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ESTIMATES OF NUMBER, BIRTH, DEATH AND CALVING  
INTERVAL OF BOVINES

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DEPARTMENT OF STATISTICS  
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NATIONAL SAMPLE SURVEY  
THIRTIETH ROUND (JULY 1975 - JUNE 1976)

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NATIONAL SAMPLE SURVEY  
THIRTIETH ROUND (JULY 1975-JUNE 1976)

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OF BOVINES

SECTION ONE

Introduction

- 1.0 A comprehensive survey on the livestock number, products and enterprises was carried out in the thirtieth round of NSS (July 1975 - June 1976) with a view to filling up the gap in the field of animal husbandry statistics.
- 1.1 Geographical Coverage : The survey covered the whole of the Indian Union excepting Ladakh district of Jammu & Kashmir; rural areas of Pal and Samri tehsils of district Sarguja and Bijapur, Dantewara, Kanta and Narayanpur tehsils of district Eastar of Madhya Pradesh; Rajura, Sironcha and Gadh - Chiroli tehsils of district Chandrapur and Melghat tehsil of district Amravati of Maharashtra; rural areas in Nagaland; the disturbed villages of Tripura; rural areas of the Union Territory of Chandigarh; the Union Territories of Andaman and Nicobar island, Mizoram, Laccadive, Minicoy and Aminidivi Islands and Dadra & Nagar Haveli.
- 1.2 Sample size and field work : The survey was carried out in 18856 sample villages and 20440 urban sample blocks. Of these, 8512 sample villages and 9744 blocks formed the Central Sample and were surveyed by the NSSO staff belonging to its Field Operation Division. Under the NSS matching scheme the remaining villages and blocks constituting the State Sample were surveyed by the field staff of the respective State Statistical Agencies. 24 households from each of the sample villages and 24 households, on an average, from a urban sample block were selected for the survey.<sup>1/</sup>
- 1.3 Subject Coverage : The following six schedules of investigation were canvassed in the survey : (i) Household Schedule 19.1 - cattle, buffalo, yak, mithun and poultry, (ii) Household Schedule 19.2 - horse, donkey, mule, camel and elephant, (iii) Household Schedule 19.3 - sheep, goat and pig. (iv) Household Schedule 19.4 - consumption of livestock products. (v) Household Schedule 20 - livestock enterprises and (vi) Schedule 20.1 - Non-household livestock enterprises. Thus the survey covered all the livestock

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<sup>1/</sup> For details, see the note on Sampling Design and Estimation Procedure given in Appendix - I.

possessed in the household sector (through schs. 19.1, 19.2, 19.3) and also such non-household establishments which are not registered under 2m(i) or 2m(ii) of Factories Act, 1948 and engaged in the enterprises such as (i) dairy, (ii) poultry and (iii) piggery (sch. 20.1). Besides this, some ancillary village level data having some bearing on the development of animal husbandry activities were also collected through a village schedule 3.1. In addition, one village schedule 3.2 was also canvassed in the sample villages for collecting information on migratory flocks of bovines, pack animals and bovines.

1.4 Tabulation programme on Schedule 19.1 : Since bovine population forms the most important category of livestock, an elaborate programme for tabulating the data collected through Schedule 19.1 ( i.e. on bovine and poultry ) has been approved by the Governing Council of the NSSO. The tabulation programme had been planned in such a manner that the first phase tabulation provided only estimates on proportion of animals in milk to milch animals, quantity of milk produced and concentrates used per animal in-milk classified by species, age-groups and also by intervals since calved, quantity of milk produced per producer household (separately for cows and buffaloes ), sale of fluid milk and milk products by producer households etc. From the second phase tabulation, estimates obtained were the average number of livestock possessed classified by age, sex, use, household land possessed, industry division, type of breed etc., birth, death and fertility rates of bovines, calving interval of adult females, increment in stock etc.

1.5 Content of the report : The present report is based on the survey results obtained from phase two tabulation. In section Two, the <sup>summary</sup> findings of the survey results have been presented and discussed. The tables showing survey results at the state and all-India levels for rural and urban sector separately are presented in Appendix-II. In table (1) is given the number of animals classified by species, age and sex along with the sex ratio in each age-group. In table (2) is shown the number of births classified by species and sex for different age-groups of mother at birth along with the age-specific fertility rate. This table has also provided the number of animals born during the year and died in the same year. Table (3) provides the data on the number of animals died cross classified by species, sex and age and also the age specific death rate for male and female bovines.

Table (4) gives the average interval between two calvings based on those adult females who have calved atleast twice and average period of previous lactation of the animals who are dry on the date of survey. Besides, average age at first calving separately for cow and buffalo is also shown in this table.

1.6 Participation of States : All the States and Union Territories except Gujarat, Haryana, Maharashtra, Orissa, Delhi and Goa, Daman & Diu participated in the survey on full matching basis. While Gujarat and Delhi had double matching sample in both rural and urban sectors, Maharashtra and Orissa participated on double matching basis in rural sector only and on full matching basis in urban sector. Haryana had a sample size of two and a half times the Central Sample in rural areas and double matching sample in urban areas while for Goa, Daman & Diu, the sample size was four times the size of the Central Sample in rural areas and three times in urban areas.

## SECTION TWO

### IMPORTANT FINDINGS OF THE SURVEY

2.0 The important findings of the survey, such as the size and composition of the bovine population, birth and death particulars of these animals and average interval between two calvings for female cattle and buffalo are discussed in this section. It may be mentioned that the estimates presented in this report are based on information obtained from household sector only.

2.1 Size and composition of the bovine population : The survey results indicate that during the mid period of July 1975 to June 1976 the bovine population in the household sector for the country as a whole <sup>was</sup> of the order of 213 millions, of which 158 millions were cattle and 55 millions were buffaloes.

2.2 Of the total bovine population coming under the survey coverage, female are found to be more than the male. For the country as a whole for every 100 male bovine, the estimated number of female bovine are little over 111. However, among the adult bovine (i.e. animals aged 3 years or more), which is estimated to be about 71 percent of the total, male and female are more or less evenly distributed. Thus, male and female bovine, a source respectively of draught power and milch animal seems to be evenly balanced in the economy of the household sector. Since about 96 percent of the total bovine is possessed by the rural households, the all-India pattern conform to the pattern obtaining in the rural areas although in the urban areas, the total female bovine is more than twice the number of the male counterpart. In the rural sector, the percentages of adult male and adult female animals. This difference is more noticeable among the adult/female to total bovine are reported as 36.10 and 35.01 respectively, the corresponding percentages are 19.96 and 45.46, for the urban sector. The dominance of female bovine in the urban sector is obviously due to the fact that urban households possess bovine mainly for the purposes of milk production and the requirement of draught animal in the urban economy is limited. This has, probably, led to the migration of large number of female bovine from rural to urban sector and male bovine from urban to rural sector and the different sex ratios among the bovine population in these two ~~migration~~ sectors are the resultant effect of this migratory movement.

2.3 Of the total bovine population, about three-fourths are cattle, buffaloes constituting a little more than one-fourth only. There are noticeable differences in the age and sex composition of these two categories, the

pattern being different in rural and urban sectors as may be seen from Table (I) below :

Table (I) : Composition of bovine population in India separately for rural, urban and rural and urban pooled

( lakhs)

age-sex group	cattle			buffalo			total		
	number	p.c.	sex ratio	number	p.c.	sex ratio	number	p.c.	sex ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Sector : rural & urban pooled									
adult : male	684.9	43.41	x	72.6	13.08	x	757.5	35.51	x
" : female	469.5	29.75	x	285.3	51.41	x	754.8	35.39	x
" : total	1154.4	73.16	146	357.9	64.49	25	1512.3	70.90	100
young : male	193.6	12.27	x	58.9	10.61	x	252.5	11.84	x
" : female	229.9	14.57	x	138.2	24.90	x	368.1	17.26	x
" : total	423.5	26.84	84	197.1	35.51	43	620.6	29.10	69
grand total	1577.9	100.00	126	555.0	100.00	31	2132.9	100.00	90
Sector : rural									
adult : male	670.8	44.00	x	71.3	13.43	x	742.1	36.10	x
" : female	448.9	29.44	x	270.8	51.00	x	719.7	35.01	x
" : total	1119.7	73.44	149	342.1	64.43	26	1461.8	71.11	103
young : male	186.4	12.23	x	56.4	10.62	x	242.8	11.81	x
" : female	218.6	14.33	x	132.5	24.95	x	351.1	17.08	x
" : total	405.0	26.56	85	188.9	35.57	43	593.9	28.89	69
grand total	1524.7	100.00	128	531.0	100.00	32	2055.7	100.00	92
Sector : urban									
adult : male	14.1	26.50	x	1.3	5.41	x	15.4	19.96	x
" : female	20.6	38.72	x	14.5	60.42	x	35.1	45.46	x
" : total	34.7	65.22	68	15.8	65.83	9	50.5	65.42	44
young : male	7.2	13.53	x	2.5	10.42	x	9.7	12.56	x
" : female	11.3	21.24	x	5.7	23.75	x	17.0	22.02	x
" : total	18.5	34.77	64	8.2	34.17	44	26.7	34.58	57
grand total	53.2	100.00	67	24.0	100.00	19	77.2	100.00	48



In the case of cattle, the percentage of adult animals to total animals is 73.44 and 65.22 respectively in the rural and urban areas indicating presence of proportionately more young stock in the urban areas. However, for buffalo, no such difference is observed. The said percentages being 64.43 and 65.83 respectively in these two areas. It is also seen that the proportion of young stock is more for buffalo (35.57) than for cow (26.56) in the rural areas whereas in the urban areas the said proportion for cattle and buffalo is by and large equal. The number of calves born depends on the number of adult females, hence a relatively high proportion of adult females is expected to increase the proportion of young stock in the bovine population. Nevertheless, this does not fully explain the observed variations of the ratio between the adult females and the young stock between species and between sectors. The other relevant factors would be mortality rates among young stock, fertility rates of female animals etc. So far as sex ratio is concerned, cattle and buffalo happen to have extremely divergent <sup>ratios</sup> in the rural sector. While among the adult animals in rural areas, there are 149 males for every 100 females in the case of cattle, the number of male buffalo is only 26 for every 100 female buffalo. Surprisingly, when only the young stock (i.e. below 3 years) is considered, female are more than the male both in the case of cattle and buffalo, the sex ratio being 85 and 43 respectively. All these lead to the conclusion that the rural households, by and large, prefer to possess cattle more as a source of draught power and buffalo for the purpose of milk production. In urban areas, on the other hand, the number of adult female is more than that of adult male for cattle as well as buffalo. Here also, the proportion of adult male to adult female is relatively more among cattle.

2.4 The number of cattle and buffalo by sex in rural and urban areas combined are shown in Table (II) below for the major states and all-India.

Table (II) : The number of bovines by sex and species in rural and urban sectors combined

( in thousands )

state	cattle			buffalo		
	male	female	total	male	female	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. Andhra Pradesh.	5692	4346	10038	1815	4682	6497
2. Assam	3060	2335	5395	219	98	317
3. Bihar	8462	5205	13667	1023	2635	3658
4. Gujarat	3408	2073	5481	216	3095	3311
5. Haryana	1152	1078	2230	379	2338	2717
6. Himachal Pradesh	1075	942	2017	46	486	532
7. Jammu & Kashmir	813	912	1725	61	314	375
8. Karnataka	4779	4591	9370	524	2458	2982
9. Kerala	697	1844	2541	253	187	440
10. Madhya Pradesh	12487	10850	23337	1673	3154	4827
11. Maharashtra	7045	5369	12414	595	2314	2909
12. Orissa	5104	3715	8819	511	246	757
13. Punjab	1614	1424	3038	647	3614	4261
14. Rajasthan	5302	5824	11126	845	3836	4681
15. Tamil Nadu	4497	4362	8859	375	1908	2283
16. Uttar Pradesh	16151	8748	24899	3398	10634	14032
17. West Bengal	5834	5696	11530	510	160	670
18. All-India	87854	69937	157791	13153	42347	55500

As expected, the number of bovine population and its composition varies widely between the states. Uttar Pradesh is found to possess the highest number of cattle followed by Madhya Pradesh. These are the two states which have crossed the 20 million mark. Bihar, Maharashtra, West Bengal, Rajasthan and Andhra Pradesh arranged in the descending order of their ranks are the states which are found to possess cattle within the range of 10 million to 14 million. The number of buffalo is by far the highest, again in Uttar Pradesh. Andhra Pradesh which comes next, possesses not even half of the number of buffaloes found in Uttar Pradesh. Madhya Pradesh, Rajasthan and Punjab, in order of their rank, are the only states which reported the number of buffalo to be between 4 to 5 million.

2.5 Generally in a state, the number of cattle is found to be more than that of buffalo. But in some of the states of eastern region, namely, West Bengal, Assam and Orissa, cattle is by far the dominant constituent of bovine population. The percentage of total cattle to total bovine is more than 90 in all of these states. On the other hand, Punjab and Haryana are the exception to the general pattern, about 42 and 45 percent of the total bovine being cattle respectively in these two states. Considering male and female animals separately, it is observed that male cattle outnumber the male buffalo in all the states without any exception. For female animals, however, the case is different. Here, a wide variation is observed between the states. In Punjab, Haryana, Gujarat, Uttar Pradesh and Andhra Pradesh, she-buffaloes are found to be larger than cows, the percentages of cows to total female bovines being 28, 32, 40, 45 and 48 respectively. In the rest of the states, cows are found to be larger than she-buffaloes. Particularly, in some of the states of eastern region namely, West Bengal, Assam and Orissa and also in Kerala, cows account for as large as 90 percent of the total female bovine inspite of the fact that the yield rate of buffalo is almost twice of that of the cow. Further, the survey reveals that the male cattle exceeds the number of cows in all the states except in Kerala, Rajasthan and Jammu & Kashmir where cows are much larger in number than the male cattle. For buffaloes, the position is just the opposite. The number of she buffaloes is substantially higher than the male buffaloes except in Assam, Orrisa, West Bengal and Kerala where male outnumbers the female. All these indicate that in these states cattle and buffalo are equally important both as a draught animal and also for milk production.

2.6 Birth particulars : At all-India level, the number of births in a year has been estimated in the NSS 30th round survey to be 16641900 and 10699000 respectively for cattle and buffalo in the rural areas and 983600 and 711100 in the urban areas. In estimating the number of births, the number of still-births ( i.e. animals born dead ) has not been taken into account. A wide variation in the crude birth rate <sup>2/</sup> between species as also between rural and urban areas is observed from Table (III).

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$$2/ : \text{crude birth rate for a species} = \frac{\text{number of live births by species}}{\text{number of animals by species}} \times 1000$$

Table (III) : Birth rate per 1000 animals by species separately for rural and urban areas of some major states and all-India

state	birth rate			
	rural		urban	
	cattle	buffalo	cattle	buffalo
(1)	(2)	(3)	(4)	(5)
1. Andhra Pradesh	91	199	122	267
2. Assam	151	69	242	77
3. Bihar	88	167	160	204
4. Gujarat	69	197	117	246
5. Haryana	139	254	235	332
6. Himachal Pradesh	116	217	178	300
7. Jammu & Kashmir	121	140	198	225
8. Karnataka	111	230	163	319
9. Kerala	196	116	236	183
10. Madhya Pradesh	112	154	183	313
11. Maharashtra	115	234	171	341
12. Orissa	106	84	189	136
13. Punjab	130	250	221	323
14. Rajasthan	140	219	200	267
15. Tamil Nadu	92	180	81	328
16. Uttar Pradesh	87	206	190	284
17. West Bengal	136	57	223	452
18. All-India	109	202	185	296

Estimates presented in Table (III) indicate certain features relating to birth rates of cattle and buffaloes. It is observed that the birth rate for cattle and buffaloes are higher in the urban areas than those in the rural areas in all the states except in Tamil Nadu where the birth rate of cattle is found to be higher in the rural areas. Secondly, between species, higher birth rate is observed for buffalo in both the sectors for majority of the states. At the all-India level, the birth rate for buffalo is nearly double than that for the cattle in the rural sector. However, a different pattern is noticed in West Bengal, Assam, Orissa and Kerala where the birth rate is more for cattle as against buffalo in both the sectors except the urban

areas of West Bengal. The reason for the low birth rate of buffalo may be attributed to the fact that these are the states where out of total buffalo, percentage of adult female buffalo is low (24, 31, 32 and 42) compared to the said percentages observed in other states. Among the states, the birth rate of cattle is highest in Kerala (196) followed by Assam (151), Rajasthan (140) and Haryana (139). In the case of buffalo, the prime position goes to Haryana (254) closely followed by Punjab (250), next in order, are Maharashtra (234) and Karnataka (230).

2.7 Sex-ratio at birth is considered a biological constant, varying with in a narrow limit. The survey results reveal that the said ratio at all-India level is 81 and 73 per 100 female births respectively for cattle and buffalo in the rural areas and as low as 74 and 73 in the urban areas. The sex ratio at birth is less than 90 in most of the states which palpably suggests some under reporting of male births in the survey. Information on births was collected from the households where the events took place. There is, therefore, a possibility of missing such information from those households where, on the date of enumeration, no bovine was found to be possessed although births had taken place during the preceding 365 days and the owner had subsequently disposed of the female bovine along with the calf. It is felt that further probing is necessary to find out the reason for sex-selective under reporting in the case of bovine.

2.8 Fertility rate : To measure the fertility performance, the general fertility rate i.e. ratio of total births to total females in the reproductive age group is most commonly used. Since the reproductive age of cows and she-buffaloes vary with variety (improved and deshi) and type of breed, the fertility rate in the form of "number of the births per 1000 female population" separately for cattle and buffalo in the rural and urban areas together with the age specific fertility rates (number of total births by age group of mothers per 100 female animals in the corresponding age group) for the same has been presented in Table 2 of Appendix II. It may be seen that the fertility rate in respect of both cow and she-buffalo is higher in the urban areas of almost all states with a few exception like Assam for cattle and Orissa and West Bengal for buffalo. Although, between species, the fertility rate for buffalo is higher in majority of the states and also at all-India level, the difference is not as sharp as revealed by

the analysis of the birth rate.

2.9 It is further observed that for cattle and buffalo, the age specific fertility rate, following the expected pattern, rises upto a certain age-group and then gradually falls. At the all-India level, the peak point is reached at age-group 5-6 years both for cattle and buffalo in rural and urban sectors. As usual, the fertility rate of buffalo is higher in all age-groups except in the age-group 3-4 in urban areas. The first age-group (2 years) is not considered for comparison as very few births are recorded here under cattle or buffalo.

2.10 Reproductive age of female bovine : Here an attempt is made to construct the bound of the reproductive age-group for cows and she-buffaloes from the distribution of births over the age-group of mothers and other related factors as revealed from the survey data. Age is recorded in completed years. At all-India level, the percentage of "females in the age group 16 and above" to total females works out to be 0.62 and 0.82 respectively for cattle and buffalo in rural and urban sectors combined whereas the said percentages in respect of females in the next lower age-group i.e. age-group 13-15 come out as 2.47 and 3.03 for the afore said two species. Thus, it appears that very few female bovine reach the age 16 and above. Still some births have been reported in the age-group of mothers 16-18 as also in the group 19 & above. But in terms of percentage to total births, births under these two groups taken together are 0.46 and 0.65 only, in contrast to 2.69 and 3.80 observed in the age-group of mothers 13-15 respectively for cattle and buffalo. Thus, for all practical purposes, 15 years may be reasonably considered as the terminal point of the reproductive age of bovines. On similar grounds, mothers at age 2 may also be ignored. Thus, the effective reproductive life of cattle and buffalo is likely to be closer to the age-group 3-15. An alternative method is tried to fix up the upper age limit on the basis of average period of intervals between two calvings, age at first calving and number of times calved, on an average, by an animal belonging to the last age-group i.e. 16 and above <sup>3/</sup>. The underlying assumption in

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<sup>3/</sup> Average period of intervals between two calvings and age at first calving have been taken from table 4 of Appendix -II and number of times calved by an animal is derived from the unpublished survey data of this round.

choosing the age-group 16 and above is that animals in this age-group have already crossed or are at the flag end of their reproductive life and hence will give an idea about the total number of births by an animal during its full reproductive period. The upper limits of the reproductive age of cattle and buffalo in rural and urban areas as estimated by the alternative approach on the basis of all-India rates are shown in Table (IV).

Table (IV) : Average interval between two calvings, age at first calving and age at last calving separately for cattle and buffalo in rural and urban sectors

species sector		average period of calving interval (months)	av. no. of times calved by animals aged 16 & above	no. of times calved excluding the first calving	total interval between 1st calving and last calving (months) (cols. 3 x col. 5)	age at 1st calving (months)	age at last calving (years) (cols. 6+7)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
cattle	rural	23	6.25	5.25	121	48	14.06
	urban	21	6.97	5.97	125	46	14.25
buffalo	rural	21	7.06	6.06	127	47	14.50
	urban	21	6.82	5.82	122	46	14.00

Thus, it is seen that the age at last calving which may be considered as the upper limit of the reproductive age is around 14 both for cattle and buffalo and is in fair conformity with the tentative conclusion reached earlier.

2.11 Having derived the bounds for the reproductive age of female bovines from the survey data, an attempt is now made to get the general fertility rate in the form of total live births per 1000 females in the reproductive age. The reproductive age has been taken as the age-group 3-15 years, age being taken in completed years. The estimates of general fertility rates for the major states and all-India are presented in Table (V).

Table (V) : Number of births per 1000 females in the reproductive age-group i.e. age group 3-15 by species separately for rural and urban sectors

state	general fertility rate			
	rural		urban	
	cow	she-buffalo	cow	she-buffalo
(1)	(2)	(3)	(4)	(5)
1. Andhra Pradesh	313	425	425	477
2. Assam	543	307	532	333
3. Bihar	356	341	454	400
4. Gujarat	268	327	336	385
5. Haryana	498	487	639	596
6. Himachal Pradesh	384	336	558	517
7. Jammu & Kashmir	346	250	434	409
8. Karnataka	327	409	454	494
9. Kerala	449	383	486	350
10. Madhya Pradesh	350	347	477	513
11. Maharashtra	416	443	540	536
12. Orissa	382	355	508	358
13. Punjab	458	460	606	548
14. Rajasthan	412	414	495	497
15. Tamil Nadu	275	369	456	449
16. Uttar Pradesh	378	405	532	499
17. West Bengal	427	434	487	654
18. All-India	374	400	484	497

So far as rural urban differentials are concerned, fertility rate is higher in urban sector for both the species in all the states except in Assam for cow and in Kerala for she-buffalo. Between species, the fertility rate for she-buffalo at the all-India level is higher in both the areas but quite close in the urban areas. If the said comparison is made at state level, the higher fertility rate for cow is seen in nearly half of the states in rural areas and in more than half the number of states in the urban areas, although, as has been stated earlier, the birth rate for



buffalo is higher than that of cow in most of the states. This difference is explained by the fact that the percentage of adult female to total animal is lower in the case of cattle compared to the said percentage for buffalo. The rates vary widely between the states. For example, in the rural areas the fertility rate of cow is as low as 275 in Tamil Nadu and as high as 543 in Assam. Similarly, for buffalo, Jammu & Kashmir records 250 which is the lowest as against 487, the highest rate, observed in Haryana. It is also seen, that in comparison to other states, the over all fertility performance is generally better for both the species in both rural and urban sectors in Haryana, Punjab, Maharashtra, West Bengal and to some extent in Kerala.

2.12 Infant mortality rate : It is well known that mortality rate particularly at the early age is very high among the bovine group. The estimates of animals born during the year preceeding the date of survey and died in the same year have been shown in Table 2 of Appendix II along with the birth particulars and fertility rates. In this connection it may be noted that the events of birth, in some cases, might have taken place, the day earlier than the date of enumeration and in some cases, 365 days preceeding the date of survey. Assuming that the event is evenly distributed over time, it may be stated that the animals born during the year are open to risk of death for about 26 weeks. Utilising these estimates of deaths in the reference year of the calves born during the reference period, an attempt is made to interpret the infant death proportion in the form of "number of animals born during the year and died in the same year per 1000 animals born in the same year". A wide variation in this rate between rural and urban areas as also between cattle and buffalo is observed. While for cattle, the said rate is 61 and 83 in the rural and urban areas, for buffalo it has been found to be as high as 170 and 282 respectively in these two areas at the all-India level. To get a better insight in the infant mortality rates, the estimate of infant death rate i.e. the number of animals died at age '0' ( infants of age at less than one year ) per 1000 births in a year has also been calculated and presented in Table VI for rural areas only separately for males and females and also combining males and females together.

Table (VI) : Number of animals died at age '0' per 1000 births in a year by sex separately for cattle and buffalo in rural sector for the major states and all-India

s t a t e	death at age '0' per 1000 births					
	cattle			buffalo		
	M	F	T	M	F	T
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. Andhra Pradesh	81	88	85	291	180	221
2. Assam	36	21	26	154	66	87
3. Bihar	88	67	76	358	198	262
4. Gujarat	195	185	189	543	281	368
5. Haryana	58	131	94	441	171	298
6. Himachal Pradesh	217	151	180	781	323	526
7. Jammu & Kashmir	220	119	166	989	222	412
8. Karnataka	137	124	129	392	247	301
9. Kerala	157	110	132	427	506	469
10. Madhya Pradesh	98	75	86	253	140	192
11. Maharashtra	79	76	77	397	268	325
12. Orissa	82	93	88	303	160	217
13. Punjab	128	166	147	312	258	283
14. Rajasthan	123	118	121	338	130	227
15. Tamil Nadu	92	84	88	296	239	259
16. Uttar Pradesh	155	134	144	476	237	342
17. West Bengal	47	33	38	352	106	197
18. All-India	107	91	98	392	216	290

From the estimates of Table VI it appears that male calves are more susceptible to death than the female calves, the difference in the different death rates between sex being very much pronounced in case of buffalo than for cow. Between the states, Gujarat is found to have the highest death rate of cattle, closely followed by Himachal Pradesh. On the other-hand, Assam and West Bengal record the lowest two death rates. For buffalo, Himachal Pradesh and Kerala show a very high rate, 526 and 412 respectively in contrast to 87 and 197 observed for Assam and West Bengal.

2.13 Age specific death rate : Based on the information collected in the survey on the death events of bovine by age at death, the age specific death rates separately for cattle and buffalo with breakups by sex have been derived for the rural areas of India. In arriving at these rates, deaths due to slaughter have been ignored and only natural deaths have been considered. Age specific death rates give an index of the number of deaths in an age-group per 1000 animals in the same age group and these rates are presented in Table VII below :

Table (VII) : Age specific death rate and sex-ratio of surviving animals separately for cattle and buffalo in the rural sector at all-India level.

age group	All-India				rural			
	c a t t l e				b u f f a l o			
	death rate			sex-ratio of live animals <sup>4/</sup>	death rate			sex-ratio of live animals <sup>4/</sup>
male	female	total	male		female	total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. 0	130	110	119	81	604	268	392	59
2. 1	61	53	56	86	122	56	76	43
3. 2	29	24	27	90	72	25	35	25
4. 3-4	28	21	24	77	59	26	32	23
5. 5-6	20	28	24	124	39	28	32	32
6. 7-9	22	34	26	170	38	31	32	28
7. 10 & above	54	76	60	236	77	46	52	22
8. all ages	41	46	43	128	189	63	94	32

<sup>4/</sup> number of males per 100 females in the population.

It is seen from Table (VII) that among cattle, the death rate is relatively higher for males than females at lower age groups while at higher age-groups of five or more, the death rate of females exceeds that of males. The sex ratio of live cattle exhibits an increasing trend over the age-groups except for the age-group 3-4 years in which a sudden drop in the sex ratio is observed. In the case of buffalo, death rate is relatively more for male and the sex ratio of live animals is in favour of

females in all the age groups although the said ratios over the age groups do not follow any consistent pattern. However, the death rate is more for buffalo as against cattle, the difference being substantial in the case of male animals. It may also be seen from Table 3 of Appendix II, that death rates of cattle and buffalo for both the sexes are higher almost in all age groups in the urban areas compared to those of rural areas. In view of the fact that the urban households are expected to take more care towards the animals ( which the survey results on other related characteristics seem to corroborate ), the finding is rather surprising.

2.14 Lactating efficiency : As stated earlier, the average interval between two calvings by age-group for cow and she-buffalo has been presented in Table 4 of Appendix II. These intervals have been derived by an indirect method from the information on related characteristics, such as, present age, age at first calving, number of times calved, previous lactation period in case of dry animals, months since calved etc. This Table also shows the average period of previous lactation of dry animals. This can be taken as a measure of average lactation period of an animal since the information is available for the full length of the lactation period. At all-India level, average interval between two calvings is seen to have a systematic increasing trend over the age groups. In the rural areas, buffalo is found to have a lesser interval ( 21 months ) than that of cow ( 23 months ). But in the urban areas between species, no difference is noticed. On the other hand, average lactation period is observed to be more in the urban areas than rural and also more in the case of buffalo than cow. Lactating efficiency is expected to be more if the average interval between two calvings is low and also if the period of lactation is wider. Thus, with a view to judging the relative performance, of cow and buffalo in so far as their lactating efficiency, an index of lactating efficiency is worked out as  $\left( \frac{\text{av. period of lactation}}{\text{av. interval between two calvings}} \times 100 \right)$  for cow and buffalo separately for rural and urban areas and are shown in Table (VIII) below :

Table (VIII) : Index of lactating efficiency for cattle and buffalo in rural and urban sector

s t a t e	index of lactating efficiency			
	rural		urban	
	cattle	buffalo	cattle	buffalo
(1)	(2)	(3)	(4)	(5)
1. Andhra Pradesh	45	50	41	48
2. Assam	56	43	41	40
3. Bihar	45	53	40	53
4. Gujarat	52	58	52	52
5. Haryana	53	59	47	59
6. Himachal Pradesh	43	54	37	46
7. Jammu & Kashmir	52	56	52	45
8. Karnataka	25	21	21	21
9. Kerala	41	42	41	48
10. Madhya Pradesh	39	43	36	44
11. Maharashtra	41	29	43	45
12. Orissa	45	43	38	43
13. Punjab	50	65	56	59
14. Rajasthan	43	52	47	50
15. Tamil Nadu	36	43	38	40
16. Uttar Pradesh	45	43	35	45
17. West Bengal	39	43	43	45
18. All-India	41	48	38	43

This index is higher for buffalo in majority of the states both in rural and urban sectors. In Assam, Karnataka, Maharashtra, Orissa and Uttar Pradesh, the said index is higher for cattle in rural areas and only in Assam and in Jammu & Kashmir for urban areas. So far as cattle is concerned, Assam, Haryana, Gujarat and Jammu & Kashmir in rural areas and Punjab, Gujarat and Jammu & Kashmir in urban areas are the only states to have index 50 and above. For buffalo, Punjab is at the top with index 65. Haryana and Gujarat are next in order with the respective index of 59 and 58 in the rural areas. In urban areas both Punjab and Haryana exhibit the highest index of 59.

2.15 Assessment of survey results with 1972 Livestock Census figures :

As regards the comparability of survey results with the estimates of the outside agencies, it may be mentioned that except size and composition of bovines which are collected through Livestock Censuses, no other estimates for the recent period in respect of births, deaths and other particulars presented in this report is available at the all-India level. Thus, a comparison of the survey results in respect of the number of bovines under various categories with the corresponding 1972 Livestock Census figures has been made. It is observed that the NSS estimates are on the lower side than those of the census. In terms of percentage difference <sup>5/</sup>, the NSS estimate of total number of cattle and buffaloes are respectively lower than those of the Census figures by 10.44 and 2.04 in the rural areas and 10.05 and 10.10 in urban areas at the all-India level. This difference varies widely, when different components like male, female or young stock and adult. are separately compared as given below in Table (IX).

Table (IX) : Comparison between NSS estimates and 1972 livestock census figures separately for cattle and buffalo at all-India, level for rural and urban areas combined

age-sex composition	(lakhs)					
	cattle			buffalo		
	NSS estimate	L.Census 1972	p.c. difference	NSS estimate	L.Census 1972	p.c. difference
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<u>male</u>						
1. over 3 years	685	738 (-)	7.18	73	80 (-)	8.75
2. 1 - 3 years	129	115 (+)	12.17	28	26 (+)	7.69
3. under 1 year	65	111 (-)	41.44	31	44 (-)	29.55
4. total : male	879	964 (-)	8.82	132	150 (-)	12.00
<u>female</u>						
5. over 3 years	469	556 (-)	15.65	285	290 (-)	1.72
6. 1 - 3 years	149	130 (+)	14.62	85	64 (+)	32.81
7. under 1 year	81	112 (-)	27.68	53	65 (-)	18.46
8. total : female	699	798 (-)	12.41	423	419 (+)	0.95
9. grand total	1578	1762 (-)	10.44	555	569 (-)	2.46

$$\frac{5/}{\text{p.c. difference}} = \frac{\text{NSS estimate} - \text{L. Census 1972}}{\text{L. census 1972}} \times 100$$

It may be seen that while the NSS estimate is higher than that of the Census for the age-group 1-3 years, the Census estimates in the other two age-groups record higher values than those of the NSS. For **total cattle**, the percentage difference is around 10 and for total buffalo there is fairly good agreement between the two sets of estimates. However, it may be mentioned that the level of cattle population has been found to be more or less stable over time as revealed by the results of the last few censuses whereas a steady increasing trend has been noticed for buffalo particularly in respect of she-buffalo. Further, it may not be out of place to mention that while the NSS enquiries covered only the household sector, the Livestock Census was conducted both in the household as well as non-household sector. Also, the NSS estimates refer to mid-period of July 1975 to June 1976 while Livestock Census estimates refer to April 1972, ~~which was reported in the~~ If other basic estimates obtained from the NSS survey, namely, number of households and of persons are considered, fairly good agreement is observed between NSS estimates and the corresponding 1971 population census estimates as projected for the mid-period (i.e. January 1976) of the NSS 30th round. The percentage difference between two sets of estimates in rural and urban areas are respectively -1.13 and -5.13 for households and -1.79 and -5.86 for persons. Also the rates calculated from the aggregate estimates of the NSS and those from the Livestock Census compare well. If age-groups '1-3' and 'under 1 year' are clubbed together to form a single group of youngstock as in Table (IX), the estimates of the proportion of adults to young stock derived from NSS survey data and the corresponding 1972 Livestock Census estimates are very close for both cattle and buffalo and also for males and females. Similarly, the percentage of male cattle to male bovine and female cattle to female bovine in each of the state is in perfect agreement. Even the sex ratio of cattle and buffalo in the rural sector compare fairly well in most of the states. At all-India level, the NSS estimate of sex ratio is 123 and 36 for cattle and buffalo respectively, as against 128 and 32 derived from livestock census figures.

APPENDIX - I

SAMPLE DESIGN AND ESTIMATION PROCEDURE

Sample Design

1. Sample Design : The sample design is a stratified two stage design. The first stage units are 1971 census villages in rural areas and urban blocks in urban areas and the second stage units are households ~~for scheduled castes~~. The design has been made self-weighting at the region level in rural sector and at the state level in urban sector.
2. Sample size (Central Sample) : The Central Sample consists of 8512 villages and 9744 blocks.
3. Stratification : The whole of India has been divided into a number of basic strata so that the basic strata do not cut across district boundaries. Districts with more than 1.5 million 1971 census rural population have been divided into 2 or more basic strata by grouping contiguous tehsils (or sub-divisions in Bihar, Orissa and West Bengal) homogeneous, as far as possible, with respect to density of rural population and crop-pattern, so that the population of each basic stratum is less than 1.5 million. Each district with less than 1.5 million 1971 rural population forms one basic stratum by itself except in Gujarat where some districts with less than 1.5 million rural population have been divided into 2 basic strata on consideration of concentration of the tribal population and dry areas of the state. Basic strata so formed have been treated as basic strata both for rural and urban sectors. In the urban sector, however, some of the basic strata with very low urban population content have been merged together to form urban strata with sizable-urban population. In all such cases, however, the separate entity of the district has been retained in general except in case of districts with very low urban population where such district have been merged with neighbouring districts in the same region for urban strata formation.

Out of 374 districts in India, 366 districts are within the survey coverage of the NSS. Total number of basic strata formed in these 366 districts is 520 in rural areas and 11 in urban areas. Total number of urban strata is 386.



4. Allocation : The all-India sample of villages and blocks have been allocated to the different states and union territories considering their investigator strengths and rural/urban population.

Within each state and union territory, the allocated number of villages and blocks have been distributed over the constituent basic strata and urban strata in proportion to their rural and urban population respectively. These allocations have been made multiples of 4.

5. Selection of villages : The 1971 census list of villages has been used as the sampling frame for selection of villages. Sample villages within each basic stratum have been selected with probability proportional to 1971 census population and with replacement, in the form of two independent sub-samples.

6. Selection of blocks : Within each urban stratum the allocated number of blocks have been selected with probability proportional to size (pps) where size is a measure of population, and with replacement, in the form of two independent sub-samples.

Urban Frame Survey (UFS) blocks in cities and towns where UFS has been done and 1971 census blocks where UFS has not been done have been used for selection of blocks.

7. Selection of revenue village : In rural areas the first stage sampling unit as also the unit of survey is the census village (1971 population census). Generally the survey work is conducted in the sampled census village. But sometimes the sample census village cannot be uniquely identified. In such cases two types of situations may arise - (a) the sample census village contains two or more revenue villages wholly or partly. Then all the revenue villages taken together is taken as the unit of survey, (b) the sample census village is wholly contained within a bigger revenue village which contains, wholly or partly, other census villages also. Then this bigger revenue village is surveyed.

8. Hamlet group/sub-block selection : Villages/blocks with large population content are divided into two or more compact, areal sub-divisions of nearly equal population content. These sub-divisions are called hamlet-groups and sub-blocks in the case of villages and blocks respectively. The survey is conducted in one of the sub-divisions (formed in a village or block) selected at random.

9. Selection of sample households : All the households in a sample village/block are arranged in a frame with households possessing any livestock or poultry on the date of listing coming first followed by the other households. In a sample village, a sample of 24 households is selected circular systematically from this arranged frame whereas in a sample block, a sample of households (24 on the average) is selected linear systematically with a pre-specified interval. All the selected households in a sample village/block are surveyed.

Estimation procedure

10. The estimation procedure is described below for rural and urban sectors separately.

11. Rural sector : Let  $Y_r$  denote the aggregate for region  $r$  of any item  $y$  on which information is collected. Then its estimate  $\hat{Y}_r$  is given by  $\hat{Y}_r = M_r \sum_{r1} y_{r1} \dots \dots (1)$

where  $y_{r1}$  is the value for  $i^{th}$  sample households of  $r^{th}$  region and  $M_r$  is the multiplier for  $r^{th}$  region given by  $M_r = \frac{\hat{H}_r}{h_r} \dots \dots (2)$

where  $\hat{H}_r$  is the total number of households in the  $r^{th}$  region as estimated unbiasedly from schedule O.1 (listing schedule) and  $h_r$  is the number of sample households available for tabulation for schedule 19 series.

12. The estimates of state aggregates are obtained by adding the estimates of all the constituent regions.

13. Estimates of ratios are obtained by first obtaining the estimates of aggregates of the numerator and denominator of a given ratio and then by division at the final stage.

14. Urban sector : In the urban sector, the aggregate of item  $y$  at state level is given by  $\hat{Y} = M \sum_i y_i \dots \dots (3)$

where  $M$  is the self-weighting multiplier at state level and  $y_i$  is the value of  $y$  for the  $i^{th}$  sample household.

~~15. Regionwise estimates are obtained by restricting the summation to the sample households of each given region~~

15. Estimates of ratios are computed, as in the rural sector, by estimating first the numerator and the denominator and then by division at the final stage.

NATIONAL SAMPLE SURVEY  
THIRTIETH ROUND (JULY 1975 - JUNE 1976)

## APPENDIX - II

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NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (0) : Number of sample villages/blocks and households by states

state	rural		urban	
	no. of sample villages	no. of sample households	no. of sample blocks	no. of sample households
(1)	(2)	(3)	(4)	(5)
Andhra Pradesh	672	16096	768	14,851
Assam	360	8493	288	5497
Bihar	768	18187	624	12412
Gujarat	312	7471	480	9993
Haryana	144	3456	144	3232
Himachal Pradesh	192	4169	96	1962
Jammu & Kashmir *	720	17016	576	11671
Karnataka	360	8550	432	8533
Kerala	360	8640	288	7118
Madhya Pradesh	720	17068	576	9868
Maharashtra	624	14871	1200	22474
Manipur	120	2815	72	1445
Meghalaya	120	2614	72	1505
Nagaland	-	-	48	944
Orissa	360	8434	288	5443
Punjab	360	8581	288	5595
Rajasthan	360	8574	432	8837
Tamil Nadu	536	12837	912	20140
Tripura	120	2669	72	1373
Uttar Pradesh	1056	24985	1152	22018
West Bengal	552	13140	864	17731
Chandigarh	-	-	24	511
Delhi	8	192	240	5308
Goa, Daman and Diu	24	575	48	769
Pondicherry	24	572	48	827
All-India*	8872	210005	10032	200057

\*Including the figures for the State sample of Jammu & Kashmir.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Andhra Pradesh

Age group Bovines (in complete years)	Rural			Urban								
	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)						
(1) 0	(2) 3667	(3) 5332	(4) 68.8	(5) 3576	(6) 6628	(7) 54.0	(8) 104	(9) 146	(10) 71.2	(11) 284	(12) 416	(13) 68.3
1	3178	3959	80.3	1996	3907	51.1	49	92	53.5	111	195	56.9
2	4367	4406	99.1	1932	4569	42.3	70	72	97.2	81	159	50.9
3-4	5676	5951	95.4	2078	5989	34.7	104	127	81.9	66	293	22.5
5-6	11647	9572	121.7	3218	8101	39.7	233	189	123.3	85	508	16.7
7-9	17950	5263	193.8	3214	9919	32.4	426	205	207.3	88	781	11.3
10-12	7337	3323	220.8	1203	4099	29.3	182	91	200.0	36	300	12.0
13-15	1622	616	263.3	136	746	18.2	45	9	500.0	1	61	1.6
16-18	179	61	293.4	37	122	30.3	10	6	166.7	-	7	-
19 & above	72	42	171.4	5	24	20.8	5	-	-	-	1	-
1. all ages	55695	42525	131.0	17395	44104	39.4	1228	937	131.1	752	2721	27.06

note - sex ratio is defined as the number of males per 100 females

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

age group of bovines (in completed years)	State : Assam											
	rural					urban						
	cattle		buffalo		sex ratio (0.0)	cattle		buffalo		sex ratio (0.0)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 0	1661	3231	51.4	16	92	17.4	47	93	50.5	-	-	-
2. 1	1683	2789	60.3	59	109	54.1	50	93	53.8	-	-	-
3. 2	2118	1853	114.3	95	58	163.8	33	59	55.9	1	-	-
4. 3 - 4	2041	4784	42.7	193	162	119.1	17	148	11.5	1	0	-
5. 5 - 6	8916	5370	166.0	574	224	256.2	55	158	34.8	2	1	200.0
6. 7 - 9	9383	3423	274.1	888	217	409.2	73	128	57.0	4	1	400.0
7. 10 - 12	3496	969	360.8	228	84	271.4	31	32	96.9	1	1	100.0
8. 13 - 15	832	152	547.4	84	22	391.9	7	6	115.7	1	-	-
9. 16 - 18	125	46	271.7	30	3	1000.0	4	2	200.0	-	-	-
10. 19 & above	22	8	275.0	11	3	366.7	0	0	-	-	-	-
11. not recorded	8	5	-	-	-	-	-	-	-	-	-	-
12. all ages	30265	22630	133.8	2178	974	223.6	317	719	44.1	10	3	333.3

Note - sex ratio is defined as the number of males per 100 females

NATIONAL SAMPLE SURVEY, 30TH ROUND; JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio: over age groups for cattle and buffaloes in rural and urban areas.

age group of bovines (in completed years)	rural						urban					
	cattle			buffalo			cattle			buffalo		
	male (in 00)	sex ratio (0.0)	female (in 00)	male (in 00)	sex ratio (0.0)	female (in 00)	male (in 00)	sex ratio (0.0)	female (in 00)	male (in 00)	sex ratio (0.0)	female (in 00)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 0	5283	81.4	6489	1888	3206	58.9	297	413	71.9	39	94	41.5
2. 1	3917	89.0	4403	701	2077	33.8	157	216	72.7	20	34	58.8
3. 2	5127	85.1	6025	739	2922	25.3	121	247	49.0	14	47	29.8
4. 3 - 4	5217	76.7	6798	961	3742	25.7	111	279	39.8	27	55	49.1
5. 5 - 6	15576	178.3	8734	1827	3927	46.5	283	478	59.2	52	102	51.0
6. 7 - 9	28005	243.8	11485	2455	6349	38.7	594	570	104.2	71	165	43.0
7. 10 - 12	15686	335.4	4737	1170	2762	42.4	351	215	163.3	31	104	29.8
8. 13 - 15	3276	374.0	876	190	657	28.9	69	27	255.6	3	29	10.3
9. 16 - 18	292	789.2	37	34	64	53.1	14	6	233.3	1	2	50.0
10. 19 & above	36	300.0	12	5	5	100.0	2	-	-	-	1	-
11. not recorded	5	-	-	-	-	-	-	-	-	-	2	-
12. all ages	82620	166.6	49596	9970	25711	38.8	1999	2451	81.6	258	635	40.6

note - sex ratio is defined as the number of males per 100 females

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table(1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Gujarat

age group of bovines (in completed years)	r u r a l						u r b a n					
	cattle			buffalo			cattle			buffalo		
	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 0	1243	1705	72.9	911	2804	32.5	89	150	59.3	53	202	26.2
2. 1	1435	1679	85.5	471	2896	16.3	53	121	43.8	24	122	19.7
3. 2	2693	2382	113.1	249	4299	5.8	93	120	77.5	17	154	11.0
4. 3 - 4	2766	2865	96.5	158	4114	3.8	114	192	59.4	1	140	0.7
5. 5 - 6	5418	3391	159.8	101	4487	2.2	142	182	78.0	1	221	0.5
6. 7 - 9	9405	4603	204.3	97	6550	1.5	407	332	122.6	3	437	0.7
7. 10 - 12	6166	2096	294.2	33	2994	1.1	234	132	177.3	1	235	0.4
8. 13 - 15	2521	448	562.7	-	831	-	54	32	168.8	-	49	-
9. 16 - 18	779	133	585.7	-	187	-	22	11	200.0	-	15	-
10. 19 & above	350	27	1296.3	-	42	-	10	11	90.9	-	4	-
11. not recorded	81	113	-	36	159	-	-	4	-	6	11	-
12. all ages	32857	19447	169.0	2056	29363	7.0	1218	1287	94.6	106	1590	6.7

note - sex ratio is defined as the number of males per 100 females.



NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Haryana

age group of bovines (in com- pleted years)	r u r a l						u r b a n					
	cattle			buffalo			cattle			buffalo		
	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 0	1577	1417	111.3	2090	3239	64.5	85	136	62.5	120	195	61.5
2. 1	889	1378	64.5	742	2557	29.0	33	58	56.9	18	82	22.0
3. 2	567	1392	40.7	262	2900	9.0	18	41	43.9	7	62	11.3
4. 3 - 4	871	1386	62.8	136	3127	4.3	22	76	28.9	9	108	8.3
5. 5 - 6	1950	1729	112.8	169	3434	4.9	48	83	57.8	12	155	7.7
6. 7 - 9	2961	1951	151.8	155	4575	3.4	80	127	63.0	15	276	5.4
7. 10 - 12	1711	714	239.6	39	1996	2.0	44	46	95.7	7	110	6.4
8. 13 - 15	531	194	288.6	-	438	-	19	9	211.1	-	21	-
9. 16 - 18	86	28	307.1	-	60	-	2	-	-	-	4	-
10. 19 & above	29	20	145.0	4	36	11.1	1	-	-	-	1	-
11. all ages	11172	10199	109.5	3597	22362	16.1	352	576	61.1	188	1014	18.5

note - sex ratio is defined as the number of males per 100 females.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas

State : Himachal Pradesh

age group of bovines (in completed years)	r u r a l				u r b a n							
	cattle		buffalo		cattle		buffalo					
	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	878	1163	75.5	164	459	35.7	6	11	54.5	3	5	60.0
2.	733	880	83.3	73	380	19.2	7	9	77.8	1	5	20.0
3.	1021	994	102.7	66	456	14.5	6	9	66.7	1	3	33.3
4.	1135	979	115.9	52	523	9.9	3	7	42.9	1	3	33.3
5.	1564	1302	120.1	43	528	8.1	10	9	111.1	0	4	-
6.	2306	2013	116.5	32	1126	2.8	18	15	120.0	-	14	-
7.	1675	1305	128.4	12	838	1.4	7	9	77.8	0	7	-
8.	778	471	165.2	9	343	2.6	3	3	100.0	-	1	-
9.	380	165	233.1	1	114	0.9	1	0	-	-	2	-
10.	181	81	223.5	-	45	-	1	1	100.0	-	-	-
11. all ages	10691	9351	114.3	452	4812	9.4	62	73	84.9	6	44	13.6

note - sex ratio is defined as the number of males per 100 females

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Jammu & Kashmir

age group of bovines (in completed years)	r u r a l						u r b a n					
	cattle			buffalo			cattle			buffalo		
	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 0	916	1177	77.8	133	398	33.4	47	60	78.3	3	5	60.0
2. 1	707	767	92.2	85	236	36.0	300	40	75.0	0	3	-
3. 2	819	926	88.4	71	328	21.6	20	44	45.5	1	3	33.3
4. 3	658	1055	62.4	77	267	28.8	13	49	26.5	1	3	33.3
5. 4	1417	1515	93.5	98	354	27.7	20	71	28.2	1	4	25.0
6. 5	2266	2190	103.5	107	737	14.5	37	111	33.3	1	8	12.5
7. 10	893	866	103.1	24	533	4.5	13	40	32.5	0	5	-
8. 13	202	161	125.5	7	182	3.8	3	8	37.5	-	2	-
9. 16-18	49	29	169.0	2	53	3.8	1	2	50.0	-	0	-
10. 19 & above	10	3	333.3	0	12	-	2	0	-	-	0	-
11. not recorded	3	3	-	-	3	-	-	-	-	-	-	-
12. all ages	7940	8692	91.3	604	3103	19.5	186	425	43.8	7	33	21.2

Note - sex ratio is defined as the number of males per 100 females.

h/d

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Karnataka

age group of bovines (in completed years)	r u r a l						u r b a n						
	cattle			buffalo			cattle			buffalo			
	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1.	0	3601	5313	67.8	1505	3034	49.6	343	550	62.4	130	287	45.3
2.	1	3062	3330	92.0	841	1842	45.7	164	342	48.0	45	135	33.3
3.	2	3456	3874	89.2	462	1962	23.5	188	265	70.9	16	122	13.1
4.	3 - 4	4516	7097	63.6	356	3824	9.3	227	582	39.0	7	250	2.8
5.	5 - 6	7958	7747	102.7	550	3867	14.2	409	584	70.0	10	330	3.0
6.	7 - 9	12611	9122	138.2	752	4555	16.5	643	576	111.6	29	523	5.5
7.	10 - 12	7600	4554	166.9	345	2682	12.9	447	320	139.7	10	324	3.1
8.	13 - 15	1754	1224	143.3	129	556	23.2	144	70	205.7	4	84	4.8
9.	16 - 18	444	229	193.9	27	108	25.0	44	17	258.8	-	20	-
10.	19 & above	126	56	225.0	21	41	51.2	8	5	160.0	3	8	37.5
11.	not recorded	41	54	-	-	26	-	-	-	-	-	2	-
12.	all ages	45169	42600	106.0	4988	22497	22.2	2617	3311	79.0	254	2085	12.2

h/d note - sex ratio is defined as the number of males per 100 females.

NATIONAL SAMPLE SURVEY, 50TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Kerala

age group of bovines (in completed years)	rural						urban					
	cattle			buffalo			cattle			buffalo		
	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	2082	2439	85.4	171	171	100.0	166	219	75.8	11	21	52.4
2.	855	1882	45.4	108	108	100.0	45	155	29.0	9	6	150.0
3.	525	2304	22.8	130	130	100.0	16	154	10.4	6	1	600.0
4.	368	3138	11.7	453	231	196.1	8	253	3.2	10	17	58.8
5.	596	2816	21.2	580	306	189.5	22	236	9.3	14	35	40.0
6.	1079	2851	37.8	629	376	167.3	26	224	11.6	18	42	42.9
7.	812	1341	60.6	261	313	83.4	23	73	31.5	8	20	40.0
8.	231	227	101.8	67	37	181.1	6	20	30.0	3	6	50.0
9.	37	41	90.2	11	8	137.5	-	2	-	-	-	-
10.	19	4	475.0	4	4	100.0	-	2	-	-	-	-
11.	not recorded	48	-	33	41	-	4	9	-	2	1	-
12.	all ages	6652	38.9	2447	1725	141.9	316	1347	23.5	81	149	54.4

note - sex ratio is defined as the number of males per 100 females

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Madhya Pradesh

age group of bovines (in completed years)	cattle				buffalo		cattle			buffalo		
	rural		urban		rural		urban		urban			
	male (in 00)	female (in 00)	sex ratio (0.0)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	6193	7150	86.6	1691	2085	81.1	217	270	80.4	65	77	84.4
2.	9818	10716	91.6	2016	2882	70.0	255	310	82.3	44	79	55.7
3.	12748	14221	89.6	1717	4144	41.4	236	322	73.3	34	64	53.1
4.	12162	15196	80.0	1508	3801	39.7	158	370	42.7	17	90	18.9
5.	16419	16453	99.8	1911	4235	45.1	216	470	46.0	15	116	12.9
6.	51299	23669	132.2	4228	6266	67.5	397	521	76.2	22	274	8.0
7.	23797	13766	172.9	2705	5101	53.0	306	355	86.2	6	179	3.4
8.	7575	3733	202.9	646	1537	42.0	145	103	140.8	7	39	17.9
9.	2435	717	339.6	91	491	18.5	32	27	116.5	-	14	-
10.	452	122	370.5	4	69	5.8	12	12	100.0	-	1	-
11. all ages	122898	105743	116.2	16517	30611	54.0	1974	2760	74.2	210	933	22.5

note - sex ratio is defined as the number of males per 100 females.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Maharashtra

age group of bovines (in completed years)	R u r a l				U r b a n				sex ratio (0.0)			
	cattle		buffalo		cattle		buffalo					
	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 0	5776	6971	82.9	1633	2538	64.3	335	480	69.8	162	338	47.9
2. 1	4922	4884	100.8	861	1693	50.9	220	264	83.3	52	167	31.1
3. 2	6060	5585	108.5	516	2275	22.7	187	273	68.5	36	140	25.7
4. 3 - 4	6128	6436	95.2	460	2161	21.3	180	321	56.1	12	179	6.7
5. 5 - 6	10567	9239	114.3	635	2794	22.7	357	430	83.0	7	327	2.1
6. 7 - 9	15908	10323	154.1	874	4937	17.7	585	493	118.7	16	660	2.4
7. 10 - 12	11577	5356	214.5	494	3117	15.8	394	305	129.2	7	395	1.8
8. 13 - 15	4845	1562	310.2	126	916	13.8	166	93	178.5	3	145	2.1
9. 16 - 18	1674	515	325.0	35	253	13.8	41	22	186.4	-	28	-
10. 19 & above	520	91	571.4	23	65	35.4	13	7	185.7	-	7	-
11. all ages	67973	51002	133.3	5657	20749	27.3	2479	2688	92.2	295	2386	12.4

note - sex ratio is defined as the number of males per 100 females

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State: Manipur

age group of bovines (in completed years)	r u r a l						u r b a n						
	cattle			buffalo			cattle			buffalo			
	male (in00)	sex ra- tio (0.0)	sex ra- tio (0.0)	male (in00)	female (in00)	sex ra- tio (0.0)	male (in00)	female (in00)	sex ra- tio (0.0)	male (in00)	female (in00)	sex ra- tio (0.0)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1.	0	45	60	75.0	10	7	142.9	6	9	66.7	0	0	-
2.	1	94	124	75.8	21	34	61.8	6	9	65.7	0	0	-
3.	2	69	71	97.2	12	18	66.7	6	6	100.0	-	-	-
4.	3	154	199	77.4	19	57	33.3	11	17	64.7	1	1	100.0
5.	5	226	183	123.5	34	50	68.0	22	12	183.3	1	2	50.0
6.	7	236	100	236.0	28	34	82.4	26	10	260.0	1	1	100.0
7.	10	98	20	490.0	4	6	66.7	5	3	166.7	1	0	-
8.	13	12	9	133.3	1	-	-	1	1	100.0	0	-	-
9.	16	3	1	300.0	-	-	-	-	0	-	-	-	-
10.	19 & above	1	-	-	1	-	-	-	-	-	-	0	-
11.	all ages	938	767	122.3	130	206	63.1	83	67	123.9	4	4	100.0

note - sex ratio is defined as the number of males per 100 females.



NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio, over age groups for cattle and buffaloes in rural and urban areas.

age groups of bovines (in completed years)	State : Meghalaya											
	rural						urban					
	cattle male (in 00) (2)	cattle female (in 00) (3)	sex ratio (0.0) (4)	buffalo male (in 00) (5)	buffalo female (in 00) (6)	sex ratio (0.0) (7)	cattle male (in 00) (8)	cattle female (in 00) (9)	sex ratio (0.0) (10)	buffalo male (in 00) (11)	buffalo female (in 00) (12)	sex ratio (0.0) (13)
1. 0	116	152	76.3	8	7	114.3	2	2	100.0	-	-	-
2. 1	137	167	82.0	9	11	81.8	1	4	25.0	-	-	-
3. 2	195	167	116.8	10	23	43.5	0	2	-	-	-	-
4. 3 - 4	242	263	90.0	24	34	70.6	0	4	-	-	-	-
5. 5 - 6	360	270	133.3	18	19	94.7	0	5	-	-	-	-
6. 7 - 9	424	266	159.4	17	28	60.7	1	3	33.3	-	-	-
7. 10 - 12	231	113	204.4	7	20	35.0	-	2	-	-	-	-
8. 13 - 15	53	25	212.0	8	13	61.5	-	0	-	-	-	-
9. 16 - 18	9	5	150.0	1	7	14.3	-	-	-	-	-	-
10. 19 & above	2	2	100.0	-	2	-	-	-	-	-	-	-
11. not recorded	-	4	-	-	-	-	-	-	-	-	-	-
12. all ages	1769	1441	122.8	102	164	62.2	4	22	18.2	-	-	-

note - sex ratio is defined as the number of males per 100 females

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas

age group of bovines (in completed years)	State : Nagaland											
	r u r a l						u r b a n					
	cattle		buffalo		sex ratio (0.0)		cattle		buffalo		sex ratio (0.0)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)
1.	-	-	-	-	-	-	1	1	100.0	-	-	-
2.	-	-	-	-	-	-	2	3	66.7	-	-	-
3.	-	-	-	-	-	-	0	2	-	-	-	-
4.	-	-	-	-	-	-	1	3	33.3	-	-	-
5.	-	-	-	-	-	-	1	3	33.3	-	-	-
6.	-	-	-	-	-	-	3	2	150.0	-	-	-
7.	-	-	-	-	-	-	1	2	50.0	-	-	-
8.	-	-	-	-	-	-	-	-	-	-	-	-
9.	-	-	-	-	-	-	-	-	-	-	-	-
10.	-	-	-	-	-	-	-	-	-	-	-	-
11.	-	-	-	-	-	-	9	16	56.3	-	-	-

note - sex ratio is defined as the number of males per 100 females

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY -1975 JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Orissa

age group of bovines (in completed years)	rural						urban					
	male (in00)	female (in00)	sex ratio (0.0)	male (in00)	female (in00)	sex ratio (0.0)	male (in00)	female (in00)	sex ratio (0.0)	male (in00)	female (in00)	sex ratio (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	3772	4775	79.0	175	325	53.8	204	237	86.1	10	1	125.0
2.	2896	3221	89.9	127	129	98.4	96	166	57.8	3	11	27.3
3.	3373	3743	90.1	121	156	77.6	97	156	62.2	3	11	27.3
4.	4172	5767	72.3	474	402	117.9	72	230	31.3	2	8	25.0
5.	10845	6987	155.2	1344	377	356.5	172	286	60.1	25	14	178.6
6.	15956	7346	217.2	2106	632	333.2	282	294	95.9	24	33	72.7
7.	6790	2914	233.0	509	251	242.6	107	126	84.9	10	11	90.9
8.	1711	758	222.8	64	79	81.0	15	25	60.0	1	1	100.0
9.	422	99	426.3	14	10	140.0	8	7	114.3	-	-	-
10.	19 &											
above	46	5	920.0	-	-	-	2	2	100.0	-	1	-
11.all ages	49983	35625	140.3	5034	2361	213.2	1055	1529	69.0	78	98	79.6

note - sex ratio is defined as the number of males per 100 females.

h/d

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Punjab

age group of bovines (in completed years)	rural						urban					
	cattle			buffalo			cattle			buffalo		
	male (in 0)	female (in 00)	sex ratio (0.0)	male (in 0)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 0.0)	female (in 0.0)	sex ratio (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 0	1719	1776	96.8	2574	4320	59.6	133	166	80.1	196	316	62.0
2. 1	1496	1551	96.5	1033	3477	29.7	47	97	48.5	44	144	30.6
3. 2	1371	1734	79.1	474	3951	11.9	30	105	28.6	13	174	7.5
4. 3 - 4	1272	1848	68.8	419	4331	9.7	45	148	30.4	5	194	2.6
5. 5 - 6	2335	2273	102.7	626	4968	12.6	58	118	49.2	12	305	3.9
6. 7 - 9	3602	2775	129.8	703	7538	9.3	109	179	60.9	10	513	1.9
7. 10 - 12	2434	1004	242.4	252	3852	6.5	58	59	98.3	4	280	1.4
8. 13 - 15	1014	294	344.9	76	1235	6.2	40	16	250.0	1	61	1.6
9. 16 - 18	273	49	557.1	14	308	4.5	11	1	1100.0	-	18	-
10. 19 & above	84	29	289.7	11	82	13.4	1	1	100.0	1	2	50.0
11. not recorded	4	18	-	-	25	-	-	4	-	-	1	-
12. all ages	15604	13351	116.9	6182	34127	18.1	532	891	59.7	286	2008	14.2

note - sex ratio is defined as the number of males per 100 females.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Rajasthan

age group of bovines ( in completed years)	r u r a l						u r b a n						
	c a t t l e			b u f f a l o			c a t t l e			b u f f a l o			
	male (in00)	female (in00)	sex ra- tio (0.0)	male (in00)	female (in00)	sex ra- tio (0.0)	male (in00)	female (in00)	sex ra- tio (0.0)	male (in00)	female (in00)	sex ra- tio (0.0)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1.	0	6527	7430	87.8	3476	4813	72.2	308	339	90.9	163	206	79.1
2.	1	4133	5304	77.9	1663	3450	48.2	127	198	64.1	46	106	43.4
3.	2	4498	6430	69.9	1030	4590	22.4	122	233	52.4	21	114	18.4
4.	3 - 4	5019	7493	57.0	734	4077	18.0	89	275	32.4	22	122	18.0
5.	5 - 6	8112	9478	85.6	594	4649	12.8	142	289	49.1	25	164	15.2
6.	7 - 9	12247	12567	97.5	425	8680	4.9	201	485	41.4	18	331	5.4
7.	10 - 12	7885	5705	138.2	162	5040	3.2	165	256	64.5	11	185	5.9
8.	13 - 15	2531	1401	180.7	57	1467	3.9	51	65	78.5	-	57	-
9.	16 - 18	511	183	325.0	-	211	-	14	16	87.5	-	3	-
10.	19&above	237	67	353.7	-	91	-	3	5	60.0	1	2	50.0
11.	all ages	51800	55075	92.4	8141	37068	22.0	1222	2161	56.5	307	1290	23.8

note - sex ratio is defined as the number of males per 100 females.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Tamil Nadu

age group of bovines (in completed years)	r u r a l						u r b a n					
	c a t t l e			b u f f a l o			c a t t l e			b u f f a l o		
	male (in00)	female (in00)	sex ra- tio (0.0)	male (in00)	female (in00)	sex ra- tio (0.0)	male (in00)	female (in00)	sex ra- tio (0.0)	male (in00)	female (in00)	sex ra- tio (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	3305	4192	78.8	1210	2368	51.1	519	688	75.4	142	268	53.0
2.	2895	3634	79.7	484	1626	29.8	196	377	52.0	52	119	43.7
3.	3334	4138	80.6	447	1836	24.3	120	350	34.3	20	93	21.5
4.	4722	7202	65.6	345	3249	10.6	133	694	19.2	15	201	7.5
5.	8151	8540	94.3	376	3205	11.7	334	741	45.1	1	376	0.3
6.	11679	7506	155.6	430	3224	13.3	464	799	58.1	7	486	1.4
7.	6950	3471	200.2	169	1536	11.0	71	295	100.4	12	215	5.6
8.	1495	703	212.8	30	175	17.1	83	82	101.2	8	50	16.0
9.	230	45	511.1	-	30	-	10	3	333.3	-	5	-
10.	20	30	66.7	5	5	100.0	3	1	300.0	-	-	-
11. not re- corded	10	30	-	-	20	-	-	-	-	-	-	-
12. all ages	42792	39591	108.1	3495	17274	20.2	2177	4031	54.0	257	1811	14.2

note - sex ratio is defined as the number of males per 100 females.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Tripura

age group of bovines ( in completed years)	rural				urban							
	cattle		buffalo		cattle		buffalo					
	male (in 00) (2)	female (in 00) (3)	sex ratio (C.O) (4)	male (in 00) (5)	female (in 00) (6)	sex ratio (O.O) (7)	male (in 00) (8)	female (in 00) (9)	sex ratio (O.O) (10)	male (in 00) (11)	female (in 00) (12)	sex ratio (O.O) (13)
1. 0	146	245	59.6	4	3	133.3	6	8	75.0	-	-	-
2. 1	200	252	79.4	6	6	100.0	4	8	50.0	-	0	-
3. 2	263	340	83.2	7	6	116.7	2	6	33.3	-	-	-
4. 3-4	241	291	82.8	3	14	21.4	2	5	40.0	-	-	-
5. 5-6	384	377	101.9	9	10	90.0	2	10	20.0	-	-	-
6. 7-9	754	476	158.4	11	19	57.9	3	19	15.8	0	1	-
7. 10-12	481	295	163.1	6	15	40.0	4	6	66.7	-	-	-
8. 13-15	135	69	195.7	-	7	-	2	2	100.0	-	0	-
9. 16-18	73	37	197.3	-	-	-	0	1	-	-	-	-
10. 19 & above	13	7	185.7	1	-	-	-	1	-	-	-	-
11. not recorded	10	9	-	-	-	-	0	1	-	-	-	-
12. all ages	2720	2398	113.4	47	80	58.8	25	67	37.3	0	1	-

note - sex ratio is defined as the number of males per 100 females.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Uttar Pradesh

age group of bovines (in com- pleted years)	r u r a l						u r b a n					
	cattle			buffalo			cattle			buffalo		
	male (in 00)	sex ratio (0.0)	female (in 00)	male (in 00)	sex ratio (0.0)	female (in 00)	male (in 00)	sex ratio (0.0)	female (in 00)	male (in 00)	sex ratio (0.0)	female (in 00)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 0	9831	95.4	10304	7916	60.1	13166	379	434	87.3	214	346	61.8
2. 1	8792	107.1	8209	4206	49.8	8445	163	245	66.5	65	134	48.5
3. 2	10888	117.7	9248	2979	25.4	11719	115	243	47.3	27	177	15.3
4. 3 - 4	14857	113.0	13145	3617	26.0	13920	102	257	39.7	17	178	9.6
5. 5 - 6	28874	189.7	15222	6044	36.2	15807	221	433	51.0	89	315	28.3
6. 7 - 9	46536	251.3	18538	6209	24.7	25102	431	548	78.6	95	700	13.6
7. 10 - 12	28224	365.9	7713	1969	15.9	12373	287	233	123.2	50	379	13.2
8. 13 - 15	8872	448.5	1978	437	15.8	2760	82	57	143.9	10	70	14.3
9. 16 - 18	2387	460.8	518	34	6.2	550	16	16	100.0	1	19	5.3
10. 19 & above	403	300.7	134	-	-	178	4	2	200.0	-	2	-
11. all ages	159714	187.9	85009	33411	32.1	104020	1800	2468	72.9	568	2320	24.5

note - sex ratio is defined as the number of males per 100 females.



NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976  
 Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups  
 for cattle and buffaloes in rural and urban areas.  
 State : West Bengal

age group of bovines (in completed years)	cattle			buffalo			rural			cattle			buffalo			urban		
	male (in00)	female (in00)	sex ratio (0.0)	male (in00)	female (in00)	sex ratio (0.0)	male (in00)	female (in00)	sex ratio (0.0)	male (in00)	female (in00)	sex ratio (0.0)	male (in00)	female (in00)	sex ratio (0.0)	male (in00)	female (in00)	sex ratio (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1. 0	2746	4556	60.3	27	60*	45.0	256	349	73.4	18	46	39.1						
2. 1	4275	6292	67.9	91	134	67.9	293	454	64.5	16	30	53.3						
3. 2	5389	6917	77.9	129	107	120.6	140	478	29.3	1	6	16.7						
4. 3 - 4	4895	8384	58.4	283	159	178.0	129	624	20.7	6	29	20.7						
5. 5 - 6	5906	7571	78.0	729	119	612.6	79	634	12.5	4	55	7.3						
6. 7 - 9	15768	11343	139.0	1986	251	791.2	313	730	42.9	15	159	9.4						
7. 10 - 12	13132	6125	2144	1355	201	674.1	254	378	67.2	11	102	10.8						
8. 13 - 15	3601	1563	230.4	328	68	482.4	54	89	60.7	7	57	12.3						
9. 16 - 18	958	341	280.9	94	-	-	13	30	43.3	1	14	7.1						
10. 19 & above	111	56	198.2	-	-	-	1	7	14.3	-	5	-						
11. not re- corded	9	5	-	-	-	-	-	-	-	-	-	-						
12. all ages	56790	53153	106.8	5022	1099	457.0	1545	3808	40.6	79	503	15.7						

note - sex ratio is defined as the number of males per 100 females.

NATIONAL SAMPLE SURVEY : 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas

State : Chandigarh

age group of bovines (in completed years)	r u r a l						u r b a n					
	cattle			buffalo			cattle			buffalo		
	male (in 00) (2)	female (in 00) (3)	sex ratio (0.0) (4)	male (in 00) (5)	female (in 00) (6)	sex ratio (0.0) (7)	male (in 00) (8)	female (in 00) (9)	sex ratio (0.0) (10)	male (in 00) (11)	female (in 00) (12)	sex ratio (0.0) (13)
1. 0	-	-	-	-	-	-	-	-	-	4	2	200.0
2. 1	-	-	-	-	-	-	-	-	-	-	4	-
3. 2	-	-	-	-	-	-	-	1	-	-	2	-
4. 3 - 4	-	-	-	-	-	-	-	-	-	-	1	-
5. 5 - 6	-	-	-	-	-	-	2	1	-	-	7	-
6. 7 - 9	-	-	-	-	-	-	-	-	-	-	12	-
7. 10 - 12	-	-	-	-	-	-	-	-	-	-	1	-
8. 13 - 15	-	-	-	-	-	-	-	-	-	-	-	-
9. 16 - 18	-	-	-	-	-	-	-	-	-	-	-	-
10. 19 & above	-	-	-	-	-	-	-	-	-	-	-	-
11. all ages	-	-	-	-	-	-	2	2	100.0	4	29	13.8

note - sex ratio is defined as the number of males per 100 females

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Delhi

Age group in complete years	Rural						Urban					
	cattle			buffalo			cattle			buffalo		
	male (in 00) (2)	female (in 00) (3)	sex ratio (0.0) (4)	male (in 00) (5)	female (in 00) (6)	sex ratio (0.0) (7)	male (in 00) (8)	female (in 00) (9)	sex ratio (0.0) (10)	male (in 00) (11)	female (in 00) (12)	sex ratio (0.0) (13)
1. 0	29	17	170.6	69	115	60.0	15	35	42.9	52	77	67.5
2. 1	40	52	76.9	23	69	33.3	15	12	125.0	10	19	52.6
3. 2	23	40	57.5	6	58	10.3	3	17	17.6	3	22	13.6
4. 3 - 4	51	17	300.0	11	45	24.4	2	29	6.9	2	39	5.1
5. 5 - 6	51	58	87.9	-	121	-	12	18	66.7	5	86	5.8
6. 7 - 9	18	40	45.0	-	161	-	10	22	45.5	2	176	1.1
7. 10 - 12	18	17	105.9	-	40	-	8	7	114.3	-	72	-
8. 13 - 15	-	6	-	-	6	-	6	4	150.0	-	2	-
9. 16 - 18	6	-	-	-	-	-	2	-	-	-	-	-
10. 19 & above	-	-	-	-	-	-	-	-	-	-	-	-
11. all ages	236	247	95.5	109	615	17.7	73	144	50.7	74	493	15.0

note : sex ratio is defined as the number of males per 100 females.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : Goa, Daman, & Diu

age group of bovines (in completed years)	r u r a l						u r b a n					
	cattle			buffalo			cattle			buffalo		
	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	53	44	120.5	13	11	118.2	2	5	40.0	1	1	100.0
2.	29	57	50.9	13	15	86.7	3	5	60.0	-	1	-
3.	62	73	84.9	11	11	100.0	1	4	25.0	-	1	-
4.	84	53	158.5	20	24	83.3	6	4	150.0	-	2	-
5.	73	56	130.4	11	26	42.3	5	6	83.3	1	3	33.3
6.	135	123	109.8	26	22	118.2	6	4	150.0	1	3	33.3
7.	98	70	140.0	36	44	81.8	6	6	100.0	1	3	33.3
8.	64	35	182.9	13	15	86.7	3	4	75.0	-	1	-
9.	29	9	322.2	11	4	275.0	3	2	150.0	-	-	-
10.	7	4	175.0	2	-	-	1	-	-	-	-	-
11.	-	2	-	-	-	-	-	-	-	-	-	-
12.	634	526	120.5	156	172	90.7	36	40	90.0	4	15	26.7

note - sex ratio is defined as the number of males per 100 females.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas

State : Pondicherry

age group of bovines (in completed years)	r u r a l						u r b a n					
	cattle			buffalo			cattle			buffalo		
	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)	male (in 00)	female (in 00)	sex ratio (0.0)
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1.	53	53	62.3	5	12	41.7	13	11	118.2	2	3	66.7
2.	35	47	74.5	1	7	14.3	2	4	50.0	1	2	50.0
3.	34	68	50.0	1	4	25.0	3	4	75.0	1	4	25.0
4.	9	71	12.7	2	7	28.6	3	12	25.0	-	3	-
5.	22	62	35.5	-	8	-	3	12	25.0	0	3	-
6.	87	86	101.2	-	22	-	4	17	23.5	1	5	20.0
7.	60	34	176.5	-	13	-	4	8	50.0	-	3	-
8.	2	4	50.0	-	1	-	-	3	-	-	3	-
9.	-	-	-	-	-	-	-	-	-	-	-	-
10.	-	-	-	-	-	-	-	-	-	-	-	-
11. all ages	282	425	66.4	9	74	12.2	32	71	45.1	5	26	19.2

note - sex ratio is defined as the number of males per 100 females

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (1) : Age distribution of number of bovines by sex and sex ratio over age groups for cattle and buffaloes in rural and urban areas.

State : All-India

Age group of bovines (in completed years)	r u r a l				u r b a n							
	cattle		buffalo		cattle		buffalo					
	male (in 00) (0.0)	female (in 00) (0.0)	sex ratio (0.0)	male (in 00) (0.0)	female (in 00) (0.0)	sex ratio (0.0)	male (in 00) (0.0)	female (in 00) (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 0	61199	75970	80.6	29270	49850	58.7	3581	4811	74.4	1673	2915	57.4
2. 1	56224	65598	85.7	15620	36106	43.3	2021	3281	61.6	561	1398	40.1
3. 2	69020	76978	89.7	11471	46559	24.6	1630	3219	50.6	302	1360	22.2
4. 3 - 4	77262	100406	76.9	12383	54261	22.8	1554	4703	33.0	221	1915	11.5
5. 5 - 6	147363	119095	123.7	19503	61630	31.6	2843	5458	52.1	365	3134	11.6
6. 7 - 9	240705	142018	169.5	25365	91305	27.8	5144	6419	80.1	437	5598	7.8
7. 10 - 12	147351	66492	221.6	11079	47888	23.1	3246	2997	108.3	208	2931	7.1
8. 13 - 15	43654	16527	264.1	2409	12101	19.9	996	727	137.0	51	737	6.9
9. 16 - 18	11473	5297	348.0	438	2583	17.0	251	170	147.6	3	153	2.0
10. 19 & above	2750	804	342.0	94	700	13.4	71	59	120.3	9	38	23.7
11. not recorded	214	290	-	72	278	-	18	51	-	7	17	-
12. all ages	857215	667475	128.4	127704	403261	31.7	21355	31894	67.0	3837	20196	19.0

note - sex ratio is defined as the number of males per 100 females

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Andhra Pradesh

Age group of mothers in completed years	Rural				Urban							
	COW		buffalo		COW		buffalo					
	no. of births male (in 00)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)	no. of births female (in 00)	fertility rate (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2	5	0.2	14	5	0.4	1	1	-	1.4	2	2	2.5
3 - 4	844	35.0	960	1775	45.7	26	26	41	52.8	54	96	51.2
5 - 6	1280	35.3	1302	2309	44.6	36	36	48	44.4	106	166	53.5
7 - 9	1133	29.6	1637	2748	44.2	36	36	52	42.9	162	221	49.0
10 - 12	266	18.2	465	724	29.0	2	2	13	16.5	36	57	31.0
13 - 15	57	17.7	112	144	34.3	7	7	1	88.9	6	16	36.1
16 - 18	5	32.8	10	23	27.0	1	1	-	16.7	-	1	14.3
19 & above	5	-	-	-	-	-	-	-	-	1	-	-
not recorded	9	-	9	19	-	-	-	-	-	1	-	-
all ages	3604	21.1	4509	7747	27.8	109	109	155	28.2*	368	559	34.1*
no. of animals born but died during the year (in 00)	193	-	779	901	x	10	10	10	x	95	98	x

note : fertility rate - no. of births by age group of mothers  
 no. of female animals possessed in the corresponding age group x 100

\* see footnote of all-India Table -2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Assam

age group of mothers (in completed years)	rural										urban									
	cow					buffalo					cow					buffalo				
	no. of births male (in 00)	(3)	fertility rate (0.0)	(4)	no. of births male (in 00)	(5)	fertility rate (0.0)	(7)	no. of births male (in 00)	(8)	fertility rate (0.0)	(9)	no. of births male (in 00)	(10)	fertility rate (0.0)	(11)	no. of births female (in 00)	(12)	fertility rate (0.0)	(13)
1. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2. 3 - 4	947	2036	62.4	8	54	38.3	23	52	50.7	-	-	-	-	-	-	-	-	-	-	-
3. 5 - 6	1000	1859	53.2	8	49	25.4	30	62	58.2	-	-	-	-	-	-	-	-	-	-	-
4. 7 - 9	715	1025	50.8	27	52	36.4	24	43	52.3	-	-	-	-	-	-	-	-	-	-	-
5. 10 - 12	147	177	33.4	6	11	20.2	7	7	43.8	-	-	-	-	-	-	-	-	-	-	-
6. 13 - 15	27	19	30.3	-	-	-	1	2	50.0	-	-	-	-	-	-	-	-	-	-	-
7. 16 - 18	-	8	17.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8. 19 & above	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9. not recorded	5	3	-	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
10. all ages	2847	5129	35.2*	52	166	22.4*	85	166	34.9*	1	33.3*	-	-	-	-	-	-	-	-	-
no. of animals born but died during the year (in 00)	79	52	x	8	8	x	5	9	x	-	-	-	-	-	-	-	-	-	-	x

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* See foot note of all-India Table 2.



Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Bihar

age group of mothers (in completed years)	rural				urban							
	cow		buffalo		cow		buffalo					
	no. of births male (in 00)	no. of births female (in 00)	no. of births male (in 00)	no. of births female (in 00)	no. of births male (in 00)	no. of births female (in 00)	no. of births male (in 00)	no. of births female (in 00)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	5	-	0.1	-	-	-	-	1	0.4	-	-	-
2.	1147	1541	39.5	268	496	20.4	71	85	55.9	5	17	40.0
3.	1781	2050	43.9	665	1080	44.4	107	139	51.5	14	31	44.1
4.	1851	2160	34.9	970	1563	39.9	100	143	42.6	26	42	41.2
5.	433	518	20.1	359	378	26.7	22	33	25.6	14	20	32.7
6.	57	60	13.4	89	66	23.6	7	3	37.0	8	3	37.9
7.	-	5	13.5	15	-	23.4	-	2	33.3	-	-	-
8.	-	-	-	-	-	-	-	-	-	1	1	-
9.	-	5	-	-	-	-	-	-	-	-	-	-
10.	5274	6339	23.4	2366	3583	23.1	307	406	29.1*	68	114	28.7*
no. of animals born but died during the year (in 00)	199	227	x	377	356	x	26	23	x	25	16	x

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see footnote of all-India Table - 2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table(2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Gujarat

age group of mothers (in completed years)	r u r a l				u r b a n							
	c o w		b u f f a l o		c o w		b u f f a l o					
	no. of births male (in 00) (2)	no. of births female (in 00) (3)	ferti- lity rate (0.0) (4)	no. of births male (in 00) (5)	no. of births female (in 00) (6)	ferti- lity rate (0.0) (7)	no. of births male (in 00) (8)	no. of births female (in 00) (9)	ferti- lity rate (0.0) (10)	no. of births male (in 00) (11)	no. of births female (in 00) (12)	ferti- lity rate (0.0) (13)
1. 2	10	9	0.8	4	22	0.6	-	-	-	-	-	-
2. 3 - 4	221	398	21.6	274	709	23.9	17	27	22.9	13	29	30.0
3. 5 - 6	469	675	33.7	565	1127	37.7	28	53	44.5	32	68	45.2
4. 7 - 9	575	910	30.1	890	1679	39.2	48	81	38.9	68	128	44.9
5. 10 - 12	129	140	12.8	214	424	21.3	10	14	18.2	31	29	25.5
6. 13 - 15	77	63	31.2	98	145	29.2	5	6	34.4	7	7	28.6
7. 16 - 18	15	5	15.0	18	23	21.9	1	-	9.1	1	1	13.3
8. 19 & above	-	-	-	5	8	-	-	2	-	-	3	-
9. all ages	1496	2100	18.5*	2068	4137	21.1*	109	183	22.7*	152	265	26.2*
no. of animals born but died during the year (in 00)	209	266	-	1062	1025	-	25	26	-	76	57	-

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see footnote of all-India Table - 2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Haryana

age group of mothers (in years)	r u r a l				u r b a n							
	c o w		b u f f a l o		c o w		b u f f a l o					
	no. of births male (in 00)	no. of births female (in 00)	ferti- lity rate (0.0)	no. of births male (in 00)	no. of births female (in 00)	ferti- lity rate (0.0)	no. of births male (in 00)	no. of births female (in 00)	ferti- lity rate (0.0)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 2	7	21	2.0	4	-	0.1	-	-	-	-	-	-
2. 3 - 4	312	320	45.6	714	730	46.2	24	27	67.1	33	46	73.1
3. 5 - 6	430	539	56.0	939	1054	58.0	23	41	77.1	44	52	61.9
4. 7 - 9	571	447	52.2	987	1261	49.1	38	46	66.1	76	100	63.8
5. 10 - 12	134	126	36.4	321	406	36.4	4	13	37.0	30	14	40.0
6. 13 - 15	37	24	33.2	84	86	38.8	-	2	22.2	2	1	14.3
7. 16 - 18	-	-	-	4	12	26.7	-	-	-	-	-	-
8. 19 & above	-	-	-	4	-	-	-	-	-	-	1	-
9. all ages	1491	1477	29.1*	3057	3549	29.5*	89	129	37.8*	185	214	39.3*

no. of animals born but died during the year (in 00)

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see footnote of all-India Table - 2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas

State : Himachal Pradesh

age group of mothers (in completed years)	r u r a l						u r b a n						
	c o w			b u f f a l o			c o w			b u f f a l o			
	no. of births male (in 00)	fertility rate (0.0)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)	fertility rate (0.0)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1.	-	-	-	-	-	-	-	-	-	-	-	-	-
2.	112	28.1	163	33	43	14.5	3	3	85.7	0	1	33.3	57
3.	225	43.1	336	87	117	38.6	3	4	77.8	2	1	75.0	1
4.	402	43.5	474	207	250	40.6	3	3	40.0	2	3	35.7	1
5.	187	30.1	206	108	154	31.3	2	2	44.4	3	2	71.4	1
6.	61	38.4	100	59	57	33.8	-	1	33.3	0	1	100.0	1
7.	14	17.8	15	7	8	13.2	-	-	-	0	-	-	-
8.	9	-	9	6	6	-	-	-	-	-	-	-	-
9. all ages	1000	24.9*	1505	507	635	23.8*	11	13	32.9*	7	8	34.1*	1
no. of animals born but died during the year. (in 00)	154	x	157	220	104	x	2	1	x	3	1	x	x

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see footnote of all-India Table - 2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Jammu & Kashmir

age group of mothers (in completed years)	r u r a l				u r b a n							
	c o w		b u f f a l o		c o w		b u f f a l o					
	no. of births (in 00)	fertility rate (0.0)	no. of births (in 00)	fertility rate (0.0)	no. of births (in 00)	fertility rate (0.0)	no. of births (in 00)	fertility rate (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	-	1	0.1	-	-	-	0	•	-	-	-	-
2.	4	155	28.1	15	22	13.9	8	10	36.7	0	1	33.3
3.	6	358	43.9	41	74	32.5	20	22	59.2	1	1	50.0
4.	9	432	35.8	76	144	29.9	20	26	41.4	2	2	50.0
5.	10-12	104	24.7	39	70	20.5	5	5	25.0	1	1	40.0
6.	13-15	21	24.2	12	20	17.6	2	3	62.5	0	-	-
7.	16-18	2	17.2	3	3	11.3	-	0	-	0	0	-
8.	19 & above	0	-	0	-	•	-	0	-	-	0	-
9.	all ages	1077	23.1*	186	333	16.7*	55	66	28.5*	4	5	27.3*
no. of animals born but died during the year (in 00)	134	87	x	107	57	x	6	5	x	1	0	x

note : fertility rate = no. of births by age group of mothers x 100  
no. of female animals possessed in the corresponding age group

\* see footnote of all-India Table 2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Karnataka

age group of mothers (in completed years)	r u r a l						u r b a n					
	c o w			b u f f a l o			c o w			b u f f a l o		
	no. of births (in00)	fertility rate (0.0)	fertility rate (0.0)	no. of births (in00)	fertility rate (0.0)	fertility rate (0.0)	no. of births (in00)	fertility rate (0.0)	fertility rate (0.0)	no. of births (in00)	fertility rate (0.0)	fertility rate (0.0)
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1.	15	20	0.5	5	-	0.3	8	4	4.5	42	68	44.0
2.	927	1381	32.5	451	1011	38.5	83	166	42.8	69	118	56.7
3.	1104	1565	34.5	707	1034	45.0	113	167	47.9	122	184	58.5
4.	1372	2108	38.1	880	1353	49.2	116	163	48.4	44	67	34.3
5.	415	480	19.7	231	402	23.6	39	62	31.6	14	10	28.6
6.	94	184	22.7	64	129	34.7	15	22	52.9	4	5	45.0
7.	32	27	25.8	-	15	13.9	4	2	35.3	4	5	45.0
8.	4	-	-	4	14	-	-	3	-	-	-	-
9.	not recorded	-	-	10	-	-	-	-	-	-	-	-
10.	all ages	5765	22.9*	2362	3968	28.1*	378	589	292*	295	452	35.8*
no. of animals born but died during the year (in00)	510	541	-	817	920	-	44	64	-	136	148	-

note : fertility rate = no. of births by age group of mothers x 100  
no. of female animals possessed in the corresponding age group.

\* see footnote of all-India Table - 2.

NATIONAL SAMPLE SURVEY, 50th ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Kerala

age group of mothers (in completed years)	rural				urban							
	cow		buffalo		cow		buffalo					
	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)	fertility rate (0.0)	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)	fertility rate (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 2	56	41	4.2	-	-	-	5	7	7.8	-	-	-
2. 3 - 4	505	714	58.8	67	34	43.7	47	58	41.5	4	6	58.8
3. 5 - 6	720	702	50.5	45	71	37.9	47	76	52.1	4	6	28.6
4. 7 - 9	664	703	47.9	63	93	41.5	51	58	48.7	6	11	40.5
5. 10 - 12	224	227	33.6	41	37	24.9	12	16	38.4	1	3	20.0
6. 13 - 15	37	48	36.8	4	7	29.7	1	6	35.0	-	1	16.7
7. 16 - 18	-	4	9.8	-	4	50.0	1	2	150.0	-	-	-
8. 19 & above	-	-	-	-	-	-	-	1	-	-	-	-
9. not recorded	-	11	-	7	11	-	4	-	-	-	-	-
10. all ages	2206	2450	27.2	227	257	28.1	168	224	29.1*	15	27	28.2*

no. of animals born but died during the year (in 00)

198 127 x 60 78 x 23 28 x 7 7 x

note : fertility rate = no. of births by age group of mothers / no. of female animals possessed in the corresponding age group x 100

\* see footnote of all-India Table - 2

NATIONAL SAMPLE SURVEY, 30th ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Madhya Pradesh

age group of mothers (in completed years)	rural				urban							
	cow		buffalo		cow		buffalo					
	no. of births male (in 00)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)				
(1)	(2)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1.	2	8	4	0.1	-	0.1	-	-	-	-	-	-
2.	3-4	1636	242	21.9	315	14.7	57	64	32.7	13	28.9	-
3.	5-6	3451	829	43.8	914	41.2	113	132	52.1	46	71.6	-
4.	7-9	4584	1119	40.6	1428	40.6	130	171	57.8	84	57.7	-
5.	10-12	1950	814	30.2	894	35.5	76	72	41.7	34	36.9	-
6.	13-15	503	280	27.2	278	36.3	24	21	43.7	15	59.0	-
7.	16-18	72	65	15.5	62	25.9	2	1	11.1	1	7.1	-
8.	19 & above	4	15	-	8	-	1	2	-	-	-	-
9.	not recorded	16	4	-	4	-	-	1	-	1	-	-
10.	all ages	12224	3372	24.1*	3903	23.8*	403	464	31.4*	165	38.4*	-
no. of animals born but died during the year (in 00)		1137	751	x	578	x	40	23	x	62	29	x

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see footnote of all-India table - 2.



NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Maharashtra

age group of mothers (in completed years)	rural						urban					
	cow			buffalo			cow			buffalo		
	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 2	4	4	0.1	-	-	-	-	1	0.4	-	1	0.7
2. 3	1539	1638	49.4	390	496	41.0	84	110	60.4	56	70	70.4
3. 5	1788	2279	44.0	637	864	53.7	110	170	65.1	90	117	63.3
4. 7	1940	2471	42.7	1053	1328	48.2	124	135	52.5	160	242	60.9
5. 10	643	775	26.3	404	551	30.6	43	72	37.7	55	56	28.1
6. 13	214	284	31.9	203	168	40.5	14	19	35.5	32	22	37.2
7. 16	64	39	20.0	35	18	20.9	1	-	4.5	4	5	32.1
8. 19 & above	4	9	-	8	13	-	3	-	-	1	3	-
9. all ages	6196	7499	26.9*	2730	3438	29.7*	379	507	33.0*	398	516	38.3*
no. of animals born but died during the year (in 00)	56	536	x	1019	768	x	31	46	x	188	129	x

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see footnote of all-India Table-2

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Manipur

age group of mothers (in completed years)	r u r a l						u r b a n					
	c o w			buffalo			c o w			buffalo		
	no. of births (in00)	ferti- lity rate (0.0)	no. of births (in00)	ferti- lity rate (0.0)	no. of births (in00)	ferti- lity rate (0.0)	no. of births (in00)	ferti- lity rate (0.0)	no. of births (in00)	ferti- lity rate (0.0)	no. of births (in00)	ferti- lity rate (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	46	62	7	22	50.9	3	0	7	58.8	1	0	100.0
2.	32	45	4	6	20.0	3	7	3	50.0	-	1	50.0
3.	15	21	5	4	26.5	2	3	3	50.0	-	0	-
4.	2	4	0	-	-	1	1	1	66.7	-	-	-
5.	1	1	-	-	-	-	0	0	-	-	-	-
6.	-	-	-	-	-	-	-	-	-	-	-	-
7.	-	-	-	-	-	-	-	-	-	-	-	-
8.	-	-	-	-	-	-	-	-	-	-	-	-
9.	0	1	-	-	-	-	-	-	-	-	-	-
10.	95	134	17	32	23.8*	9	14	14	34.3*	1	1	50.0*
no. of ani- mals born but died during the year (in00)	1	1	-	-	x	-	0	0	x	-	-	x

note : fertility rate = no. of births by age group of mothers x 100  
no. of female animals possessed in the corresponding age group

\* see footnote of all-India Table - 2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Meghalava

age group of mothers (in completed years)	rural		urban		cow		buffalo		buffalo		fertility rate (0.0)	fertility rate (0.0)
	no. of male (in 00)	no. of female (in 00)	no. of male (in 00)	no. of female (in 00)	no. of male (in 00)	no. of female (in 00)	no. of male (in 00)	no. of female (in 00)	no. of male (in 00)	no. of female (in 00)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 2	-	-	-	-	-	-	-	-	-	-	-	-
2. 3 - 4	56	63	44.2	2	1	84.8	1	2	75.0	-	-	-
3. 5 - 6	44	74	43.7	4	4	42.1	1	2	60.0	-	-	-
4. 7 - 9	51	44	35.7	3	5	28.6	0	1	33.3	-	-	-
5. 10 - 12	20	21	36.3	3	2	25.0	1	0	50.0	-	-	-
6. 13 - 15	6	6	48.0	2	4	46.2	-	-	-	-	-	-
7. 16 - 18	1	1	33.3	-	-	-	-	-	-	-	-	-
8. 19 & above	1	1	-	-	-	-	-	-	-	-	-	-
9. not recorded	1	-	-	-	-	-	-	-	-	-	-	-
10. all ages	180	210	27.1*	14	16	18.3*	3	5	36.4*	-	-	*
11. no. of animals born but died during the year (in 00)	9	11	x	4	2	x	1	-	x	-	-	x

note : fertility rate =  $\frac{\text{no. of female animals possessed in the corresponding age group}}{\text{no. of births by age group of mothers} \times 100}$

\* see footnote of all-India Table - 2

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas

State : Nagaland

age group of mothers (in completed years)	r u r a l				u r b a n							
	c o w		b u f f a l o		c o w		b u f f a l o					
	no. of births (in 00)	fertility rate (0.0)	no. of births (in 00)	fertility rate (0.0)	no. of births (in 00)	fertility rate (0.0)	no. of births (in 00)	fertility rate (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 2	-	-	-	-	-	-	-	0	-	-	-	-
2. 3 - 4	-	-	-	-	-	-	0	1	33.3	-	-	-
3. 5 - 6	-	-	-	-	-	-	1	1	66.7	-	-	-
4. 7 - 9	-	-	-	-	-	-	1	1	100.0	-	-	-
5. 10 - 12	-	-	-	-	-	-	1	0	50.0	-	-	-
6. 13 - 15	-	-	-	-	-	-	-	-	-	-	-	-
7. 16 - 18	-	-	-	-	-	-	-	-	-	-	-	-
8. 19 & above	-	-	-	-	-	-	-	-	-	-	-	-
9. all ages	-	-	-	-	-	-	3	3	37.5*	-	-	-
no. of animals born but died during the year (in 00)	-	-	-	x	-	-	-	0	x	-	-	x

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see footnote of all-India Table - 2

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and shebuffaloes in rural and urban areas.

State : Orissa

age group of mothers (in completed years)	r u r a l				u r b a n							
	c o w		buffalo		c o w		buffalo					
	no. of births	ferti- lity rate	no. of births	ferti- lity rate	no. of births	ferti- lity rate	no. of births	ferti- lity rate				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	male (in00)	female (in00)	(0.0)	male (in00)	female (in00)	(0.0)	male (in00)	female (in00)	(0.0)	male (in00)	female (in00)	(0.0)
1. 0	15	34	1.3	-	-	-	2	6	5.1	-	-	-
2. 1-4	1300	1631	50.8	51	80	32.6	70	82	66.1	3	-	37.5
3. 5-6	1227	1684	41.7	72	101	45.9	72	79	52.8	4	8	85.7
4. 7-9	1158	1334	33.9	87	149	37.3	55	77	44.9	3	3	18.2
5. 10-12	285	285	19.6	5	39	17.5	13	21	27.0	2	-	18.2
6. 13-15	65	57	15.9	24	5	36.7	7	5	48.0	-	-	-
7. 16-18	-	-	-	5	-	50.0	-	1	14.3	1	-	-
8. 19above	-	5	-	-	-	-	1	-	-	-	-	-
9. all ages	4050	5030	25.5*	244	374	26.2*	219	269	31.9*	13	11	24.5*
no. of animals born but died during the year (in 00)	144	230	x	35	35	x	18	16	x	3	2	-

note : fertility rate = no. of births by age group of mothers x 100

no. of female animals possessed in the corresponding age group.

\* see footnote of all-India table -2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Punjab

age group of mothers (in completed years)	rural				urban							
	cow		buffalo		cow		buffalo					
	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)	fertility rate (0.0)	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)	fertility rate (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1-2	11	7	1.0	-	7	0.2	4	1	4.8	-	1	0.6
2.3-4	425	482	49.1	707	849	35.9	44	64	73.0	43	51	48.5
3.5-6	557	618	51.7	1187	1341	50.9	39	41	67.8	101	99	65.6
4.7-9	616	579	43.1	1794	2208	53.1	46	42	49.2	146	164	60.4
5.10-12	178	176	35.3	671	735	36.5	10	19	49.2	46	59	37.5
5.13-15	31	58	30.3	222	280	40.6	2	2	25.0	5	21	42.6
7.16-18	5	4	18.4	35	25	19.5	-	1	100.0	4	1	27.8
9.19 & above	2	2	-	5	18	-	-	-	-	1	-	-
9. all ages	1825	1226	28.1	4621	5463	29.5	145	170	35.4	346	36	37.0

no. of animals born but died during the year (in 00)

x

151

x

235

x

1134

x

1108

x

102

note : fertility rate =  $\frac{\text{no. of births by age group of mothers} \times 100}{\text{no. of female animals assessed in the corresponding age group}}$

\* see footnote of all-India Table-2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Rajasthan

age group of mothers (in completed years)	c o w			buffalo			c o w			buffalo		
	no. of births (in00)	ferti- lity rate (0.0)	no. of births (in00)	ferti- lity rate (0.0)	no. of births (in00)	ferti- lity rate (0.0)	no. of births (in00)	ferti- lity rate (0.0)	no. of births		ferti- lity rate (0.0)	
									male (in00)	female (in00)		male (in00)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 2	9	9	0.3	412	549	23.6	61	1	0.4	-	-	-
2. 3 - 4	1165	1526	35.9	412	549	23.6	61	79	50.9	20	22	34.4
3. 5 - 6	2211	2400	48.6	1098	1313	51.9	96	85	62.6	47	41	53.7
4. 7 - 9	2845	2954	46.1	2059	2516	52.7	124	130	52.4	99	119	65.9
5. 10 - 12	740	797	26.9	784	649	28.4	37	34	27.7	19	33	28.1
6. 13 - 15	181	182	25.9	243	243	33.1	12	14	40.0	15	12	47.4
7. 16 - 18	5	32	19.7	16	11	12.8	3	1	25.0	-	-	-
8. 19 & above	6	24	-	9	4	-	-	1	-	-	-	-
9. all ages	7162	7924	26.9*	4621	5285	26.7*	333	345	31.4*	200	227	33.1*
10. no. of animals born but died during the year (in00)	662	547	-	1218	507	-	40	34	-	53	32	-

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\*see footnote/all-India Table-2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Tamil Nadu

age group of mothers (in completed years)	r u r a l				u r b a n							
	c o w		b u f f a l o		c o w		b u f f a l o					
	no. of births (in00)	fertility rate (0.0)	no. of births (in00)	fertility rate (0.0)	no. of births (in00)	fertility rate (0.0)	no. of births (in00)	fertility rate (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	20	10	0.7	-	31	1.7	6	11	4.9	-	-	-
2.	883	1336	30.8	440	925	42.0	151	227	54.5	31	74	52.2
3.	1116	1300	28.0	462	746	37.7	149	199	47.0	77	116	51.3
4.	1059	1210	30.2	442	769	37.6	163	187	43.8	99	108	42.6
5.	220	263	13.9	144	190	21.7	27	48	25.3	33	40	34.3
6.	55	45	14.2	15	20	20.0	6	12	22.0	3	13	32.0
7.	-	5	11.1	-	10	33.3	-	-	-	1	-	20.0
8.	-	15	-	5	-	-	1	3	-	-	-	-
9.	-	-	-	-	-	-	-	-	-	-	-	-
10.	31	10	-	-	5	-	-	1	-	-	-	-
11.	283	4194	19.1*	1508	2696	24.3*	503	688	29.5*	244	351	32.9*
12.	218	153	-	349	409	-	50	47	-	91	104	-

note : fertility rate = no. of births by age group of mothers x 100

no. of female animals possessed in the corresponding age group

\*see footnote of all-India table -2.



NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Tripura

age group of mothers (in completed years)	rural		urban		rural		urban		rural		urban	
	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)	no. of births male (in 00)	no. of births female (in 00)	fertility rate (0.0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 2	-	-	-	-	-	-	-	-	-	-	-	-
2. 3-4	43	79	41.9	-	1	7.1	0	2	40.0	-	-	-
3. 5-6	68	105	45.9	2	-	20.0	2	4	60.0	-	-	-
4. 7-9	82	122	42.9	4	2	31.6	4	6	52.6	0	-	-
5. 10-12	44	56	55.9	2	3	33.3	2	2	66.7	-	-	-
6. 13-15	9	20	42.0	3	1	57.1	1	1	100.0	-	-	-
7. 16-18	4	8	32.4	-	-	-	-	0	-	-	-	-
8. 19 & above	1	1	-	-	-	-	-	-	-	-	-	-
9. not recorded	2	2	-	-	-	-	0	0	-	-	0	-
0. all ages	253	393	26.9	11	7	22.5	9	15	35.8*	0	0	-
no. of animals born but died during the year (in 00)	9	8	x	-	-	x	-	0	x	0	-	x

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see footnote of all-India Table - 2

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Uttar Pradesh

age group of mothers (in completed years)	r u r a l				u r b a n							
	cow		buffalo		cow		buffalo					
	no. of births male (in 00)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	-	17	0.2	12	-	0.1	1	1	0.8	-	-	-
2.	2308	2541	37.5	1779	2584	31.3	89	73	63.0	35	46	45.5
3.	3296	3375	43.8	3315	4234	47.8	115	132	57.0	96	94	60.3
4.	3391	3570	37.6	5258	6513	46.9	124	171	53.8	175	218	56.1
5.	1060	979	26.4	1587	2008	29.1	38	42	34.3	57	59	30.6
6.	365	300	33.6	370	479	30.8	12	10	38.6	12	22	48.6
7.	30	48	15.1	54	35	16.2	1	2	18.8	2	3	26.3
8.	-	24	-	25	18	-	-	-	-	-	1	-
9.	-	18	-	30	12	-	-	2	-	-	-	-
10. all ages	10530	10872	25.2*	12430	15883	27.2*	380	433	32.9*	377	443	35.3*

no. of animals born but died during the year (in 00)

x

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see footnote of all-India Table - 2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : West Bengal

age group of mothers completed (in years)	r u r a l				u r b a n							
	c o w		b u f f a l o		c o w		b u f f a l o					
	no. of births (in00)	ferti- lity rate (0.0)	no. of births (in00)	ferti- lity rate (0.0)	no. of births (in00)	ferti- lity rate (0.0)	no. of births (in00)	ferti- lity rate (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2	5	5	0.1	-	-	-	3	6	1.9	-	-	-
3	788	1490	27.2	-	5	3.1	77	122	31.9	3	16	65.5
4	1432	2755	55.3	28	41	58.0	160	193	55.7	15	28	78.2
5	2092	3617	50.3	60	107	56.5	167	257	58.1	37	68	66.0
6	811	1558	35.4	40	37	38.3	55	89	38.1	22	36	56.9
7	194	301	31.7	-	18	26.5	7	28	39.3	8	24	56.1
8	18	47	19.1	-	-	-	4	6	33.3	1	1	14.3
9	5	10	-	-	5	-	1	-	-	1	-	-
10	15	15	-	-	5	-	4	17	-	-	3	-
11	not recorded	15	-	-	5	-	4	17	-	-	-	-
12	5360	9583	28.1*	128	218	31.5*	478	718	31.4*	87	176	52.3*
13	233	215	-	37	23	-	33	28	-	35	54	-

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\*see footnote of all-India Table-2.

NATIONAL SAMPLE SURVEY : 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas

State : Chandigarh

age group of mothers (in years)	r u r a l				u r b a n								
	c o w		b u f f a l o		c o w		b u f f a l o						
	no. of births male (in 00)	female (in 00)	ferti- lity rate (0.0)	no. of births male (in 00)	female (in 00)	ferti- lity rate (0.0)	no. of births male (in 00)	female (in 00)	ferti- lity rate (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1.	-	-	-	-	-	-	-	-	-	-	-	-	-
2.	-	-	-	-	-	-	-	-	-	-	-	-	-
3.	-	-	-	-	-	-	-	-	-	-	4	-	100.0
4.	-	-	-	-	-	-	-	-	-	-	1	1	28.6
5.	-	-	-	-	-	-	-	-	-	-	2	1	25.0
6.	-	-	-	-	-	-	-	-	-	-	-	-	-
7.	-	-	-	-	-	-	-	-	-	-	-	-	-
8.	-	-	-	-	-	-	-	-	-	-	-	-	-
9. all ages	-	-	-	-	-	-	-	-	-	-	4	2	207*

no. of animals born and died during the year (in 00)

note : fertility rate = no. of births by age group of mothers / no. of female animals possessed in the corresponding age group x 100

\* see footnote of all-India Table - 2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : Delhi

age group of mothers (in completed years)	rural				urban				fertility rate (0.0)			
	cow		buffalo		cow		buffalo					
	no. of births male (in 00)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)	no. of births male (in 00)	fertility rate (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 2	-	6	15.0	-	-	-	-	2	11.8	-	-	-
2. 3 - 4	12	-	70.6	40	6	102.2	3	18	72.4	8	27	89.7
3. 5 - 6	-	-	-	23	29	43.0	9	12	116.7	24	42	76.7
4. 7 - 9	11	6	42.5	35	45	49.7	3	5	36.4	42	47	39.2
5. 10 - 12	-	-	-	-	6	15.0	2	2	57.1	5	12	23.6
6. 13 - 15	-	-	-	6	-	100.0	-	-	-	2	-	100.0
7. 16 - 18	-	-	-	-	-	-	-	-	-	-	-	-
8. 19 & above	-	-	-	-	-	-	-	-	-	-	-	-
9. all ages	23	12	14.2	104	86	30.9	17	39	38.9*	81	128	42.4*
10. no. of animals born but died during the year in(00)	-	-	X	6	6	X	2	7	X	30	42	X

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see foot note of all-India Table-2

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas

State : Goa, Daman & Diu

age group of mothers (in completed years)	r u r a l				u r b a n				
	c o w		b u f f a l o		c o w		b u f f a l o		
	no. of births male (in 00) (3)	fertility rate (0.0) (4)	no. of births male (in 00) (5)	fertility rate (0.0) (6)	no. of births male (in 00) (7)	fertility rate (0.0) (8)	no. of births male (in 00) (9)	fertility rate (0.0) (10)	
1. 2	-	-	-	-	-	-	-	-	-
2. 3 - 4	-	7.5	-	-	-	0	-	-	-
3. 5 - 6	16	57.1	6	9	57.7	2	3	83.3	-
4. 7 - 9	30	48.0	10	18	127.3	1	2	75.0	-
5. 10 - 12	11	24.3	4	4	18.2	-	1	16.7	66.7
6. 13 - 15	13	42.9	4	-	26.7	1	1	50.0	100.0
7. 16 - 18	-	-	-	-	-	-	-	-	-
8. 19 & above	-	-	-	-	-	-	1	-	-
9. not recorded	-	-	2	-	-	-	-	-	-
10. all ages	70	24.1*	26	31	33.1*	4	8	30.0*	33.3*

no. of animals born but died during the year (in 00)

7	11	x	7	7	x	1	0	x	1	x
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note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see footnote of all-India Table - 2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas

State : Pondicherry

age group of mothers (in completed years)	r u r a l				u r b a n							
	cow		buffalo		cow		buffalo					
	no. of births male (in 00) (2)	no. of births female (in 00) (3)	ferti- lity rate (0.0) (4)	no. of births male (in 00) (5)	no. of births female (in 00) (6)	ferti- lity rate (0.0) (7)	no. of births male (in 00) (8)	no. of births female (in 00) (9)	ferti- lity rate (0.0) (10)	no. of births male (in 00) (11)	no. of births female (in 00) (12)	ferti- lity rate (0.0) (13)
1.	-	-	-	-	-	-	-	-	-	-	-	-
2.	8	12	28.2	1	1	28.6	3	3	50.0	-	-	-
3.	11	18	46.8	4	1	62.5	2	2	35.3	-	-	-
4.	16	22	44.2	3	11	63.6	6	6	70.6	0	1	33.3
5.	4	2	17.6	1	1	15.4	2	2	50.0	2	2	80.0
6.	1	3	100.0	-	1	100.0	1	1	66.7	1	2	100.0
7.	-	-	-	-	-	-	-	-	-	-	-	-
8.	-	-	-	-	-	-	-	-	-	-	-	-
9.	40	57	22.8*	9	15	32.4*	14	14	39.4*	3	5	30.8*
no. of animals born but died during the year (in 00)	6	4	x	4	3	x	2	1	x	1	2	x

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* see footnote of all-India Table-2.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (2) : Number of male and female births and fertility rate by age group of mothers for cows and she-buffaloes in rural and urban areas.

State : All-India

age group of mothers (in completed years)	r u r a l				u r b a n				ferti- lity rate (0.0)			
	c o w		buffalo		c o w		buffalo					
	no. of births male (in 00)	ferti- lity rate (0.0)	no. of births male (in 00)	ferti- lity rate (0.0)	no. of births male (in 00)	ferti- lity rate (0.0)	no. of births male (in 00)	ferti- lity rate (0.0)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	170	193	0.5	43	65	0.2	30	41	2.2	2	4	0.4
2.	15444	20506	35.8	6871	10708	32.4	945	1323	48.2	365.	583	49.5
3.	22565	28611	43.0	12030	16518	46.3	1281	1670	54.1	764	1037	57.5
4.	25526	30770	39.6	17669	24256	45.9	1386	1809	49.8	1304	1748	54.5
5.	8007	9258	26.0	6243	7725	29.2	411	570	32.7	432	523	32.6
6.	2126	2339	27.0	1894	2151	33.4	125	160	39.2	123	171	39.9
7.	267	305	17.3	267	249	20.0	18	18	21.2	18	18	23.5
8.	47	130	-	86	94	-	7	13	-	5	9	-
9.	88	67	-	65	56	-	8	21	-	2	3	-
10. all ages	74240	92179	24.9*	45168	61822	26.5*	4211	5625	30.8*	3015	4096	35.2*
no. of animals born but died during the year (in 00)	4989	5154	x	10483	7753	x	415	405	x	1097	910	x

note : fertility rate =  $\frac{\text{no. of births by age group of mothers}}{\text{no. of female animals possessed in the corresponding age group}} \times 100$

\* the figures in cols. 4, 7, 10 and 13 against all ages' give the general fertility rates which have been derived as the ratios of total births to total female animals multiplied by 100.



NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Andhra Pradesh

age at death (completed years)	rural										urban					
	cattle					buffalo					cattle			buffalo		
	no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate	
	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	
0	293	472	80	89	1314	1391	367	210	11	17	106	116	135	180	475	433
1	47	108	15	27	165	244	83	62	-	4	-	43	16	21	144	108
2	76	66	17	15	75	145	39	32	3	-	43	-	5	8	62	50
3 - 4	100	109	18	18	89	150	45	25	1	6	10	47	6	8	91	27
5 - 6	132	271	11	28	122	247	38	30	1	6	4	32	4	6	47	12
7 - 9	279	314	16	34	85	245	26	25	10	5	23	24	11	25	125	32
10 & above	181	282	20	70	75	217	54	43	11	8	45	75	7	15	189	41
all ages	1108	1622	20	38	1925	2639	111	60	37	46	30	49	184	263	245	97

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State: Assam

age at death (completed years)	cattle						buffalo						cattle						buffalo					
	rural			urban			rural			urban			rural			urban			rural			urban		
	no. of deaths (in 00) male	no. of deaths (in 00) female	death rate	no. of deaths (in 00) male	no. of deaths (in 00) female	death rate	no. of deaths (in 00) male	no. of deaths (in 00) female	death rate	no. of deaths (in 00) male	no. of deaths (in 00) female	death rate	no. of deaths (in 00) male	no. of deaths (in 00) female	death rate	no. of deaths (in 00) male	no. of deaths (in 00) female	death rate	no. of deaths (in 00) male	no. of deaths (in 00) female	death rate	no. of deaths (in 00) male	no. of deaths (in 00) female	death rate
(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)
1. 0	103	106	62	33	8	11	500	120	8	8	170	86	0	1	-	-	-	-	-	-	-	-	-	-
2. 1	248	286	147	103	-	3	-	28	10	17	200	183	-	-	-	-	-	-	-	-	-	-	-	-
3. 2	103	98	49	53	5	-	53	-	2	4	61	68	-	-	-	-	-	-	-	-	-	-	-	-
4. 3-4	60	101	29	21	-	-	-	-	1	5	59	34	-	-	-	-	-	-	-	-	-	-	-	-
5. 5-6	84	125	9	23	3	-	5	-	3	6	55	38	-	-	-	-	-	-	-	-	-	-	-	-
6. 7-9	163	92	17	27	19	5	21	23	4	4	55	31	-	-	-	-	-	-	-	-	-	-	-	-
7. 10 & above	125	79	28	67	49	14	139	125	2	4	48	100	-	-	-	-	-	-	-	-	-	-	-	-
8. not recorded	44	30	-	-	-	-5	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
all ages	930	917	31	41	84	38	39	39	33	51	104	71	0	1	-	-	-	-	-	-	-	-	-	333

note : death rate =  $\frac{\text{no. of animals possessed in the respective age group by sex}}{\text{no. of deaths by age and sex} \times 1000}$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Bihar

age at death (completed years)	rural										urban									
	Cattle					buffalo					cattle					buffalo				
	no. of deaths (in 00)	death rate	male	female	(in 00)	no. of deaths (in 00)	death rate	male	female	(in 00)	no. of deaths (in 00)	death rate	male	female	(in 00)	no. of deaths (in 00)	death rate	male	female	(in 00)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
1. 0	463	422	88	65	848	709	449	221	40	38	135	92	42	31	1077	330				
2. 1	137	140	35	32	120	96	171	46	7	12	45	56	3	3	150	88				
3. 2	76	75	15	12	30	30	41	10	3	1	25	4	3	2	214	43				
4. 3 - 4	107	87	21	13	60	60	62	16	2	4	18	14	1	3	37	55				
5. 5 - 6	274	122	18	14	56	25	31	6	6	9	21	19	-	3	-	29				
6. 7 - 9	388	201	14	18	10	90	4	14	23	12	39	21	-	4	-	24				
7. 10 & above	792	309	41	55	45	130	32	37	18	20	41	81	-	3	-	22				
8. not recorded	25	31	x	-	39	26	-	-	-	2	-	-	1	1	-	-				
9. all ages	2266	1387	27	28	1208	1166	121	45	99	98	50	40	50	50	194	79				

note : - death rate = no. of deaths by age and sex x 1000  
no. of animals possessed in the respective age group by sex

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Gujarat

age at death (completed years)	rural										urban									
	cattle					buffalo					cattle					buffalo				
	no. of deaths (in 00)		death rate		no. of deaths (in 00)	death rate		no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate		
	male	female	male	female		male	female	male	female	male	female	male	female	male	female	male	female	male	female	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
1. 0	291	389	234	228	1122	1163	1232	415	24	33	270	220	85	74	1604	366				
2. 1	90	80	63	48	56	118	119	41	6	14	113	116	3	8	125	66				
3. 2	106	35	39	15	17	70	68	16	1	7	11	58	-	7	-	45				
4. 3	89	63	32	22	23	142	146	35	4	13	35	68	-	10	-	71				
5. 4	163	294	30	87	9	138	89	31	8	25	56	137	1	4	1000	18				
6. 5	249	340	26	74	28	224	289	34	10	35	25	105	4	7	1333	16				
7. 6	693	200	71	74	18	224	545	55	34	29	106	156	-	18	-	59				
8. 7 & above	30	26	-	-	54	33	-	-	1	7	-	-	1	-	-	-				
9. all ages	1719	1427	52	73	1327	2112	645	72	88	163	72	127	94	128	887	81				

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (5) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Haryana

age at death (completed years)	rural										urban									
	cattle					buffalo					cattle					buffalo				
	no. of deaths (in 00)		death rate		female	no. of deaths (in 00)		death rate		female	no. of deaths (in 00)		death rate		female	no. of deaths (in 00)		death rate		female
	male	female	male	female		male	female	male	female		male	female	male	female		male	female	male	female	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
1.	0	86	193	55	136	1359	608	650	188	9	11	106	81	109	56	908	287			
2.	1	39	35	44	25	124	124	167	48	2	1	61	17	3	6	167	73			
3.	2	7	25	12	18	12	76	46	26	4	1	222	24	3	1	429	16			
4.	3	4	33	65	24	22	95	162	30	-	2	-	26	1	4	111	37			
5.	4	6	33	31	19	26	147	154	43	1	4	21	48	3	10	250	65			
6.	5	9	62	49	32	9	150	58	33	6	5	75	39	2	6	133	22			
7.	10 & above	255	65	100	69	27	112	628	44	4	3	61	55	-	2	-	15			
8. not recorded	13	9	9	-	-	49	40	-	-	-	1	-	-	1	1	-	-			
9. all ages	642	455	57	45	1628	1352	453	60	26	28	74	49	122	86	649	85				

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (5) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas

State : Himachal Pradesh

age at death (completed years)	r u r a l										u r b a n										
	c a t t l e					b u f f a l o					c a t t l e					b u f f a l o					
	no. of deaths (in 00)	death rate	male	female	no. of deaths (in 00)	death rate	male	female	no. of deaths (in 00)	death rate	male	female	no. of deaths (in 00)	death rate	male	female	no. of deaths (in 00)	death rate	male	female	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
1.	0	223	17	254	169	396	205	2415	447	2	2	353	182	4	1	1333	200	-	-	-	-
2.	1	65	88	89	100	16	30	219	79	1	1	143	111	1	-	1000	-	-	-	-	-
3.	2	33	32	32	32	3	12	45	26	-	-	-	-	-	-	-	-	-	-	-	-
4.	3	42	41	37	42	4	1	77	2	1	1	333	143	-	0	-	-	-	-	-	-
5.	5	55	52	35	40	6	10	140	19	0	1	-	111	-	0	-	-	-	-	-	-
6.	7	63	66	27	33	7	36	219	32	1	2	56	133	-	1	-	-	-	-	-	71
7.	10 & above	205	151	68	65	7	63	318	266	1	1	85	77	-	1	-	-	-	-	-	100
8.	not recorded	1	1	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.	all ages	687	600	64	65	444	357	982	74	6	8	97	110	5	3	833	68	-	-	-	-

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

National Sample Survey, 30th Round : July 1975 - June 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Jammu & Kashmir

age at death (completed years)	r u r a l						u r b a n										
	cattle			buffalo			cattle			buffalo							
	no. of deaths (in 00)	rate	no. of deaths (in 00)	rate	no. of deaths (in 00)	rate	no. of deaths (in 00)	rate	no. of deaths (in 00)	rate	no. of deaths (in 00)	rate					
	male	fe- male	male	fe- male	male	fe- male	male	fe- male	male	fe- male	male	fe- male	male	fe- male			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	
1.	0	204	128	223	109	140	74	1053	186	9	8	191	133	1	1	333	200
2.	1	66	57	93	74	16	18	188	76	3	3	100	75	1	-	-	-
3.	2	37	34	45	37	8	6	113	18	2	102	100	45	-	0	-	-
4.	3 - 4	58	46	88	44	6	11	78	41	2	2	154	41	-	0	-	-
5.	5 - 6	62	65	44	43	3	13	31	37	1	3	50	42	-	-	-	-
6.	7 - 9	88	152	39	69	5	36	47	49	2	4	54	36	-	-	-	-
7.	10 & above	64	90	55	85	6	49	182	63	2	4	105	80	-	-1	-	143
8.	not re- corded	2	1	-	-	0	-	-	-	-	-	-	-	-	-	-	-
9.	all ages	581	573	73	66	184	207	305	67	21	26	113	61	2	2	286	61

note : death rate = no. of deaths by age and sex x 1000

no. of animals possessed in the respective age group by sex.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Karnataka

age at death (completed years)	r u r a l						u r b a n									
	cattle		buffalo		cattle		buffalo		cattle		buffalo					
	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)				
	male	female	male	female	male	female	male	female	male	female	male	female				
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1. 0	543	713	151	134	926	981	615	323	51	72	178	131	171	184	1315	641
2. 1	168	258	55	77	97	86	115	47	12	20	73	58	3	14	67	104
3. 2	111	181	32	47	29	61	63	31	5	14	27	53	2	2	125	16
4. 3 - 4	169	138	37	19	54	48	152	13	2	10	9	17	5	10	714	40
5. 5 - 6	190	199	24	26	17	107	31	28	11	16	27	27	5	21	500	64
6. 7 - 9	239	308	19	34	35	159	47	35	10	13	16	23	5	20	172	38
7. 10 & a above	385	278	39	46	21	114	40	34	10	46	16	112	2	24	118	55
8. not re- corded	10	10														
9. all ages	1815	2085	40	49	1179	1556	236	69	111	191	42	58	193	275	760	132

x 1000

note : death rate = no. of deaths by age and sex

no. of animals possessed in the respective age group by sex.



NATIONAL SAMPLE SURVEY, 50TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Kerala

age at death (completed years)	rural										urban									
	cattle					buffalo					cattle					buffalo				
	no. of deaths (in 00)		death rate		no. of deaths (in 00)	no. of deaths (in 00)		death rate		no. of deaths (in 00)	no. of deaths (in 00)		death rate		no. of deaths (in 00)	no. of deaths (in 00)		death rate		
	male	female	male	female		male	female	male	female		male	female	male	female		male	female	male	female	male
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	
1. 0	347	269	167	110	97	130	567	760	32	50	193	228	17	16	1545	762	18	23	222	154
2. 1	78	75	91	40	11	15	102	159	8	5	178	32	1	3	111	500	18	23	222	154
3. 2	4	37	8	16	-	-	-	-	1	4	63	26	-	-	-	-	18	23	222	154
4. 3-4	12	19	33	6	-	8	41	55	7	4	-	16	-	-	-	-	18	23	222	154
5. 5-6	4	37	7	13	4	-	7	-	-	4	-	17	-	-	-	-	18	23	222	154
6. 7-9	25	78	23	27	18	-	29	-	-	4	-	18	-	3	-	71	18	23	222	154
7. 10 & above	41	67	37	42	15	-	44	-	-	-	-	-	-	1	-	38	18	23	222	154
8. not recorded	4	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	18	23	222	154
9. all ages	511	586	77	34	145	153	59	89	41	72	130	53	18	23	222	154	18	23	222	154

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Madhya Pradesh

age at death (completed years)	rural						urban												
	cattle			buffalo			cattle			buffalo									
	no. of deaths (in 00)		death rate	no. of deaths (in 00)		death rate	no. of deaths (in 00)		death rate	no. of deaths (in 00)		death rate							
	male	female	(5)	male	female	(8)	male	female	(10)	female	(11)	male	female	(14)	female	(15)	male	female	(16)
1.	1202	996	194	139	852	547	504	262	46	24	212	89	65	38	1000	494			
2.	823	620	84	58	312	199	155	69	23	27	90	87	12	13	273	165			
3.	545	366	43	26	216	170	126	41	9	10	38	31	4	-	118	-			
4.	382	325	31	21	93	110	62	29	10	7	63	19	2	1	118	11			
5.	303	420	18	26	76	165	40	39	3	13	14	28	-	3	-	26			
6.	793	764	25	32	199	232	47	37	12	23	30	44	3	18	136	66			
7.	1984	1614	58	88	439	426	127	59	43	41	87	82	6	12	462	52			
8. not recorded	40	16	-	-	24	11	-	-	1	1	-	-	-	-	-	-			
9. all ages	6072	5121	49	48	2211	1860	134	61	147	146	74	53	92	85	438	91			

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Maharashtra

age at death (completed years)	rural										urban									
	cattle					buffalo					cattle					buffalo				
	no. of (in00)	death rate	no. of (in00)	death rate	no. of (in00)	death rate	no. of (in00)	death rate	no. of (in00)	death rate	no. of (in00)	death rate	no. of (in00)	death rate	no. of (in00)	death rate	no. of (in00)	death rate		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
0	491	569	85	82	1083	920	663	362	49	50	146	104	197	152	1216	450				
1	126	191	26	39	90	66	105	39	10	11	45	42	9	1	173	6				
2	124	126	20	23	28	26	54	11	9	7	48	26	5	7	139	50				
3-4	98	142	16	22	29	48	63	22	7	6	39	19	-	8	-	45				
5-6	152	183	14	20	34	54	54	19	9	26	25	60	3	7	429	21				
7-9	281	215	18	21	30	71	34	14	16	17	27	34	2	24	125	36				
10 above	666	437	36	58	39	147	58	34	27	42	44	98	1	19	100	33				
not re- corded	54	62	-	-	40	9	-	-	1	5	52	61	16	237	790	99				
all ages	1992	1925	29	38	1373	1341	243	65	128	164	52	61	233	237	790	99				

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Manipur

age at death (completed years)	rural										urban									
	cattle					buffalo					cattle					buffalo				
	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)				
1.	0	1	22	17	1	-	100	-	-	1	-	111	-	-	0	-				
2.	1	2	21	8	-	-	-	-	-	1	-	111	-	-	-	-				
3.	2	11	14	14	-	-	-	-	-	-	-	-	-	-	-	-				
4.	3-4	1	6	5	-	-	-	-	1	-	91	-	-	-	-	-				
5.	5-6	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-				
6.	7-9	1	4	10	-	1	-	29	-	-	-	-	-	-	-	-				
7.	10 & above	-	-	-	-	1	-	157	-	-	-	-	-	-	-	-				
8.	all ages	7	7	7	1	2	8	10	1	2	12	30	-	-	0	-				

note : death rate = no. of deaths by age and sex

x 1000

no. of animals possessed in the respective age group by sex

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Meghalaya

age at death (completed year)	rural										urban				buffalo					
	cattle					buffalo					cattle		buffalo		no. of deaths (in 00)		death rate			
	no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate	
	male	fe- male	male	fe- male	male	fe- male	male	fe- male	male	fe- male	male	fe- male	male	fe- male	male	fe- male	male	fe- male	male	fe- male
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
1. 0	6	6	52	39	2	3	250	429	-	-	-	-	-	-	-	-	-	-	-	
2. 1	7	12	51	72	1	2	111	182	1	1	1000	250	-	-	-	-	-	-	-	
3. 2	4	5	21	36	1	-	100	-	-	-	-	-	-	-	-	-	-	-	-	
4. 3-4	4	7	17	26	1	1	42	29	-	-	-	-	-	-	-	-	-	-	-	
5. 5-6	4	4	11	15	-	1	-	53	-	-	-	-	-	-	-	-	-	-	-	
6. 7-9	2	7	5	26	1	-	59	-	-	-	-	-	-	-	-	-	-	-	-	
7. 10 & above	3	6	10	41	-	1	-	24	-	-	-	-	-	-	-	-	-	-	-	
8. all ages	30	48	17	33	6	8	59	49	1	1	250	45	-	-	-	-	-	-	-	

note : death rate =  $\frac{\text{no. of animals possessed in the respective age group by sex}}{\text{no. of deaths by age and sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (5) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas

age at death (completed years)	r u r a l						u r b a n									
	cattle			buffalo			cattle			buffalo						
	no. of deaths (in 00)	death rate	no. of deaths (in 00)	death rate	no. of deaths (in 00)	death rate	no. of deaths (in 00)	death rate	no. of deaths (in 00)	death rate	no. of deaths (in 00)	death rate				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1.	-	-	-	-	-	-	-	-	1	1	1000	-	-	-	-	-
2.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8. all ages	-	-	-	-	-	-	-	-	1	1	111	63	-	-	-	-

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Orissa

age at death (completed years)	rural						urban										
	cattle			buffalo			cattle			buffalo							
	no. of death (in 00)	death rate (in 00)	death rate (in 00)	no. of death (in 00)	death rate (in 00)	death rate (in 00)	no. of death (in 00)	death rate (in 00)	death rate (in 00)	no. of death (in 00)	death rate (in 00)	death rate (in 00)					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1.	0	333	469	88	98	74	60	423	185	33	31	162	131	5	4	500	500
2.	1	99	180	34	56	-	-	-	-	6	12	62	72	-	1	-	91
3.	2	78	43	23	11	16	-	132	-	6	7	62	45	1	-	333	-
4.	3	47	132	11	23	10	15	21	37	3	11	42	48	-	1	-	125
5.	6	125	191	12	27	20	22	15	58	6	9	35	31	2	-	80	-
6.	7	222	185	14	25	39	14	19	22	4	12	14	41	1	1	42	30
7.	10	286	320	32	85	20	30	29	88	3	13	23	81	-	-	-	-
8. not recorded	11	5	5	-	-	1	1	-	0	-	3	-	3	-	7	11	11
9. all ages	1195	1525	1525	24	43	179	141	36	60	62	98	59	64	9	7	115	71

note : death rate = no. of deaths by age and sex x 1000

no. of animals possessed in the respective age group by sex

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Punjab

age at death (completed years)	r u r a l						u r b a n									
	c a t t l e			b u f f a l o			c a t t l e			b u f f a l o						
	no. of deaths (in00)	death rate (in00)	no. of deaths rate (in00)	female male	female male	death rate (in00)	no. of deaths (in00)	death rate (in00)	no. of deaths (in00)	death rate (in00)	female male	female male	death rate (in00)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0	233	319	136	180	1443	1411	561	327	18	18	135	108	199	130	1015	411
1	85	63	57	41	120	129	116	37	6	2	129	21	4	4	91	28
2	32	32	23	18	43	81	91	20	-	5	-	48	-	2	-	11
3	68	48	53	26	38	115	91	27	2	7	44	47	1	6	200	31
4	90	88	39	39	50	174	80	35	6	7	103	59	1	11	83	36
5	176	110	49	40	74	232	105	31	4	8	37	45	1	16	100	31
6	210	108	55	78	20	187	57	34	5	4	45	52	1	16	167	44
7	10	& above	4	-	20	9	-	-	-	-	-	-	-	1	-	-
8. not re-	corded															
9. all ages	899	768	58	58	1808	2338	292	69	41	51	77	57	207	186	724	93

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$



NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas

State : Rajasthan

age at death (completed years)	rural										urban									
	cattle					buffalo					cattle					buffalo				
	no. of deaths (in 00)	death rate	fe- male	male	no. of deaths (in 00)	death rate	fe- male	male	no. of deaths (in 00)	death rate	fe- male	male	no. of deaths (in 00)	death rate	fe- male	male				
1.	94	126	135	1562	687	449	143	54	48	175	142	77	38	472	184					
2.	35	46	59	209	186	126	54	16	17	126	86	12	11	261	104					
3.	137	25	30	73	168	71	37	4	5	33	21	1	5	48	44					
4.	150	25	30	45	136	61	33	2	10	22	36	3	5	136	41					
5.	295	44	35	53	111	89	24	7	17	49	59	2	3	80	18					
6.	170	49	22	42	310	99	36	6	20	30	41	1	9	56	27					
7.	170	110	79	24	434	110	64	15	35	64	102	1	18	83	73					
8. not recorded	19	5	14	5	14	247	55	1	152	86	70	97	89	316	69					
9. all ages	3397	61	56	2013	2046	247	55	105	152	86	70	97	89	316	69					

note : death rate = no. of deaths by age and sex x 1000

no. of animals possessed in the respective age group by sex

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Tamil Nadu

age at death (completed years)	r u r a l										u r b a n								
	c a t t l e			b u f f a l o			c a t t l e			b u f f a l o			c a t t l e			b u f f a l o			
	no. of deaths (in00)	death rate	fe- male	no. of deaths (in00)	death rate	fe- male	no. of deaths (in00)	death rate	fe- male	no. of deaths (in00)	death rate	fe- male	no. of deaths (in00)	death rate	fe- male	no. of deaths (in00)	death rate	fe- male	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	
1.	312	83	352	94	84	446	643	369	272	86	70	166	102	150	153	1056	571	50	
2.	89	27	93	23	26	50	80	103	49	20	20	102	53	8	6	154	50	43	
3.	85	13	54	27	13	30	30	67	16	-	6	-	17	4	4	200	20	37	
4.	55	12	83	13	12	15	65	43	20	10	14	75	20	1	4	67	20	47	
5.	159	17	146	7	17	40	43	106	13	5	19	15	26	-	14	-	37	47	
6.	143	27	202	14	27	45	80	35	25	17	19	37	24	-	23	-	47	26	
7.10&above	-	42	179	16	42	-	25	-	14	12	13	29	34	-	7	-	26	-	
8.not re- corded	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.all ages	926	1114	22	28	596	966	170	56	161	150	69	40	163	211	634	117	-	-	

note : death rate = no. of deaths by age and sex x 1000  
no. of animals possessed in the respective age group by sex

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Tripura

age at death (completed years)	rural						urban									
	cattle		buffalo		cattle		buffalo		cattle		buffalo					
	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)	no. of deaths (in 00)	death rate (in 00)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1. 0	15	19	103	78	5	1	1250	333	1	1	167	125	0	-	-	-
2. 1	38	28	190	111	-	1	-	167	1	1	250	125	-	-	-	-
3. 2	21	5	74	15	-	-	-	-	1	1	500	167	-	-	-	-
4. 3-4	9	14	37	48	-	-	-	-	-	-	-	-	-	-	-	-
5. 5-6	6	7	16	19	1	1	111	100	-	-	-	-	-	-	-	-
6. 7-9	13	12	17	25	1	4	91	211	-	-	-	-	-	-	-	-
7. 10 & above	16	26	23	64	1	3	143	136	-	1	-	100	-	-	-	-
8. not recorded	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9. all ages	118	114	43	48	8	10	170	125	3	4	120	60	0	-	-	-

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE, 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Uttar Pradesh

age at death (completed years)	r u r a l						u r b a n										
	cattle			buffalo			cattle			buffalo							
	no. of deaths (in 00)		death rate	no. of deaths (in 00)		death rate	no. of deaths (in 00)		death rate	no. of deaths (in 00)		death rate					
	male	female	(5)	male	female	(8)	male	female	(10)	male	female	(13)	male	female	(16)		
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)		
1.	1631	1453	166	141	5913	3765	747	286	64	61	169	141	203	141	949	408	
2.	487	410	55	50	496	581	118	69	12	8	74	33	14	11	215	82	
3.	250	275	23	30	239	293	80	25	11	11	96	45	9	17	333	96	
4.	473	363	32	28	224	399	62	29	3	8	29	31	3	9	176	51	
5.	818	545	28	36	219	457	36	29	7	19	32	44	2	17	22	54	
6.	1418	819	30	44	310	879	50	35	22	30	51	55	8	22	84	31	
7.	3705	1160	93	112	231	733	95	46	28	13	72	42	4	12	66	26	
8.	all ages	8782	5025	55	59	7632	7107	228	68	147	150	82	61	243	229	428	99

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : West Bengal

age at death (completed years)	r u r a l										u r b a n												
	c a t t l e					b u f f a l o					c a t t l e					b u f f a l o							
	no. of deaths (in00)	death rate	fe- male	no. of deaths (in00)	death rate	fe- male	no. of deaths (in00)	death rate	fe- male	no. of deaths (in00)	death rate	fe- male	no. of deaths (in00)	death rate	fe- male	no. of deaths (in00)	death rate	fe- male	no. of deaths (in00)	death rate	fe- male		
1.	250	320	91	70	45	23	1667	383	54	148	155	39	64	2167	1391	800	800	39	16	24	1000	800	
2.	42	494	108	79	14	23	154	172	43	113	95	16	24	1000	800	800	800	16	24	24	1000	800	
3.	170	194	32	28	-	4	-	37	10	93	21	-	-	-	-	-	-	-	-	3	3	103	103
4.	145	195	30	23	5	4	18	25	9	16	14	1	5	250	91	44	44	1	1	5	250	91	
5.	96	115	16	15	15	5	21	42	7	38	11	-	7	250	91	44	44	-	-	7	250	91	
6.	217	251	14	22	23	15	12	60	15	13	21	-	19	53	6	6	6	1	1	1	53	6	
7.	380	430	21	53	38	-	21	-	19	28	38	1	1	53	6	6	6	1	1	1	53	6	
8.	not re- corded	27	24	-	-	-	-	-	8	-	-	1	7	-	-	-	-	1	7	7	-	-	
9.	all ages	1747	2023	31	38	140	74	67	165	70	43	58	111	734	221	221	221	58	111	111	734	221	

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (5) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas

State : Chandigarh

age at death (completed years)	r u r a l				u r b a n											
	c a t t l e		b u f f a l o		c a t t l e		b u f f a l o									
	no. of deaths (in 00)	death rate	no. of deaths (in 00)	death rate	no. of deaths (in 00)	death rate	no. of deaths (in 00)	death rate								
	male	female	male	female	male	female	male	female								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0	-	-	-	-	-	-	-	-	-	-	-	-	5	2	1250	1000
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 - 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 - 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 - 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 & above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8. all ages	-	-	-	-	-	-	-	-	-	-	-	-	5	2	1250	1000

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Delhi

age at death (completed years)	r u r a l				u r b a n											
	c a t t l e		b u f f a l o		c a t t l e		b u f f a l o									
	no. of deaths (in00)	death no. of deaths rate (in00)	death no. of deaths rate (in00)	death no. of deaths rate (in00)	death no. of deaths rate (in00)	death no. of deaths rate (in00)	death no. of deaths rate (in00)	death no. of deaths rate (in00)								
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0	-	-	-	29	11	420	96	3	5	200	86	42	29	808	377	-
1	-	-	-	-	6	-	87	2	-	133	-	-	-	-	-	-
2	12	-	300	-	6	-	103	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	4	222	-	6	-	-	51
6	6	-	333	-	-	-	-	-	-	-	-	-	2	-	-	70
7	-	-	458	-	-	-	-	-	-	-	-	-	2	-	-	11
8, 10 & above	11	-	72	49	29	266	37	5	9	68	182	42	41	568	27	83
8. all ages	17	12	72	49	29	266	37	5	9	68	182	42	41	568	27	83

note : death rate = no. of deaths by age and sex x 1000  
no. of animals possessed in the respective age group by sex.

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : Goa, Daman & Diu

age at death (completed years)	r u r a l						u r b a n										
	cattle			buffalo			cattle			buffalo							
	no. of deaths (in.00)		death rate	no. of deaths (in.00)		death rate	no. of deaths (in.00)		death rate	no. of deaths (in.00)		death rate					
	male	female	male	female	male	female	male	female	male	female	male	female					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	
1.	0	13	19	245	409	18	22	1385	2000	1	1	500	200	3	1	3000	1000
2.	1	11	2	379	35	-	-	-	-	-	-	-	-	-	-	-	-
3.	2	-	2	-	27	-	-	-	-	-	-	-	-	-	-	-	-
4.	3	4	7	83	75	6	2	300	83	1	-	167	-	-	-	-	-
5.	5	6	2	-	36	-	-	-	-	1	-	200	-	-	-	-	-
6.	7	9	-	67	-	-	9	-	409	-	-	-	-	-	-	-	-
7.	10 & above	15	29	76	246	2	7	32	111	2	1	154	83	-	-	-	-
8.	all ages	55	57	67	108	26	40	167	233	5	2	139	50	3	1	750	67

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$



NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (5) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas

State : Pondicherry

age at death (completed years)	r u r a l										u r b a n													
	cattle					buffalo					cattle					buffalo								
	no. of deaths (in 00)		death rate		male	no. of deaths (in 00)		death rate		male	no. of deaths (in 00)		death rate		male	no. of deaths (in 00)		death rate		male	no. of deaths (in 00)		death rate	
	male	female	male	female		male	female	male	female		male	female	male	female		male	female	male	female		male	female	male	female
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	
1. 0	9	8	273	151	5	3	1000	250	2	2	154	182	1	1	500	333								
2. 1	3	-	86	-	1	1	1000	143	1	1	500	250	-	-	-	500								
3. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4. 3-4	1	1	111	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5. 5-6	-	1	-	16	-	1	-	125	1	1	333	83	-	-	-	-	-	-	-	-	-	-	-	-
6. 7-9	1	1	11	12	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	100	-
7. 10 & above	-	1	-	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8. all ages	14	12	50	28	6	5	667	68	4	4	125	56	2	2	400	77								

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (3) : Number of deaths by sex and death rate classified by age at death for cattle and buffaloes in rural and urban areas.

State : All-India

age at death (completed years)	r u r a l										u r b a n					
	cattle					buffalo					cattle		buffalo			
	no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate		no. of deaths (in 00)		death rate	
	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1. 0	7933	8355	130	110	17688	13361	604	268	592	605	165	126	1552	1298	928	445
2. 1	3410	3464	61	53	1901	2012	122	56	180	220	89	67	101	124	180	89
3. 2	2004	1870	29	24	824	1180	72	25	73	94	45	29	36	57	119	42
4. 3 - 4	2164	2137	28	21	727	1412	59	26	53	120	34	26	25	74	113	39
5. 5 - 6	2967	3516	20	28	753	1721	39	28	79	192	28	35	24	111	66	35
6. 7 - 9	5207	4799	22	34	953	2792	38	31	152	233	30	36	37	191	85	34
7. 10 & above	11030	6621	54	76	1073	2917	77	46	227	296	50	75	24	151	89	39
8. not recor- ded	286	248	-	-	235	148	-	-	15	32	-	-	22	30	-	-
9. all ages	35001	30810	41	46	24154	25543	189	63	1371	1792	64	56	1821	2036	475	101

note : death rate =  $\frac{\text{no. of deaths by age and sex}}{\text{no. of animals possessed in the respective age group by sex}} \times 1000$

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Andhra Pradesh

age group (in completed years)	rural			urban				
	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. up to 3	-	-	-	-	-	-	-	-
2. 4	10	7	14	8	23.	-	-	-
3. 5 - 6	17	9	17	9	21.	-	12.	-
4. 7 - 9	22	10	20	10	22	8	17	9
5. 10 - 12	23	10	20	10	23	9	21	10
6. 13 - 15	27	11	23	11	23	10	21	10
7. 16 & above	26	12	25	10	27	7	25	12
8. all ages	22	10	20	10	22	6	31	10
av. age at first calving (months)	47	x	46	x	46	x	44	x

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Assam

age group (in completed years)	rural			urban			
	cow av. interval between two calvings ( months )	av. period of pre- vious lac- tation ( months )	av. interval between two calvings ( months )	cow av. interval between two calvings ( months )	av. period of previous lactation ( months )	buffalo av. interval between two calvings ( months )	buffalo av. period of previous lactation ( months )
	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. upto 3	-	-	-	-	-	-	-
2. 4	12	7	-	-	12	7	-
3. 5 - 6	13	9	19	10	13	7	-
4. 7 - 9	16	9	19	9	17	6	-
5. 10 - 12	18	8	24	7	20	8	12
6. 13 - 15	16	14	21	-	26	9	12
7. 16 & above	23	7	36	12	19	7	-
8. all ages	16	9	21	9	17	7	12
av. age at first calving (months)	46	x	48	x	46	x	54
							x

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Bihar

Age group (in completed years)	rural		urban						
	cow	buffalo	cow	buffalo					
	av. inter- val between two calvings (months)	av. inter- val between two calvings (months)	av. inter- val between two calvings (months)	av. inter- val between two cal- ving (months)	av. peric of previc lactation (months)	av. period of pre- vious lactation (months)	av. interval between two cal- ving (months)	av. interval between two cal- ving (months)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto 3	-	-	-	-	-	-	-	-	-
2. 4	10	-	-	10	11	12	-	-	-
3. 5 - 6	16	8	8	17	10	17	8	19	8
4. 7 - 9	20	9	9	19	10	20	8	19	10
5. 10 - 12	21	9	9	19	10	20	9	19	10
6. 13-15	22	9	9	19	10	22	10	19	9
7. 16 & above	27	10	10	20	12	19	9	19	-
8. all ages	20	9	9	19	10	20	8	19	10
av. age at first calving (months)	48	x	x	49	x	47	x	50	x

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NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Gujarat

age group (in completed years)	rural						urban					
	cow			buffalo			cow			buffalo		
	av. interval between calvings (months)	av. period of previous lactation (months)	av. period of previous lactation (months)	av. interval between calvings (months)	av. period of previous lactation (months)	av. period of previous lactation (months)	av. interval between calvings (months)	av. period of previous lactation (months)	av. period of previous lactation (months)	av. interval between calvings (months)	av. period of previous lactation (months)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
1. up to 3	-	-	-	-	-	-	-	-	-	-	-	-
2. 4	16	-	-	12	-	16	-	12	-	12	9	9
3. 5 - 6	16	10	10	16	10	17	11	17	11	17	12	12
4. 7 - 9	20	11	11	17	11	20	11	21	11	21	11	11
5. 10 - 12	21	10	10	20	11	21	11	21	11	21	11	11
6. 13 - 15	26	11	11	21	11	29	11	20	11	20	12	12
7. 16 & above	23	11	11	24	11	23	10	22	10	22	11	11
8. all ages	21	11	11	19	11	21	11	21	11	21	11	11
av. age at first calving (months)	47	x	x	43	x	44	x	43	x	43	x	x

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NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Haryana

age group (in completed years)	R u r a l				u r b a n			
	C O W		b u f f a l o		C O W		b u f f a l o	
	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto 3	-	-	11	-	-	-	-	-
2. 4	10	10	-	-	21	3	10	-
3. 5 - 6	16	8	16	9	16	7	16	10
4. 7 - 9	17	9	18	10	17	8	17	10
5. 10 - 12	17	9	17	10	17	10	16	10
6. 13 - 15	17	9	17	6	15	8	17	12
7. 16 & above	14	9	17	10	-	-	13	10
8. all ages	17	9	17	10	17	8	17	10
av. age at first calving (months)	44	x	46	x	43	x	46	x

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NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas

State : Himachal Pradesh

age group (in completed years)	r u r a l				u r b a n												
	c o w		b u f f a l o		c o w		b u f f a l o										
	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)									
1. upto 3	18	(2)	8	(3)	-	(4)	-	(5)	-	(6)	-	(7)	-	(8)	-	(9)	
2. 4	-		9		-		11		12		-	12		-		-	
3. 5 - 6	18		9		16		14		6		14		6		14		
4. 7 - 9	22		10		24		25		13		25		10		21		
5. 10 - 12	24		10		25		21		11		21		10		24		
6. 13 - 15	24		11		24		38		13		38		12		23		
7. 16 & above	25		11		14		26		12		26		12		21		
8. all ages	25		10		24		27		13		27		10		26		
av. age at first calving (months)	53		x		58		46		x		46		x		55		x



NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and averages period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Jammu & Kashmir

age group (in years)	r u r a l			u r b a n			
	c o w	buffalo	buffalo	c o w	buffalo	buffalo	
	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	
	(2)	(3)	(4)	(5)	(6)	(7)	
	(8)	(9)	(10)	(11)	(12)	(13)	
1. upto 3	-	-	-	-	-	-	-
2. 4	10	-	-	-	23	12	-
3. 5 - 6	10	12	17	12	17	10	11
4. 7 - 9	11	13	24	13	20	12	13
5. 10-12	11	14	27	14	21	12	15
6. 13 -15	12	15	26	15	26	11	14
7. 16 & above	16	14	26	14	27	15	-
8. all ages	11	14	25	14	21	11	13
average age at first calving (months)	-	-	53	-	50	-	-

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Karnataka

age group (in completed years)	r u r a l		u r b a n						
	c o w	buffalo	c o w	buffalo					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	average interval between two calvings (months)	average interval between two calvings (months)	average interval between two calvings (months)	average interval between two calvings (months)	average interval between two calvings (months)	average interval between two calvings (months)	average interval between two calvings (months)	average interval between two calvings (months)	average interval between two calvings (months)
1. upto 3	-	-	-	-	-	24	-	-	-
2. 4	15	30	6	30	4	20	4	17	-
3. 5 - 6	20	20	4	20	4	20	4	20	5
4. 7 - 9	23	22	6	22	5	23	5	23	5
5. 10 - 12	29	24	6	24	6	23	5	23	5
6. 13 - 15	26	29	7	29	5	31	4	27	7
7. 16 & above	29	28	7	28	7	31	5	23	6
8. all ages	24	24	6	24	5	24	5	24	5
average age at first calving (months)	44	43	-	43	-	41	-	41	-

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table : (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Kerala

age group (in completed years)	rural				urban			
	cow		buffalo		cow		buffalo	
	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. up to 3	18	-	-	-	10	-	-	-
2. 4	15	11	-	-	17	-	9	-
3. 5-6	18	8	18	9	17	9	19	7
4. 7-9	21	9	22	11	22	10	22	10
5. 10-12	23	9	26	10	25	9	25	14
6. 13-15	24	9	27	10	23	10	29	4
7. 16 & above	23	9	32	15	29	-	-	-
8. all ages	22	9	24	10	22	9	23	11
av. age at first calving (months)	44	x	47	x	43	x	46	x

NATIONAL SAMPLE SURVEY, 30th ROUND : JULY 1975 - JUNE 1976

Table : (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Madhya Pradesh

age group (in completed years)	rural			urban				
	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval av. between two calvings lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval av. between two calvings lactation (months)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. up to 3	-	-	-	-	-	-	-	-
2. 4	14	7	21	7	14	10	-	-
3. 5 - 6	14	8	14	8	15	8	-	-
4. 7 - 9	21	9	21	10	20	8	15	10
5. 10 - 12	23	9	23	10	22	8	25	10
6. 13 - 15	26	9	25	10	27	7	25	11
7. 16 & above	26	9	26	11	21	8	26	13
8. all ages	23	9	23	10	22	8	32	12
av. age at first calving (months)	90	x	54	x	50	x	25	11
							49	x

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Maharashtra

age group (in completed years)	r u r a l				u r b a n				
	c o w		buffalo		c o w		buffalo		
	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
1. upto 3	-	-	-	-	-	-	-	-	-
2. 4	9	10	6	-	17	6	-	-	-
3. 5 - 6	17	9	17	10	20	8	15	11	11
4. 7 - 9	21	10	21	11	22	9	22	10	10
5. 10 - 12	17	9	41	10	22	9	22	11	11
6. 13 - 15	24	9	24	11	21	8	23	11	11
7. 16 & above	25	9	25	11	22	9	24	12	12
8. all ages	22	9	38	11	21	9	22	10	10
avr. age at first calving (months)	48	x	49	x	47	x	48	x	x

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Manipur

age group (in completed years)	rural				urban				
	cow		buffalo		cow		buffalo		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto 3	-	-	-	-	-	-	-	-	-
2. 4	12	5	11	11	-	-	-	-	-
3. 5 - 6	16	0	27	27	8	17	2	-	-
4. 7 - 9	17	1	14	14	11	18	3	31	2
5. 10 - 12	16	10	19	19	-	19	6	-	-
6. 13 - 15	21	4	-	-	-	21	9	-	-
7. 16 & above	17	4	-	-	-	20	-	-	-
8. all ages	17	2	17	17	8	19	3	31	2
average age at first calving (months)	43	43	42	42	42	44	44	48	48

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Meghalaya

age group (in completed years)	r u r a l			u r b a n				
	cow av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	cow av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	buffalo av. period of previous lactation (months)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto . 3	-	-	-	-	-	-	-	-
2. 4	-	-	-	-	15.	-	-	-
3. 5 - 6	15	8	13	8.0	19	10	-	-
4. 7 - 9	17	9	20	10	17	9	-	-
5. 10 - 12	18	8	20	8	20	9	-	-
6. 13 - 15	21	9	27	-	13	9	-	-
7. 16 & above	17	9	-	-	-	-	-	-
8. all ages	17	9	20	9	18	9	-	-
av. age at first calving (months)	46	x	56	x	45	x	-	x

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas

State : Nagaland

age group (in completed years)	r u r a l			u r b a n				
	c o w		buffalo	c o w		buffalo		
	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto 3	-	-	-	-	-	-	-	-
2. 4	-	-	-	-	12	-	-	-
3. 5 - 6	-	-	-	-	15	6	-	-
4. 7 - 9	-	-	-	-	20	6	-	-
5. 10 - 12	-	-	-	-	17	8	-	-
6. 13 - 15	-	-	-	-	-	-	-	-
7. 16 & above	-	-	-	-	-	-	-	-
8. all ages	-	-	-	-	17	7	-	-
av. age at first calving (months)	-	x	-	x	41	x	-	x



NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table ( 4 ) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Orissa

age group (in completed years)	r u r a l				u r b a n			
	c o w		buffalo		c o w		buffalo	
	average interval between two calvings (months)	average period of lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto 3	-	-	-	-	21	-	-	-
2. 4	13	5	-	-	16	-	-	-
3. 5 - 6	18	9	24	6	18	9	24	6
4. 7 - 9	22	10	23	10	20	8	22	10
5. 10 - 12	22	10	20	11	21	7	21	13
6. 13 - 15	24	10	26	12	24	9	25	10
7. 16&above	27	9	23	-	23	8	40	-
8. all ages	22	10	23	10	21	8	23	10
average age at first calving ( months )	47	*	49	*	44	*	41	*

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Punjab

age group (in years)	rural		urban		buffalo		cow		buffalo	
	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)
1. upto 3	(2) -	(3) -	(4) 15	(5) 8	(6) -	(7) -	(8) -	(9) -	(8) -	(9) -
2. 4	7	3	9	11	12	-	9	-	-	-
3. 5 - 6	17	9	16	10	18	10	17	9	17	9
4. 7 - 9	18	9	18	11	18	8	17	10	17	10
5. 10 - 12	18	10	14	11	16	10	17	9	17	9
6. 13 - 15	17	9	17	11	17	7	16	5	16	5
7. 16 & above	19	10	18	12	11	12	19	12	19	12
8. all ages	18	9	17	11	16	9	17	10	17	10
9. av. age at first calving (month)	46	x	47	x	43	x	47	x	47	x

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Rajasthan

age group (in completed years)	r u r a l				u r b a n			
	c o w		buffalo		c o w		buffalo	
	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto 3	-	8	11	10	-	-	-	-
2. 4	10	8	-	11	9	-	12	10
3. 5 - 6	16	9	16	10	17	8	18	11
4. 7 - 9	21	9	20	11	19	9	19	10
5. 10 - 12	22	9	21	11	20	10	20	10
6. 13 - 15	24	10	22	11	19	10	22	10
7. 16 & above	24	8	24	11	19	11	26	8
8. all ages	21	9	21	11	19	9	20	10
average at first calving (months)	49		52		48		52	

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NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Tamil Nadu

age group (in completed years)	r u r a l				u r b a n			
	c o w		buffalo		c o w		buffalo	
	average interval between two calvings (months)	average period of lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto - 3	-	-	-	-	22	-	-	-
2. 4	13	7	17	9	26	9	11	-
3. 5 - 6	20	8	18	9	19	9	22	-
4. 7 - 9	24	8	23	10	24	10	23	9
5. 10 - 12	27	10	25	11	25	10	28	10
6. 13 - 15	28	11	31	11	27	10	28	10
7. 16 above	31	8	23	10	27	6	16	9
8. all ages	25	9	23	10	24	9	25	11
average at first calving (months)	44		43		42		41	10

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table : (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Tripura

age group (in completed years)	rural		urban					
	cow	buffalo	cow	buffalo				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)
1. up to 3	-	-	-	-	-	-	-	-
2. 4	15	-	-	-	-	-	-	-
3. 5-6	14	9	29	15	21	10	-	-
4. 7-9	19	9	18	5	25	8	30	-
5. 10-12	21	10	14	12	25	10	-	-
6. 13-15	24	8	24	3	28	-	-	-
7. 16 & above	24	7	-	-	27	9	-	-
8. all ages	21	9	18	8	24	9	30	7
av. age at first calving (months)	47	x	62	x	41	x	42	x

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Uttar Pradesh

age group (in completed years)	rural						urban		
	cow			buffalo			buffalo		
	av. interval between two calvings (months)	av. period of previ- ous lacta- tion (months)	av. interval between two of previ- ous lacta- tion (months)	av. interval between two of previ- ous lacta- tion (months)	av. period of previ- ous lacta- tion (months)	av. interval between two of previ- ous lacta- tion (months)	av. period of previ- ous lacta- tion (months)	av. interval between two of previ- ous lacta- tion (months)	av. period of previ- ous lacta- tion (months)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
1. upto 3	-	-	-	-	-	-	-	-	-
2. 4	-	-	-	13	-	15	-	-	-
3. 5 - 6	16	8	9	23	9	17	-	-	-
4. 7 - 9	18	9	9	21	9	15	7	16	7
5. 10 - 12	22	9	9	21	10	21	8	21	9
6. 13 - 15	24	9	9	21	10	21	4	21	9
7. 16 & above	25	10	10	23	10	23	8	19	9
8. all ages	20	9	9	21	9	23	8	20	9
av. age at first calving (months)	47	x	x	46	x	44	x	44	x

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NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : West Bengal

age group (in completed years)	r u r a l				u r b a n				
	c o w		buffalo		c o w		buffalo		
	average interval between two lactations (months)	average interval between two calvings (months)	average period of previous lactation (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	average interval between two calvings (months)	average period of previous lactation (months)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
1. upto 3	-	-	-	-	-	-	-	-	-
2. 4	12	4	-	-	-	-	-	-	-
3. 5 - 6	20	9	11	11	13	8	17	8	-
4. 7 - 9	22	9	11	11	21	9	22	10	-
5. 10 - 12	24	9	11	11	23	8	21	10	-
6. 13 - 15	24	10	8	25	20	10	23	9	-
7. 16 & above	27	9	-	15	24	12	23	13	-
8. all ages	23	9	10	23	21	9	22	10	-
average at first calving (months) 50	x	x	x	56	49	x	62	x	x

NATIONAL SALES SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas

State : Chandigarh

age group (in completed years)	Rural		Urban	
	buffalo		buffalo	
	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)
1. upto 3	(2)	(3)	(4)	(5)
2. 4	-	-	-	-
3. 5 - 6	-	-	-	-
4. 7 - 9	-	-	-	-
5. 10 - 12	-	-	-	-
6. 13 - 15	-	-	-	-
7. 16 & above	-	-	-	-
8. all ages	-	-	-	-
av. age at first calving (months)	-	x	-	x
			12	12
			x	x
			42	x

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NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table : (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Delhi

age group (in completed years)	rural			urban				
	cow av. interval between two calvings (months)	buffalo av. interval between two calvings (months)	av. period of previous lactation (months)	cow av. interval between two calvings (months)	buffalo av. interval between two calvings (months)	av. period of previous lactation (months)		
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto 3	-	-	-	-	-	-	-	-
2. 4	-	-	9	-	10	-	9	-
3. 5 - 6	15	-	15	11	14	8	19	8
4. 7 - 9	12	28	18	9	18	11	19	10
5. 10 - 12	23	3	22	12	19	7	19	7
6. 13 - 15	5+	12	10	8	18	6	17	-
7. 16 & above	-	-	-	-	-	-	-	-
8. all ages	21	14	17	10	17	7	19	9
av. age at first calving (months)	44	x	46	x	42	x	41	x

NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : Goa, Daman & Diu

age group (in completed years)	r u r a l			u r b a n				
	cow			buffalo				
	av. interval between two calvings (months)	av. period of previ- ous lacta- tion (months)	av. interval between two calvings (months)	av. interval between two calvings (months)	av. period of previ- ous lacta- tion (months)	av. interval between two calvings (months)	av. period of previ- ous lacta- tion (months)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto 3	-	-	-	-	-	-	-	-
2. 4	-	-	-	-	-	-	-	-
3. 5 - 6	-	-	24	-	-	-	28	-
4. 7 - 9	22	8	28	10	29	7	28	12
5. 10 - 12	24	9	20	11	24	12	24	12
6. 13 - 15	22	7	27	-	21	-	-	-
7. 16 & above	20	8	22	10	23	-	-	9
8. all ages	23	8	23	10	23	7	26	x
av. age at first calving (months)	68	x	65	67	65	x	65	x

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NATIONAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas

State : Pondicherry

age group (in completed years)	r u r a l			u r b a n				
	c o w		b u f f a l o	c o w		b u f f a l o		
	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. period of previous lactation (months)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto 3	-	-	-	-	-	-	-	-
2. 4	-	-	-	-	-	-	-	-
3. 5 - 6	21	8	-	-	20	12	12	12
4. 7 - 9	22	8	27	12	32	8	32	13
5. 10 - 12	27	7	31	11	26	9	27	8
6. 13 - 15	21	8	-	-	28	10	29	-
7. 16 & above	13	10	-	-	-	-	-	-
8. all ages	24	8	29	12	29	9	28	11
av. age at first calving (months)	49	x	40	x	43	x	43	x

MATERIAL SAMPLE SURVEY, 30TH ROUND : JULY 1975 - JUNE 1976

Table (4) : Average interval between two calvings and average period of previous lactation in different age groups and average age at first calving for cows and buffaloes in rural and urban areas.

State : All-India

Age group (in completed years)	Rural		Urban		Cows		Buffalo	
	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)	av. interval between two calvings (months)	av. period of previous lactation (months)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. upto 3	13	8	12	9	16	-	-	-
2. 4	12	6	13	6	17	7	13	10
3. 5 - 6	17	8	18	8	18	7	18	8
4. 7 - 9	22	9	20	9	21	8	21	9
5. 10 - 12	23	9	21	10	22	8	21	9
6. 13 - 15	24	9	22	10	23	8	22	10
7. 16 & above	25	9	23	11	23	9	24	10
8. all ages	23	9	21	10	21	8	21	9
av. age at first calving (months)	48	x	47	x	46	x	46	x

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APPENDIX - III

FACSIMILE OF SCHEDULE OF INVESTIGATION