | 2102             | 2562        | NC               | 202             | 2397             | 358         | 1778             | 653         | NC               | 2083                       | 3074             | 1132        | 1997             | 3215        | NC               |      |
|                    | S              |             |             | 1342                 | 3085             | 578         | 1839             | 1912        | NC               | 127             | 2185             | 404         | 1761             | 513         | NC               | 1469                       | 3003             | 982         | 1716             | 2451        | NC               |      |
|                    | P              |             |             | 3226                 | 3118             | 1248        | 1994             | 4474        | NC               | 326             | 2337             | 840         | 1605             | 1166        | NC               | 3552                       | 3044             | 2088        | 1890             | 5640        | NC               |      |
| JOWAR              |                |             |             |                      |                  |             |                  |             |                  |                 |                  |             |                  |             |                  |                            |                  |             |                  |             |                  |      |
| 1                  | Karnataka      | C           | Kh.         | 6                    | 3067             | 6           | 1293             | 12          | 2180             | 0               | 0                | 2           | 505              | 2           | 505              | 6                          | 3067             | 8           | 1096             | 14          | 1941             |      |
|                    |                | S           |             | 13                   | 2034             | 17          | 1549             | 30          | 1759             | 0               | 0                | 7           | 784              | 7           | 784              | 13                         | 2034             | 24          | 1326             | 37          | 1575             |      |
|                    |                | P           |             | 19                   | 2360             | 23          | 1482             | 42          | 1879             | 0               | 0                | 9           | 722              | 9           | 722              | 19                         | 2360             | 32          | 1269             | 51          | 1675             |      |
|                    |                | C           | Rabi        | 11                   | 1418             | 20          | 933              | 31          | 1105             | 3               | 890              | 20          | 782              | 23          | 796              | 14                         | 1305             | 40          | 857              | 54          | 973              |      |
|                    |                | S           |             | 2                    | 1635             | 36          | 1002             | 38          | 1035             | 6               | 1268             | 11          | 527              | 17          | 788              | 8                          | 1360             | 47          | 890              | 55          | 959              |      |
| P                  |                | 13          | 1452        | 56                   | 977              | 69          | 1066             | 9           | 0                | 31              | 691              | 40          | 793              | 22          | 1325             | 87                         | 875              | 109         | 966              |             |                  |      |
| 2                  | Madhya Pradesh | C           | Kh.         | 0                    | 0                | 26          | 1066             | 26          | 1066             | 0               | 0                | 66          | 1126             | 66          | 1126             | 0                          | 0                | 92          | 1109             | 92          | 1109             |      |
|                    |                | S           |             | 0                    | 0                | 24          | 981              | 24          | 981              | 0               | 0                | 46          | 947              | 46          | 947              | 0                          | 0                | 70          | 959              | 70          | 959              |      |
|                    |                | P           |             | 0                    | 0                | 50          | 1025             | 50          | 1025             | 0               | 0                | 112         | 1053             | 112         | 1053             | 0                          | 0                | 162         | 1044             | 162         | 1044             |      |

| Sl. No. | State              | A | S    | High Yield Varieties |                  |             |                  |             |                  | Other Varieties |                  |             |                  |             |                  | Both HYV & Other varieties |                  |             |                  |             |                  |
|---------|--------------------|---|------|----------------------|------------------|-------------|------------------|-------------|------------------|-----------------|------------------|-------------|------------------|-------------|------------------|----------------------------|------------------|-------------|------------------|-------------|------------------|
|         |                    |   |      | Irrigated            |                  | Unirrigated |                  | Total       |                  | Irrigated       |                  | Unirrigated |                  | Total       |                  | Irrigated                  |                  | Unirrigated |                  | Total       |                  |
|         |                    |   |      | No. Of Exp.          | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.     | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.                | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha |
| 1       | 2                  | 3 | 4    | 5                    | 6                | 7           | 8                | 9           | 10               | 11              | 12               | 13          | 14               | 15          | 16               | 17                         | 18               | 19          | 20               | 21          | 22               |
| 3       | Maharashtra        | C | Kh.  | 2                    | 47               | 28          | 730              | 30          | 684              | 0               | 0                | 8           | 538              | 8           | 538              | 2                          | 47               | 36          | 687              | 38          | 654              |
|         |                    | S |      | 0                    | 0                | 42          | 549              | 42          | 549              | 0               | 0                | 12          | 331              | 12          | 1111             | 0                          | 0                | 54          | 500              | 54          | 500              |
|         |                    | P |      | 2                    | 47               | 70          | 621              | 72          | 605              | 0               | 0                | 20          | 414              | 20          | 1000             | 2                          | 47               | 90          | 575              | 92          | 564              |
|         |                    | C | Rabi | 9                    | 714              | 30          | 609              | 39          | 634              | 4               | 713              | 19          | 800              | 23          | 6396             | 13                         | 714              | 49          | 683              | 62          | 690              |
|         |                    | S |      | 17                   | 778              | 23          | 775              | 40          | 777              | 11              | 1190             | 35          | 741              | 46          | 849              | 28                         | 940              | 58          | 755              | 86          | 815              |
|         |                    | P |      | 26                   | 756              | 53          | 0                | 79          | 706              | 15              | 1063             | 54          | 0                | 69          | 2698             | 41                         | 868              | 107         | 0                | 148         | 763              |
| 4       | Rajasthan          | C | Kh.  | 0                    | 0                | 14          | 625              | 14          | 625              | 1               | 0                | 40          | 690              | 41          | 673              | 1                          | 0                | 54          | 673              | 55          | 661              |
|         |                    | S |      | 0                    | 0                | 12          | 647              | 12          | 647              | 0               | 0                | 30          | 304              | 30          | 304              | 0                          | 0                | 42          | 402              | 42          | 402              |
|         |                    | P |      | 0                    | 0                | 26          | 635              | 26          | 635              | 1               | 0                | 70          | 524              | 71          | 517              | 1                          | 0                | 96          | 554              | 97          | 549              |
| 5       | Tamil Nadu         | C | **   | 8                    | 1247             | 26          | 1310             | 34          | 1295             | 0               | 0                | 6           | 535              | 6           | 535              | 8                          | 1247             | 32          | 1165             | 40          | 1181             |
|         |                    | S |      | 2                    | 386              | 21          | 959              | 23          | 910              | 0               | 0                | 6           | 827              | 6           | 827              | 2                          | 386              | 27          | 930              | 29          | 892              |
|         |                    | P |      | 10                   | 1075             | 47          | 1153             | 57          | 1139             | 0               | 0                | 12          | 681              | 12          | 681              | 10                         | 1075             | 59          | 1057             | 69          | 1060             |
| 6       | Telangana          | C | Kh.  | 0                    | 0                | 3           | 2065             | 3           | 2065             | 0               | 0                | 35          | 976              | 35          | 976              | 0                          | 0                | 38          | 1062             | 38          | 1062             |
|         |                    | S |      | 0                    | 0                | 8           | 1908             | 8           | 1908             | 0               | 0                | 28          | 1052             | 28          | 1052             | 0                          | 0                | 36          | 1242             | 36          | 1242             |
|         |                    | P |      | 0                    | NC               | 11          | 1951             | 11          | 1951             | 0               | 0                | 63          | 1010             | 63          | 1010             | 0                          | 0                | 74          | 1149             | 74          | 1149             |
|         |                    | C | Rabi | 0                    | 0                | 0           | 0                | 0           | NC               | 4               | 769              | 16          | 1167             | 20          | 1088             | 4                          | 769              | 16          | 1167             | 20          | 1088             |
|         |                    | S |      | 8                    | 1850             | 8           | 1354             | 16          | 1602             | 13              | 1972             | 5           | 1074             | 18          | 1722             | 21                         | 1925             | 13          | 1246             | 34          | 1666             |
|         |                    | P |      | 8                    | 1148             | 15          | 1394             | 16          | NC               | 17              | 1340             | 21          | 1145             | 38          | 1388             | 25                         | 1303             | 29          | 1212             | 54          | 1241             |
| 7       | Uttar Pradesh      | C | Kh.  | 0                    | 0                | 1           | 2816             | 1           | 2816             | 0               | 0                | 39          | 1436             | 39          | 1436             | 0                          | 0                | 40          | 1470             | 40          | 1470             |
|         |                    | S |      | 0                    | 0                | 0           | 0                | 0           | 0                | 0               | 12               | 849         | 12               | 849         | 0                | 0                          | 12               | 849         | 12               | 849         |                  |
|         |                    | P |      | 0                    | 0                | 1           | 2816             | 1           | 2816             | 0               | 0                | 51          | 1297             | 51          | 1297             | 0                          | 0                | 52          | 1327             | 52          | 1327             |
|         | For States Covered | C |      | 36                   | 6494             | 154         | 11446            | 190         | NC               | 12              | 2372             | 251         | 8554             | 263         | 14068            | 48                         | 7149             | 405         | 9969             | 453         | 1002             |
|         |                    | S |      | 42                   | 6684             | 191         | 9724             | 233         | 10167            | 30              | 4430             | 192         | 7435             | 222         | 9232             | 72                         | 6645             | 383         | 9099             | 455         | 944              |
|         |                    | P |      | 78                   | NC               | 352         | 12054            | 423         | NC               | 42              | 2403             | 443         | 7537             | 485         | 11158            | 120                        | 6978             | 788         | 9062             | 908         | 973              |
| BAJRA   |                    |   |      |                      |                  |             |                  |             |                  |                 |                  |             |                  |             |                  |                            |                  |             |                  |             |                  |
| 1       | Andhra Pradesh     | C | Kh.  | 0                    | 0                | 20          | 2535             | 20          | 2535             | 2               | 851              | 12          | 1304             | 14          | 1239             | 2                          | 851              | 32          | 2073             | 34          | 2001             |
|         |                    | S |      | 2                    | 2122             | 12          | 1780             | 14          | 1829             | 0               | 0                | 22          | 1044             | 22          | 1044             | 2                          | 2122             | 34          | 1304             | 36          | 1349             |
|         |                    | P |      | 2                    | 2122             | 32          | 2252             | 34          | 2244             | 2               | 0                | 34          | 1135             | 36          | 1120             | 4                          | 1486             | 66          | 1677             | 70          | 1666             |
| 2       | Gujarat            | C | Kh.  | 27                   | 2126             | 64          | 1611             | 91          | 1764             | 0               | 0                | 0           | 0                | 0           | NC               | 27                         | 2126             | 64          | 1611             | 91          | 1764             |
|         |                    | S |      | 22                   | 1744             | 40          | 2062             | 62          | 1949             | 0               | 0                | 1           | 382              | 1           | 382              | 22                         | 1744             | 41          | 2021             | 63          | 1924             |
|         |                    | P |      | 49                   | 1954             | 104         | 1784             | 153         | 1839             | 0               | NC               | 1           | 382              | 1           | NC               | 49                         | 1954             | 105         | 1771             | 154         | 1829             |
| 3       | Haryana            | C | Kh.  | 73                   | 1917             | 25          | 1850             | 98          | 1900             | 4               | 1974             | 0           | 0                | 4           | 1974             | 77                         | 1920             | 25          | 1850             | 102         | 1903             |
|         |                    | S |      | 23                   | 1836             | 8           | 876              | 31          | 1588             | 0               | 0                | 0           | 0                | 0           | 0                | 23                         | 1836             | 8           | 876              | 31          | 1588             |
|         |                    | P |      | 96                   | 1897             | 33          | 1614             | 129         | 1825             | 4               | 1974             | 0           | 0                | 4           | 1974             | 100                        | 1900             | 33          | 1614             | 133         | 1829             |
| 4       | Karnataka          | C | Kh.  | 4                    | 1378             | 17          | 1159             | 21          | 1201             | 0               | 0                | 0           | 0                | 0           | NC               | 4                          | 1378             | 17          | 1159             | 21          | 1201             |
|         |                    | S |      | 4                    | 666              | 32          | 1018             | 36          | 979              | 2               | 2511             | 4           | 707              | 6           | 1308             | 6                          | 1281             | 36          | 983              | 42          | 1026             |
|         |                    | P |      | 8                    | 2044             | 49          | 1067             | 57          | 1061             | 2               | 2511             | 4           | 707              | 6           | NC               | 10                         | 1320             | 53          | 1039             | 63          | 1084             |
| 5       | Maharashtra        | C | Kh.  | 2                    | 1476             | 8           | 408              | 10          | 622              | 0               | 0                | 4           | 2439             | 4           | 2439             | 2                          | 1476             | 12          | 1085             | 14          | 1141             |
|         |                    | S |      | 2                    | 3712             | 10          | 989              | 12          | 1443             | 2               | 2228             | 16          | 572              | 18          | 756              | 4                          | 2970             | 26          | 733              | 30          | 1031             |
|         |                    | P |      | 4                    | 2594             | 18          | 731              | 22          | 1070             | 2               | 2228             | 20          | 946              | 22          | 1062             | 6                          | 2472             | 38          | 844              | 44          | 1066             |
| 6       | Rajasthan          | C | Kh.  | 3                    | 1352             | 34          | 1682             | 37          | 1655             | 0               | 0                | 20          | 1595             | 20          | 1595             | 3                          | 1352             | 54          | 1649             | 57          | 1634             |
|         |                    | S |      | 5                    | 1677             | 27          | 1215             | 32          | 1287             | 1               | 1667             | 11          | 620              | 12          | 707              | 6                          | 1676             | 38          | 1043             | 44          | 1129             |
|         |                    | P |      | 8                    | 1555             | 61          | 1475             | 69          | 1484             | 1               | 1667             | 31          | 1249             | 32          | 1262             | 9                          | 1568             | 92          | 1399             | 101         | 1414             |
| 7       | Tamil Nadu         | C | **   | 6                    | 5007             | 28          | 3819             | 34          | 4029             | 2               | 2782             | 4           | 3940             | 6           | 3554             | 8                          | 4451             | 32          | 3834             | 40          | 3958             |
|         |                    | S |      | 6                    | 3677             | 21          | 2042             | 27          | 2405             | 0               | 0                | 2           | 1394             | 2           | 1394             | 6                          | 3677             | 23          | 1985             | 29          | 2335             |
|         |                    | P |      | 12                   | 4342             | 49          | 3057             | 61          | 3310             | 2               | 0                | 6           | 3091             | 8           | 3014             | 14                         | 4119             | 55          | 3061             | 69          | 3276             |
| 8       | Uttar Pradesh      | C | Kh.  | 54                   | 2476             | 67          | 2344             | 121         | 2403             | 3               | 1451             | 13          | 1337             | 16          | 1358             | 57                         | 2422             | 80          | 2180             | 137         | 2281             |
|         |                    | S |      | 12                   | 2752             | 30          | 2034             | 42          | 2239             | 0               | 0                | 1           | 1738             | 1           | 1738             | 12                         | 2752             | 31          | 2024             | 43          | 2227             |
|         |                    | P |      | 66                   | 2526             | 97          | 2248             | 163         | 2361             | 3               | 1451             | 14          | 1366             | 17          | 1381             | 69                         | 2479             | 111         | 2136             | 180         | 2268             |
|         | For States Covered | C |      | 169                  | 2211             | 263         | 2069             | 432         | 2124             | 11              | 1774             | 53          | 1706             | 64          | NC               | 180                        | 2184             | 316         | 2008             | 496         | 2072             |
|         |                    | S |      | 76                   | 2084             | 180         | 1611             | 256         | 1752             | 5               | 2229             | 57          | 819              | 62          | 932              | 81                         | 2093             | 237         | 1420             | 318         | 1592             |
|         |                    | P |      | 245                  | 2171             | 443         | 1883             | 688         | 1986             | 16              | 1916             | 110         | 1246             | 126         | NC               | 261                        | 2156             | 553         | 1756             | 814         | 1884             |
| MAIZE   |                    |   |      |                      |                  |             |                  |             |                  |                 |                  |             |                  |             |                  |                            |                  |             |                  |             |                  |
| 1       | Bihar              | C | Kh.  | 4                    | 2223             | 4           | 2395             | 8           | 2309             | 7               | 2231             | 2           | 3458             | 9           | 2503             | 11                         | 2228             | 6           | 2750             | 17          | 2412             |
|         |                    | S |      | 2                    | 1226             | 0           | 0                | 2           | 1226             | 4               | 1816             | 8           | 2084             | 12          | 1995             | 6                          | 1619             | 8           | 2084             | 14          | 1885             |
|         |                    | P |      | 6                    | 1891             | 4           | 0                | 10          | 2092             | 11              | 2080             | 10          | 2359             | 21          | 2213             | 17                         | 2013             | 14          | 2369             | 31          | 2174             |
| 2       | Chhattisgarh       | C | Kh.  | 0                    | 0                | 22          | 4962             | 22          | 4962             | 0               | 0                | 18          | 2342             | 18          | 2342             | 0                          | 0                | 40          | 3783             | 40          | 3783             |
|         |                    | S |      | 0                    | 0                | 18          | 3944             | 18          | 3944             | 0               | 0                | 12          | 1917             | 12          | 1917             | 0                          | 0                | 30          | 3133             | 30          | 3133             |
|         |                    | P |      | 0                    | NC               | 40          | 4504             | 40          | 4504             | 0               | 0                | 30          | 2172             | 30          | 2172             | 0                          | 0                | 70          | 3505             | 70          | 3505             |
| 3       | Gujarat            | C | Kh.  | 0                    | 0                | 14          | 1546             | 14          | 1546             | 0               | 0                | 12          | 1433             | 12          | 1433             | 0                          | 0                | 26          | 1494             | 26          | 1494             |
|         |                    | S |      | 0                    | 0                | 6           | 1787             | 6           | 1787             | 0               | 0                | 22          | 1558             | 22          | 1558             | 0                          | 0                | 28          | 1607             | 28          | 1607             |
|         |                    | P |      | 0                    | NC               | 20          | 1618             | 20          | 1618             | 0               | 0                | 34          | 1514             | 34          | 1514             | 0                          | NC               | 54          | 1553             | 54          | 1553             |
| 4       | Haryana            | C | Kh.  | 10                   | 3773             | 3           | 4580             | 13          | 3959             | 1               | 1914             | 2           | 2954             | 3           | 2607             | 11                         | 3604             | 5           | 3929             | 16          | 3705             |
|         |                    | S |      | 8                    | 3935             | 0           | 0                | 8           | 3935             | 0               | 0                | 0           | 0                | 0           | NC               | 8                          | 3935             | 0           | 0                | 8           | 3935             |
|         |                    | P |      | 18                   | 3845             | 3           | 4580             | 21          | 3950             | 1               | 1914             | 2           | 2954             | 3           | NC               | 19                         | 3743             | 5           | 3929             | 24          | 3782             |
| 5       | Himachal Pradesh   | C | Kh.  | 3                    | 4728             | 17          | 3260             | 20          | 3480             | 6               | 1577             | 49          | 2829             | 55          |                  |                            |                  |             |                  |             |                  |

| Sl. No.            | State           | A | S   | High Yield Varieties |      |      |      |      |      | Other Varieties |             |                  |             |                  |             | Both HYV & Other varieties |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |
|--------------------|-----------------|---|-----|----------------------|------|------|------|------|------|-----------------|-------------|------------------|-------------|------------------|-------------|----------------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|
|                    |                 |   |     | E                    | A    | S    | O    | N    | C    | Y               | Irrigated   |                  | Unirrigated |                  | Total       |                            | Irrigated   |                  | Unirrigated |                  | Total       |                  | Irrigated   |                  | Unirrigated |                  | Total       |                  |             |                  |             |                  |             |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |
|                    |                 |   |     |                      |      |      |      |      |      |                 | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha           | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |
|                    |                 |   |     |                      |      |      |      |      |      |                 | 3           | 4                | 5           | 6                | 7           | 8                          | 9           | 10               | 11          | 12               | 13          | 14               | 15          | 16               | 17          | 18               | 19          | 20               | 21          | 22               |             |                  |             |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |
| 6                  | Jammu & Kashmir | C | Kh. | 1                    | 3566 | 29   | 2247 | 30   | 2291 | 0               | 0           | 36               | 1823        | 36               | 1823        | 1                          | 3566        | 65               | 2012        | 66               | 2035        | S                | 1           | 2163             | 3           | 1980             | 4           | 2026             | 0           | 0                | 8           | 2083             | 8           | 2083             | 1    | 2163 | 11   | 2055 | 12   | 2064 | P    | 2    | 5729 | 32   | 2222 | 34   | 2260 | 0    | NC   | 44   | 1870 | 44    | 1870 | 2    | 2865 | 76   | 2018 | 78   | 2040 |      |      |      |
| 7                  | Jharkhand       | C | Kh. | 1                    | 5337 | 6    | 2341 | 7    | 7677 | 0               | 0           | 13               | 3024        | 13               | 3024        | 1                          | 5337        | 19               | 2808        | 20               | 2935        | S                | 0           | 0                | 0           | 0                | 0           | 0                | 0           | 0                | 12          | 2277             | 12          | 2277             | 0    | 0    | 12   | 2277 | 12   | 2277 | P    | 1    | 0    | 6    | 2341 | 7    | 7677 | 0    | 0    | 25   | 2665 | 25    | 2665 | 1    | 0    | 31   | 2603 | 32   | 2688 |      |      |      |
| 8                  | Karnataka       | C | Kh. | 4                    | 3363 | 18   | 3118 | 22   | 3163 | 0               | 0           | 0                | 0           | 0                | 0           | NC                         | 4           | 3363             | 18          | 3118             | 22          | 3163             | S           | 10               | 3771        | 28               | 3173        | 38               | 3330        | 0                | 0           | 6                | 2465        | 6                | 2465 | 10   | 3771 | 34   | 3131 | 44   | 3276 | P    | 14   | 3654 | 46   | 3151 | 60   | 3269 | 0    | 0    | 6    | 2465  | 6    | NC   | 14   | 3654 | 52   | 3126 | 66   | 3238 |      |      |
| 9                  | Madhya Pradesh  | C | Kh. | 0                    | 0    | 32   | 2087 | 32   | 2087 | 0               | 0           | 48               | 1173        | 48               | 1173        | 0                          | 0           | 80               | 1539        | 80               | 1539        | 66               | 1581        | S                | 0           | 0                | 25          | 2173             | 25          | 2173             | 0           | 0                | 41          | 1219             | 41   | 1219 | 0    | 0    | 66   | 1581 | 66   | 1581 | P    | 0    | 0    | 57   | 2125 | 57   | 2125 | 0    | NC   | 89    | 1194 | 89   | 1194 | 0    | NC   | 146  | 1558 | 146  | 1558 |      |
| 10                 | Odisha          | C | Kh. | 0                    | 0    | 16   | 2630 | 16   | 2630 | 0               | 0           | 24               | 1828        | 24               | 1828        | 0                          | 0           | 40               | 2149        | 40               | 2149        | 40               | 2149        | S                | 0           | 0                | 19          | 2679             | 19          | 2679             | 0           | 0                | 21          | 1679             | 21   | 1679 | 0    | 0    | 40   | 2154 | 40   | 2154 | P    | 0    | 0    | 35   | 2656 | 35   | 2656 | 0    | 0    | 45    | 1759 | 45   | 1759 | 0    | NC   | 80   | 2151 | 80   | 2151 |      |
| 11                 | Punjab          | C | Kh. | 23                   | 4543 | 9    | 2954 | 32   | 4096 | 2               | 1938        | 0                | 0           | 2                | 1938        | 25                         | 4335        | 9                | 2954        | 34               | 3969        | 34               | 3969        | S                | 22          | 3434             | 0           | 0                | 22          | 3434             | 6           | 2599             | 4           | 1782             | 10   | 2272 | 28   | 3255 | 4    | 1782 | 32   | 3071 | P    | 45   | 4001 | 9    | 2954 | 54   | 3826 | 8    | 2434 | 4     | 1782 | 12   | 2217 | 53   | 3764 | 13   | 2593 | 66   | 3534 |      |
| 12                 | Rajasthan       | C | Kh. | 0                    | 0    | 18   | 2531 | 18   | 2531 | 1               | 0           | 28               | 1328        | 29               | 1283        | 1                          | 0           | 46               | 1799        | 47               | 1761        | 47               | 1761        | S                | 0           | 0                | 20          | 1477             | 20          | 1477             | 0           | 0                | 20          | 1089             | 20   | 1089 | 0    | 0    | 40   | 1283 | 40   | 1283 | P    | 0    | 0    | 38   | 1976 | 38   | 1976 | 1    | 0    | 48    | 1229 | 49   | 1204 | 1    | 0    | 86   | 1559 | 87   | 1541 |      |
| 13                 | Tamil Nadu      | C | Kh. | 14                   | 9590 | 24   | 8293 | 38   | 8771 | 2               | 10353       | 0                | 0           | 2                | 0           | 0                          | 16          | 9685             | 24          | 8293             | 40          | 8850             | 40          | 8850             | S           | 16               | 8361        | 18               | 8382        | 34               | 8372        | 0                | 0           | 0                | 0    | 0    | 16   | 8361 | 18   | 8382 | 34   | 8372 | P    | 30   | 8934 | 42   | 8331 | 72   | 8582 | 2    | 0    | 0     | 2    | 0    | 32   | 9023 | 42   | 8331 | 74   | 8630 |      |      |
| 14                 | Telangana       | C | Kh. | 19                   | 5541 | 29   | 4788 | 48   | 5086 | 0               | 0           | 2                | 1785        | 2                | 1785        | 19                         | 5541        | 31               | 4594        | 50               | 4954        | 50               | 4954        | S                | 19          | 6203             | 29          | 4354             | 48          | 5086             | 0           | 0                | 0           | 0                | 0    | NC   | 19   | 6203 | 29   | 4354 | 48   | 5086 | P    | 38   | 5872 | 58   | 4571 | 96   | 5086 | 0    | 0    | 2     | 1785 | 2    | NC   | 38   | 5872 | 60   | 4478 | 98   | 5018 |      |
| 15                 | Uttar Pradesh   | C | Kh. | 78                   | 3238 | 17   | 2070 | 95   | 3029 | 7               | 3765        | 58               | 1469        | 65               | 1716        | 85                         | 3281        | 75               | 1605        | 160              | 2496        | 160              | 2496        | S                | 18          | 3049             | 8           | 2057             | 26          | 2744             | 4           | 2352             | 12          | 993              | 16   | 1333 | 22   | 2922 | 20   | 1419 | 42   | 2206 | P    | 96   | 3202 | 25   | 2066 | 121  | 2968 | 11   | 3251 | 70    | 1387 | 81   | 1641 | 107  | 3208 | 95   | 2399 | 202  | 2436 |      |
| For States Covered |                 |   |     | C                    | 138  | 4163 | 229  | 3319 | 367  | 3636            | 26          | 2997             | 290         | 1856             | 316         | 1950                       | 164         | 3978             | 519         | 2502             | 683         | 2856             | 683         | 2856             | S           | 77               | 4390        | 157              | 3298        | 234              | 3657        | 18               | 2332        | 220              | 1703 | 238  | 1751 | 95   | 4000 | 377  | 2375 | 472  | 2702 | P    | 215  | 4244 | 386  | 3311 | 601  | 3702 | 44   | 2725  | 510  | 1790 | 554  | NC   | 259  | 3986 | 896  | 2448 | 1155 | 2793 |
| RAGI               |                 |   |     |                      |      |      |      |      |      |                 |             |                  |             |                  |             |                            |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |
| 1                  | Karnataka       | C | Kh. | 2                    | 2397 | 13   | 1696 | 15   | 1789 | 1               | 4378        | 8                | 1875        | 9                | 2153        | 3                          | 3057        | 21               | 1764        | 24               | 1926        | 24               | 1926        | S                | 4           | 1927             | 24          | 1232             | 28          | 1331             | 0           | 0                | 6           | 1997             | 6    | 1997 | 4    | 1927 | 30   | 1385 | 34   | 1449 | P    | 6    | 2084 | 37   | 1395 | 43   | 1491 | 1    | 4378 | 14    | 1927 | 15   | 2091 | 7    | 2411 | 51   | 1541 | 58   | 1646 |      |
| 2                  | Uttarakhand     | C | Kh. | 0                    | 0    | 0    | 0    | 0    | 0    | 0               | 0           | 39               | 1437        | 39               | 1437        | 0                          | 0           | 39               | 1437        | 39               | 1437        | 39               | 1437        | S                | 0           | 0                | 0           | 0                | 0           | 0                | 0           | 0                | 40          | 1584             | 40   | 1584 | 0    | 0    | 40   | 1584 | 40   | 1584 | P    | 0    | 0    | 0    | 0    | 0    | 0    | 79   | 1512 | 79    | 1512 | 0    | 0    | 79   | 1512 | 79   | 1512 |      |      |      |
| For States Covered |                 |   |     | C                    | 2    | 2397 | 13   | 2065 | 15   | 4737            | 1           | 9171             | 47          | 2176             | 48          | 0                          | 3           | 0                | 60          | 0                | 63          | 0                | 0           | 0                | S           | 4                | 1927        | 24               | 1553        | 28               | 2691        | 0                | 0           | 46               | 2449 | 46   | 0    | 4    | 0    | 70   | 0    | 74   | 0    | P    | 6    | 2084 | 37   | 1733 | 43   | 3405 | 1    | 16877 | 93   | 2311 | 94   | 0    | 7    | 0    | 130  | 0    | 137  | 0    |
| GROUNDNUT          |                 |   |     |                      |      |      |      |      |      |                 |             |                  |             |                  |             |                            |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |             |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |
| 1                  | Andhra Pradesh  | C | Kh. | 5                    | 3076 | 90   | 1330 | 95   | 1422 | 0               | 0           | 9                | 1000        | 9                | 1000        | 5                          | 3076        | 99               | 1300        | 104              | 1386        | 104              | 1386        | S                | 0           | 0                | 105         | 1423             | 105         | 1423             | 0           | 0                | 1           | 818              | 1    | 818  | 0    | 0    | 106  | 1417 | 106  | 1417 | P    | 5    | 3076 | 195  | 1380 | 200  | 1423 | 0    | 0    | 10    | 982  | 10   | 982  | 5    | 3076 | 205  | 1361 | 210  | 1402 |      |
| 2                  | Gujarat         | C | Kh. | 66                   | 3180 | 43   | 2711 | 109  | 2995 | 11              | 2527        | 6                | 2609        | 17               | 2556        | 77                         | 3087        | 49               | 2699        | 126              | 2936        | 126              | 2936        | S                | 8           | 1902             | 9           | 1759             | 17          | 1826             | 22          | 3078             | 19          | 3540             | 41   | 3292 | 30   | 2764 | 28   | 2968 | 58   | 2862 | P    | 74   | 3042 | 52   | 2007 | 126  | 2837 | 33   | 2880 | 25    | 3316 | 58   | 3076 | 107  | 2740 | 77   | 2797 | 184  | 2913 |      |
| 3                  | Karnataka       | C | Kh. | 2                    | 2042 | 20   | 997  | 22   | 1453 | 4               | 1259        | 8                | 809         | 12               | 709         | 6                          | 1520        | 28               | 944         | 34               | 1281        | 34               | 1281        | S                | 10          | 713              | 52          | 863              | 62          | 839              | 0           | 0                | 1           | 1466             | 1    | 1397 | 10   | 713  | 53   | 874  | 63   | 849  | P    | 12   | 922  | 72   | 900  | 84   | 9740 | 4    | 1259 | 9     | 993  | 13   | 1053 | 16   | 988  | 81   | 898  | 97   | 913  |      |
| 4                  | Madhya Pradesh  | C | Kh. | 2                    | 2059 | 8    | 980  | 10   | 1196 | 2               | 1068        | 28               | 934         | 30               | 943         | 4                          | 1563        | 36               | 945         | 40               | 1006        | 40               | 1006        | S                | 0           | 0                | 6           | 1406             | 6           | 1406             | 0           | 0                | 20          | 1360             | 20   | 1360 | 0    | 0    | 26   | 1371 | 26   | 1371 | P    | 2    | 0    | 14   | 1163 | 16   | 1275 | 2    | 1068 | 48    | 1112 | 50   | 1110 | 4    | 1563 | 62   | 1123 | 66   | 1150 |      |
| 5                  | Maharashtra     | C | Kh. | 3                    | 310  | 14   | 770  | 17   | 689  | 0               | 0           | 0                | 0           | 0                | NC          | 3                          | 310         | 14               | 770         | 17               | 689         | 17               | 689         | S                | 3           | 1214             | 5           | 839              | 8           | 980              | 6           | 833              | 6           | 686              | 12   | 759  | 9    | 960  | 11   | 755  | 20   | 847  | P    | 6    | 762  | 19   | 788  | 25   | 782  | 6    | 0    | 6     | 686  | 12   | NC   | 12   | 798  | 25   | 764  | 37   | 775  |      |
| 6                  | Rajasthan       | C | Kh. | 22                   | 2123 | 0    | 0    | 22   | 2123 | 6               | 2565        | 4                | 2538        | 10               | 2554        | 28                         | 2218        | 4                | 2538        | 32               | 2258        | 32               | 2258        | S                | 4           | 1720             | 0           | 0                | 4           | 1720             | 7           | 1739             | 9           | 1246             | 16   | 1461 | 11   | 1732 | 9    | 1246 | 20   | 1513 | P    | 26   | 2061 | 0    | NC   | 26   | 2061 | 13   | 2120 | 13    | 1644 | 26   | 1882 | 39   | 2081 | 13   | 1644 | 52   | 1971 |      |
| 7                  | Tamil Nadu      | C | **  | 6                    | 2796 | 30   | 2972 | 36   | 2942 | 0               | 0           | 0                | 0           | 0                | NC          | 6                          | 2796        | 30               | 2972        | 36               | 2942        | 36               | 2942        | S                | 8           | 2639             | 21          | 2104             | 29          | 2252             | 0           | 0                | 2           | 3680             | 2    | 3680 | 8    | 2639 | 23   | 2241 | 31   | 2344 | P    | 14   | 2706 | 51   | 2614 | 65   | 2634 | 0    | 0    | 2     | 3680 | 2    | NC   | 14   | 2706 | 53   | 2655 | 67   | 2665 |      |
| 8                  | Telangana       | C | Kh. | 27                   | 2971 | 8    | 3118 | 35   | 3005 | 4               | 6074        | 1                | 2818        | 5                | 5423        | 31                         | 3372        | 9                | 3085        | 40               | 3307        | 40               | 3307        | S                | 25          | 2498             | 8           | 1751             | 33          | 2317             | 6           | 3952             | 1           | 2621             | 7    | 3762 | 31   | 2779 | 9    | 1848 | 40   | 2570 | P    | 52   | 2026 | 16   | 2435 | 68   | 2671 | 10   | 0    | 2     | 2720 | 12   | 4454 | 62   | 2026 | 18   | 2466 | 80   | 2938 |      |

| Sl. No.            | State            | A G E N C Y | S E A S O N | High Yield Varieties |                  |             |                  |             |                  | Other Varieties |                  |             |                  |             |                  | Both HYV & Other varieties |                  |             |                  |             |                  |
|--------------------|------------------|-------------|-------------|----------------------|------------------|-------------|------------------|-------------|------------------|-----------------|------------------|-------------|------------------|-------------|------------------|----------------------------|------------------|-------------|------------------|-------------|------------------|
|                    |                  |             |             | Irrigated            |                  | Unirrigated |                  | Total       |                  | Irrigated       |                  | Unirrigated |                  | Total       |                  | Irrigated                  |                  | Unirrigated |                  | Total       |                  |
|                    |                  |             |             | No. Of Exp.          | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.     | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.                | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha |
|                    |                  |             |             | 5                    | 6                | 7           | 8                | 9           | 10               | 11              | 12               | 13          | 14               | 15          | 16               | 17                         | 18               | 19          | 20               | 21          | 22               |
| 1                  | 2                | 3           | 4           | 5                    | 6                | 7           | 8                | 9           | 10               | 11              | 12               | 13          | 14               | 15          | 16               | 17                         | 18               | 19          | 20               | 21          | 22               |
| For States Covered |                  | C           |             | 106                  | 2810             | 205         | 1776             | 311         | 2154             | 23              | 2189             | 55          | 1226             | 78          | NC               | 129                        | 2699             | 260         | 1659             | 389         | 1913             |
|                    |                  | S           |             | 33                   | 1636             | 198         | 1348             | 231         | 1389             | 35              | 2425             | 58          | 2059             | 93          | 2196             | 68                         | 2042             | 256         | 1509             | 324         | 1621             |
|                    |                  | P           |             | 139                  | 2531             | 403         | 1566             | 542         | 1828             | 58              | 2332             | 113         | 1654             | 171         | NC               | 197                        | 2472             | 516         | 1585             | 713         | 1780             |
| SUGARCANE          |                  |             |             |                      |                  |             |                  |             |                  |                 |                  |             |                  |             |                  |                            |                  |             |                  |             |                  |
| 1                  | Andhra Pradesh   | C           | Kh.         | 31                   | 95994            | 0           | 0                | 31          | 95994            | 26              | 77194            | 0           | 0                | 26          | 77194            | 57                         | 87419            | 0           | 0                | 57          | 87419            |
|                    |                  | S           |             | 43                   | 90118            | 2           | 72600            | 45          | 89339            | 3               | 90133            | 0           | 0                | 3           | 90133            | 46                         | 90119            | 2           | 72600            | 48          | 89389            |
|                    |                  | P           |             | 74                   | 92579            | 2           | 72600            | 76          | 92054            | 29              | 78532            | 0           | NC               | 29          | 78532            | 103                        | 88624            | 2           | 72600            | 105         | 88319            |
| 2                  | Assam            | C           | Kh.         | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 4           | 43255            | 4           | 43255            | 0                          | 0                | 4           | 43255            | 4           | 43255            |
|                    |                  | S           |             | 0                    | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 16          | 28916            | 16          | 28916            | 0                          | 0                | 16          | 28916            | 16          | 28916            |
|                    |                  | P           |             | 0                    | 0                | 0           | NC               | 0           | NC               | 0               | 0                | 20          | 31784            | 20          | 31784            | 0                          | 0                | 20          | 31784            | 20          | 31784            |
| 3                  | Bihar            | C           | Kh.         | 4                    | 69940            | 0           | 0                | 4           | 69940            | 7               | 20103            | 22          | 69655            | 29          | 57694            | 11                         | 38226            | 22          | 69655            | 33          | 59178            |
|                    |                  | S           |             | 8                    | 54020            | 0           | 0                | 5           | 56960            | 6               | 62133            | 2           | 75410            | 8           | 65452            | 13                         | 55151            | 6           | 62133            | 19          | 57356            |
|                    |                  | P           |             | 12                   | 59327            | 0           | NC               | 9           | 62729            | 13              | 39502            | 24          | 70134            | 37          | 59371            | 24                         | 47393            | 28          | 68043            | 52          | 58512            |
| 4                  | Haryana          | C           | Kh.         | 33                   | 74239            | 1           | 92000            | 34          | 74762            | 0               | 0                | 0           | 0                | 0           | NC               | 33                         | 74239            | 1           | 92000            | 34          | 74762            |
|                    |                  | S           |             | 20                   | 73417            | 0           | 0                | 20          | 73417            | 0               | 0                | 0           | 0                | 0           | 0                | 20                         | 73417            | 0           | 0                | 20          | 73417            |
|                    |                  | P           |             | 53                   | 73929            | 1           | 92000            | 54          | 74264            | 0               | NC               | 0           | 0                | 0           | NC               | 53                         | 73929            | 1           | 92000            | 54          | 74264            |
| 5                  | Karnataka        | C           | Kh.         | 18                   | 90901            | 0           | 0                | 18          | 90901            | 1               | 16080            | 0           | 0                | 1           | 16080            | 19                         | 86963            | 0           | 0                | 19          | 86963            |
|                    |                  | S           |             | 23                   | 93035            | 1           | 165600           | 24          | 96059            | 0               | 0                | 7           | 43731            | 7           | 0                | 23                         | 93035            | 8           | 58965            | 31          | 84243            |
|                    |                  | P           |             | 41                   | 92098            | 1           | 0                | 42          | 89905            | 1               | 16080            | 7           | 0                | 8           | 2010             | 42                         | 90288            | 8           | 58965            | 50          | 85276            |
| 6                  | Maharashtra      | C           | Kh.         | 18                   | 90977            | 0           | 0                | 18          | 90977            | 1               | 12000            | 0           | 0                | 1           | 12000            | 19                         | 86820            | 0           | 0                | 19          | 86820            |
|                    |                  | S           |             | 21                   | 88563            | 2           | 52620            | 23          | 85437            | 2               | 98600            | 2           | 140400           | 4           | 119500           | 23                         | 89435            | 4           | 96510            | 27          | 90483            |
|                    |                  | P           |             | 39                   | 89677            | 2           | 52620            | 41          | 87869            | 3               | 69733            | 2           | 140400           | 5           | 98000            | 42                         | 88252            | 4           | 96510            | 46          | 88970            |
| 7                  | Punjab           | C           | Kh.         | 47                   | 81578            | 0           | 0                | 47          | 81578            | 5               | 68080            | 0           | 0                | 5           | 68080            | 52                         | 80280            | 0           | 0                | 52          | 80280            |
|                    |                  | S           |             | 31                   | 83031            | 1           | 76000            | 32          | 82811            | 0               | 0                | 0           | 0                | 0           | 0                | 31                         | 83031            | 1           | 76000            | 32          | 82811            |
|                    |                  | P           |             | 78                   | 82155            | 1           | 0                | 79          | 82077            | 5               | 68080            | 0           | 0                | 5           | 68080            | 83                         | 81307            | 1           | 0                | 84          | 81244            |
| 8                  | Rajasthan        | C           | Kh.         | 11                   | 61475            | 0           | 0                | 11          | 61475            | 14              | 68874            | 0           | 0                | 14          | 68874            | 25                         | 65619            | 0           | 0                | 25          | 65619            |
|                    |                  | S           |             | 15                   | 78144            | 0           | 0                | 15          | 78144            | 10              | 66232            | 0           | 0                | 10          | 66232            | 25                         | 73379            | 0           | 0                | 25          | 73379            |
|                    |                  | P           |             | 26                   | 71092            | 0           | NC               | 26          | 71092            | 24              | 67773            | 0           | 0                | 24          | 67773            | 50                         | 69499            | 0           | NC               | 50          | 69499            |
| 9                  | Tamil Nadu       | C           | **          | 27                   | 106579           | 1           | 206800           | 28          | 110159           | 0               | 0                | 0           | 0                | 0           | 0                | 27                         | 106579           | 1           | 206800           | 28          | 110159           |
|                    |                  | S           |             | 28                   | 94546            | 2           | 102500           | 30          | 95077            | 0               | 0                | 0           | 0                | 0           | 0                | 28                         | 94546            | 2           | 102500           | 30          | 95077            |
|                    |                  | P           |             | 55                   | 100453           | 3           | 0                | 58          | 102358           | 0               | 0                | 0           | 0                | 0           | 0                | 55                         | 100453           | 3           | 0                | 58          | 102358           |
| 10                 | Uttar Pradesh    | C           | Kh.         | 104                  | 90278            | 3           | 94133            | 107         | 90386            | 74              | 80631            | 11          | 66815            | 85          | 78843            | 178                        | 86268            | 14          | 72669            | 192         | 85276            |
|                    |                  | S           |             | 14                   | 94400            | 0           | 0                | 14          | 0                | 0               | 0                | 0           | 0                | 0           | 0                | 14                         | 94400            | 0           | 0                | 14          | 0                |
|                    |                  | P           |             | 118                  | 90767            | 3           | 94133            | 121         | 79928            | 74              | 80631            | 11          | 0                | 85          | 78843            | 192                        | 86860            | 14          | 0                | 206         | 79480            |
| 11                 | Uttarakhand      | C           | Kh.         | 26                   | 72132            | 1           | 44000            | 27          | 71090            | 1               | 120600           | 0           | 0                | 1           | 120600           | 27                         | 73927            | 1           | 44000            | 28          | 72858            |
|                    |                  | S           |             | 0                    | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 0           | 0                | 0           | 0                | 0                          | 0                | 0           | 0                | 0           | 0                |
|                    |                  | P           |             | 26                   | 72132            | 1           | 0                | 27          | 71090            | 1               | 120600           | 0           | 0                | 1           | 120600           | 27                         | 73927            | 1           | 0                | 28          | 72858            |
| For States Covered |                  | C           |             | 319                  | 86619            | 6           | 104200           | 325         | NC               | 129             | 74169            | 37          | 65956            | 166         | NC               | 448                        | 83034            | 43          | 71293            | 491         | 82006            |
|                    |                  | S           |             | 203                  | 86159            | 8           | 87130            | 208         | 80376            | 21              | 71558            | 27          | 44459            | 48          | 49937            | 223                        | 84775            | 39          | 54344            | 262         | 75201            |
|                    |                  | P           |             | 522                  | 86440            | 14          | 94446            | 533         | NC               | 150             | 73803            | 64          | 56887            | 214         | NC               | 671                        | 83613            | 82          | 63232            | 753         | 79638            |
| WHEAT              |                  |             |             |                      |                  |             |                  |             |                  |                 |                  |             |                  |             |                  |                            |                  |             |                  |             |                  |
| 1                  | Assam            | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |
|                    |                  | S           |             | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 2           | 1225             | 2           | 1225             | 0                          | 0                | 2           | 1225             | 2           | 1225             |
|                    |                  | P           |             | 0                    | 0                | 0           | NC               | 0           | NC               | 0               | 0                | 2           | 1225             | 2           | NC               | 0                          | 0                | 2           | 1225             | 2           | NC               |
| 2                  | Bihar            | C           | Rabi        | 2                    | 1736             | 0           | 0                | 2           | 1736             | 2               | 3676             | 0           | 0                | 2           | 3676             | 4                          | 2706             | 0           | 0                | 4           | 2706             |
|                    |                  | S           |             | 41                   | 2663             | 1           | 2200             | 42          | 2652             | 35              | 2404             | 3           | 808              | 38          | 2278             | 76                         | 2544             | 4           | 1186             | 80          | 2476             |
|                    |                  | P           |             | 43                   | 2620             | 1           | 2200             | 44          | 2610             | 37              | 2472             | 3           | 808              | 40          | 2348             | 80                         | 2552             | 4           | 1186             | 84          | 2487             |
| 3                  | Chhattisgarh     | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |
|                    |                  | S           |             | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |
|                    |                  | P           |             | 0                    | NC               | 0           | NC               | 0           | NC               | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | NC               | 0           | NC               | 0           | NC               |
| 4                  | Gujarat          | C           | Rabi        | 29                   | 3452             | 4           | 1000             | 33          | 3154             | 5               | 3884             | 2           | 632              | 7           | 2955             | 34                         | 3515             | 6           | 877              | 40          | 3120             |
|                    |                  | S           |             | 26                   | 3240             | 0           | 0                | 26          | 3240             | 14              | 2962             | 0           | 0                | 14          | 2962             | 40                         | 3142             | 0           | 0                | 40          | 3142             |
|                    |                  | P           |             | 55                   | 3351             | 4           | 1000             | 59          | 3192             | 19              | 3205             | 2           | 632              | 21          | 2960             | 74                         | 3314             | 6           | 877              | 80          | 3131             |
| 5                  | Haryana          | C           | Rabi        | 1                    | 4839             | 0           | 0                | 1           | 4839             | 0               | 0                | 0           | 0                | 0           | NC               | 1                          | 4881             | 0           | 0                | 1           | 4881             |
|                    |                  | S           |             | 85                   | 4858             | 0           | 0                | 85          | 4858             | 1               | 4440             | 0           | 0                | 1           | 0                | 86                         | 4853             | 0           | 0                | 86          | 4853             |
|                    |                  | P           |             | 86                   | 4858             | 0           | 0                | 86          | 4858             | 1               | 4440             | 0           | 0                | 1           | NC               | 87                         | 4853             | 0           | 0                | 87          | 4853             |
| 6                  | Himachal Pradesh | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |
|                    |                  | S           |             | 0                    | 0                | 2           | 2391             | 2           | 2391             | 0               | 0                | 12          | 2433             | 12          | 2433             | 0                          | 0                | 14          | 2427             | 14          | 2427             |
|                    |                  | P           |             | 0                    | NC               | 2           | 2391             | 2           | NC               | 0               | NC               | 12          | 2433             | 12          | NC               | 0                          | NC               | 14          | 2427             | 14          | NC               |
| 7                  | Jammu & Kashmir  | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |
|                    |                  | S           |             | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |
|                    |                  | P           |             | 0                    | NC               | 0           | NC               | 0           | NC               | 0               | NC               | 0           | NC               | 0           | NC               | 0                          | NC               | 0           | NC               | 0           | NC               |
| 8                  | Jharkhand        | C           | Rabi        | 2                    | 1852             | 0           | 0                | 2           | 1852             | 0               | 0                | 0           | 0                | 0           | NC               | 2                          | 1852             | 0           | 0                | 2           | 1852             |
|                    |                  | S           |             | 4                    | 641              | 0           | 0                | 4           | 0                | 4               | 1288             | 24          | 2219             | 28          | 2086             | 8                          | 964              | 24          | 2219             | 32          | 1905             |
|                    |                  | P           |             | 6                    | 1044             | 0           | 0                | 6           | 617              | 4               | 1288             | 24          | 2219             | 28          | NC               | 10                         | 1142             | 24          | 2219             | 34          | 1902             |
| 9                  | Karnataka        | C           | Rabi        | 15                   | 1581             | 6           | 1025             | 21          | 1422             | 7               | 1512             | 6           | 1197             | 13          |                  |                            |                  |             |                  |             |                  |

| Sl. No. | State              | A G E N C Y | S E A S O N | High Yield Varieties |                  |             |                  |             |                  | Other Varieties |                  |             |                  |             |                  | Both HYV & Other varieties |                  |             |                  |             |                  |
|---------|--------------------|-------------|-------------|----------------------|------------------|-------------|------------------|-------------|------------------|-----------------|------------------|-------------|------------------|-------------|------------------|----------------------------|------------------|-------------|------------------|-------------|------------------|
|         |                    |             |             | Irrigated            |                  | Unirrigated |                  | Total       |                  | Irrigated       |                  | Unirrigated |                  | Total       |                  | Irrigated                  |                  | Unirrigated |                  | Total       |                  |
|         |                    |             |             | No. Of Exp.          | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.     | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.                | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha |
| 1       | 2                  | 3           | 4           | 5                    | 6                | 7           | 8                | 9           | 10               | 11              | 12               | 13          | 14               | 15          | 16               | 17                         | 18               | 19          | 20               | 21          | 22               |
| 10      | Madhya Pradesh     | C           | Rabi        | 22                   | 3939             | 0           | 0                | 22          | 3939             | 5               | 3056             | 10          | 1669             | 15          | 2132             | 27                         | 3776             | 10          | 1669             | 37          | 3206             |
|         |                    | S           |             | 63                   | 3715             | 5           | 2800             | 68          | 3648             | 44              | 3245             | 46          | 2459             | 90          | 2843             | 107                        | 3522             | 51          | 2492             | 158         | 3189             |
|         |                    | P           |             | 85                   | 3773             | 5           | 2800             | 90          | 3719             | 49              | 3226             | 56          | 2318             | 105         | 2741             | 134                        | 3573             | 61          | 2357             | 195         | 3193             |
| 11      | Maharashtra        | C           | Rabi        | 33                   | 1850             | 5           | 492              | 38          | 1671             | 1               | 1405             | 0           | 0                | 1           | 1405             | 34                         | 1837             | 5           | 492              | 39          | 1664             |
|         |                    | S           |             | 37                   | 1629             | 2           | 903              | 39          | 1592             | 17              | 1464             | 2           | 1047             | 19          | 1420             | 54                         | 1570             | 4           | 975              | 58          | 1529             |
|         |                    | P           |             | 70                   | 1733             | 7           | 609              | 77          | 1631             | 18              | 1461             | 2           | 1047             | 20          | 1419             | 88                         | 1673             | 9           | 707              | 97          | 1584             |
| 12      | Punjab             | C           | Rabi        | 4                    | 4114             | 0           | 0                | 4           | 4114             | 0               | 0                | 0           | 0                | 0           | NC               | 4                          | 4114             | 0           | 0                | 4           | 4114             |
|         |                    | S           |             | 96                   | 5015             | 0           | 0                | 96          | 5015             | 9               | 4610             | 0           | 0                | 9           | 4610             | 105                        | 4681             | 0           | 0                | 105         | 4681             |
|         |                    | P           |             | 100                  | 4979             | 0           | NC               | 100         | 4979             | 9               | 4610             | 0           | NC               | 9           | NC               | 109                        | 4660             | 0           | NC               | 109         | 4660             |
| 13      | Rajasthan          | C           | Rabi        | 4                    | 2528             | 1           | 507              | 5           | 2124             | 2               | 3302             | 0           | 0                | 2           | 3302             | 6                          | 2786             | 1           | 507              | 7           | 2461             |
|         |                    | S           |             | 48                   | 4143             | 0           | 0                | 48          | 4143             | 22              | 3037             | 0           | 0                | 22          | 3037             | 70                         | 3795             | 0           | 0                | 70          | 3795             |
|         |                    | P           |             | 52                   | 4019             | 1           | 0                | 53          | 3952             | 24              | 3059             | 0           | NC               | 24          | 3059             | 76                         | 3716             | 1           | 507              | 77          | 3674             |
| 14      | Uttar Pradesh      | C           | Rabi        | 26                   | 4019             | 0           | 0                | 26          | 4019             | 6               | 4192             | 0           | 0                | 6           | 4192             | 32                         | 4052             | 0           | 0                | 32          | 4052             |
|         |                    | S           |             | 71                   | 3446             | 0           | 0                | 71          | 3446             | 6               | 3158             | 0           | 0                | 6           | 3158             | 77                         | 3424             | 0           | 0                | 77          | 3424             |
|         |                    | P           |             | 97                   | 3600             | 0           | NC               | 97          | 3600             | 12              | 3675             | 0           | NC               | 12          | 3675             | 109                        | 3608             | 0           | NC               | 109         | 3608             |
| 15      | Uttarakhand        | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |
|         |                    | S           |             | 19                   | 3435             | 0           | 0                | 19          | 3435             | 11              | 2440             | 16          | 1737             | 27          | 2023             | 30                         | 3070             | 16          | 0                | 46          | 2002             |
|         |                    | P           |             | 19                   | 3435             | 0           | NC               | 19          | NC               | 11              | 2440             | 16          | 1737             | 27          | NC               | 30                         | 3070             | 16          | 0                | 46          | NC               |
| 16      | West Bengal        | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | 0                | 0                          | 0                | 0           | 0                | 0           | NC               |
|         |                    | S           |             | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | 0                | 0                          | 0                | 0           | 0                | 0           | NC               |
|         |                    | P           |             | 0                    | NC               | 0           | NC               | 0           | NC               | 0               | 0                | 0           | 0                | 0           | 0                | 0                          | 0                | 0           | 0                | 0           | NC               |
|         | For States Covered | C           | Rabi        | 138                  | 3004             | 16          | 820              | 154         | NC               | 28              | 3064             | 18          | 1397             | 46          | NC               | 166                        | 3015             | 34          | 1125             | 200         | NC               |
|         |                    | S           |             | 507                  | 3785             | 18          | 1843             | 525         | NC               | 170             | 2759             | 113         | 2068             | 283         | NC               | 677                        | 3481             | 131         | 1826             | 808         | NC               |
|         |                    | P           |             | 645                  | 3618             | 34          | 1361             | 679         | NC               | 198             | 2802             | 131         | 1976             | 329         | NC               | 843                        | 3389             | 165         | 1682             | 1008        | NC               |
| BARLEY  |                    |             |             |                      |                  |             |                  |             |                  |                 |                  |             |                  |             |                  |                            |                  |             |                  |             |                  |
| 1       | Haryana            | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |
|         |                    | S           |             | 16                   | 4250             | 0           | 0                | 16          | 4250             | 0               | 0                | 0           | 0                | 0           | 0                | 16                         | 4250             | 0           | 0                | 16          | 4250             |
|         |                    | P           |             | 16                   | 4250             | 0           | NC               | 16          | NC               | 0               | NC               | 0           | 0                | 0           | NC               | 16                         | 4250             | 0           | NC               | 16          | NC               |
| 2       | Himachal Pradesh   | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |
|         |                    | S           |             | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 6           | 1813             | 6           | 1813             | 0                          | 0                | 6           | 1813             | 6           | 1813             |
|         |                    | P           |             | 0                    | 0                | 0           | NC               | 0           | NC               | 0               | NC               | 6           | 1813             | 6           | NC               | 0                          | NC               | 6           | 1813             | 6           | NC               |
| 3       | Punjab             | C           | Rabi        | 26                   | 4044             | 0           | 0                | 26          | 4044             | 4               | 3696             | 0           | 0                | 4           | 3696             | 30                         | 3998             | 0           | 0                | 30          | 3998             |
|         |                    | S           |             | 26                   | 4301             | 0           | 0                | 26          | 4301             | 0               | 0                | 0           | 0                | 0           | 26               | 4301                       | 0                | 0           | 26               | 4301        |                  |
|         |                    | P           |             | 52                   | 4173             | 0           | 0                | 52          | 4173             | 4               | 3696             | 0           | 0                | 4           | 3696             | 56                         | 4139             | 0           | 0                | 56          | 4139             |
| 4       | Rajasthan          | C           | Rabi        | 8                    | 3426             | 0           | 0                | 8           | 3426             | 3               | 2968             | 0           | 0                | 3           | 2968             | 11                         | 3301             | 0           | 0                | 11          | 3301             |
|         |                    | S           |             | 16                   | 4050             | 1           | 1137             | 17          | 3879             | 39              | 3476             | 0           | 0                | 39          | 3476             | 55                         | 3642             | 1           | 1137             | 56          | 3597             |
|         |                    | P           |             | 24                   | 3842             | 1           | 0                | 25          | 3734             | 42              | 3439             | 0           | 0                | 42          | 3439             | 66                         | 3585             | 1           | 0                | 67          | 3549             |
|         | For States Covered | C           |             | 34                   | 3899             | 0           | 0                | 34          | NC               | 7               | 3384             | 0           | NC               | 7           | NC               | 41                         | 3811             | 0           | NC               | 41          | NC               |
|         |                    | S           |             | 58                   | 4218             | 1           | 0                | 59          | NC               | 39              | 3476             | 6           | 1813             | 45          | 3254             | 97                         | 3919             | 7           | 1716             | 104         | 3771             |
|         |                    | P           |             | 92                   | 4100             | 1           | 0                | 93          | NC               | 46              | 3462             | 6           | 1813             | 52          | NC               | 138                        | 3887             | 7           | 1716             | 145         | NC               |
| GRAM    |                    |             |             |                      |                  |             |                  |             |                  |                 |                  |             |                  |             |                  |                            |                  |             |                  |             |                  |
| 1       | Andhra Pradesh     | C           | Rabi        | 6                    | 1413             | 49          | 1233             | 55          | 1253             | 0               | 0                | 2           | 1236             | 2           | 1236             | 6                          | 1413             | 51          | 1233             | 57          | 1252             |
|         |                    | S           |             | 0                    | 0                | 58          | 1287             | 58          | 1287             | 0               | 0                | 0           | 0                | 0           | 0                | 0                          | 0                | 58          | 1287             | 58          | 1287             |
|         |                    | P           |             | 6                    | 1413             | 107         | 1262             | 113         | 1270             | 0               | 0                | 2           | 0                | 2           | 0                | 6                          | 1413             | 109         | 1262             | 115         | 1270             |
| 2       | Bihar              | C           | Rabi        | 2                    | 424              | 0           | 0                | 2           | 424              | 0               | 0                | 0           | 0                | 0           | NC               | 2                          | 424              | 0           | 0                | 2           | 424              |
|         |                    | S           |             | 0                    | 0                | 0           | 0                | 0           | NC               | 2               | 625              | 17          | 842              | 19          | 819              | 2                          | 625              | 17          | 842              | 19          | 819              |
|         |                    | P           |             | 2                    | 424              | 0           | NC               | 2           | NC               | 2               | 625              | 17          | 842              | 19          | NC               | 4                          | 524              | 17          | 842              | 21          | 782              |
| 3       | Chhattisgarh       | C           | Rabi        | 2                    | 87               | 0           | 0                | 2           | 87               | 0               | 0                | 0           | 0                | 0           | NC               | 2                          | 87               | 0           | 0                | 2           | 87               |
|         |                    | S           |             | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |
|         |                    | P           |             | 2                    | 87               | 0           | NC               | 2           | NC               | 0               | NC               | 0           | NC               | 0           | NC               | 2                          | 87               | 0           | NC               | 2           | NC               |
| 4       | Gujarat            | C           | Rabi        | 3                    | 1650             | 8           | 1262             | 11          | 1368             | 4               | 1338             | 0           | 0                | 4           | 1338             | 7                          | 1471             | 8           | 1262             | 15          | 1360             |
|         |                    | S           |             | 2                    | 1266             | 0           | 0                | 2           | 0                | 0               | 0                | 0           | 0                | 0           | NC               | 2                          | 1266             | 0           | 0                | 2           | 1266             |
|         |                    | P           |             | 5                    | 1496             | 8           | 1262             | 13          | 1157             | 4               | 1338             | 0           | NC               | 4           | NC               | 9                          | 1426             | 8           | 1262             | 17          | 1349             |
| 5       | Haryana            | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |
|         |                    | S           |             | 16                   | 1539             | 6           | 1232             | 22          | 1455             | 2               | 1003             | 0           | 0                | 2           | 1003             | 18                         | 1480             | 6           | 1232             | 24          | 1418             |
|         |                    | P           |             | 16                   | 1539             | 6           | 1232             | 22          | NC               | 2               | 1003             | 0           | NC               | 2           | NC               | 18                         | 1480             | 6           | 1232             | 24          | NC               |
| 6       | Jharkhand          | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 2           | 223              | 2           | 223              | 0                          | 0                | 2           | 223              | 2           | 223              |
|         |                    | S           |             | 2                    | 228              | 0           | 0                | 2           | 0                | 0               | 0                | 6           | 1398             | 6           | 1398             | 2                          | 228              | 6           | 1398             | 8           | 1106             |
|         |                    | P           |             | 2                    | 0                | 0           | 0                | 2           | 0                | 0               | NC               | 8           | 1104             | 8           | 1104             | 2                          | 228              | 8           | 1104             | 10          | 929              |
| 7       | Karnataka          | C           | Rabi        | 3                    | 745              | 6           | 726              | 9           | 733              | 4               | 653              | 16          | 629              | 20          | 634              | 7                          | 693              | 22          | 656              | 29          | 665              |
|         |                    | S           |             | 7                    | 845              | 22          | 882              | 29          | 873              | 1               | 631              | 10          | 664              | 11          | 661              | 8                          | 819              | 32          | 813              | 40          | 814              |
|         |                    | P           |             | 10                   | 815              | 28          | 848              | 38          | 840              | 5               | 649              | 26          | 643              | 31          | 643              | 15                         | 760              | 54          | 749              | 69          | 751              |
| 8       | Madhya Pradesh     | C           | Rabi        | 8                    | 1801             | 1           | 2307             | 9           | 1857             | 14              | 1209             | 15          | 957              | 29          | 1079             | 22                         | 1424             | 16          | 1042             | 38          | 1263             |
|         |                    | S           |             | 16                   | 1636             | 4           | 1219             | 20          | 1553             | 18              | 1494             | 40          | 1212             | 58          | 1300             | 34                         | 1561             | 44          | 1213             | 78          | 1365             |
|         |                    | P           |             | 24                   | 1691             | 5           | 1436             | 29          | 1647             | 32              | 1369             | 55          | 1143             | 87          | 1226             | 56                         | 1507             | 60          | 1167             | 116         | 1331             |
| 9       | Maharashtra        | C           | Rabi        | 17                   | 1365             | 23          | 1329             | 40          | 1344             | 4               | 530              | 2           | 531              | 6           | 530              | 21                         | 1206             | 25          | 1265             | 46          | 1238             |
|         |                    | S           |             | 22                   | 1319             | 10          | 793              | 32          | 1155             | 6               | 1147             | 8           | 834              | 14          | 968              | 28                         | 1283             | 18          | 811              | 46          | 1098             |
|         |                    | P           |             | 39                   | 1339             | 33          | 1166             | 72          | 1260             | 10              | 900              | 10          | 773              | 20          | 837              | 49                         | 1250             | 43          | 1075             | 92          | 1168             |

| Sl. No.                   | State          | A G E N C Y | S E A S O N | High Yield Varieties |                  |             |                  |             |                  | Other Varieties |                  |             |                  |             |                  | Both HYV & Other varieties |                  |             |                  |             |                  |    |
|---------------------------|----------------|-------------|-------------|----------------------|------------------|-------------|------------------|-------------|------------------|-----------------|------------------|-------------|------------------|-------------|------------------|----------------------------|------------------|-------------|------------------|-------------|------------------|----|
|                           |                |             |             | Irrigated            |                  | Unirrigated |                  | Total       |                  | Irrigated       |                  | Unirrigated |                  | Total       |                  | Irrigated                  |                  | Unirrigated |                  | Total       |                  |    |
|                           |                |             |             | No. Of Exp.          | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.     | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp.                | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha | No. Of Exp. | Yield Rate Kg/ha |    |
| 1                         | 2              | 3           | 4           | 5                    | 6                | 7           | 8                | 9           | 10               | 11              | 12               | 13          | 14               | 15          | 16               | 17                         | 18               | 19          | 20               | 21          | 22               |    |
| 10                        | Punjab         | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 0           | 0                | 0           | NC               |    |
|                           |                | S           |             | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | 0                | 0                          | 0                | 0           | 0                | 0           | 0                | NC |
|                           |                | P           |             | 0                    | NC               | 0           | NC               | 0           | NC               | 0               | NC               | 0           | NC               | 0           | NC               | 0                          | NC               | 0           | NC               | 0           | NC               | 0  |
| 11                        | Rajasthan      | C           | Rabi        | 3                    | 1456             | 3           | 787              | 6           | 1121             | 4               | 876              | 19          | 1038             | 23          | 1010             | 7                          | 1124             | 22          | 1004             | 29          | 1033             |    |
|                           |                | S           |             | 9                    | 1446             | 0           | 0                | 9           | 1446             | 23              | 1492             | 32          | 1241             | 55          | 1346             | 32                         | 1479             | 32          | 1241             | 64          | 1360             |    |
|                           |                | P           |             | 12                   | 1449             | 3           | 787              | 15          | 1316             | 27              | 1401             | 51          | 1165             | 78          | 1247             | 39                         | 1415             | 54          | 1144             | 93          | 1258             |    |
| 12                        | Uttar Pradesh  | C           | Rabi        | 0                    | 0                | 2           | 911              | 2           | 911              | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 2           | 911              | 2           | 911              |    |
|                           |                | S           |             | 0                    | 0                | 4           | 990              | 4           | 990              | 0               | 0                | 0           | 0                | 0           | NC               | 0                          | 0                | 4           | 990              | 4           | 990              |    |
|                           |                | P           |             | 0                    | NC               | 6           | 964              | 6           | 964              | 0               | NC               | 0           | NC               | 0           | NC               | 0                          | NC               | 6           | 964              | 6           | 964              |    |
| For States Covered        | C              | Rabi        | 44          | 1333                 | 92               | 1217        | 136              | NC          | 30               | 1017            | 56               | 860         | 86               | NC          | 74               | 1205                       | 148              | 1081        | 222              | 1123        |                  |    |
|                           | S              |             | 74          | 1375                 | 104              | 1136        | 178              | NC          | 52               | 1384            | 113              | 1099        | 165              | NC          | 126              | 1379                       | 217              | 1117        | 343              | 1213        |                  |    |
|                           | P              |             | 118         | 1359                 | 196              | 1174        | 314              | NC          | 82               | 1250            | 169              | 1020        | 251              | NC          | 200              | 1314                       | 365              | 1103        | 565              | 1178        |                  |    |
| <b>RAPE &amp; MUSTARD</b> |                |             |             |                      |                  |             |                  |             |                  |                 |                  |             |                  |             |                  |                            |                  |             |                  |             |                  |    |
| 1                         | Assam          | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 50          | 612              | 50          | 612              | 0                          | 0                | 50          | 612              | 50          | 612              |    |
|                           |                | S           |             | 0                    | 0                | 0           | 0                | 0           | 0                | 2               | 698              | 31          | 675              | 33          | 677              | 2                          | 698              | 31          | 675              | 33          | 677              |    |
|                           |                | P           |             | 0                    | 0                | 0           | 0                | 0           | 0                | 2               | 698              | 81          | 636              | 83          | 638              | 2                          | 698              | 81          | 636              | 83          | 638              |    |
| 2                         | Bihar          | C           | Rabi        | 7                    | 817              | 0           | 0                | 7           | 817              | 13              | 1140             | 3           | 810              | 16          | 1078             | 20                         | 1027             | 3           | 810              | 23          | 999              |    |
|                           |                | S           |             | 3                    | 584              | 0           | 0                | 3           | 584              | 18              | 1096             | 0           | 0                | 18          | 1096             | 21                         | 1023             | 0           | 0                | 21          | 1023             |    |
|                           |                | P           |             | 10                   | 747              | 0           | 0                | 10          | 747              | 31              | 1115             | 3           | 810              | 34          | 1088             | 41                         | 1025             | 3           | 810              | 44          | 1010             |    |
| 3                         | Chattisgarh    | C           | Rabi        | 0                    | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 14          | 364              | 14          | 364              | 0                          | 0                | 14          | 364              | 14          | 364              |    |
|                           |                | S           |             | 0                    | 0                | 0           | 0                | 0           | 0                | 0               | 0                | 12          | 312              | 12          | 312              | 0                          | 0                | 12          | 312              | 12          | 312              |    |
|                           |                | P           |             | 0                    | 0                | 0           | 0                | 0           | 0                | 0               | NC               | 26          | 340              | 26          | 340              | 0                          | NC               | 26          | 340              | 26          | 340              |    |
| 4                         | Gujarat        | C           | Rabi        | 23                   | 2036             | 2           | 1600             | 25          | 2001             | 0               | 0                | 0           | 0                | 0           | NC               | 23                         | 2036             | 2           | 1600             | 25          | 2001             |    |
|                           |                | S           |             | 15                   | 1907             | 0           | 0                | 15          | 1907             | 2               | 1700             | 0           | 0                | 2           | 1700             | 17                         | 1882             | 0           | 0                | 17          | 1882             |    |
|                           |                | P           |             | 38                   | 1985             | 2           | 0                | 40          | 1966             | 2               | 1700             | 0           | 0                | 2           | NC               | 40                         | 1971             | 2           | 0                | 42          | 1953             |    |
| 5                         | Haryana        | C           | Rabi        | 2                    | 2292             | 0           | 0                | 2           | 2292             | 0               | 0                | 0           | 0                | 0           | NC               | 2                          | 2292             | 0           | 0                | 2           | 2292             |    |
|                           |                | S           |             | 41                   | 1717             | 1           | 1545             | 42          | 1712             | 0               | 0                | 0           | 0                | 0           | NC               | 41                         | 1717             | 1           | 1545             | 42          | 1712             |    |
|                           |                | P           |             | 43                   | 1743             | 1           | 1545             | 44          | 1739             | 0               | NC               | 0           | 0                | 0           | NC               | 43                         | 1743             | 1           | 1545             | 44          | 1739             |    |
| 6                         | Jharkhand      | C           | Rabi        | 6                    | 645              | 2           | 603              | 8           | 635              | 6               | 849              | 0           | 0                | 6           | 849              | 12                         | 747              | 2           | 603              | 14          | 726              |    |
|                           |                | S           |             | 0                    | 0                | 1           | 457              | 1           | 457              | 4               | 438              | 5           | 749              | 9           | 611              | 4                          | 438              | 6           | 700              | 10          | 595              |    |
|                           |                | P           |             | 6                    | 645              | 3           | 554              | 9           | 615              | 10              | 685              | 5           | 749              | 15          | 706              | 16                         | 670              | 8           | 700              | 24          | 672              |    |
| 7                         | Madhya Pradesh | C           | Rabi        | 20                   | 1876             | 0           | 0                | 20          | 1876             | 8               | 1212             | 18          | 725              | 26          | 875              | 28                         | 1686             | 18          | 725              | 46          | 1310             |    |
|                           |                | S           |             | 6                    | 1529             | 0           | 0                | 6           | 1529             | 4               | 1608             | 60          | 544              | 64          | 610              | 4                          | 1608             | 60          | 544              | 64          | 610              |    |
|                           |                | P           |             | 26                   | 1796             | 0           | 0                | 26          | 1796             | 12              | 1344             | 78          | 586              | 90          | 687              | 32                         | 1676             | 78          | 586              | 110         | 903              |    |
| 8                         | Punjab         | C           | Rabi        | 3                    | 1766             | 0           | 0                | 3           | 1766             | 0               | 0                | 0           | 0                | 0           | NC               | 3                          | 1766             | 0           | 0                | 3           | 1766             |    |
|                           |                | S           |             | 13                   | 1700             | 3           | 1476             | 16          | 1658             | 0               | 0                | 0           | 0                | 0           | NC               | 13                         | 1700             | 3           | 1476             | 16          | 1658             |    |
|                           |                | P           |             | 16                   | 1713             | 3           | 1476             | 19          | 1675             | 0               | NC               | 0           | NC               | 0           | NC               | 16                         | 1713             | 3           | 1476             | 19          | 1675             |    |
| 9                         | Rajasthan      | C           | Rabi        | 19                   | 1571             | 1           | 1379             | 20          | 1561             | 4               | 1633             | 1           | 762              | 5           | 1459             | 23                         | 1582             | 2           | 1071             | 25          | 1541             |    |
|                           |                | S           |             | 41                   | 1569             | 3           | 1302             | 44          | 1551             | 26              | 1448             | 3           | 1124             | 29          | 1414             | 67                         | 1522             | 6           | 1213             | 73          | 1497             |    |
|                           |                | P           |             | 60                   | 1569             | 4           | 1321             | 64          | 1554             | 30              | 1472             | 4           | 1034             | 34          | 1421             | 90                         | 1537             | 8           | 1178             | 98          | 1508             |    |
| 10                        | Uttar Pradesh  | C           | Rabi        | 51                   | 1313             | 2           | 704              | 53          | 1290             | 0               | 0                | 2           | 640              | 2           | 640              | 51                         | 1313             | 4           | 672              | 55          | 1266             |    |
|                           |                | S           |             | 9                    | 1686             | 4           | 1346             | 13          | 1581             | 2               | 1826             | 0           | 0                | 2           | 1826             | 11                         | 1711             | 4           | 1346             | 15          | 1614             |    |
|                           |                | P           |             | 60                   | 1369             | 6           | 1132             | 66          | 1347             | 2               | 1826             | 2           | 640              | 4           | 1233             | 62                         | 1383             | 8           | 1009             | 70          | 1341             |    |
| 11                        | West Bengal    | C           | Rabi        | 82                   | 1344             | 11          | 1146             | 93          | 1321             | 8               | 894              | 9           | 746              | 17          | 815              | 90                         | 1304             | 20          | 966              | 110         | 1243             |    |
|                           |                | S           |             | 0                    | 0                | 0           | 0                | 0           | NC               | 0               | 0                | 0           | 0                | 0           | 0                | 0                          | 0                | 0           | 0                | 0           | NC               |    |
|                           |                | P           |             | 82                   | 1344             | 11          | 1146             | 93          | NC               | 8               | 894              | 9           | 746              | 17          | 815              | 90                         | 1304             | 20          | 966              | 110         | NC               |    |
| For States Covered        | C              |             | 213         | 518                  | 18               | 701         | 231              | NC          | 39               | 183             | 97               | 69          | 136              | 102         | 252              | 466                        | 115              | 168         | 367              | 1182        |                  |    |
|                           | S              |             | 128         | 2428                 | 12               | 1650        | 140              | 2362        | 58               | 746             | 111              | 540         | 169              | NC          | 180              | 1967                       | 123              | 648         | 303              | NC          |                  |    |
|                           | P              |             | 341         | 1532                 | 30               | 1184        | 371              | NC          | 97               | 1209            | 208              | 598         | 305              | NC          | 432              | 1459                       | 238              | 672         | 670              | NC          |                  |    |

Note :-

- \*\* = In the light of introduction of concept of Kharif and Rabi seasons in the Tamil Nadu state from Agricultural year 2017-18 and consequent categorization of crops, the data have been presented seasonwise instead of whole year.
- NC - Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.

**ESTIMATES OF YIELD RATE ACCORDING TO USE OF  
FERTILISERS, MANURES AND UNMANURED UNDER ICS DURING 2019-20**

| Sl. No.      | State            | S<br>E<br>A<br>S<br>O<br>N | A<br>G<br>E<br>N<br>C<br>Y | Treated with     |                   |              |                   |                      |                   | Not treated with Manure or Fertiliser |                   | Pooled       |                   |      |
|--------------|------------------|----------------------------|----------------------------|------------------|-------------------|--------------|-------------------|----------------------|-------------------|---------------------------------------|-------------------|--------------|-------------------|------|
|              |                  |                            |                            | Fertilisers only |                   | Manures only |                   | Both Fert. & Manures |                   | No.of expts.                          | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac |      |
|              |                  |                            |                            | No.of expts.     | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac | No.of expts.         | Yield Rate Kg/hac |                                       |                   |              |                   |      |
| 1            | 2                | 3                          | 4                          | 5                | 6                 | 7            | 8                 | 9                    | 10                | 11                                    | 12                | 13           | 14                |      |
| <b>PADDY</b> |                  |                            |                            |                  |                   |              |                   |                      |                   |                                       |                   |              |                   |      |
| 1            | Andhra Pradesh   | Kharif                     | C                          | 81               | 3696              | 3            | 3076              | 63                   | 3363              | 2                                     | 4155              | 149          | 3549              |      |
|              |                  |                            | S                          | 78               | 3446              | 0            | 0                 | 70                   | 3506              | 0                                     | 0                 | 148          | 3474              |      |
|              |                  |                            | P                          | 159              | 3573              | 3            | 3076              | 133                  | 3438              | 2                                     | 4155              | 297          | 3512              |      |
|              |                  | Summer                     | C                          | 10               | 4404              | 0            | 0                 | 16                   | 2913              | 0                                     | 0                 | 26           | 3486              |      |
|              |                  |                            | S                          | 55               | 4526              | 0            | 0                 | 33                   | 3820              | 2                                     | 826               | 90           | 4184              |      |
|              |                  |                            | P                          | 65               | 4507              | 0            | NC                | 49                   | 3523              | 2                                     | 0                 | 116          | 4028              |      |
| 2            | Assam            | Early Kharif               | C                          | 8                | 2064              | 8            | 1586              | 8                    | 2141              | 10                                    | 2024              | 34           | 1958              |      |
|              |                  |                            | S                          | 10               | 1991              | 0            | 0                 | 6                    | 1448              | 21                                    | 1786              | 37           | 1787              |      |
|              |                  |                            | P                          | 18               | 2024              | 8            | 1586              | 14                   | 1844              | 31                                    | 1863              | 71           | 1869              |      |
|              |                  | Late Kharif                | C                          | 52               | 2436              | 22           | 2386              | 10                   | 2555              | 34                                    | 2146              | 118          | 2353              |      |
|              |                  |                            | S                          | 39               | 2289              | 13           | 2045              | 6                    | 2334              | 34                                    | 2162              | 92           | 2210              |      |
|              |                  |                            | P                          | 91               | 2373              | 35           | 2260              | 16                   | 2472              | 68                                    | 2154              | 210          | 2291              |      |
|              |                  | Summer                     | C                          | 12               | 3350              | 4            | 2498              | 2                    | 4030              | 0                                     | 0                 | 18           | 3236              |      |
|              |                  |                            | S                          | 24               | 2944              | 4            | 2639              | 0                    | 0                 | 2                                     | 2608              | 30           | 2881              |      |
|              |                  | P                          | 36                         | 3079             | 8                 | 2568         | 2                 | 4030                 | 2                 | 2608                                  | 48                | 3014         |                   |      |
| 3            | Bihar            | Bhadai                     | C                          | 18               | 1576              | 6            | 1859              | 2                    | 1747              | 4                                     | 2106              | 30           | 1715              |      |
|              |                  |                            | S                          | 29               | 1815              | 0            | 0                 | 4                    | 2688              | 1                                     | 3048              | 34           | 1954              |      |
|              |                  |                            | P                          | 47               | 1723              | 6            | 1859              | 6                    | 2374              | 5                                     | 0                 | 64           | 1842              |      |
|              |                  | Aghani                     | C                          | 118              | 2439              | 9            | 2119              | 34                   | 2038              | 4                                     | 2096              | 165          | 2331              |      |
|              |                  |                            | S                          | 120              | 2175              | 0            | 0                 | 18                   | 2569              | 0                                     | 0                 | 138          | 2226              |      |
|              |                  |                            | P                          | 238              | 2306              | 9            | 2600              | 52                   | 2222              | 4                                     | 2096              | 303          | 2283              |      |
|              |                  | Summer                     | C                          | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | NC                |      |
|              |                  |                            | S                          | 14               | 2611              | 0            | 0                 | 0                    | 0                 | 4                                     | 1756              | 18           | 2421              |      |
|              |                  |                            | P                          | 14               | 2611              | 0            | 0                 | 0                    | NC                | 4                                     | 0                 | 18           | NC                |      |
|              | 4                | Chhattisgarh               | Kharif                     | C                | 53                | 2427         | 4                 | 2225                 | 21                | 2254                                  | 1                 | 379          | 79                | 2345 |
|              |                  |                            |                            | S                | 64                | 2284         | 2                 | 1125                 | 8                 | 2215                                  | 6                 | 2411         | 80                | 2257 |
|              |                  |                            |                            | P                | 117               | 2349         | 6                 | 1858                 | 29                | 2243                                  | 7                 | 2121         | 159               | 2301 |
| 5            | Gujarat          | Kharif                     | C                          | 25               | 2337              | 0            | 0                 | 35                   | 2215              | 0                                     | 0                 | 60           | 2265              |      |
|              |                  |                            | S                          | 15               | 2110              | 1            | 1660              | 29                   | 1300              | 2                                     | 1937              | 47           | 1593              |      |
|              |                  |                            | P                          | 40               | 2252              | 1            | 1660              | 64                   | 1800              | 2                                     | 1937              | 107          | 1970              |      |
| 6            | Haryana          | Kharif                     | C                          | 88               | 3158              | 0            | 0                 | 2                    | 3994              | 0                                     | 0                 | 90           | 3176              |      |
|              |                  |                            | S                          | 36               | 3087              | 0            | 0                 | 0                    | 0                 | 2                                     | 4313              | 38           | 3151              |      |
|              |                  |                            | P                          | 124              | 3137              | 0            | 0                 | 2                    | 3994              | 2                                     | 4313              | 128          | 3169              |      |
| 7            | Himachal Pradesh | Kharif                     | C                          | 3                | 2811              | 7            | 2064              | 35                   | 2422              | 6                                     | 2987              | 51           | 2462              |      |
|              |                  |                            | S                          | 7                | 1451              | 12           | 1673              | 14                   | 1741              | 0                                     | 0                 | 33           | 1654              |      |
|              |                  |                            | P                          | 10               | 1859              | 19           | 1817              | 49                   | 2227              | 6                                     | 2987              | 84           | 2145              |      |
| 8            | Jammu & Kashmir  | Kharif                     | C                          | 9                | 1937              | 0            | 0                 | 20                   | 1593              | 1                                     | 1263              | 30           | 1685              |      |
|              |                  |                            | S                          | 11               | 2008              | 0            | 0                 | 11                   | 3228              | 0                                     | 0                 | 22           | 2618              |      |
|              |                  |                            | P                          | 20               | 1976              | 0            | NC                | 31                   | 2173              | 1                                     | 0                 | 52           | 2080              |      |
| 9            | Jharkhand        | Bhadai                     | C                          | 0                | 0                 | 11           | 806               | 1                    | 1018              | 8                                     | 995               | 20           | 892               |      |
|              |                  |                            | S                          | 2                | 1836              | 6            | 758               | 0                    | 0                 | 10                                    | 797               | 18           | 899               |      |
|              |                  |                            | P                          | 2                | 1836              | 17           | 789               | 1                    | 1018              | 18                                    | 885               | 38           | 896               |      |
|              |                  | Aghani                     | C                          | 27               | 2121              | 12           | 1179              | 40                   | 2338              | 1                                     | 1399              | 80           | 2079              |      |
|              |                  |                            | S                          | 20               | 1960              | 6            | 1657              | 12                   | 1489              | 16                                    | 1685              | 54           | 1740              |      |
|              |                  |                            | P                          | 47               | 2052              | 18           | 1338              | 52                   | 2142              | 17                                    | 0                 | 134          | 1943              |      |

| Sl. No. | State          | S E A S O N | A G E N C Y | Treated with     |                   |              |                   |                      |                   | Not treated with Manure or Fertiliser |                   | Pooled       |                   |
|---------|----------------|-------------|-------------|------------------|-------------------|--------------|-------------------|----------------------|-------------------|---------------------------------------|-------------------|--------------|-------------------|
|         |                |             |             | Fertilisers only |                   | Manures only |                   | Both Fert. & Manures |                   | No.of expts.                          | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac |
|         |                |             |             | No.of expts.     | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac | No.of expts.         | Yield Rate Kg/hac |                                       |                   |              |                   |
| 1       | 2              | 3           | 4           | 5                | 6                 | 7            | 8                 | 9                    | 10                | 11                                    | 12                | 13           | 14                |
| 10      | Karnataka      | Kharif      | C           | 19               | 3204              | 5            | 2305              | 69                   | 3156              | 1                                     | 2476              | 94           | 3113              |
|         |                |             | S           | 34               | 2816              | 8            | 2155              | 82                   | 2909              | 6                                     | 3585              | 130          | 2870              |
|         |                |             | P           | 53               | 2955              | 13           | 2213              | 151                  | 3022              | 7                                     | 3427              | 224          | 2972              |
|         |                | Summer      | C           | 2                | 2610              | 0            | 0                 | 5                    | 2545              | 0                                     | 0                 | 7            | 2563              |
|         |                |             | S           | 7                | 2770              | 0            | 0                 | 21                   | 3609              | 4                                     | 2331              | 32           | 3265              |
|         |                |             | P           | 9                | 2735              | 0            | NC                | 26                   | 3404              | 4                                     | 2331              | 39           | 3139              |
| 11      | Kerala         | Autumn      | C           | 30               | 2052              | 21           | 2007              | 39                   | 1745              | 8                                     | 1930              | 98           | 1910              |
|         |                |             | S           | 21               | 1956              | 14           | 1754              | 53                   | 1792              | 8                                     | 1277              | 96           | 1780              |
|         |                |             | P           | 51               | 2013              | 35           | 1906              | 92                   | 1772              | 16                                    | 1604              | 194          | 1846              |
|         |                | Winter      | C           | 40               | 2222              | 14           | 2455              | 34                   | 2765              | 2                                     | 2749              | 90           | 2475              |
|         |                |             | S           | 11               | 2184              | 7            | 2817              | 21                   | 2301              | 51                                    | 2593              | 90           | 2492              |
|         |                |             | P           | 51               | 2213              | 21           | 2575              | 55                   | 2588              | 53                                    | 2599              | 180          | 2484              |
|         |                | Summer      | C           | 12               | 2455              | 0            | 0                 | 17                   | 2456              | 2                                     | 195               | 31           | 2310              |
|         |                |             | S           | 12               | 3340              | 0            | 0                 | 17                   | 1903              | 0                                     | 0                 | 29           | 2497              |
|         |                |             | P           | 24               | 2898              | 0            | NC                | 34                   | 2179              | 2                                     | 195               | 60           | 2401              |
| 12      | Madhya Pradesh | Kharif      | C           | 48               | 2417              | 10           | 1940              | 28                   | 1671              | 14                                    | 1924              | 100          | 2091              |
|         |                |             | S           | 56               | 2173              | 4            | 2503              | 10                   | 2284              | 16                                    | 1257              | 86           | 2031              |
|         |                |             | P           | 104              | 2285              | 14           | 2101              | 38                   | 1832              | 30                                    | 1568              | 186          | 2063              |
| 13      | Maharashtra    | Kharif      | C           | 35               | 1286              | 0            | 0                 | 12                   | 2263              | 4                                     | 1371              | 51           | 1523              |
|         |                |             | S           | 25               | 1442              | 2            | 2078              | 9                    | 1319              | 2                                     | 1050              | 38           | 1425              |
|         |                |             | P           | 60               | 1351              | 2            | 0                 | 21                   | 1858              | 6                                     | 0                 | 89           | 1481              |
| 14      | Odisha         | Autumn      | C           | 86               | 1275              | 18           | 1356              | 103                  | 1821              | 7                                     | 976               | 214          | 1535              |
|         |                |             | S           | 89               | 1697              | 13           | 1429              | 91                   | 2632              | 11                                    | 1006              | 204          | 2060              |
|         |                |             | P           | 175              | 1489              | 31           | 1387              | 194                  | 2201              | 18                                    | 994               | 418          | 1791              |
|         |                | Winter      | C           | 76               | 2113              | 5            | 1781              | 173                  | 2291              | 6                                     | 1461              | 260          | 2210              |
|         |                |             | S           | 94               | 864               | 10           | 1944              | 138                  | 1697              | 12                                    | 4235              | 254          | 1518              |
|         |                |             | P           | 170              | 1423              | 15           | 1890              | 311                  | 2028              | 18                                    | 3310              | 514          | 1868              |
|         |                | Summer      | C           | 0                | 0                 | 2            | 2014              | 4                    | 2570              | 6                                     | 1813              | 12           | 2098              |
|         |                |             | S           | 91               | 3253              | 6            | 1877              | 32                   | 2718              | 8                                     | 2117              | 137          | 3001              |
|         |                |             | P           | 91               | 3253              | 8            | 4582              | 36                   | 2701              | 14                                    | 1987              | 149          | 2929              |
| 15      | Punjab         | Kharif      | C           | 164              | 4812              | 0            | 0                 | 21                   | 3731              | 1                                     | 3122              | 186          | 4681              |
|         |                |             | S           | 117              | 4191              | 0            | 0                 | 3                    | 4172              | 2                                     | 3264              | 122          | 4176              |
|         |                |             | P           | 281              | 4553              | 0            | NC                | 24                   | 3786              | 3                                     | 3216              | 308          | 4481              |
| 16      | Tamil Nadu     | Phase-I     | C           | 9                | 3823              | 0            | 0                 | 31                   | 4712              | 0                                     | 0                 | 40           | 4512              |
|         |                |             | S           | 3                | 4189              | 0            | 0                 | 35                   | 4349              | 0                                     | 0                 | 38           | 4337              |
|         |                |             | P           | 12               | 3914              | 0            | 0                 | 66                   | 4520              | 0                                     | 0                 | 78           | 4426              |
|         |                | Phase-II    | C           | 6                | 3507              | 1            | 4932              | 51                   | 4434              | 0                                     | 0                 | 58           | 4346              |
|         |                |             | S           | 13               | 6529              | 1            | 791               | 34                   | 3970              | 0                                     | 0                 | 48           | 4597              |
|         |                |             | P           | 19               | 5574              | 2            | 0                 | 85                   | 4248              | 0                                     | 0                 | 106          | 4460              |
|         |                | Phase-III   | C           | 3                | 4151              | 0            | 0                 | 14                   | 4571              | 0                                     | 0                 | 17           | 4497              |
|         |                |             | S           | 6                | 3515              | 0            | 0                 | 15                   | 4286              | 0                                     | 0                 | 21           | 4066              |
|         |                |             | P           | 9                | 3727              | 0            | NC                | 29                   | 4423              | 0                                     | 0                 | 38           | 4258              |
| 17      | Telangana      | Kharif      | C           | 47               | 3581              | 0            | 0                 | 18                   | 3339              | 0                                     | 0                 | 65           | 3514              |
|         |                |             | S           | 45               | 3528              | 1            | 4203              | 22                   | 3670              | 1                                     | 3469              | 69           | 3582              |
|         |                |             | P           | 92               | 3555              | 1            | 0                 | 40                   | 3521              | 1                                     | 0                 | 134          | 3549              |
|         |                | Rabi        | C           | 3                | 4843              | 0            | 0                 | 3                    | 3717              | 0                                     | 0                 | 6            | 4280              |
|         |                |             | S           | 48               | 4685              | 3            | 4106              | 20                   | 5157              | 4                                     | 5227              | 75           | 4816              |
|         |                |             | P           | 51               | 4694              | 3            | 0                 | 23                   | 4969              | 4                                     | 0                 | 81           | 4777              |

| Sl. No.            | State          | S<br>E<br>A<br>S<br>O<br>N | A<br>G<br>E<br>N<br>C<br>Y | Treated with     |                   |               |                   |                      |                   | Not treated with Manure or Fertiliser |                   | Pooled        |                   |      |
|--------------------|----------------|----------------------------|----------------------------|------------------|-------------------|---------------|-------------------|----------------------|-------------------|---------------------------------------|-------------------|---------------|-------------------|------|
|                    |                |                            |                            | Fertilisers only |                   | Manures only  |                   | Both Fert. & Manures |                   | No. of expts.                         | Yield Rate Kg/hac | No. of expts. | Yield Rate Kg/hac |      |
|                    |                |                            |                            | No. of expts.    | Yield Rate Kg/hac | No. of expts. | Yield Rate Kg/hac | No. of expts.        | Yield Rate Kg/hac |                                       |                   |               |                   |      |
| 1                  | 2              | 3                          | 4                          | 5                | 6                 | 7             | 8                 | 9                    | 10                | 11                                    | 12                | 13            | 14                |      |
| 18                 | Uttar Pradesh  | Kharif                     | C                          | 530              | 2792              | 0             | 0                 | 125                  | 2828              | 3                                     | 2356              | 658           | 2796              |      |
|                    |                |                            | S                          | 118              | 2712              | 0             | 0                 | 4                    | 2725              | 0                                     | 0                 | 122           | 2712              |      |
|                    |                |                            | P                          | 648              | 2777              | 0             | NC                | 129                  | 2824              | 3                                     | 2356              | 780           | 2783              |      |
| 19                 | Uttarakhand    | Kharif                     | C                          | 20               | 3357              | 15            | 1960              | 12                   | 3180              | 0                                     | 0                 | 47            | 2866              |      |
|                    |                |                            | S                          | 26               | 3333              | 17            | 1021              | 6                    | 3464              | 1                                     | 1102              | 50            | 2518              |      |
|                    |                |                            | P                          | 46               | 3343              | 32            | 1461              | 18                   | 3275              | 1                                     | 1102              | 97            | 2687              |      |
| 20                 | West Bengal    | Aus                        | C                          | 65               | 2678              | 4             | 1609              | 28                   | 2375              | 0                                     | 0                 | 97            | 2546              |      |
|                    |                |                            | S                          | 4                | 2234              | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 4             | 2234              |      |
|                    |                |                            | P                          | 69               | 2652              | 4             | 1609              | 28                   | 2375              | 0                                     | NC                | 101           | 2534              |      |
|                    |                | Aman                       | C                          | 101              | 2756              | 0             | 0                 | 59                   | 2885              | 0                                     | 0                 | 160           | 2804              |      |
|                    |                |                            | S                          | 7                | 3254              | 0             | 0                 | 7                    | 2822              | 0                                     | 0                 | 14            | 3038              |      |
|                    |                |                            | P                          | 108              | 2789              | 0             | NC                | 66                   | 2879              | 0                                     | NC                | 174           | 2823              |      |
|                    |                | Summer                     | C                          | 7                | 2996              | 0             | 0                 | 3                    | 3355              | 0                                     | 0                 | 10            | 3104              |      |
|                    |                |                            | S                          | 0                | 0                 | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 0             | NC                |      |
|                    |                |                            | P                          | 7                | 2996              | 0             | 0                 | 3                    | 3355              | 0                                     | NC                | 10            | NC                |      |
| 21                 | Puducherry     | Kharif                     | C                          | 0                | 0                 | 0             | 0                 | 10                   | 2875              | 0                                     | 0                 | 10            | 2875              |      |
|                    |                |                            | S                          | 6                | 3591              | 0             | 0                 | 4                    | 2457              | 0                                     | 0                 | 10            | 3138              |      |
|                    |                |                            | P                          | 6                | 3591              | 0             | 0                 | 14                   | 2756              | 0                                     | 0                 | 20            | 3006              |      |
|                    |                | Rabi-I                     | C                          | 1                | 3458              | 0             | 0                 | 9                    | 3332              | 0                                     | 0                 | 30            | 1115              |      |
|                    |                |                            | S                          | 9                | 3237              | 0             | 0                 | 1                    | 2260              | 0                                     | 0                 | 10            | 3139              |      |
|                    |                |                            | P                          | 10               | 3259              | 0             | 0                 | 10                   | 3225              | 0                                     | 0                 | 40            | 1621              |      |
|                    |                | Rabi-II                    | C                          | 2                | 3904              | 0             | 0                 | 8                    | 2976              | 0                                     | 0                 | 10            | 3162              |      |
|                    |                |                            | S                          | 4                | 2782              | 2             | 2575              | 4                    | 2378              | 0                                     | 0                 | 10            | 2579              |      |
|                    |                |                            | P                          | 6                | 3156              | 2             | 0                 | 12                   | 2777              | 0                                     | 0                 | 20            | 2870              |      |
| For states covered |                |                            | C                          | 1810             | 2840              | 181           | 1915              | 1165                 | 2691              | 125                                   | 1921              | 3301          | NC                |      |
|                    |                |                            | S                          | 1370             | 2781              | 132           | 1821              | 840                  | 2727              | 226                                   | 2196              | 2568          | NC                |      |
|                    |                |                            | P                          | 3180             | 2815              | 313           | 1875              | 2005                 | 2706              | 351                                   | 2098              | 5869          | NC                |      |
| <b>JOWAR</b>       |                |                            |                            |                  |                   |               |                   |                      |                   |                                       |                   |               |                   |      |
| 1                  | Karnataka      | Kharif                     | C                          | 3                | 2205              | 3             | 551               | 8                    | 2362              | 0                                     | 0                 | 14            | 1941              |      |
|                    |                |                            | S                          | 8                | 1270              | 2             | 459               | 16                   | 1977              | 11                                    | 1410              | 37            | 1573              |      |
|                    |                |                            | P                          | 11               | 1525              | 5             | 515               | 24                   | 2105              | 11                                    | 1410              | 51            | 1674              |      |
|                    |                |                            | Rabi                       | C                | 22                | 747           | 7                 | 1409                 | 17                | 1005                                  | 8                 | 1147          | 54                | 973  |
|                    |                |                            |                            | S                | 8                 | 1099          | 3                 | 605                  | 4                 | 753                                   | 40                | 978           | 55                | 959  |
|                    |                |                            |                            | P                | 30                | 841           | 10                | 1168                 | 21                | 957                                   | 48                | 1006          | 109               | 966  |
| 2                  | Madhya Pradesh | Kharif                     | C                          | 43               | 1149              | 17            | 1491              | 14                   | 637               | 18                                    | 1022              | 92            | 1109              |      |
|                    |                |                            | S                          | 26               | 799               | 9             | 613               | 6                    | 1542              | 29                                    | 1088              | 70            | 959               |      |
|                    |                |                            | P                          | 69               | 1017              | 26            | 1187              | 20                   | 908               | 47                                    | 1063              | 162           | 1044              |      |
| 3                  | Maharashtra    | Kharif                     | C                          | 30               | 683               | 0             | 0                 | 4                    | 24                | 2                                     | 735               | 36            | 612               |      |
|                    |                |                            | S                          | 41               | 548               | 0             | 0                 | 9                    | 432               | 4                                     | 164               | 54            | 500               |      |
|                    |                |                            | P                          | 71               | 605               | 0             | 0                 | 13                   | 306               | 6                                     | 354               | 90            | 545               |      |
|                    |                |                            | Rabi                       | C                | 28                | 963           | 4                 | 142                  | 10                | 734                                   | 20                | 395           | 62                | 690  |
|                    |                |                            |                            | S                | 57                | 876           | 2                 | 772                  | 1047              | 21                                    | 588               | 3234          | 1694              | 1165 |
|                    |                |                            |                            | P                | 85                | 905           | 6                 | 0                    | 1057              | 28                                    | 608               | 3141          | 1756              | 1148 |
| 4                  | Rajasthan      | Kharif                     | C                          | 24               | 598               | 8             | 673               | 5                    | 702               | 18                                    | 728               | 55            | 661               |      |
|                    |                |                            | S                          | 20               | 439               | 4             | 551               | 0                    | 0                 | 18                                    | 327               | 42            | 402               |      |
|                    |                |                            | P                          | 44               | 526               | 12            | 632               | 5                    | 702               | 36                                    | 527               | 97            | 549               |      |
| 5                  | Tamil Nadu     | @                          | C                          | 1                | 554               | 19            | 1179              | 17                   | 1354              | 3                                     | 421               | 40            | 1181              |      |
|                    |                |                            | S                          | 0                | 0                 | 11            | 1113              | 3                    | 1024              | 15                                    | 704               | 29            | 892               |      |
|                    |                |                            | P                          | 1                | 554               | 30            | 1155              | 20                   | 1305              | 18                                    | 657               | 69            | 1060              |      |

| Sl. No.            | State          | S E A S O N | A G E N C Y | Treated with     |                   |              |                   |                      |                   | Not treated with Manure or Fertiliser |                   | Pooled       |                   |
|--------------------|----------------|-------------|-------------|------------------|-------------------|--------------|-------------------|----------------------|-------------------|---------------------------------------|-------------------|--------------|-------------------|
|                    |                |             |             | Fertilisers only |                   | Manures only |                   | Both Fert. & Manures |                   | No.of expts.                          | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac |
|                    |                |             |             | No.of expts.     | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac | No.of expts.         | Yield Rate Kg/hac |                                       |                   |              |                   |
| 1                  | 2              | 3           | 4           | 5                | 6                 | 7            | 8                 | 9                    | 10                | 11                                    | 12                | 13           | 14                |
| 6                  | Telangana      | Kharif      | C           | 20               | 984               | 0            | 0                 | 16                   | 995               | 2                                     | 2376              | 38           | 1062              |
|                    |                |             | S           | 18               | 1160              | 0            | 0                 | 8                    | 1102              | 10                                    | 1502              | 36           | 1242              |
|                    |                |             | P           | 38               | 1067              | 0            | 0                 | 24                   | 1031              | 12                                    | 1648              | 74           | 1150              |
|                    |                | Rabi        | C           | 12               | 1259              | 3            | 1110              | 5                    | 663               | 0                                     | 0                 | 20           | 1088              |
|                    |                |             | S           | 28               | 1823              | 0            | 0                 | 2                    | 986               | 4                                     | 905               | 34           | 1666              |
|                    |                |             | P           | 40               | 1654              | 3            | 0                 | 7                    | 755               | 4                                     | 905               | 54           | 1452              |
| 7                  | Uttar Pradesh  | Kharif      | C           | 6                | 2009              | 6            | 1507              | 0                    | 0                 | 28                                    | 1347              | 40           | 1470              |
|                    |                |             | S           | 0                | 0                 | 2            | 636               | 0                    | 0                 | 10                                    | 891               | 12           | 849               |
|                    |                |             | P           | 6                | 2009              | 8            | 1289              | 0                    | 0                 | 38                                    | 1227              | 52           | 1327              |
| For states covered |                |             | C           | 189              | 11150             | 67           | 8062              | 96                   | 8475              | 99                                    | 8169              | 451          | 10786             |
|                    |                |             | S           | 206              | 8015              | 33           | 4749              | 1095                 | 7837              | 729                                   | 11204             | 2063         | 10207             |
|                    |                |             | P           | 395              | 10702             | 100          | 5946              | 1191                 | 8097              | 828                                   | 11937             | 2514         | 10914             |
| <b>BAJRA</b>       |                |             |             |                  |                   |              |                   |                      |                   |                                       |                   |              |                   |
| 1                  | Andhra Pradesh | Kharif      | C           | 8                | 2507              | 3            | 1357              | 17                   | 2118              | 6                                     | 1318              | 34           | 2001              |
|                    |                |             | S           | 10               | 2053              | 11           | 999               | 4                    | 2046              | 11                                    | 806               | 36           | 1349              |
|                    |                |             | P           | 18               | 2255              | 14           | 1075              | 21                   | 2105              | 17                                    | 987               | 70           | 1666              |
| 2                  | Gujarat        | Kharif      | C           | 53               | 1561              | 7            | 3456              | 25                   | 1769              | 6                                     | 1554              | 91           | 1764              |
|                    |                |             | S           | 26               | 1442              | 5            | 1356              | 23                   | 2368              | 9                                     | 2497              | 63           | 1924              |
|                    |                |             | P           | 79               | 1522              | 12           | 2581              | 48                   | 2056              | 15                                    | 2119              | 154          | 1829              |
| 3                  | Haryana        | Kharif      | C           | 90               | 1952              | 4            | 1668              | 1                    | 1498              | 7                                     | 1463              | 102          | 1903              |
|                    |                |             | S           | 24               | 1614              | 1            | 1445              | 0                    | 0                 | 6                                     | 1511              | 31           | 1588              |
|                    |                |             | P           | 114              | 1881              | 5            | 1623              | 1                    | 1498              | 13                                    | 1485              | 133          | 1829              |
| 4                  | Karnataka      | Kharif      | C           | 5                | 971               | 6            | 1057              | 5                    | 1701              | 5                                     | 1103              | 21           | 1201              |
|                    |                |             | S           | 8                | 576               | 3            | 756               | 2                    | 1629              | 29                                    | 1137              | 42           | 1026              |
|                    |                |             | P           | 13               | 728               | 9            | 956               | 7                    | 1680              | 34                                    | 1132              | 63           | 1084              |
| 5                  | Maharashtra    | Kharif      | C           | 12               | 627               | 0            | 0                 | 0                    | 0                 | 2                                     | 4224              | 14           | 1141              |
|                    |                |             | S           | 10               | 686               | 0            | 0                 | 8                    | 1906              | 12                                    | 736               | 30           | 1031              |
|                    |                |             | P           | 22               | 654               | 0            | NC                | 8                    | 1906              | 14                                    | 1234              | 44           | 1066              |
| 6                  | Rajasthan      | Kharif      | C           | 29               | 1795              | 2            | 1860              | 5                    | 1807              | 21                                    | 1348              | 57           | 1634              |
|                    |                |             | S           | 16               | 1406              | 4            | 2217              | 0                    | 0                 | 24                                    | 763               | 44           | 1129              |
|                    |                |             | P           | 45               | 1657              | 6            | 2098              | 5                    | 1807              | 45                                    | 1036              | 101          | 1414              |
| 7                  | Tamil Nadu     | @           | C           | 1                | 5716              | 22           | 3838              | 11                   | 4000              | 6                                     | 4027              | 40           | 3958              |
|                    |                |             | S           | 1                | 2076              | 6            | 2129              | 12                   | 3076              | 10                                    | 1596              | 29           | 2335              |
|                    |                |             | P           | 2                | 3896              | 28           | 3472              | 23                   | 3518              | 16                                    | 2508              | 69           | 3276              |
| 8                  | Uttar Pradesh  | Kharif      | C           | 122              | 2189              | 2            | 3165              | 11                   | 1993              | 15                                    | 1404              | 150          | 2109              |
|                    |                |             | S           | 20               | 2299              | 0            | 0                 | 0                    | 0                 | 2                                     | 2505              | 22           | 2317              |
|                    |                |             | P           | 142              | 2204              | 2            | 3165              | 11                   | 1993              | 17                                    | 1534              | 172          | 2136              |
| For states covered |                |             | C           | 320              | 1924              | 46           | 2951              | 75                   | 2203              | 68                                    | 1691              | 509          | 2027              |
|                    |                |             | S           | 115              | 1555              | 30           | 1437              | 49                   | 2409              | 103                                   | 1179              | 297          | 1554              |
|                    |                |             | P           | 435              | 1826              | 76           | 2354              | 124                  | 2284              | 171                                   | 1383              | 806          | 1852              |
| <b>MAIZE</b>       |                |             |             |                  |                   |              |                   |                      |                   |                                       |                   |              |                   |
| 1                  | Bihar          | Kharif      | C           | 9                | 2396              | 4            | 2037              | 4                    | 2822              | 0                                     | 0                 | 17           | 2412              |
|                    |                |             | S           | 8                | 1800              | 0            | 0                 | 2                    | 1226              | 4                                     | 2384              | 14           | 1885              |
|                    |                |             | P           | 17               | 2116              | 4            | 4200              | 6                    | 2290              | 4                                     | 2384              | 31           | 2174              |
| 2                  | Chhattisgarh   | Kharif      | C           | 16               | 5002              | 8            | 3424              | 2                    | 7761              | 14                                    | 2028              | 40           | 3783              |
|                    |                |             | S           | 14               | 3672              | 12           | 2262              | 2                    | 5603              | 2                                     | 2121              | 30           | 3133              |
|                    |                |             | P           | 30               | 4381              | 20           | 2727              | 4                    | 6682              | 16                                    | 2040              | 70           | 3505              |

## ANNEX XVI (Contd.....)

| Sl. No.            | State            | S<br>E<br>A<br>S<br>O<br>N | A<br>G<br>E<br>N<br>C<br>Y | Treated with     |                   |              |                   |                      |                   | Not treated with Manure or Fertiliser |                   | Pooled       |                   |
|--------------------|------------------|----------------------------|----------------------------|------------------|-------------------|--------------|-------------------|----------------------|-------------------|---------------------------------------|-------------------|--------------|-------------------|
|                    |                  |                            |                            | Fertilisers only |                   | Manures only |                   | Both Fert. & Manures |                   | No.of expts.                          | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac |
|                    |                  |                            |                            | No.of expts.     | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac | No.of expts.         | Yield Rate Kg/hac |                                       |                   |              |                   |
| 1                  | 2                | 3                          | 4                          | 5                | 6                 | 7            | 8                 | 9                    | 10                | 11                                    | 12                | 13           | 14                |
| 3                  | Gujarat          | Kharif                     | C                          | 5                | 1724              | 0            | 0                 | 21                   | 1439              | 0                                     | 0                 | 26           | 1494              |
|                    |                  |                            | S                          | 3                | 1240              | 4            | 1663              | 21                   | 1649              | 0                                     | 0                 | 28           | 1607              |
|                    |                  |                            | P                          | 8                | 1543              | 4            | 0                 | 42                   | 1544              | 0                                     | 0                 | 54           | 1553              |
| 4                  | Haryana          | Kharif                     | C                          | 6                | 3161              | 4            | 3556              | 6                    | 4350              | 0                                     | 0                 | 16           | 3705              |
|                    |                  |                            | S                          | 8                | 3935              | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 8            | 3935              |
|                    |                  |                            | P                          | 14               | 3603              | 4            | 0                 | 6                    | 4350              | 0                                     | NC                | 24           | 3782              |
| 5                  | Himachal Pradesh | Kharif                     | C                          | 3                | 3677              | 31           | 2442              | 40                   | 3252              | 1                                     | 875               | 75           | 2902              |
|                    |                  |                            | S                          | 0                | 0                 | 27           | 2494              | 42                   | 2273              | 0                                     | 0                 | 69           | 2360              |
|                    |                  |                            | P                          | 3                | 3677              | 58           | 2466              | 82                   | 2750              | 1                                     | 875               | 144          | 2642              |
| 6                  | Jammu & Kashmir  | Kharif                     | C                          | 8                | 1568              | 26           | 1682              | 32                   | 2439              | 0                                     | 0                 | 66           | 2035              |
|                    |                  |                            | S                          | 3                | 1988              | 4            | 2111              | 5                    | 2071              | 0                                     | 0                 | 12           | 2064              |
|                    |                  |                            | P                          | 11               | 1683              | 30           | 1739              | 37                   | 2390              | 0                                     | NC                | 78           | 2040              |
| 7                  | Jharkhand        | Kharif                     | C                          | 3                | 3816              | 3            | 2262              | 13                   | 2845              | 1                                     | 3474              | 20           | 2935              |
|                    |                  |                            | S                          | 4                | 2453              | 0            | 0                 | 0                    | 0                 | 8                                     | 2189              | 12           | 2277              |
|                    |                  |                            | P                          | 7                | 3037              | 3            | 2262              | 13                   | 2845              | 9                                     | 2332              | 32           | 2688              |
| 8                  | Karnataka        | Kharif                     | C                          | 12               | 3335              | 2            | 3656              | 8                    | 2780              | 0                                     | 0                 | 22           | 3163              |
|                    |                  |                            | S                          | 10               | 4119              | 2            | 3423              | 20                   | 3002              | 12                                    | 3006              | 44           | 3276              |
|                    |                  |                            | P                          | 22               | 3691              | 4            | 3539              | 28                   | 2939              | 12                                    | 3006              | 66           | 3238              |
| 9                  | Madhya Pradesh   | Kharif                     | C                          | 49               | 1632              | 14           | 1421              | 9                    | 1017              | 8                                     | 1757              | 80           | 1538              |
|                    |                  |                            | S                          | 43               | 1751              | 8            | 1409              | 6                    | 914               | 9                                     | 1363              | 66           | 1581              |
|                    |                  |                            | P                          | 92               | 1688              | 22           | 1417              | 15                   | 976               | 17                                    | 1548              | 146          | 1558              |
| 10                 | Odisha           | Kharif                     | C                          | 8                | 2378              | 2            | 1299              | 16                   | 2484              | 14                                    | 1756              | 40           | 2149              |
|                    |                  |                            | S                          | 11               | 2868              | 10           | 1705              | 7                    | 2174              | 12                                    | 1862              | 40           | 2154              |
|                    |                  |                            | P                          | 19               | 2662              | 12           | 1637              | 23                   | 2390              | 26                                    | 1805              | 80           | 2151              |
| 11                 | Punjab           | Kharif                     | C                          | 22               | 3643              | 2            | 9246              | 10                   | 3631              | 0                                     | 0                 | 34           | 3969              |
|                    |                  |                            | S                          | 31               | 3020              | 0            | 0                 | 1                    | 4639              | 0                                     | 0                 | 32           | 3071              |
|                    |                  |                            | P                          | 53               | 3279              | 2            | 9246              | 11                   | 3722              | 0                                     | NC                | 66           | 3534              |
| 12                 | Rajasthan        | Kharif                     | C                          | 21               | 1604              | 2            | 360               | 14                   | 2087              | 10                                    | 1913              | 47           | 1761              |
|                    |                  |                            | S                          | 24               | 1397              | 1            | 159               | 7                    | 1808              | 8                                     | 623               | 40           | 1283              |
|                    |                  |                            | P                          | 45               | 1493              | 3            | 293               | 21                   | 1994              | 18                                    | 1340              | 87           | 1541              |
| 13                 | Tamil Nadu       | @                          | C                          | 8                | 9557              | 8            | 8821              | 24                   | 8624              | 0                                     | 0                 | 40           | 8850              |
|                    |                  |                            | S                          | 3                | 9995              | 4            | 9622              | 27                   | 8007              | 0                                     | 0                 | 34           | 8372              |
|                    |                  |                            | P                          | 11               | 9677              | 12           | 9088              | 51                   | 8297              | 0                                     | NC                | 74           | 8630              |
| 14                 | Telangana        | Kharif                     | C                          | 35               | 4627              | 0            | 0                 | 15                   | 5718              | 0                                     | 0                 | 50           | 4954              |
|                    |                  |                            | S                          | 36               | 5166              | 0            | 0                 | 10                   | 4660              | 2                                     | 5766              | 48           | 5086              |
|                    |                  |                            | P                          | 71               | 4900              | 0            | NC                | 25                   | 5295              | 2                                     | 5766              | 98           | 5018              |
| 15                 | Uttar Pradesh    | Kharif                     | C                          | 137              | 2610              | 3            | 1911              | 16                   | 1917              | 4                                     | 1335              | 160          | 2496              |
|                    |                  |                            | S                          | 32               | 2523              | 0            | 0                 | 4                    | 1855              | 6                                     | 751               | 42           | 2206              |
|                    |                  |                            | P                          | 169              | 2594              | 3            | 0                 | 20                   | 1904              | 10                                    | 985               | 202          | 2435              |
| For states covered |                  |                            | C                          | 342              | 2962              | 109          | 2764              | 230                  | 3427              | 52                                    | 1843              | 733          | 2999              |
|                    |                  |                            | S                          | 230              | 2994              | 72           | 2547              | 154                  | 3392              | 63                                    | 1952              | 519          | 2924              |
|                    |                  |                            | P                          | 572              | 2975              | 181          | 2678              | 384                  | 3413              | 115                                   | 1903              | 1252         | 2968              |
| <b>RAGI</b>        |                  |                            |                            |                  |                   |              |                   |                      |                   |                                       |                   |              |                   |
| 1                  | Karnataka        | Kharif                     | C                          | 5                | 2652              | 2            | 1811              | 17                   | 1726              | 0                                     | 0                 | 24           | 1926              |
|                    |                  |                            | S                          | 14               | 1839              | 2            | 755               | 15                   | 1135              | 3                                     | 1662              | 34           | 1449              |
|                    |                  |                            | P                          | 19               | 2053              | 4            | 1283              | 32                   | 1449              | 3                                     | 1662              | 58           | 799               |
| 2                  | Tamil Nadu       | @                          | C                          | 4                | 1670              | 2            | 3290              | 29                   | 3541              | 3                                     | 2074              | 38           | 3215              |
|                    |                  |                            | S                          | 18               | 4541              | 8            | 2356              | 12                   | 2087              | 2                                     | 275               | 40           | 3155              |
|                    |                  |                            | P                          | 22               | 4019              | 10           | 2543              | 41                   | 3115              | 5                                     | 1354              | 78           | 3184              |

| Sl. No.            | State          | S E A S O N | A G E N C Y | Treated with     |                   |              |                   |                      |                   | Not treated with Manure or Fertiliser |                   | Pooled       |                   |
|--------------------|----------------|-------------|-------------|------------------|-------------------|--------------|-------------------|----------------------|-------------------|---------------------------------------|-------------------|--------------|-------------------|
|                    |                |             |             | Fertilisers only |                   | Manures only |                   | Both Fert. & Manures |                   | No.of expts.                          | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac |
|                    |                |             |             | No.of expts.     | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac | No.of expts.         | Yield Rate Kg/hac |                                       |                   |              |                   |
| 1                  | 2              | 3           | 4           | 5                | 6                 | 7            | 8                 | 9                    | 10                | 11                                    | 12                | 13           | 14                |
| 3                  | Uttarakhand    | Kharif      | C           | 0                | 0                 | 35           | 1502              | 0                    | 0                 | 4                                     | 869               | 39           | 1437              |
|                    |                |             | S           | 0                | 0                 | 40           | 1584              | 0                    | 0                 | 0                                     | 0                 | 40           | 1584              |
|                    |                |             | P           | 0                | 0                 | 75           | 1546              | 0                    | 0                 | 4                                     |                   | 79           | 1512              |
| For states covered |                |             | C           | 9                | 2215              | 39           | 1610              | 46                   | 2870              | 7                                     | 0                 | 101          | 2055              |
|                    |                |             | S           | 32               | 3359              | 50           | 1675              | 27                   | 1558              | 5                                     | 1107              | 114          | 1812              |
|                    |                |             | P           | 41               | 3108              | 89           | 1646              | 73                   | 2385              | 12                                    | 1269              | 215          | 1926              |
| <b>GROUNDNUT</b>   |                |             |             |                  |                   |              |                   |                      |                   |                                       |                   |              |                   |
| 1                  | Andhra Pradesh | Kharif      | C           | 21               | 1479              | 27           | 1159              | 54                   | 1460              | 2                                     | 1459              | 104          | 1386              |
|                    |                |             | S           | 30               | 1477              | 19           | 1283              | 53                   | 1447              | 4                                     | 1217              | 106          | 1417              |
|                    |                |             | P           | 51               | 1478              | 46           | 1210              | 107                  | 1453              | 6                                     | 1298              | 210          | 1402              |
| 2                  | Gujarat        | Kharif      | C           | 68               | 2912              | 6            | 2338              | 51                   | 3011              | 1                                     | 4295              | 126          | 2936              |
|                    |                |             | S           | 37               | 2497              | 0            | 0                 | 18                   | 3815              | 3                                     | 1656              | 58           | 2862              |
|                    |                |             | P           | 105              | 2766              | 6            | 2338              | 69                   | 3220              | 4                                     | 2316              | 184          | 2913              |
| 3                  | Karnataka      | Kharif      | C           | 11               | 720               | 2            | 1760              | 15                   | 991               | 6                                     | 1539              | 34           | 1045              |
|                    |                |             | S           | 20               | 831               | 5            | 763               | 13                   | 1065              | 25                                    | 768               | 63           | 849               |
|                    |                |             | P           | 31               | 791               | 7            | 1048              | 28                   | 1025              | 31                                    | 917               | 97           | 918               |
| 4                  | Madhya Pradesh | Kharif      | C           | 14               | 1149              | 4            | 1133              | 12                   | 791               | 10                                    | 1014              | 40           | 1006              |
|                    |                |             | S           | 15               | 1365              | 0            | 0                 | 2                    | 1905              | 9                                     | 1262              | 26           | 1371              |
|                    |                |             | P           | 29               | 1261              | 4            | 1133              | 14                   | 950               | 19                                    | 1132              | 66           | 1150              |
| 5                  | Maharashtra    | Kharif      | C           | 15               | 781               | 0            | 0                 | 0                    | 0                 | 2                                     | 0                 | 17           | 689               |
|                    |                |             | S           | 13               | 826               | 2            | 525               | 2                    | 1483              | 3                                     | 732               | 20           | 847               |
|                    |                |             | P           | 28               | 802               | 2            | 525               | 2                    | 1483              | 5                                     | 439               | 37           | 775               |
| 6                  | Rajasthan      | Kharif      | C           | 10               | 1985              | 3            | 2348              | 18                   | 2438              | 1                                     | 1475              | 32           | 2258              |
|                    |                |             | S           | 16               | 1574              | 0            | 0                 | 0                    | 0                 | 4                                     | 1268              | 20           | 1513              |
|                    |                |             | P           | 26               | 1732              | 3            | 0                 | 18                   | 2438              | 5                                     | 1310              | 52           | 1971              |
| 7                  | Tamil Nadu     | Kharif      | C           | 3                | 2377              | 16           | 3071              | 13                   | 3028              | 4                                     | 2575              | 36           | 2942              |
|                    |                |             | S           | 6                | 2280              | 4            | 2184              | 16                   | 2114              | 5                                     | 3284              | 31           | 2344              |
|                    |                |             | P           | 9                | 4658              | 20           | 5255              | 29                   | 5142              | 9                                     | 5859              | 67           | 2665              |
| 8                  | Telangana      | Kharif      | C           | 12               | 4092              | 3            | 2457              | 24                   | 3119              | 1                                     | 964               | 40           | 3307              |
|                    |                |             | S           | 17               | 2712              | 3            | 2457              | 19                   | 2544              | 1                                     | 964               | 40           | 2570              |
|                    |                |             | P           | 29               | 3283              | 6            | 2457              | 43                   | 2865              | 2                                     | 964               | 80           | 2938              |
| For States Covered |                |             | C           | 154              | 2214              | 61           | 1917              | 187                  | 2218              | 27                                    | 1457              | 429          | 2126              |
|                    |                |             | S           | 154              | 1750              | 33           | 1374              | 123                  | 2017              | 54                                    | 1205              | 364          | 1725              |
|                    |                |             | P           | 308              | 1982              | 94           | 1726              | 310                  | 2139              | 81                                    | 1289              | 793          | 1942              |
| <b>SUGARCANE</b>   |                |             |             |                  |                   |              |                   |                      |                   |                                       |                   |              |                   |
| 1                  | Andhra Pradesh | Kharif      | C           | 15               | 88581             | 4            | 80500             | 36                   | 90332             | 2                                     | 40100             | 57           | 87419             |
|                    |                |             | S           | 12               | 96468             | 2            | 61700             | 32                   | 89779             | 2                                     | 68360             | 48           | 89389             |
|                    |                |             | P           | 27               | 92087             | 6            | 74233             | 68                   | 90072             | 4                                     | 54230             | 105          | 88319             |
| 2                  | Assam          | Kharif      | C           | 0                | 0                 | 1            | 35524             | 1                    | 34697             | 2                                     | 51400             | 4            | 43255             |
|                    |                |             | S           | 0                | 0                 | 10           | 27780             | 4                    | 27914             | 2                                     | 36600             | 16           | 28916             |
|                    |                |             | P           | 0                | NC                | 11           | 28484             | 5                    | 29271             | 4                                     | 44000             | 20           | 31784             |
| 3                  | Bihar          | Kharif      | C           | 25               | 68882             | 0            | 0                 | 8                    | 28855             | 0                                     | 0                 | 33           | 59178             |
|                    |                |             | S           | 15               | 55264             | 0            | 0                 | 0                    | 0                 | 4                                     | 65200             | 19           | 57356             |
|                    |                |             | P           | 40               | 63775             | 0            | 0                 | 8                    | 28855             | 4                                     | 65200             | 52           | 58512             |
| 4                  | Haryana        | Kharif      | C           | 17               | 72959             | 0            | 0                 | 17                   | 76564             | 0                                     | 0                 | 34           | 74762             |
|                    |                |             | S           | 13               | 70097             | 0            | 0                 | 7                    | 79583             | 0                                     | 0                 | 20           | 73417             |
|                    |                |             | P           | 30               | 71719             | 0            | 0                 | 24                   | 77444             | 0                                     | 0                 | 54           | 74264             |

| Sl. No.            | State            | S E A S O N | A G E N C Y | Treated with     |                   |               |                   |                      |                   | Not treated with Manure or Fertiliser |                   | Pooled        |                   |
|--------------------|------------------|-------------|-------------|------------------|-------------------|---------------|-------------------|----------------------|-------------------|---------------------------------------|-------------------|---------------|-------------------|
|                    |                  |             |             | Fertilisers only |                   | Manures only  |                   | Both Fert. & Manures |                   | No. of expts.                         | Yield Rate Kg/hac | No. of expts. | Yield Rate Kg/hac |
|                    |                  |             |             | No. of expts.    | Yield Rate Kg/hac | No. of expts. | Yield Rate Kg/hac | No. of expts.        | Yield Rate Kg/hac |                                       |                   |               |                   |
| 1                  | 2                | 3           | 4           | 5                | 6                 | 7             | 8                 | 9                    | 10                | 11                                    | 12                | 13            | 14                |
| 5                  | Karnataka        | Kharif      | C           | 10               | 75372             | 0             | 0                 | 8                    | 112082            | 1                                     | 19200             | 19            | 87872             |
|                    |                  |             | S           | 10               | 43446             | 0             | 0                 | 14                   | 118848            | 7                                     | 73314             | 31            | 84243             |
|                    |                  |             | P           | 20               | 59409             | 0             | NC                | 22                   | 116387            | 8                                     | 66550             | 50            | 85622             |
| 6                  | Mahara-shtra     | Kharif      | C           | 8                | 87976             | 0             | 0                 | 11                   | 85980             | 0                                     | 0                 | 19            | 86820             |
|                    |                  |             | S           | 12               | 70818             | 0             | 0                 | 15                   | 106216            | 0                                     | 0                 | 27            | 90483             |
|                    |                  |             | P           | 20               | 77681             | 0             | 0                 | 26                   | 97655             | 0                                     | 0                 | 46            | 88970             |
| 7                  | Punjab           | Kharif      | C           | 42               | 80275             | 0             | 0                 | 8                    | 81675             | 2                                     | 74800             | 52            | 80280             |
|                    |                  |             | S           | 32               | 82811             | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 32            | 82811             |
|                    |                  |             | P           | 74               | 81372             | 0             | NC                | 8                    | 81675             | 2                                     | 74800             | 84            | 81244             |
| 8                  | Rajasthan        | Kharif      | C           | 14               | 73616             | 4             | 81560             | 3                    | 32667             | 4                                     | 46400             | 25            | 65619             |
|                    |                  |             | S           | 14               | 78603             | 0             | 0                 | 9                    | 68226             | 2                                     | 60000             | 25            | 73379             |
|                    |                  |             | P           | 28               | 76110             | 4             | 81560             | 12                   | 59336             | 6                                     | 50933             | 50            | 69499             |
| 9                  | Tamil Nadu       | Kharif      | C           | 5                | 119080            | 4             | 87000             | 19                   | 112686            | 0                                     | 0                 | 28            | 110159            |
|                    |                  |             | S           | 3                | 109000            | 3             | 86867             | 24                   | 94363             | 0                                     | 0                 | 30            | 95077             |
|                    |                  |             | P           | 8                | 115300            | 7             | 86943             | 43                   | 102459            | 0                                     | 0                 | 58            | 102358            |
| 10                 | Uttar Pradesh    | Kharif      | C           | 148              | 84718             | 0             | 0                 | 48                   | 87843             | 1                                     | 10200             | 197           | 85101             |
|                    |                  |             | S           | 14               | 94400             | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 14            | 0                 |
|                    |                  |             | P           | 162              | 85555             | 0             | 0                 | 48                   | 87843             | 1                                     | 0                 | 211           | 79455             |
| 11                 | Uttarakhand      | Kharif      | C           | 19               | 73206             | 1             | 44000             | 8                    | 75638             | 0                                     | 0                 | 28            | 72858             |
|                    |                  |             | S           | 0                | 0                 | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 0             | 0                 |
|                    |                  |             | P           | 19               | 73206             | 1             | 0                 | 8                    | 75638             | 0                                     | 0                 | 28            | 72858             |
| For States covered |                  |             | C           | 303              | 81437             | 14            | 76840             | 187                  | 76840             | 12                                    | 45633             | 496           | 82005             |
|                    |                  |             | S           | 125              | 76649             | 15            | 44120             | 219                  | 44120             | 17                                    | 64936             | 262           | 75201             |
|                    |                  |             | P           | 428              | 80039             | 29            | 59916             | 401                  | 59916             | 29                                    | 56949             | 758           | 79653             |
| <b>WHEAT</b>       |                  |             |             |                  |                   |               |                   |                      |                   |                                       |                   |               |                   |
| 1                  | Assam            | Rabi        | C           | 0                | 0                 | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 0             | NC                |
|                    |                  |             | S           | 0                | 0                 | 0             | 0                 | 2                    | 1225              | 0                                     | 0                 | 2             | 1225              |
|                    |                  |             | P           | 0                | NC                | 0             | NC                | 2                    | 1225              | 0                                     | NC                | 2             | NC                |
| 2                  | Bihar            | Rabi        | C           | 4                | 2706              | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 4             | 2706              |
|                    |                  |             | S           | 75               | 2327              | 0             | 0                 | 1                    | 1745              | 22                                    | 3225              | 98            | 2523              |
|                    |                  |             | P           | 79               | 2346              | 0             | NC                | 1                    | 1745              | 22                                    | 3225              | 102           | 2530              |
| 3                  | Chattisgarh      | Rabi        | C           | 0                | 0                 | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 0             | NC                |
|                    |                  |             | S           | 0                | 0                 | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 0             | NC                |
|                    |                  |             | P           | 0                | NC                | 0             | NC                | 0                    | NC                | 0                                     | NC                | 0             | NC                |
| 4                  | Gujarat          | Rabi        | C           | 29               | 3141              | 0             | 0                 | 11                   | 3062              | 0                                     | 0                 | 40            | 3120              |
|                    |                  |             | S           | 30               | 3107              | 0             | 0                 | 10                   | 3248              | 0                                     | 0                 | 40            | 3142              |
|                    |                  |             | P           | 59               | 3124              | 0             | NC                | 21                   | 3151              | 0                                     | NC                | 80            | 3131              |
| 5                  | Haryana          | Rabi        | C           | 1                | 4839              | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 1             | 4839              |
|                    |                  |             | S           | 69               | 4896              | 1             | 4440              | 16                   | 4694              | 0                                     | 0                 | 86            | 4853              |
|                    |                  |             | P           | 70               | 4895              | 1             | 0                 | 16                   | 4694              | 0                                     | 0                 | 87            | 4853              |
| 6                  | Himachal Pradesh | Rabi        | C           | 0                | 0                 | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 0             | NC                |
|                    |                  |             | S           | 0                | 0                 | 10            | 2478              | 4                    | 2299              | 0                                     | 0                 | 14            | 2427              |
|                    |                  |             | P           | 0                | NC                | 10            | 2478              | 4                    | 2299              | 0                                     | NC                | 14            | NC                |
| 7                  | Jammu & Kashmir  | Rabi        | C           | 0                | 0                 | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 0             | NC                |
|                    |                  |             | S           | 0                | 0                 | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 0             | NC                |
|                    |                  |             | P^          | 0                | NC                | 0             | NC                | 0                    | NC                | 0                                     | NC                | 0             | NC                |
| 8                  | Jharkhand        | Rabi        | C           | 2                | 1852              | 0             | 0                 | 0                    | 0                 | 0                                     | 0                 | 2             | 1852              |
|                    |                  |             | S           | 8                | 2190              | 0             | 0                 | 5                    | 966               | 19                                    | 2032              | 32            | 1905              |
|                    |                  |             | P           | 10               | 2122              | 0             | 0                 | 5                    | 966               | 19                                    | 0                 | 34            | 1902              |

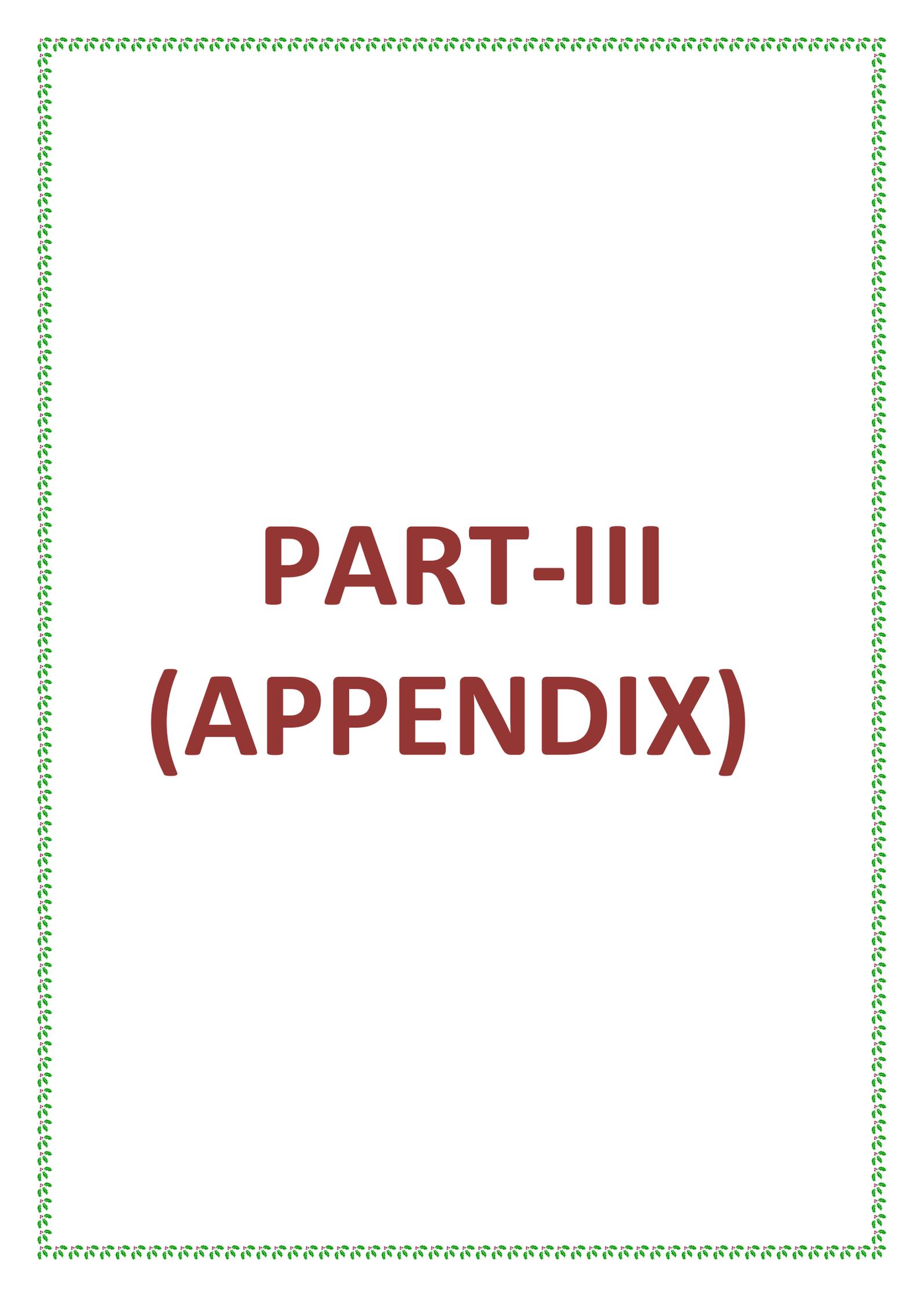
| Sl. No.            | State            | S E A S O N | A G E N C Y | Treated with     |                   |              |                   |                      |                   | Not treated with Manure or Fertiliser |                   | Pooled       |                   |      |
|--------------------|------------------|-------------|-------------|------------------|-------------------|--------------|-------------------|----------------------|-------------------|---------------------------------------|-------------------|--------------|-------------------|------|
|                    |                  |             |             | Fertilisers only |                   | Manures only |                   | Both Fert. & Manures |                   | No.of expts.                          | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac |      |
|                    |                  |             |             | No.of expts.     | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac | No.of expts.         | Yield Rate Kg/hac |                                       |                   |              |                   |      |
| 1                  | 2                | 3           | 4           | 5                | 6                 | 7            | 8                 | 9                    | 10                | 11                                    | 12                | 13           | 14                |      |
| 9                  | Karnataka        | Rabi        | C           | 14               | 1536              | 0            | 0                 | 12                   | 1358              | 8                                     | 1228              | 34           | 1401              |      |
|                    |                  |             | S           | 3                | 1008              | 0            | 0                 | 1                    | 1689              | 36                                    | 1303              | 40           | 1290              |      |
|                    |                  |             | P           | 17               | 1443              | 0            | NC                | 13                   | 1383              | 44                                    | 1289              | 74           | 1341              |      |
| 10                 | Madhya Pradesh   | Rabi        | C           | 32               | 3448              | 1            | 760               | 3                    | 1978              | 1                                     | 1619              | 37           | 3207              |      |
|                    |                  |             | S           | 99               | 3335              | 6            | 1546              | 25                   | 3961              | 28                                    | 2338              | 158          | 3189              |      |
|                    |                  |             | P           | 131              | 3363              | 7            | 1434              | 28                   | 3748              | 29                                    | 2313              | 195          | 3193              |      |
| 11                 | Maharashtra      | Rabi        | C           | 23               | 1550              | 0            | 0                 | 13                   | 1831              | 3                                     | 1824              | 39           | 1664              |      |
|                    |                  |             | S           | 52               | 1541              | 0            | 0                 | 2                    | 1378              | 4                                     | 1547              | 58           | 1536              |      |
|                    |                  |             | P           | 75               | 1544              | 0            | NC                | 15                   | 1770              | 7                                     | 1666              | 97           | 1587              |      |
| 12                 | Punjab           | Rabi        | C           | 4                | 4114              | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 4            | 4114              |      |
|                    |                  |             | S           | 102              | 4980              | 1            | 5299              | 2                    | 4846              | 0                                     | 0                 | 105          | 4981              |      |
|                    |                  |             | P           | 106              | 4947              | 1            | 0                 | 2                    | 4846              | 0                                     | 0                 | 109          | 4949              |      |
| 13                 | Rajasthan        | Rabi        | C           | 2                | 1229              | 0            | 0                 | 5                    | 2953              | 0                                     | 0                 | 7            | 2461              |      |
|                    |                  |             | S           | 52               | 4039              | 2            | 3259              | 12                   | 3189              | 4                                     | 2718              | 70           | 3795              |      |
|                    |                  |             | P           | 54               | 3935              | 2            | 3259              | 17                   | 3120              | 4                                     | 2718              | 77           | 3674              |      |
| 14                 | Uttar Pradesh    | Rabi        | C           | 25               | 4045              | 0            | 0                 | 7                    | 4077              | 0                                     | 0                 | 32           | 4052              |      |
|                    |                  |             | S           | 53               | 3396              | 5            | 3573              | 1                    | 3440              | 18                                    | 3464              | 77           | 3424              |      |
|                    |                  |             | P           | 78               | 3604              | 5            | 1974              | 8                    | 3997              | 18                                    | 3464              | 109          | 3608              |      |
| 15                 | Uttarakhand      | Rabi        | C           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | NC                |      |
|                    |                  |             | S           | 8                | 3568              | 27           | 2023              | 11                   | 3338              | 0                                     | 0                 | 46           | 2606              |      |
|                    |                  |             | P           | 8                | 3568              | 27           | 2023              | 11                   | 3338              | 0                                     | NC                | 46           | NC                |      |
| 16                 | West Bengal      | Rabi        | C           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | NC                |      |
|                    |                  |             | S           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | NC                |      |
|                    |                  |             | P           | 0                | NC                | 0            | 0                 | 0                    | NC                | 0                                     | 0                 | 0            | NC                |      |
| For states covered |                  |             | C           | 136              | 2926              | 1            | 760               | 51                   | 2412              | 12                                    | 1410              | 200          | NC                |      |
|                    |                  |             | S           | 551              | 3562              | 52           | 2362              | 92                   | 3450              | 131                                   | 2300              | 826          | NC                |      |
|                    |                  |             | P           | 687              | 3436              | 53           | 2331              | 143                  | 3080              | 143                                   | 2226              | 1026         | NC                |      |
| <b>BARLEY</b>      |                  |             |             |                  |                   |              |                   |                      |                   |                                       |                   |              |                   |      |
| 1                  | Haryana          | Rabi        | C           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | NC                |      |
|                    |                  |             | S           | 16               | 4250              | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | 16                | 4250 |
|                    |                  |             | P           | 16               | 4250              | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | 16                | NC   |
| 2                  | Himachal Pradesh | Rabi        | C           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | NC                |      |
|                    |                  |             | S           | 0                | 0                 | 6            | 1813              | 0                    | 0                 | 0                                     | 0                 | 6            | 1813              |      |
|                    |                  |             | P           | 0                | 0                 | 6            | 1813              | 0                    | NC                | 0                                     | NC                | 6            | NC                |      |
| 3                  | Punjab           | Rabi        | C           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | NC                |      |
|                    |                  |             | S           | 10               | 4125              | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 10           | 4125              |      |
|                    |                  |             | P           | 10               | 4125              | 0            | 0                 | 0                    | NC                | 0                                     | NC                | 10           | NC                |      |
| 4                  | Rajasthan        | Rabi        | C           | 6                | 3589              | 1            | 2084              | 4                    | 3173              | 0                                     | 0                 | 11           | 3301              |      |
|                    |                  |             | S           | 33               | 3852              | 2            | 3480              | 11                   | 3408              | 10                                    | 2988              | 56           | 3597              |      |
|                    |                  |             | P           | 39               | 3812              | 3            | 3015              | 15                   | 3345              | 10                                    | 2988              | 67           | 3549              |      |
| For states covered |                  |             | C           | 6                | 3589              | 1            | 2084              | 4                    | 3173              | 0                                     | 0                 | 11           | NC                |      |
|                    |                  |             | S           | 59               | 4006              | 8            | 2230              | 11                   | 3408              | 10                                    | 2988              | 88           | 3654              |      |
|                    |                  |             | P           | 65               | 3968              | 9            | 2214              | 15                   | 3345              | 10                                    | 2988              | 99           | NC                |      |
| <b>GRAM</b>        |                  |             |             |                  |                   |              |                   |                      |                   |                                       |                   |              |                   |      |
| 1                  | Andhra Pradesh   | Rabi        | C           | 32               | 1329              | 0            | 0                 | 25                   | 1153              | 0                                     | 0                 | 57           | 1252              |      |
|                    |                  |             | S           | 40               | 1343              | 0            | 0                 | 33                   | 17                | 1165                                  | 1                 | 1116         | 50                |      |
|                    |                  |             | P           | 72               | 1337              | 0            | 0                 | 58                   | 507               | 1165                                  | 1                 | 1173         | 108               |      |

| Sl. No.                   | State          | S E A S O N | A G E N C Y | Treated with     |                   |              |                   |                      |                   | Not treated with Manure or Fertiliser |                   | Pooled       |                   |     |
|---------------------------|----------------|-------------|-------------|------------------|-------------------|--------------|-------------------|----------------------|-------------------|---------------------------------------|-------------------|--------------|-------------------|-----|
|                           |                |             |             | Fertilisers only |                   | Manures only |                   | Both Fert. & Manures |                   | No.of expts.                          | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac |     |
|                           |                |             |             | No.of expts.     | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac | No.of expts.         | Yield Rate Kg/hac |                                       |                   |              |                   |     |
| 1                         | 2              | 3           | 4           | 5                | 6                 | 7            | 8                 | 9                    | 10                | 11                                    | 12                | 13           | 14                |     |
| 2                         | Bihar          | Rabi        | C           | 2                | 424               | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | 2                 | 424 |
|                           |                |             | S           | 9                | 712               | 0            | 0                 | 0                    | 0                 | 10                                    | 916               | 19           | 819               |     |
|                           |                |             | P           | 11               | 660               | 0            | 0                 | 0                    | 0                 | 10                                    | 916               | 21           | 782               |     |
| 3                         | Chattisgarh    | Rabi        | C           | 2                | 87                | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | 2                 | 87  |
|                           |                |             | S           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | 0                 | NC  |
|                           |                |             | P           | 2                | 87                | 0            | NC                | 0                    | NC                | 0                                     | NC                | 2            | NC                |     |
| 4                         | Gujarat        | Rabi        | C           | 8                | 1607              | 1            | 1918              | 1                    | 825               | 5                                     | 959               | 15           | 1360              |     |
|                           |                |             | S           | 0                | 0                 | 0            | 0                 | 2                    | 1266              | 0                                     | 0                 | 2            | 1266              |     |
|                           |                |             | P           | 8                | 1607              | 1            | 1918              | 3                    | 1119              | 5                                     | 959               | 17           | 1349              |     |
| 5                         | Haryana        | Rabi        | C           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | 0                 | NC  |
|                           |                |             | S           | 10               | 1485              | 0            | 0                 | 4                    | 937               | 10                                    | 1543              | 24           | 1418              |     |
|                           |                |             | P           | 10               | 1485              | 0            | NC                | 4                    | 0                 | 10                                    | 1543              | 24           | NC                |     |
| 6                         | Jharkhand      | Rabi        | C           | 0                | 0                 | 0            | 0                 | 2                    | 223               | 0                                     | 0                 | 2            | 223               |     |
|                           |                |             | S           | 0                | 0                 | 0            | 0                 | 2                    | 228               | 6                                     | 1398              | 8            | 1106              |     |
|                           |                |             | P           | 0                | NC                | 0            | NC                | 4                    | 225               | 6                                     | 1398              | 10           | 929               |     |
| 7                         | Karnataka      | Rabi        | C           | 11               | 493               | 5            | 624               | 8                    | 814               | 5                                     | 843               | 29           | 665               |     |
|                           |                |             | S           | 6                | 890               | 0            | 0                 | 4                    | 535               | 30                                    | 837               | 40           | 814               |     |
|                           |                |             | P           | 17               | 633               | 5            | 624               | 12                   | 721               | 35                                    | 838               | 69           | 751               |     |
| 8                         | Madhya Pradesh | Rabi        | C           | 22               | 1240              | 0            | 0                 | 8                    | 1765              | 8                                     | 826               | 38           | 1263              |     |
|                           |                |             | S           | 39               | 1379              | 2            | 1318              | 6                    | 1134              | 31                                    | 1395              | 78           | 1365              |     |
|                           |                |             | P           | 61               | 1328              | 2            | 1318              | 14                   | 1494              | 39                                    | 1278              | 116          | 1331              |     |
| 9                         | Maha-rashtra   | Rabi        | C           | 31               | 1220              | 2            | 1401              | 11                   | 1348              | 2                                     | 738               | 46           | 1238              |     |
|                           |                |             | S           | 24               | 1237              | 2            | 452               | 12                   | 1174              | 8                                     | 729               | 46           | 1098              |     |
|                           |                |             | P           | 55               | 1228              | 4            | 927               | 23                   | 1257              | 10                                    | 730               | 92           | 1168              |     |
| 10                        | Punjab         | Rabi        | C           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | 0                 | NC  |
|                           |                |             | S           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | 0                 | NC  |
|                           |                |             | P           | 0                | NC                | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | NC           | 0                 | NC  |
| 11                        | Rajasthan      | Rabi        | C           | 16               | 1068              | 3            | 942               | 1                    | 351               | 9                                     | 1076              | 29           | 1033              |     |
|                           |                |             | S           | 31               | 1492              | 3            | 894               | 2                    | 1351              | 28                                    | 1264              | 64           | 1360              |     |
|                           |                |             | P           | 47               | 1348              | 6            | 918               | 3                    | 1018              | 37                                    | 1218              | 93           | 1258              |     |
| 12                        | Uttar Pradesh  | Rabi        | C           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 2                                     | 911               | 2            | 911               |     |
|                           |                |             | S           | 4                | 990               | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 4            | 990               |     |
|                           |                |             | P           | 4                | 990               | 0            | NC                | 0                    | NC                | 2                                     | 911               | 6            | 964               |     |
| For states covered        |                |             | C           | 124              | 1162              | 11           | 970               | 56                   | 1177              | 31                                    | 923               | 222          | NC                |     |
|                           |                |             | S           | 163              | 1313              | 7            | 889               | 65                   | 508               | 1288                                  | 112               | 1401         | NC                |     |
|                           |                |             | P           | 287              | 1247              | 18           | 938               | 121                  | 818               | 1319                                  | 131               | 1623         | NC                |     |
| <b>RAPE &amp; MUSTARD</b> |                |             |             |                  |                   |              |                   |                      |                   |                                       |                   |              |                   |     |
| 1                         | Assam          | Rabi        | C           | 19               | 631               | 15           | 595               | 6                    | 761               | 10                                    | 510               | 50           | 612               |     |
|                           |                |             | S           | 22               | 710               | 4            | 532               | 4                    | 676               | 3                                     | 626               | 33           | 677               |     |
|                           |                |             | P           | 41               | 674               | 19           | 582               | 10                   | 727               | 13                                    | 537               | 83           | 638               |     |
| 2                         | Bihar          | Rabi        | C           | 18               | 945               | 2            | 994               | 2                    | 1465              | 1                                     | 1049              | 23           | 999               |     |
|                           |                |             | S           | 21               | 1023              | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 21           | 1023              |     |
|                           |                |             | P           | 39               | 987               | 2            | 0                 | 2                    | 1465              | 1                                     | 1049              | 44           | 1010              |     |
| 3                         | Chattisgarh    | Rabi        | C           | 2                | 435               | 2            | 960               | 0                    | 0                 | 10                                    | 230               | 14           | 364               |     |
|                           |                |             | S           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 12                                    | 312               | 12           | 312               |     |
|                           |                |             | P           | 2                | 435               | 2            | 960               | 0                    | NC                | 22                                    | 275               | 26           | 340               |     |
| 4                         | Gujarat        | Rabi        | C           | 18               | 1966              | 0            | 0                 | 5                    | 2288              | 2                                     | 1600              | 25           | 2001              |     |
|                           |                |             | S           | 10               | 1913              | 1            | 2080              | 5                    | 1819              | 1                                     | 1696              | 17           | 1882              |     |
|                           |                |             | P           | 28               | 1947              | 1            | 0                 | 10                   | 2054              | 3                                     | 1632              | 42           | 1953              |     |

| Sl. No.            | State          | S E A S O N | A G E N C Y | Treated with     |                   |              |                   |                      |                   | Not treated with Manure or Fertiliser |                   | Pooled       |                   |
|--------------------|----------------|-------------|-------------|------------------|-------------------|--------------|-------------------|----------------------|-------------------|---------------------------------------|-------------------|--------------|-------------------|
|                    |                |             |             | Fertilisers only |                   | Manures only |                   | Both Fert. & Manures |                   | No.of expts.                          | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac |
|                    |                |             |             | No.of expts.     | Yield Rate Kg/hac | No.of expts. | Yield Rate Kg/hac | No.of expts.         | Yield Rate Kg/hac |                                       |                   |              |                   |
| 1                  | 2              | 3           | 4           | 5                | 6                 | 7            | 8                 | 9                    | 10                | 11                                    | 12                | 13           | 14                |
| 5                  | Haryana        | Rabi        | C           | 2                | 2292              | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 2            | 2292              |
|                    |                |             | S           | 36               | 1715              | 0            | 0                 | 2                    | 1748              | 4                                     | 1669              | 42           | 1712              |
|                    |                |             | P           | 38               | 1746              | 0            | 0                 | 2                    | 1748              | 4                                     | 1669              | 44           | 1739              |
| 6                  | Jharkhand      | Rabi        | C           | 7                | 665               | 0            | 0                 | 6                    | 849               | 1                                     | 420               | 14           | 727               |
|                    |                |             | S           | 2                | 484               | 2            | 393               | 0                    | 0                 | 6                                     | 700               | 10           | 595               |
|                    |                |             | P           | 9                | 625               | 2            | 393               | 6                    | 849               | 7                                     | 660               | 24           | 672               |
| 7                  | Madhya Pradesh | Rabi        | C           | 18               | 1766              | 6            | 467               | 10                   | 1545              | 12                                    | 853               | 46           | 1310              |
|                    |                |             | S           | 6                | 1529              | 2            | 1043              | 0                    | 0                 | 10                                    | 811               | 18           | 1076              |
|                    |                |             | P           | 24               | 1707              | 8            | 611               | 10                   | 1545              | 22                                    | 834               | 64           | 1244              |
| 8                  | Punjab         | Rabi        | C           | 3                | 1766              | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 3            | 1766              |
|                    |                |             | S           | 14               | 1666              | 0            | 0                 | 0                    | 0                 | 2                                     | 1605              | 16           | 1658              |
|                    |                |             | P           | 17               | 1684              | 0            | NC                | 0                    | NC                | 2                                     | 1605              | 19           | 1675              |
| 9                  | Rajasthan      | Rabi        | C           | 21               | 1528              | 0            | 0                 | 3                    | 1635              | 24                                    | 1541              | 48           | 1541              |
|                    |                |             | S           | 60               | 1474              | 0            | 0                 | 9                    | 1733              | 4                                     | 1300              | 73           | 1496              |
|                    |                |             | P           | 81               | 1488              | 0            | NC                | 12                   | 1708              | 28                                    | 1507              | 121          | 1514              |
| 10                 | Uttar Pradesh  | Rabi        | C           | 51               | 1283              | 0            | 0                 | 4                    | 1051              | 0                                     | 0                 | 55           | 1266              |
|                    |                |             | S           | 13               | 1581              | 2            | 1826              | 0                    | 0                 | 0                                     | 0                 | 15           | 1614              |
|                    |                |             | P           | 64               | 1343              | 2            | 1826              | 4                    | 1051              | 0                                     | NC                | 70           | 1341              |
| 11                 | West Bengal    | Rabi        | C           | 83               | 1216              | 0            | 0                 | 27                   | 1325              | 0                                     | 0                 | 110          | 1243              |
|                    |                |             | S           | 0                | 0                 | 0            | 0                 | 0                    | 0                 | 0                                     | 0                 | 0            | NC                |
|                    |                |             | P           | 83               | 1216              | 0            | NC                | 27                   | 1325              | 0                                     | 0                 | 110          | NC                |
| For States Covered |                |             | C           | 242              | 1281              | 25           | 625               | 63                   | 1339              | 60                                    | 988               | 390          | 1203              |
|                    |                |             | S           | 184              | 1416              | 11           | 976               | 20                   | 1545              | 42                                    | 827               | 257          | 1310              |
|                    |                |             | P           | 426              | 1339              | 36           | 732               | 83                   | 1389              | 102                                   | 922               | 647          | NC                |

**Note:**

1. @ =In the light of introduction of concept of Kharif and Rabi seasons in the Tamil Nadu state from Agricultural year 2017-18 and consequent, categorization of crops, the data have been presented seasonwise instead of whole year.
2. NC- Not Comparable due to cessation of field work for Central sample during Covid-19 Pandemic.



# **PART-III**

## **(APPENDIX)**



## APPENDIX

### Procedure for estimation of area and yield rate of different crops along with the standard errors

#### I - Estimation of Area

1. Observations found during sample check on Area Enumeration are recorded in schedule AS 1.0. The schedule gives two sets of area figures under various crops for the selected 20 survey numbers, one set of figures as observed by the Senior Statistical Officers of NSO/State Supervisors and the other set as copied from the corresponding entries of the Khasra Register prepared by Patwari. Two separate estimates based on the patwari's record and Senior Statistical Officers/State Supervisors observations are prepared for comparison purpose.

The estimated area under a crop in the  $i^{\text{th}}$  stratum is given by :

$$\hat{Y}_i = \frac{N_i}{n_i} \sum_{j=1}^{n_i} \left[ \frac{H_{ij} \times a_{ij}}{S_{ij}} \right]$$

where

$\hat{Y}_i$

= Estimated Area under a crop in the  $i^{\text{th}}$  stratum

$a_{ij}$  = Total area under a crop in the selected clusters of survey numbers in  $j^{\text{th}}$  village of  $i^{\text{th}}$  stratum,

$S_{ij}$  = Number of selected survey/serial numbers in the  $j^{\text{th}}$  sample in the  $i^{\text{th}}$  stratum,

$H_{ij}$  = Highest survey/serial number in the  $j^{\text{th}}$  sample village in the  $i^{\text{th}}$  stratum,

$n_i$  = Number of sample villages analysed in the  $i^{\text{th}}$  stratum and

$N_i$  = Total number of revenue villages in the  $i^{\text{th}}$  stratum.

The estimates of area thus obtained for each stratum in a district are added to get the estimates of area at the district level ( $Y_d$ ) and the total of the district level estimates gives the state level estimate of area.

However, for unsurveyed villages for which total geographical area of the village is not available and selection of plots has been done by method of selection of households in the village, the village level estimate will be obtained by using the inflation factor:

$$\frac{\text{(Total number of households in the village)}}{\text{Number of sample households}} \times a_{ij}$$

where

$a_{ij}$  = Area under the crop in the plots belonging to selected households in the  $j^{\text{th}}$  sample village of  $i^{\text{th}}$  stratum.

The estimates of variance at district level is calculated from

$$V(Y_d) = \frac{N(N-n)}{n} \left[ \frac{\sum_{i=1}^{K^I} n_i Y_{ij}^2 - \left\{ \sum_{i=1}^{K^I} \sum_{j=1}^{n_i} Y_{ij} \right\}^2 / n}{(n-1)} \right]$$

where,

$Y_{ij}$  = estimated area under the crop in the  $j^{\text{th}}$  sample village in  $i^{\text{th}}$  stratum in the district which is given by

$$Y_{ij} = \frac{H_{ij}}{S_{ij}} \times a_{ij}$$

$K^I$  = the number of strata in a district in which the estimates of area under the reference crop is not zero.

$$N = \sum_{i=1}^{K^I} N_i \quad \text{and} \quad n = \sum_{i=1}^{K^I} n_i$$

The variance at state level is the sum of the variance of district level estimate.

The percentage standard error of the estimate of area at state level is obtained as follows:

$$\% \text{ Standard Error} = \frac{\text{SE of the Estimate}}{\text{Estimate}} \times 100$$

Where standard error is the square root of the state level variance which is the sum of variance of the district level estimates.

## 2. Estimates of area based on Sch. AS 1.1 data :

Patwari prepares crop abstracts on the basis of entries of area figures under different crops in the Khasra Register. Senior Statistical Officers of NSO/State Supervisor checks the page-wise totaling of area figures recorded under different crops under Khasra Register and records the corrected totals of area under crop alongwith the corresponding figures reported by Patwari in the crop abstract in schedule A.S.1.1. Based on these two sets of area figures under a crop in a village two estimates are prepared. The estimation procedure -for preparing these estimates is similar to that given at para 1 above.

## 3. Pooling of estimates:

The estimates of the Central and State samples at State level are pooled as under:

Let

$\hat{Y}_C$  = estimates of area at state level for Central sample.

$\hat{Y}_S$  = estimates of area at state level for State sample.

$\hat{V}_C$  = estimates of variance at state level for central sample and

$\hat{V}_S$  = estimates of variance at state level for state sample.

Calculate 
$$e_c = \frac{1}{\hat{V}_C} \quad \text{and} \quad e_s = \frac{1}{\hat{V}_S}$$

Then pooled estimate of area is given by

$$\hat{Y}_p = \frac{\hat{e}_c Y_c + \hat{e}_s Y_s}{\hat{e}_c + \hat{e}_s}$$

And an estimate of its variance by

$$V(\hat{Y}_p) = \frac{1}{\hat{e}_c + \hat{e}_s}$$

## II - Estimate of Yield Rates

Sample check a crop cutting experiments is planned on two experiments in a crop in each of the selected villages. The experiments are conducted by the State primary workers in the presence of Senior Statistical Officers /State Supervisors who supervise the experiment and also correct the errors, if any, in the conduct of the experiments. The corrected yield rate as observed by the Senior Statistical Officers/State Supervisors is filled in the schedule AS 2.0. On the basis of this information the estimates of yield rates for the district and state are worked out.

Let ,

$Y_{ijk}$  = plot yield in gms. in the  $k^{\text{th}}$  experimental plot of  $j^{\text{th}}$  sample village in the  $i^{\text{th}}$  district,

$n_{ij}$  = number of experiments analysed in the  $j^{\text{th}}$  sample village of the  $i^{\text{th}}$  district,

$n_i$  = number of experiments analysed in the  $i^{\text{th}}$  district,

$a_i$  = area under the crop in the  $i^{\text{th}}$  district,

$m_i$  = number of sample villages in which experiments are analysed in the  $i^{\text{th}}$  district,

$E$  = mean square of yield between villages,

$F$  = mean square of yield within villages and

$d$  = number of districts in the State.

Then simple average of yield in the sample experiments under the crop in  $i^{\text{th}}$  districts given by:-

$$\bar{Y}_i = \frac{\sum_{j=1}^{m_i} \sum_{k=1}^{n_{ij}} Y_{ijk}}{n_i}$$

and the estimated average yield rate at state level is given by

$$\bar{Y} = \frac{\sum_{i=1}^d a_i \times \bar{Y}_i}{\sum_{i=1}^d a_i}$$

Average yield thus obtained is converted to dry grain yield in terms of Kg./Ha.

The estimated variance of estimated yield rate at state level is given by

$$V(\bar{Y}) = \frac{\left[ F \sum_{i=1}^d \frac{a_i^2}{n_i} + (E - F) \sum_{i=1}^d \frac{a_i^2 \sum_{j=1}^{m_i} n_{ij}^2}{\lambda_i n_i^2} \right]}{\left[ \sum_{i=1}^d a_i \right]^2}$$

Where

$V(\bar{Y})$  = Estimated variance of the estimate of average yield at state level

$$n_i^2 - \sum_{j=1}^{m_i} n_{ij}^2$$

Where  $\lambda_i =$  \_\_\_\_\_

$$n_i (m_i - 1)$$

$$E = \frac{\sum_{i=1}^d \left[ \frac{\sum_{j=1}^{m_i} \frac{n_{ij} (\sum_{k=1}^{n_{ij}} Y_{ijk})^2}{n_{ij}} - \frac{(\sum_{j=1}^{m_i} \sum_{k=1}^{n_{ij}} Y_{ijk})^2}{n_i}}{m_i} \right]}{\sum_{i=1}^d (m_i - 1)}$$

$$F = \frac{\sum_{i=1}^d \left[ \sum_{j=1}^{m_i} \sum_{k=1}^{n_{ij}} Y_{ijk}^2 - \sum_{j=1}^{m_i} \frac{(\sum_{k=1}^{n_{ij}} Y_{ijk})^2}{n_{ij}} \right]}{\sum_{i=1}^d (n_i - m_i)}$$

And percentage standard error is given by

$$\% SE(\bar{Y}) = \frac{\sqrt{V(\bar{y})}}{\bar{y}} \times 100$$

**Abbreviations used in various Annexures**

|                            |                     |                           |
|----------------------------|---------------------|---------------------------|
| C = Central                | S = State           | P = Pooled                |
| NA= Not Available          | NC= Not Calculated  | NR= Not Reported/Received |
| E.Kh.= Early Kharif        | L.Kh. = Late Kharif | Wh.Year= Whole Year       |
| R-I= Rabi-I                | R-II= Rabi-II       | Sum. = Summer             |
| Ph-I=Phase-I               | Ph-II=Phase-II      | Ph-III=Phase-III          |
| HYV= High Yielding Variety | F=Fertilisers       | L= Local                  |
| Irr. = Irrigated           | UI= Un-Irrigated    | NP= Not prepared          |
| Tra=Traditional            |                     |                           |

**State-wise seasons covered under ICS**

| Sl. No. | State            | E. Kharif    | L.Kharif    | Rabi      | Summer             |
|---------|------------------|--------------|-------------|-----------|--------------------|
| 1       | Andhra Pradesh   |              | Kharif      | Rabi      |                    |
| 2       | Assam            | Early Kharif | Late Kharif | Rabi      | Summer             |
| 3       | Bihar            | Bhadai       | Aghani      | Rabi      | Summer             |
| 4       | Chhattisgarh     |              | Kharif      | Rabi      |                    |
| 5       | Gujarat          |              | Kharif      | Rabi      | Summer             |
| 6       | Haryana          |              | Kharif      | Rabi      |                    |
| 7       | Himachal Pradesh |              | Kharif      | Rabi      |                    |
| 8       | Jammu & Kashmir  |              | Kharif      | Rabi      |                    |
| 9       | Jharkhand        | Bhadai       | Aghani      | Rabi      | Summer             |
| 10      | Karnataka        |              | Kharif      | Rabi      | Summer             |
| 11      | Kerala           | Autumn       | Winter      |           | Summer/ Whole Year |
| 12      | Madhya Pradesh   |              | Kharif      | Rabi      |                    |
| 13      | Maharashtra      |              | Kharif      | Rabi      | Summer             |
| 14      | Odisha           | Autumn       | Winter      |           | Summer             |
| 15      | Punjab           |              | Kharif      | Rabi      |                    |
| 16      | Rajasthan        |              | Kharif      | Rabi      |                    |
| 17      | Tamil Nadu       | Phase-I      | Phase-II    | Phase-III |                    |
| 18      | Uttar Pradesh    |              | Kharif      | Rabi      | Summer             |
| 19      | Uttarakhand      |              | Kharif      | Rabi      | Summer             |
| 20      | West Bengal      | Aus.         | Aman        | Rabi      | Summer             |
| 21      | Puducherry       |              | Kharif      | Rabi-I    | Rabi-II            |