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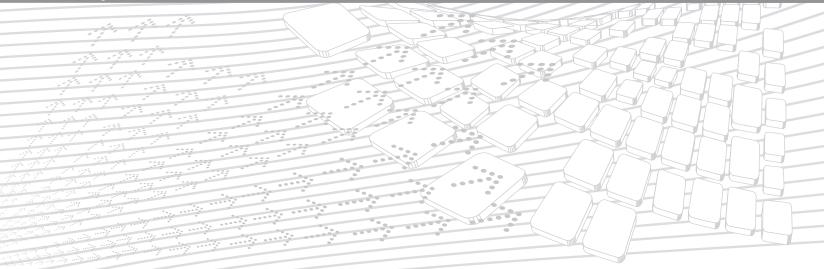
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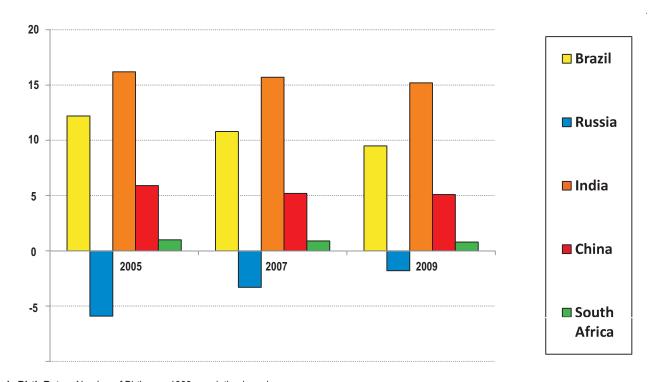
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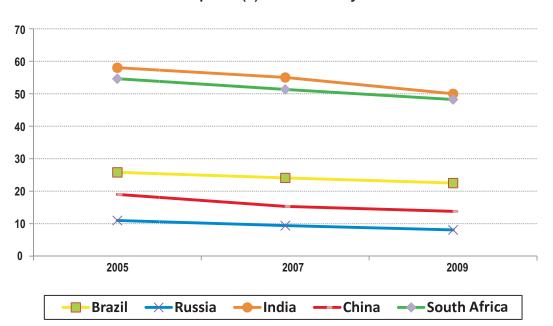
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Graph 3.2 (a) Natural Increase Rate of Population

**Crude Birth Rate :** Number of Births per 1000 population in a given year. **Crude Death Rate :** Number of Deaths per 1000 population in a given year. Natural Increase Rate of Population = Crude Birth Rate- Crude Death rate



Graph 3.2 (b) Infant Mortality Rate

**Table 3.1-Summary of Population** 

million person

												million person
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Total Population	(Mid-Year)											
Brazil	170(2)	172	175	177	179	181	184	185	187	189	191(3)	192
Russia	147	146	146	145	144	143	143	142	142	142	142	142.87
India <sub>(4)(5)</sub>		1 035	1 051	1 068	1 085	1 101	1 118	1 134	1 150	1 166	1 182	1210(5)
China <sub>(6)</sub>	1263	1 272	1280	1 288	1296	1304	1311	1318	1325	1331	1338	1344
South Africa	44	45	46	46	47	47	48	48	49	49	50	
Male												
Brazil	84(2)	85	86	87	88	89	90	91	92	93	93(3)	94
Russia	69	68	68	67	67	67	66	66	66	66	66	
India <sub>(4)(5)</sub>		535	544	553	561	570	578	587	595	604	612	624
China <sub>(6)(7)</sub>	654	657	661	666	670	674	677	680	684	686	687	691
South Africa	21	22	22	22	23	23	23	23	24	24	24	
Female												
Brazil	86(2)	87	89	90	91	92	93	94	95	96	97(3)	98
Russia	78	78	78	77	77	77	77	76	76	76	76	
India <sub>(4)(5)</sub>		500	507	515	523	531	539	547	555	563	570	586
China <sub>(6)(7)</sub>	613	620	623	627	630	634	637	641	644	648	653	657
South Africa	23	23	24	24	24	24	25	25	25	25	26	
Urban												
Population												
Brazil <sub>(1)</sub>	138(2)	144	147	149	149	150	153	155	157	159	161(3)	163
Russia	107	107	107	106	106	105	104	104	104	104	104	105.42
India <sub>(4)(5)</sub>		289	295	302	310	317	324	331	338	346	353	377
China <sub>(6)(7)</sub>	459	481	502	524	543	562	583	606	624	645	670	691
South Africa (9)								29				
Rural												
Population												
Brazil <sub>(1)</sub>	32(2)	28	28	28	31	31	31	31	30	30	30(3)	30
Russia	39	39	39	39	38	39	39	38	38	38	38	37.44
India <sub>(4)(5)</sub>		746	756	766	775	785	794	803	812	821	829	833
China <sub>(6)(7)</sub>	808	796	782	769	757	745	732	715	704	689	671	657
South Africa								19				

# Sources:

Brazil: Brazilian Institute of Geography and Statistics, 2000 and 2010 Brazilian Demographic Censuses

Russia: Federal State Statistics Service of the Russian Federation.

India: Ministry of Home Affairs, Office of the Registrar General of India. Information from 2002 to 2010 is based on Population Projections. China: National Bureau of Statistics of China, China Statistical Year book, 2005-2011, Statistical Communique of the People's Republic of China on the 2011 National Economic and Social Development.

South Africa: Statistics South Africa.

#### Footnotes:

#### Brazil

- (1) Data derived from Adjusted Population Projection of Brazil by Sex and Age for the Period 1980-2050 Review 2008, using the structures of the National Household Sample Survey for the period 2001-2009. In the years 2001, 2002 and 2003 the rural area in the North Region of Brazil were not surveyed. For the years 2000 and 2010 the urban-rural structures were given by the own Censuses.
- (2) 2000 Brazilian Demographic Census. Resident population on August 1st.
- (3) 2010 Brazilian Demographic Census. Resident population on August 1st. Results released on November 29th, 2010. For the years 2001 to 2009 it was fitted a logistic function to the corresponding ratios between enumerated in 2000 and 2010 censuses and projected populations to the same years.

## India

- (4) Mid-Year Population means as on 1st July. Information from 2002 to 2010 is based on Population Projections
- 5) As on 1st March. based on Census 2011

## China

- (6) Data in 2005 are estimated from the National 1% Population Sample Survey. Data in 2010 are estimated from the Sixth National Population Census. Data in 2006-2009 are from the annual national sample surveys on population changes which have been revised according to the census results. Data in 2011 are estimated from the annual national sample surveys on population changes.
- (7) Breakdowns do not add up to totals for selected years due to rounding up or down of dimensions in the tolerance stack.
- (8) Data by sex, urban and rural areas, and population aged 60 and over are the year-end population.

#### South Africa

(9) Community survey 2007.

Table 3.2.1-Selected Data on Population-Brazil

	Unit	200	2004	2005	2006	2007	2008	2009	2010 (b)	2011 <sub>(b)</sub>
Total Population (Mid-Year) <sub>(1)</sub>	million persons	169.8	179.3	181.4	183.5	185.5	187.3	189.1	190.7	192.0
Population Aged Under 15	million persons	50.3	50.2	50.8	49.6	50.1	48.7	49.2	46.0	48.0
Population Aged 15-24	million persons	34.1	34.1	34.5	34.9	33.4	33.7	34.0	34.2	32.9
Population Aged 25-59	million persons	70.9	78.9	79.8	82.6	83.5	86.2	87.0	89.9	91.4
Population Aged 60 and Over	million persons	14.5	16.1	16.3	16.5	18.6	18.7	18.9	20.6	19.7
Sex Ratio <sub>(1)</sub>	female = 100	96.9	96.7	96.7	96.6	96.5	96.4	96.4	95.9	96.2
Population Aged Under 15	female = 100	103.0	102.8	102.9	102.9	102.9	102.9	102.9	103.6	102.9
Population Aged 15-24	female= 100	100.3	101.3	101.4	101.4	101.3	101.5	101.5	100.8	101.6
Population Aged 25-59	female= 100	94.6	94.4	94.4	94.4	94.5	94.6	94.6	94.3	94.8
Population Aged 60 and Over	female = 100	81.7	81.4	81.0	80.7	80.4	80.2	79.9	80.1	79.4
Crude Birth Rate of Population (1)	per 1000 persons	21.1	19.1	18.5	17.8	17.1	16.4	15.8	15.2	14.7
Crude Death Rate of Population <sub>(1)</sub>	per 1000 persons	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Natural Increase Rate of Population (1)	per 1000 persons	14.8	12.8	12.2	11.5	10.8	10.1	9.5	8.9	8.4
Life Expectancy at Birth (1)	years	70.4	71.6	71.9	72.2	72.5	72.8	73.1	73.4	73.7
Total Fertility Rates	per woman	2.4	2.1	2.1	2.0	1.9	1.9	1.8	1.8	1.7
Infant Mortality Rate (1)	per 1000 persons	30.1	26.6	25.8	25.0	24.1	23.3	22.5	21.6	21.0
Crude Marriage Rate (2)	per 1000 persons	6.1	6.2	6.3	6.6	6.6	6.8	6.6		
Crude Divorce Rate (2)	per 1000 persons	1.2	1.1	1.3	1.4	1.4	1.5	1.4		

#### Source:

- (a) Brazilian Institute of Geography and Statistics
- (b) 2000 and 2010 Brazilian Demographic Censuses
- (c) Adjusted Population Projection of Brazil by Sex and Age for the Period 1980-2050 Review 2008
- (d) Civil Registration Statistics 2000-2009.

# Footnotes:

- (1) Data on population and sex ratios for the period 2001-2009 and 2011 were derived from Adjusted Population Projection of Brazil by Sex and Age for the Period 1980-2050 Review 2008.
- (2) Data derived from Civil Registration Statistics for the period 2000-2010.
- (3) Data on population and sex ratios derived from 2000 Brazilian Demographic Census. Resident population on August 1st.
- (4) Data on population and sex ratios derived from 2010 Brazilian Demographic Census. Resident population on August 1<sup>st</sup>. Results released on November 29<sup>th</sup>, 2010.

Table 3.2.2- Selected Data on Population-Russia

	Unit	2000	2004	2005	2006	2007	2008	2009	2010	2011
Total Population	million persons	146.9	144.2	143.5	142.8	142.2	142.0	141.9	141.9	142.9
Population Aged Under 15	million persons	27.1	22.6	21.9	21.2	20.9	20.8	21.1	21.4	
Population Aged 15-24	million persons	23.1	24.5	24.5	24.2	23.8	23.0	21.8	20.8	
Population Aged 25-59	million persons	69.9	71.4	72.2	73.0	73.3	73.7	74.3	74.6	
Population Aged 60 and Over	million persons	26.8	25.7	24.9	24.3	24.3	24.5	24.7	25.2	
Sex Ratio	female=100	87.9	86.9	86.6	86.4	86.2	86.1	86.1	86.1	
Population Aged Under 15	female=100	104.4	104.8	104.8	104.9	104.9	105.0	105.1	105.1	
Population Aged 15-24	female=100	102.7	102.8	102.8	102.9	103.1	103.2	103.2	103.4	
Population Aged 25-59	female=100	94.0	92.3	91.7	91.2	91.0	91.0	91.0	91.2	
Population Aged 60 and Over	female=100	53.1	52	51.3	50.8	50.8	51	51.1	51.5	
Crude Birth Rate of Population <sub>(1)</sub>	per 1000 persons	8.7	10.4	10.2	10.4	11.3	12.1	12.4	12.5	12.6
Death Rate of Population <sub>(1)</sub>	per 1000 persons	15.3	16	16.1	15.2	14.6	14.6	14.2	14.2	13.5
Natural Increase Rate of Population <sub>(1)</sub>	per 1000 persons	-6.6	-5.6	-5.9	-4.8	-3.3	-2.5	-1.8	-1.7	-0.90
Life Expectancy at Birth <sub>(1)</sub>	years	65.3	65.27	65.3	66.6	67.51	67.88	68.67	68.83	70.32
Total Fertility Rate <sub>(1)</sub>	per woman	1.2	1.34	1.287	1.296	1.4	1.5	1.5	1.57	1.61
Infant Mortality Rate <sub>(1)</sub>	per 1000 live birth	15.3	11.6	11	10.2	9.4	8.5	8.1	7.50	7.30
Maternal Mortality Rate	per1000 live birth	0.4	0.23	0.25	0.24	0.22	0.21	0.22	0.17	
Crude Marriage Rate <sub>(1)</sub>	per 1000 persons	6.2	6.80	7.50	7.80	8.90	8.30	8.50	8.50	9.2
Crude Divorce Rate <sub>(1)</sub>	per1000 persons	4.3	4.4	4.2	4.5	4.8	5	4.9	4.5	4.70
Rate of Net Migration (1)	%	0.3	0.07	0.09	0.11	0.18	0.18	0.18	0.13	0.22
Dependency ratio		0.58	0.5	0.48	0.47	0.47	0.47	0.48	0.49	

## Source:

Federal State Statistics Service of the Russian Federation.

## Footnotes:

Records filled in civil registar's offices.

- (1) The estimations with account to the 2010 all-Russian population census results. Data for 2003-2010 will be revised due regard to the results of all-Russian population census 2010 in 2012.
- (2) All data for 2011 except the total population is provisional.

Table 3.2.3- Selected Data on Population-India

		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2011(2)
Population by age( as on March 1s	<sup>t</sup> )											
All Ages	million		1 028.	6				1 112.	.2			1210
0-4	million		121.4					115.2				158.8(4)
5-9	million		123.3					119.3				1051.2(5)
10-14	million		119.9					122.5				
15-19	million		104.0					119.1				
20-24	million		91.0					103.0				
25-29	million		82.9					90.0				
30-34	million		75.8					81.9				
35-39	million		68.0					74.7				
40-44	million		57.5					66.7				
45-49	million		46.9					56.1				
50-54	million		37.2					45.2				
55-59	million		29.9					35.0				
60-64	million		25.7					27.4				
65-69	million		20.5					22.5				
70 and Over	million		24.5					33.6				
Crude Birth Rate	per 1000 population	25.8	25.4	25.0	24.8	24.1	23.8	23.5	23.1	22.8	22.5	
Death Rate	per 1000 population	8.5	8.4	8.1	8.0	7.5	7.6	7.5	7.4	7.4	7.3	
Natural Increase Rate of Population	per1000 population	17.3	17.0	16.9	16.8	16.6	16.2	16.0	15.7	15.4	15.2	
Life Expectancy at Birth	years	61.9(1)	62.2	62.5	62.7	62.9	63.0					
Total Fertility Rate	per woman	3.2	3.1	3.0	3.0	2.9	2.9	2.8	2.7	2.6		
Infant Mortality Rate	per 1000 population	68.0	66.0	63.0	60.0	58.0	58.0	57.0	55.0	53.0	50.0	
Maternal Mortality Ratio <sub>(3)</sub>	per 100,000 live births		301.0			254.0			212.0			

# Sources:

- a) Ministry of Home Affairs, Office of the Registrar General of India.
- b) Compendium of India's Fertility and Mortality Indicators 1971-2007.
- c) Sample Registration System Statistical Reports, 2005, 2006 & 2007.

## Footnote:

- (1) Data relate to the year 1996-2000 and for next five years.
- (2) Data is based on Census 2011 as on 1<sup>st</sup> March, 2011(Provisional)
- (3) Period 2001-03 and 2004-06 and 2007-09
- (4) Age group 0-6 years.
- (5) Age group 7 & above.

Table 3.2.4-Selected Data on Population-China

	Unit	2000	2004	2005	2006	2007	2008	2009	2010	2011
Total Population (Mid-Year) <sub>(4)</sub>	million persons	1263	1296	1304	1311	1318	1325	1331	1338	1344
Total Population (Year-end) (4)	million persons	1267	1300	1308	1314	1321	1328	1334	1341	1347
Population Aged Under 15 <sub>(2)</sub>	million persons	290	279	265	260	257	252	247	223	222
Population Aged 15-59 <sub>(2)</sub>	million persons			898	906	911	916	921	940	941
Population Aged 60 and $Over_{(2)(3)}$	million persons			144	149	153	159	167	177	185
Population Aged 15-64 <sub>(2)</sub>	million persons	889	922	942	951	958	967	975	999	1003
Population Aged 65 and Over <sub>(2)</sub>	million persons	88	99	101	104	106	110	113	119	123
Sex Ratio	female=100	106.7	106.3	106.3	106.3	106.2	106.1	105.9	105.2	105.2
Crude Birth Rate of Population	per 1000 persons	14.0	12.3	12.4	12.1	12.1	12.1	12	11.9	11.9
Death Rate of Population	per 1000 persons	6.5	6.4	6.5	6.8	6.9	7.1	7.1	7.1	7.1
Natural Increase Rate of Population	per 1000 persons	7.6	5.9	5.9	5.3	5.2	5.1	4.9	4.8	4.8
Life Expectancy at Birth	years	71.4		73.0						
Infant Mortality Rate	per 1000 persons	32.2	21.5	19.0	17.2	15.3	14.9	13.8	13.1	
Crude Marriage Rate	per 1000 persons	6.7	6.7	6.3	7.2	7.5	8.3	9.1	9.3	9.3
Crude Divorce Rate <sub>(1)</sub>	per 1000 persons	1.0	1.3	1.4	1.5	1.6	1.7	1.9	2.0	
Maternal Mortality Rate	per 100000 persons	61.9	63.0	47.7	41.1	36.6	34.2	31.9	30.0	

#### Sources:

- a) National Bureau of Statistics of China, China Statistical Yearbook ,2005-2011, Statistical Communique of the People's Republic of China on the 2011 National Economic and Social Development.
- b) Ministry of Civil Affairs of the People's Republic of China, Annual Statistical Report, 2005-2011.
- c) Ministry of Health of the People's Republic of China, Annual Statistical Report, 2005-2010.

## Footnotes:

# China

- (1) The data of 2011 are preliminary data.
- (2) Breakdowns do not add up to totals for selected years due to rounding up or down of dimensions in the tolerance stack.
- (3) The population aged 60 and over are estimated based on the population proportion of the reference time on November 1st, 2005 and had not been directly derived.
- (4) Data in 2005 are estimated from the National 1% Population Sample Survey. Data in 2010 are estimated from the Sixth National Population Census.

  Data in 2006-2009 are from the annual national sample surveys on population changes which have been revised according to the census results.

  Data in 2011 are estimated from the annual national sample survey on population changes.

Table 3.2.5- Selected Data on Population-South Africa

	Unit	2000	2004	2005	2006	2007	2008	2009	2010
Total Population (Mid-Year)	million persons	44.4	46.7	47.3	47.9	48.4	48.9	49.5	50.0
Population Aged Under 15	million persons	15.6	15.7	15.7	15.7	15.7	15.6	15.6	15.5
Population Aged 15-24	million persons	9.0	9.5	9.6	9.7	9.9	10	10.1	10.2
Population Aged 25-59	million persons	17.0	18.4	18.7	19.1	19.4	19.8	20.1	20.4
Population Aged 60 and Over	million persons	2.7	3.1	3.2	3.3	3.5	3.6	3.7	3.8
Sex Ratio	female=100	92.4	93.4	93.6	93.9	94.1	94.3	94.6	94.8
Population Aged Under 15	female=100	101.4	101.5	101.5	101.5	101.5	101.4	101.4	101.4
Population Aged 15-24	female=100	92.1	95.8	96.6	97.6	98.5	99.4	100.2	101.1
Population Aged 25-59	female=100	88.6	89.5	89.8	90.1	90.4	90.7	91	91.4
Population Aged 60 and Over	female=100	71.4	72.5	72.7	72.9	73.1	73.3	73.5	73.7
Crude Birth Rate of Population	per 1000 persons		24.2	23.7	23.3	22.8	22.3	21.8	21.3
Death Rate of Population	per 1000 persons		13.8	14.1	14.2	14.1	13.7	13.6	13.9
Natural Increase Rate of Population	per 1000 persons		1.0	1.0	0.9	0.9	0.9	0.8	0.7
Life Expectancy at Birth	year		51.6	51.5	51.8	52.5	53.5	54.3	54.3
Total Fertility Rate	per woman		2.7	2.6	2.6	2.5	2.5	2.4	2.4
Infant Mortality Rate	per 1000 persons		55.4	54.6	52.4	51.3	49.3	48.2	46.9
Crude Marriage Rate	per 1000 persons	3.3	3.8	3.9	3.9	3.8	3.8	3.5	
Crude Divorce Rate	per 1000 persons	0.8	0.7	0.7	0.7	0.6	0.6	0.6	

# Source:

Statistics South Africa, Various household surveys.

## **Explanatory Notes:**

#### **General Notes**

- 1. Crude Birth Rate: Number of Births per 1000 population in a given year. This definition excludes foetal deaths
- 2. Crude Death Rate: Number of Deaths per 1000 population in a given year
- 3. Natural Increase in Population = Crude Birth Rate -Crude Death Rate
- 4. Total Fertility Rate (TFR): Average number of children that would be born to a woman if she experiences the current fertility pattern throughout her reproductive span (15-49 years).
- 5. Expectation of live at birth :Average number of years' a new born child is expected to live under current mortality conditions
- 6 Infant Mortality Rate(IMR):Number of infants dying under one year of age in a year per 1000 live births of the same year
- 7. Crude Divorce Rate refers to ratio of divorced couples to the annual average population for the reference year, the formula is:

- 8. Dependency rate number of people aged 0-15 and 60 and over to the total population aged 15-59.
- 9. Census: A canvass of a given area, resulting in an enumeration of the entire population and often the compilation of other demographic, social and economic information pertaining to that population at a specific time.

Russia The estimation of population size with account to the 2010 all-Russian population census results. Data for 2003-2010 will be revised due regard to the results of all-Russian population census 2010 in 2012.