

## Chapter 3

### **PATTERN OF AGE SPECIFIC DEATH RATES, 1992-98**

As outlined in the analytical framework, based on results obtained under the study, the age specific death rates along with their sampling errors have been derived from the two rounds of NFHS and are compared with that from the combined estimates i. e. the over-all mean for the two occasions, to assess the emerging mortality pattern even at sub-national level. Tables 3.1-3.3 show the crude death rates (CDRs) and age-specific death rates (ASDRs) by sex and residence along with their corresponding standard error (SE), for the usual resident (dejure) population of India from NFHS-1 (1992-93) and NFHS-2 (1998-99). The NFHS-1 and NFHS-2 death rates are based on the average annual number of deaths occurring to usual residents of the household during the two-year period preceding the survey, approximately referring to the period 1991-92 and 1997-98 respectively. The denominators for the NFHS-1 and NFHS-2 death rates are obtained by projecting the number of usual residents at the time of survey backwards to the midpoint of the time period on the basis of the intercensal population growth rate in the country. The intercensal growth rate is, however, assumed to be the same for all age and sex groups. Tables 3.1-3.3 also show the combined estimates, derived from NFHS-1 and NFHS-2 data, by sex and residence along with their corresponding standard error (Refer Figures 3.1-3.4 for comparison of the trend in ASDRs based on NFHS-1 and NFHS-2 and combined data by sex and residence).

#### **ASDRs at All-India Level**

Table 3.1 shows an estimated annual CDR for all-India of about 9.6 and 9.7 deaths per 1000 population during 1991-92 (NFHS-1) and 1997-98

**Table 3.1: Age Specific Death Rates (ASDRs) from NFHS-1 and NFHS-2 and their Combined Estimate by Sex along with their Corresponding Standard Errors (SEs), All India, 1992-98**

Age Interval	NFHS-1 (1991-92) <sup>1</sup>			NFHS-2 (1997-98) <sup>1</sup>			Combined (1992-98)	
	ASDR	SE	n <sub>1</sub>	ASDR	SE	n <sub>2</sub>	ASDR	SE
<b>Person</b>								
< 1	82.532	2.734	13916	63.195	2.248	12022	72.864	1.770
1-4	6.415	0.365	46591	7.017	0.354	44657	6.716	0.254
5-9	2.310	0.172	64676	2.017	0.156	61910	2.164	0.116
10-14	1.662	0.162	59666	1.240	0.127	59124	1.451	0.103
15-19	2.477	0.221	51003	2.139	0.168	52611	2.308	0.139
20-24	2.616	0.213	46254	3.225	0.226	45518	2.921	0.155
25-29	2.576	0.234	41432	3.076	0.244	42046	2.826	0.169
30-34	2.888	0.263	33002	3.387	0.259	34670	3.138	0.185
35-39	3.490	0.348	30299	3.684	0.289	32984	3.587	0.226
40-44	4.394	0.401	23125	4.947	0.408	25025	4.671	0.286
45-49	6.008	0.510	20454	7.666	0.525	21763	6.837	0.366
50-54	10.026	0.725	15769	13.001	0.800	16640	11.514	0.540
55-59	12.142	0.839	15151	13.763	0.843	14923	12.953	0.595
60-64	22.871	1.193	14853	27.309	1.272	15207	25.090	0.872
65-69	30.925	1.693	9538	34.041	1.665	10355	32.483	1.187
70+	98.905	2.688	16612	108.263	2.705	17919	103.584	1.907
<b>Total<sup>2</sup></b>	<b>9.577</b>	<b>0.148</b>	<b>502341</b>	<b>9.699</b>	<b>0.133</b>	<b>507374</b>	<b>9.638</b>	<b>0.099</b>
<b>Male</b>								
< 1	87.335	3.745	7151	67.229	3.278	6269	77.282	2.488
1-4	5.163	0.435	24068	5.677	0.429	23094	5.420	0.305
5-9	2.158	0.237	33665	1.862	0.211	32254	2.010	0.159
10-14	1.623	0.217	31120	1.130	0.162	30523	1.377	0.135
15-19	1.956	0.276	26199	1.776	0.211	27121	1.866	0.174
20-24	2.548	0.288	22474	2.696	0.296	22366	2.622	0.206
25-29	2.279	0.309	20534	2.931	0.341	20481	2.605	0.230
30-34	2.566	0.343	16618	4.183	0.412	17363	3.375	0.268
35-39	3.974	0.492	16028	3.885	0.403	17229	3.930	0.318
40-44	5.116	0.573	12174	6.119	0.616	13462	5.618	0.421
45-49	7.522	0.775	10663	8.941	0.787	11670	8.232	0.552
50-54	10.554	1.004	8698	14.562	1.177	8960	12.558	0.774
55-59	14.739	1.307	7111	16.826	1.379	6893	15.783	0.950
60-64	26.383	1.804	7654	28.771	1.771	7793	27.577	1.264
65-69	33.354	2.422	5112	39.264	2.534	5436	36.309	1.753
70+	95.100	3.371	9058	103.737	3.431	9809	99.419	2.405
<b>Total<sup>2</sup></b>	<b>9.872</b>	<b>0.199</b>	<b>258327</b>	<b>10.085</b>	<b>0.178</b>	<b>260723</b>	<b>9.979</b>	<b>0.133</b>
<b>Female</b>								
< 1	77.591	3.756	6765	58.912	3.128	5753	68.252	2.444
1-4	7.747	0.590	22523	8.430	0.563	21563	8.089	0.408
5-9	2.475	0.253	31011	2.186	0.225	29656	2.331	0.169
10-14	1.706	0.236	28546	1.359	0.201	28601	1.533	0.155
15-19	3.023	0.351	24804	2.526	0.265	25490	2.775	0.220
20-24	2.682	0.304	23780	3.734	0.358	23152	3.208	0.235
25-29	2.871	0.327	20898	3.214	0.336	21565	3.043	0.234
30-34	3.220	0.404	16384	2.596	0.324	17307	2.908	0.259
35-39	2.944	0.456	14271	3.463	0.394	15755	3.204	0.301
40-44	3.568	0.545	10951	3.615	0.488	11563	3.592	0.366
45-49	4.344	0.602	9791	6.216	0.675	10093	5.280	0.452
50-54	9.400	1.073	7071	11.179	1.062	7680	10.290	0.755
55-59	9.967	1.120	8040	11.147	1.058	8030	10.557	0.770
60-64	19.181	1.542	7199	25.826	1.688	7414	22.504	1.143
65-69	28.069	2.381	4426	28.530	2.135	4919	28.300	1.599
70+	103.558	4.198	7554	113.887	4.149	8110	108.723	2.951
<b>Total<sup>2</sup></b>	<b>9.263</b>	<b>0.206</b>	<b>244014</b>	<b>9.291</b>	<b>0.185</b>	<b>246651</b>	<b>9.277</b>	<b>0.138</b>

<sup>1</sup> Reference period for ASDRs

<sup>2</sup> Crude Death Rate (CDR)

(NFHS-2) respectively. These estimates, which are quite close to estimates provided in the respective reports of NFHS-1 and NFHS-2, indicate once again that CDR remained almost same (9.6) during this period (1992-98). In view of the relatively larger sampling error in the ASDRs in NFHS-1 and NFHS-2 estimates, the rates are not very stable even at the all-India level, although the sample size and the estimated SEs are more or less same in the two sets of data (Table 3.1 and Figure 3.1). Overall, the comparison suggests that ASDRs are lower in NFHS-2 than in NFHS-1 for each of the younger age groups (<20 years), particularly for females while the reverse trend is for age group 20-24 and above. As a result, over-all mortality level remained almost same between NFHS-1 and NFHS-2. The effect of large sampling errors in the estimates of ASDRs is also seen when they are compared by sex in the NFHS-1 and NFHS-2 data. In NFHS-1 and NFHS-2 in India, ASDRs for males and females do not indicate a clear trend by sex, although the overall pattern reflects that rates for males exceed those for females during infancy, but the rates for females exceed those of males at ages 1-29 years. However, the trend reverses after that and male death rates exceed female death rates at ages 30 years and above. This trend is clearly evident in the combined estimates of NFHS-1 and NFHS-2 (Figure 3.4), where sampling errors in all the age groups have substantially reduced compared to that in NFHS-1 or NFHS-2. In fact, this trend of ASDRs by sex matches well with the pattern observed in the recent SRS data, which indicate that male death rates exceed female death rates at ages 30 years and above, while female death rates exceed male death rates at ages below 30 years, except at age less than one year where rates for males exceed those of females (SRS, 1997). The pattern observed in the NFHS as well as in the SRS data is rather unlike other countries, where male death rates are higher than female death rates at nearly all ages. South Asian countries like India appear to be an exception in this regard, with higher death rates for females particularly at ages 1-4 years, probably indicative of neglect of girls.

### **ASDRs by Residence**

Tables 3.2 and 3.3 present annual CDRs and ASDRs for urban and rural areas of India by sex based on NFHS-1 (1991-92) and NFHS-2 (1997-98) as well as based on their combined estimate (1992-98). In view of the relatively larger sampling error in the CDRs and ASDRs in NFHS-1 and NFHS-2, estimates for the subgroups of the population (by residence and sex), the rates of NFHS-1 and NFHS-2 do not indicate a very clear trend (Figures 3.2 and 3.3) and in fact, overall mortality level (CDRs) for rural and urban areas has shown a tendency to rise despite substantial decline in infant & child mortality between NFHS-1 and NFHS-2, although as expected CDR is relatively much lower in urban areas than in rural areas during NFHS-1 and NFHS-2. Based on combined estimates of NFHS-1 and NFHS-2, annual CDR for rural and urban areas of India was found to be about 10.3 and 7.7 deaths per 1000 population during 1992-98 respectively. Thus the urban CDR is about 25 percent lower than rural CDR. The trend of mortality in the rural and urban areas by age and sex is relatively more stable in the combined estimates of NFHS-1 and NFHS-2 (Figures 3.2 to 3.4), where SEs in all age and sex groups have substantially reduced compared to that in NFHS-1 or NFHS-2. In fact, this trend of ASDRs by sex for both rural and urban areas is almost same and matches well with the pattern observed at the overall national level (Figure 3.4). It is however, important to note that the level of infant and child mortality is still very high and is much higher in rural areas than in urban areas. The excess female mortality at younger ages particularly at ages 1-4 years in the rural areas of India is a great cause for concern.

It is thus evident from Tables 3.1-3.3 that standard errors of the combined estimate of the ASDRs, derived from two rounds of NFHS have reduced substantially than that of NFHS-1 or NFHS-2 and provide

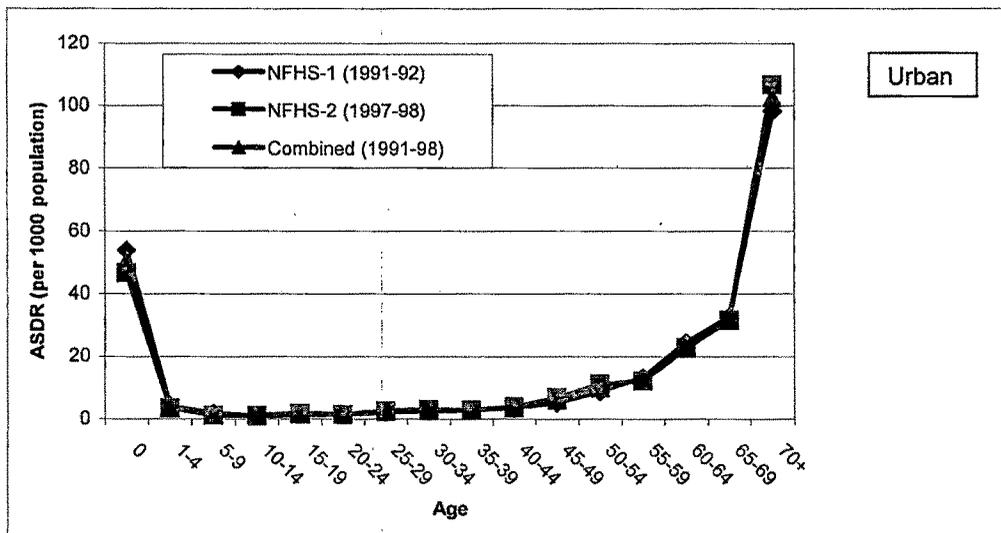
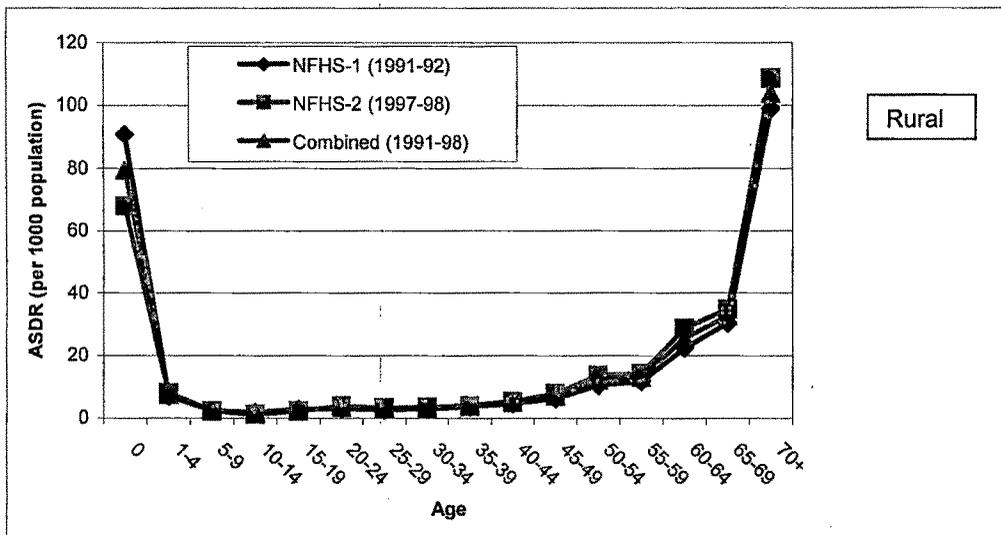
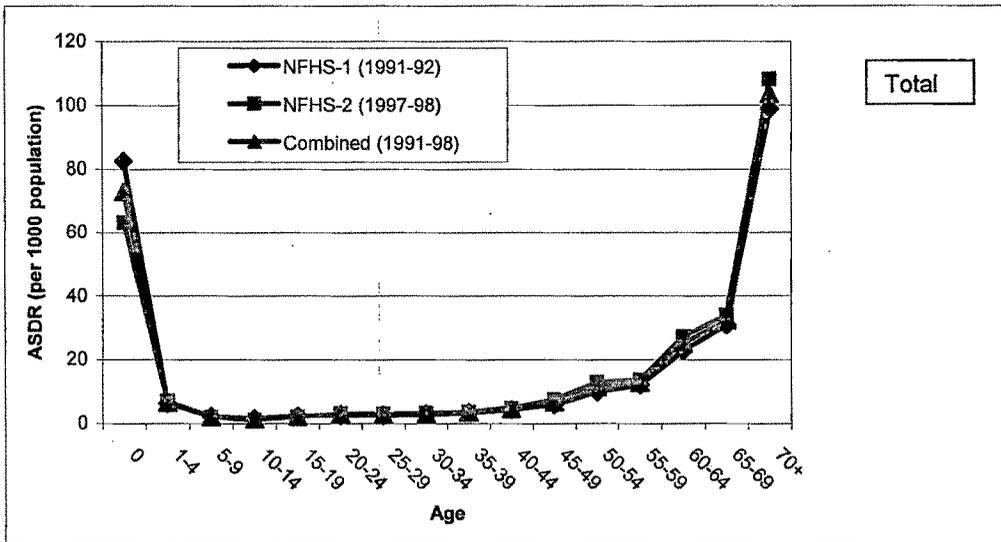
**Table 3.2: Age Specific Death Rates (ASDRs) from NFHS-1 and NFHS-2 and their Combined Estimate by Sex along with their Corresponding Standard Errors (SEs), Urban India,1992-98**

Age Interval	NFHS-1 (1991-92)			NFHS-2 (1997-98)			Combined (1992-98)	
	ASDR	SE	n <sub>1</sub>	ASDR	SE	n <sub>2</sub>	ASDR	SE
<b>Person</b>								
< 1	53.995	3.895	3637	46.558	4.011	2988	50.277	2.795
1-4	4.144	0.590	12785	3.493	0.454	11812	3.819	0.372
5-9	1.766	0.302	18196	1.160	0.221	16368	1.463	0.187
10-14	1.013	0.236	17949	1.153	0.249	17423	1.083	0.172
15-19	1.435	0.267	16093	1.805	0.287	16896	1.620	0.196
20-24	1.563	0.294	15422	1.462	0.253	15665	1.513	0.194
25-29	2.287	0.353	13746	2.612	0.397	14160	2.450	0.266
30-34	2.605	0.436	11477	3.068	0.435	11883	2.837	0.308
35-39	2.986	0.557	10487	2.891	0.430	11526	2.939	0.352
40-44	3.643	0.611	8083	3.963	0.663	8880	3.803	0.451
45-49	5.282	0.893	6878	6.919	0.871	7694	6.101	0.624
50-54	8.890	1.258	5171	11.215	1.292	5729	10.053	0.902
55-59	13.402	1.706	4617	12.222	1.536	4972	12.812	1.148
60-64	24.461	2.256	4017	22.747	2.354	4324	23.604	1.630
65-69	32.610	3.392	2663	31.626	2.728	3131	32.118	2.176
70+	98.368	5.200	4442	106.802	5.322	5270	102.585	3.720
<b>Total</b>	<b>7.582</b>	<b>0.233</b>	<b>155663</b>	<b>7.815</b>	<b>0.217</b>	<b>158721</b>	<b>7.699</b>	<b>0.159</b>
<b>Male</b>								
< 1	54.469	5.545	1863	53.942	5.881	1599	54.206	4.041
1-4	3.578	0.730	6639	3.022	0.601	6150	3.300	0.473
5-9	1.661	0.399	9544	0.913	0.283	8536	1.287	0.245
10-14	1.637	0.428	9312	1.352	0.366	9069	1.495	0.282
15-19	1.319	0.374	8353	1.657	0.366	8833	1.488	0.262
20-24	1.744	0.410	7739	1.461	0.315	7975	1.603	0.259
25-29	2.194	0.466	6927	2.960	0.586	7197	2.577	0.374
30-34	2.399	0.570	5883	3.992	0.681	6033	3.196	0.444
35-39	3.798	0.844	5605	3.105	0.630	5944	3.452	0.527
40-44	4.600	0.919	4395	5.450	1.090	4798	5.025	0.713
45-49	5.820	1.247	3729	8.919	1.351	4208	7.370	0.919
50-54	11.572	1.941	2934	12.975	1.907	3081	12.274	1.361
55-59	16.713	2.663	2302	16.063	2.461	2395	16.388	1.813
60-64	33.792	3.949	2040	24.544	2.958	2250	29.168	2.467
65-69	41.689	5.461	1355	33.524	4.115	1584	37.607	3.419
70+	98.421	7.107	2303	105.968	7.291	2674	102.195	5.091
<b>Total</b>	<b>8.238</b>	<b>0.328</b>	<b>80923</b>	<b>8.317</b>	<b>0.299</b>	<b>82326</b>	<b>8.278</b>	<b>0.222</b>
<b>Female</b>								
< 1	53.524	5.497	1774	38.750	5.272	1389	46.137	3.808
1-4	4.747	0.862	6146	3.996	0.723	5662	4.372	0.563
5-9	1.881	0.439	8652	1.428	0.345	7832	1.655	0.279
10-14	0.333	0.170	8637	0.932	0.329	8354	0.633	0.185
15-19	1.555	0.390	7740	1.971	0.454	8063	1.763	0.299
20-24	1.377	0.431	7683	1.463	0.404	7690	1.420	0.295
25-29	2.383	0.545	6819	2.252	0.455	6963	2.318	0.355
30-34	2.828	0.686	5594	2.115	0.482	5850	2.472	0.419
35-39	2.069	0.582	4882	2.666	0.587	5582	2.368	0.413
40-44	2.469	0.781	3688	2.229	0.612	4082	2.349	0.496
45-49	4.610	1.161	3149	4.582	1.055	3486	4.596	0.784
50-54	5.513	1.523	2237	9.192	1.691	2648	7.353	1.138
55-59	10.219	2.183	2315	8.575	1.780	2577	9.397	1.408
60-64	15.642	2.524	1977	20.858	3.097	2074	18.250	1.998
65-69	22.905	4.081	1308	29.745	4.075	1547	26.325	2.884
70+	98.310	7.343	2139	107.659	7.138	2596	102.985	5.120
<b>Total</b>	<b>6.873</b>	<b>0.304</b>	<b>74740</b>	<b>7.274</b>	<b>0.304</b>	<b>76395</b>	<b>7.074</b>	<b>0.215</b>

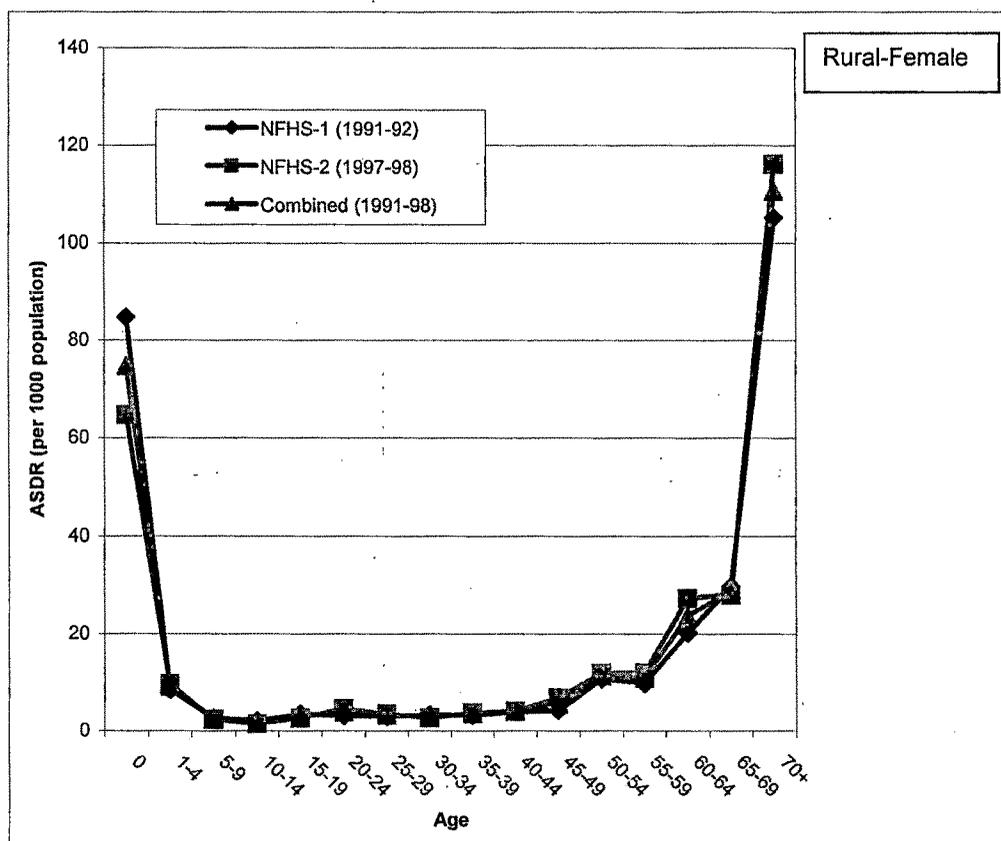
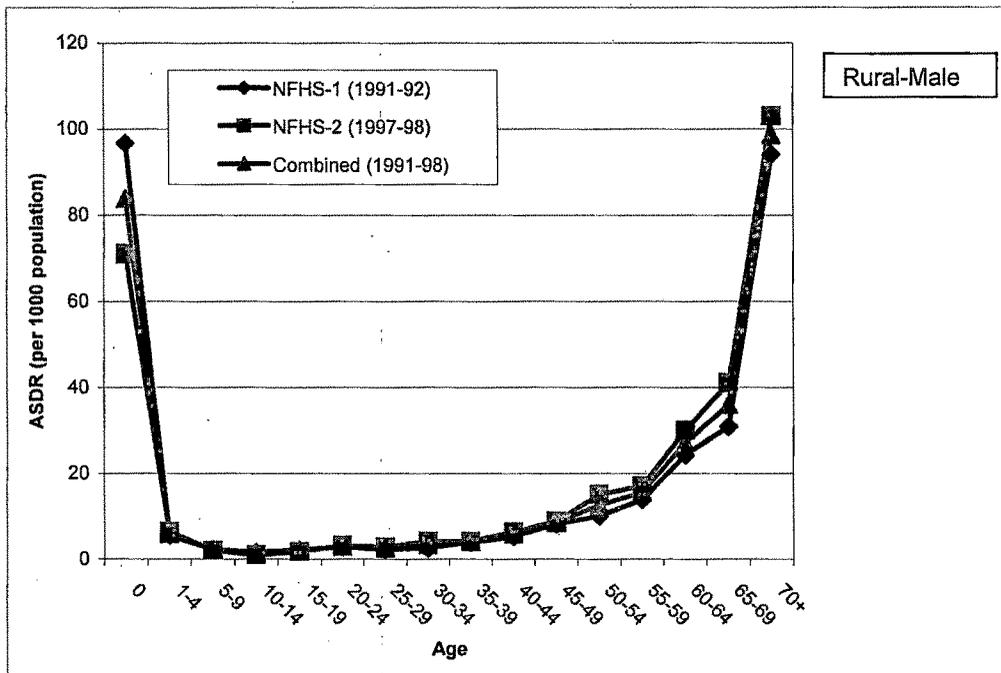
**Table 3.3: Age Specific Death Rates (ASDRs) from NFHS-1 and NFHS-2 and their Combined Estimate by Sex along with their Corresponding Standard Errors (SEs), Rural India, 1992-98**

Age Interval	NFHS-1 (1991-92)			NFHS-2 (1997-98)			Combined (1992-98)	
	ASDR	SE	n <sub>1</sub>	ASDR	SE	n <sub>2</sub>	ASDR	SE
<b>Person</b>								
< 1	90.900	3.319	10279	68.007	2.660	9034	79.454	2.127
1-4	7.072	0.437	33806	8.059	0.439	32845	7.566	0.310
5-9	2.473	0.204	46480	2.266	0.190	45542	2.370	0.139
10-14	1.883	0.201	41717	1.269	0.148	41701	1.576	0.125
15-19	2.861	0.285	34910	2.270	0.206	35715	2.566	0.176
20-24	3.033	0.269	30832	3.980	0.304	29853	3.507	0.203
25-29	2.686	0.293	27686	3.262	0.302	27886	2.974	0.210
30-34	3.004	0.327	21525	3.515	0.319	22787	3.260	0.228
35-39	3.698	0.433	19812	4.017	0.369	21458	3.858	0.284
40-44	4.711	0.509	15042	5.374	0.508	16145	5.043	0.360
45-49	6.295	0.619	13576	7.993	0.653	14069	7.144	0.450
50-54	10.471	0.879	10598	13.738	0.998	10911	12.105	0.665
55-59	11.704	0.959	10534	14.349	1.007	9951	13.027	0.695
60-64	22.403	1.383	10836	28.705	1.499	10883	25.554	1.020
65-69	30.411	1.949	6875	34.855	2.028	7224	32.633	1.406
70+	99.065	3.128	12170	108.744	3.139	12649	103.905	2.216
<b>Total</b>	<b>10.278</b>	<b>0.178</b>	<b>346678</b>	<b>10.387</b>	<b>0.163</b>	<b>348653</b>	<b>10.333</b>	<b>0.121</b>
<b>Male</b>								
< 1	96.756	4.541	5288	71.060	3.875	4670	83.908	2.985
1-4	5.622	0.521	17429	6.469	0.528	16944	6.046	0.371
5-9	2.308	0.284	24121	2.137	0.259	23718	2.223	0.192
10-14	1.618	0.251	21808	1.053	0.178	21454	1.336	0.154
15-19	2.190	0.351	17846	1.824	0.257	18288	2.007	0.218
20-24	2.880	0.371	14735	3.256	0.406	14391	3.068	0.275
25-29	2.312	0.390	13607	2.919	0.417	13284	2.616	0.285
30-34	2.636	0.427	10735	4.262	0.510	11330	3.449	0.333
35-39	4.046	0.604	10423	4.201	0.506	11285	4.124	0.394
40-44	5.345	0.718	7779	6.414	0.747	8664	5.880	0.518
45-49	8.251	0.971	6934	8.951	0.966	7462	8.601	0.685
50-54	10.140	1.174	5764	15.211	1.464	5879	12.676	0.938
55-59	13.981	1.504	4809	17.140	1.662	4498	15.561	1.121
60-64	24.349	1.992	5614	30.095	2.134	5543	27.222	1.460
65-69	30.955	2.686	3757	41.123	3.080	3852	36.039	2.043
70+	94.178	3.850	6755	103.082	3.890	7135	98.630	2.737
<b>Total</b>	<b>10.455</b>	<b>0.241</b>	<b>177404</b>	<b>10.741</b>	<b>0.217</b>	<b>178397</b>	<b>10.598</b>	<b>0.162</b>
<b>Female</b>								
< 1	84.811	4.569	4991	64.760	3.744	4364	74.786	2.954
1-4	8.616	0.715	16377	9.728	0.696	15901	9.172	0.499
5-9	2.652	0.301	22359	2.406	0.272	21824	2.529	0.203
10-14	2.171	0.310	19909	1.502	0.244	20247	1.837	0.197
15-19	3.567	0.457	17064	2.737	0.323	17427	3.152	0.280
20-24	3.175	0.383	16097	4.654	0.476	15462	3.915	0.305
25-29	3.054	0.400	14079	3.575	0.429	14602	3.315	0.293
30-34	3.375	0.497	10790	2.784	0.410	11457	3.080	0.322
35-39	3.304	0.602	9389	3.809	0.504	10173	3.557	0.393
40-44	4.009	0.695	7263	4.204	0.644	7481	4.107	0.474
45-49	4.248	0.704	6642	6.916	0.851	6607	5.582	0.552
50-54	10.853	1.361	4834	12.009	1.331	5032	11.431	0.952
55-59	9.887	1.301	5725	12.060	1.287	5453	10.974	0.915
60-64	20.294	1.882	5222	27.310	1.990	5340	23.802	1.369
65-69	29.753	2.863	3118	28.103	2.504	3372	28.928	1.902
70+	105.240	5.040	5415	116.236	5.041	5514	110.738	3.564
<b>Total</b>	<b>10.092</b>	<b>0.254</b>	<b>169274</b>	<b>10.017</b>	<b>0.226</b>	<b>170256</b>	<b>10.055</b>	<b>0.170</b>

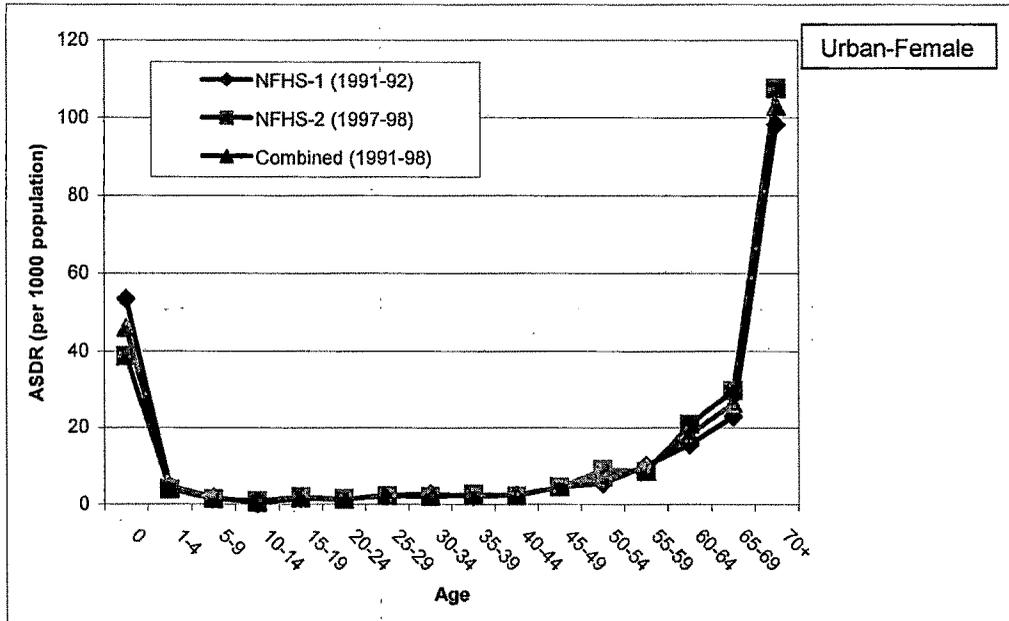
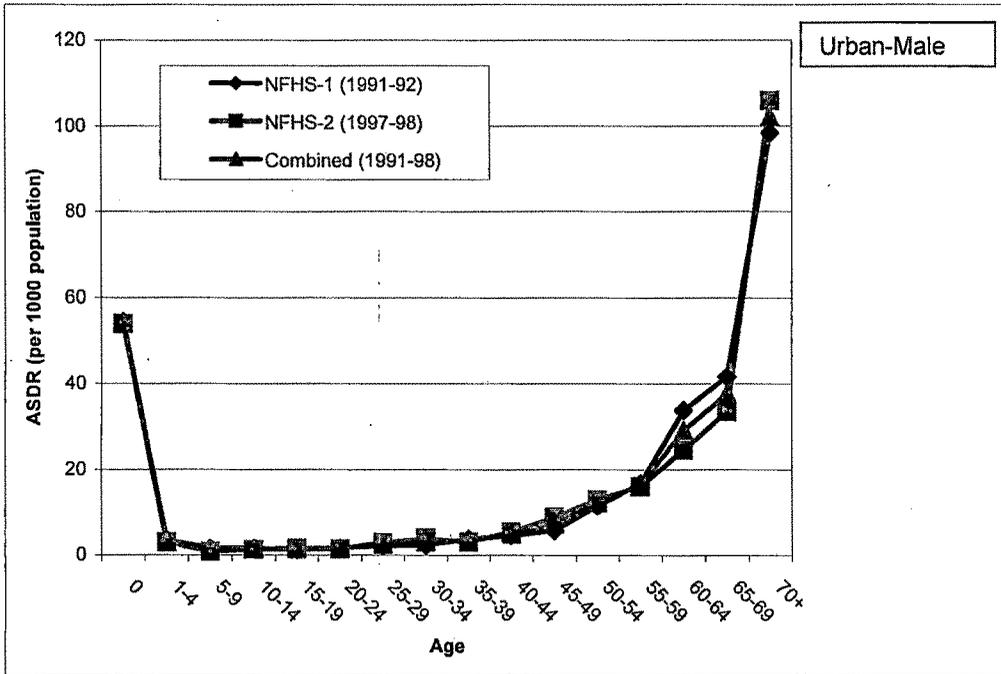
**Figure 3.1 Age Specific Death Rates (ASDRs) from NFHS-1 and NFHS-2 and their Combined Estimate by Residence, India, 1992-98**



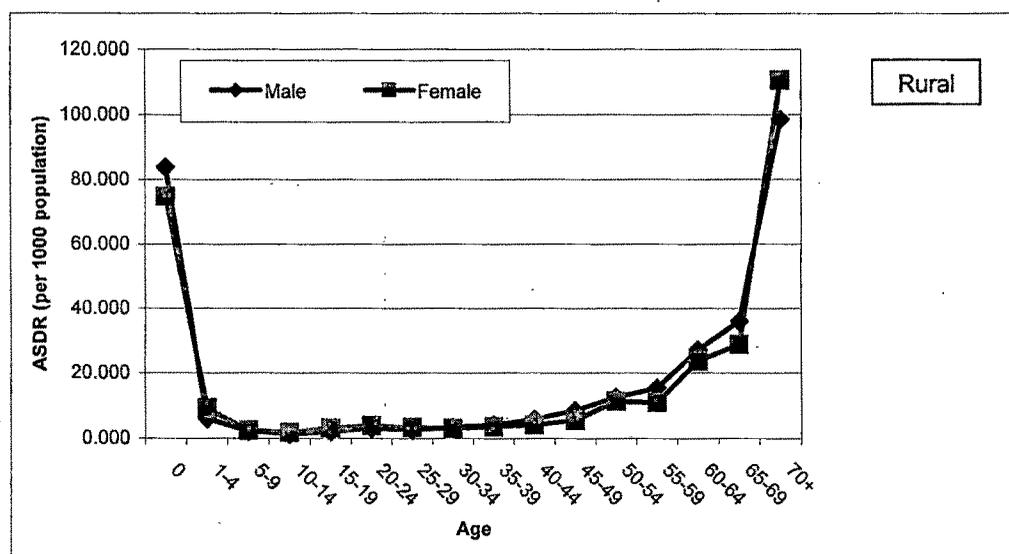
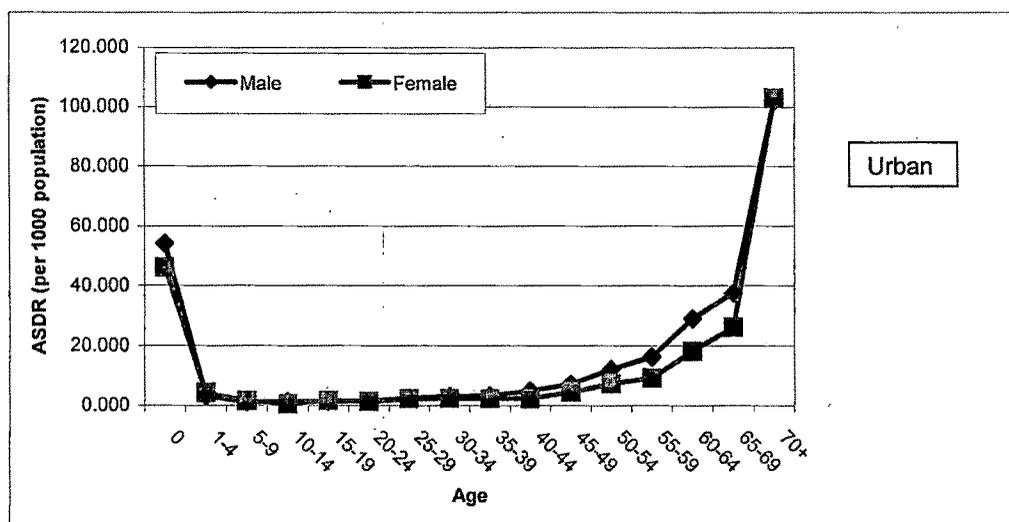
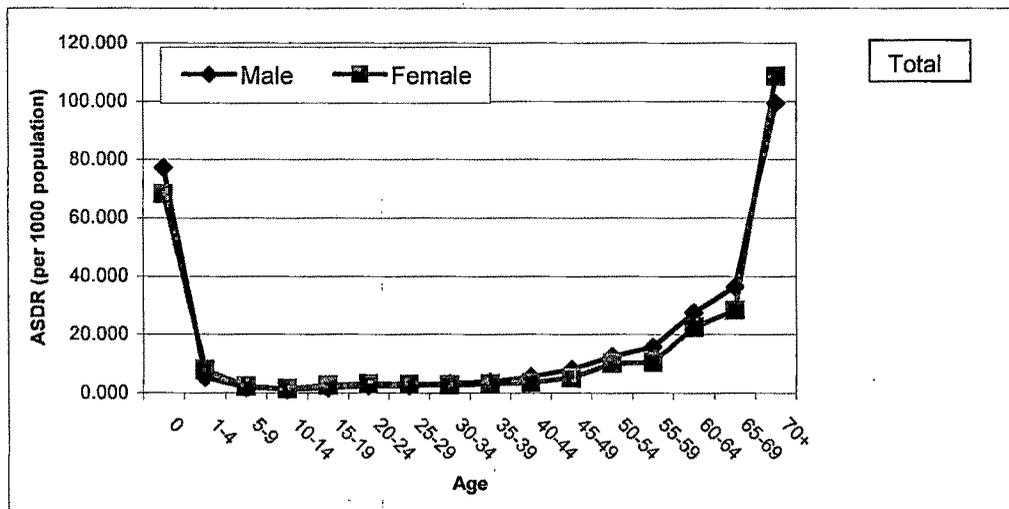
**Figure 3.2: Age Specific Death Rates (ASDRs) from NFHS-1 and NFHS-2 and their Combined Estimate by Sex, Rural India, 1992-98**



**Figure 3.3: Age Specific Death Rates (ASDRs) from NFHS-1 and NFHS-2 and their Combined Estimate by Sex, Urban India, 1992-98**



**Figure 3.4: Age Specific Death Rates (ASDRs) based on Pooled Estimates of NFHS-1 and NFHS-2 by Sex According to Residence, India, 1992-98**



more or less smooth trend by age and sex in rural and urban areas (see Figures 3.1-3.4), despite rates being based on small samples for certain subgroups of population in the two rounds of NFHS. These combined age-specific death rates have been used as input to construct the abridged life tables for India by the method described earlier.

### **ASDRs by Region and State**

The age specific death rates based on the combined estimates of NFHS-1 and NFHS-2 by region and states are presented in Table 3.4 while the ASDRs based on the individual rounds of NFHS as well as those based on the combined data along with their corresponding standard error are given in Appendix Tables 3.1 to 3.6. The results indicate that ASDRs remain stable both at the region and state level while the standard error of the combined estimate of NFHS-1 and NFHS-2 reduces substantially than that of individual rounds and provides a more or less smooth trend by age and sex in each of the regions and states. For example, the smoothness of the data is evident in graphs plotted for the various regions, presented in Figure 3.5. The results also indicate that there is a wide variation in the level of mortality by region and state across the country.

As can be seen from Table 3.4 (and Appendix Tables 3.1 to 3.6), the levels of crude death rate and infant mortality are still high in the eastern and central regions followed by that in the northeastern India, while these levels are relatively lower in the northern, western and southern regions of the country. However, the data also reveal that certain state(s) within a region do not adhere to the regional pattern as the latter depicts the average trend for that geographic region. For example, Haryana in the north, Andhra Pradesh in the south and Gujarat in the west are found to have a higher infant mortality than that noted for their respective regions.

**Table 3.4: Age Specific Death Rates (ASDRs) and Crude Death Rates (CDRs) Based on Combined Estimates of NFHS-1 and NFHS-2 by Sex, According to Region and States, India, 1992-98**

Region/State	ASDRs per 1000 population*							Total
	0	1-4	5-9	10-14	15-19	20-24	25-29	30-34
<b>India</b>	<b>72.9</b>	<b>6.7</b>	<b>2.2</b>	<b>1.5</b>	<b>2.3</b>	<b>2.9</b>	<b>2.8</b>	<b>3.1</b>
<b>North</b>	<b>59.3</b>	<b>3.9</b>	<b>1.1</b>	<b>0.8</b>	<b>2.1</b>	<b>3.1</b>	<b>2.7</b>	<b>3.4</b>
Haryana	69.9	4.5	1.3	0.9	2.5	4.9	3.2	2.7
Himachal Pradesh	59.0	3.5	1.0	0.3	1.9	2.7	2.3	2.1
Jammu	54.4	4.5	1.8	1.5	2.0	2.6	2.6	4.4
New Delhi	56.2	3.0	1.1	0.8	1.8	2.2	2.2	4.4
Punjab	53.3	3.7	0.9	0.7	2.0	2.4	2.9	3.7
<b>Central</b>	<b>98.1</b>	<b>9.1</b>	<b>2.3</b>	<b>1.6</b>	<b>2.6</b>	<b>3.0</b>	<b>2.9</b>	<b>3.0</b>
Madhya Pradesh	95.0	10.2	2.9	1.1	1.8	3.1	3.2	2.9
Rajasthan	95.8	7.5	1.2	1.3	2.1	2.7	2.7	2.3
Uttar Pradesh	100.6	9.0	2.3	1.8	3.2	3.0	2.8	3.4
<b>East</b>	<b>85.3</b>	<b>7.1</b>	<b>2.8</b>	<b>1.9</b>	<b>2.6</b>	<b>3.3</b>	<b>3.0</b>	<b>3.6</b>
Bihar	85.7	9.0	3.6	2.4	3.3	3.6	3.7	5.2
Orissa	101.2	7.0	3.0	2.5	3.2	3.3	3.7	3.6
West Bengal	66.7	3.6	1.3	1.5	1.5	2.8	2.0	1.9
<b>Northeast</b>	<b>65.8</b>	<b>7.7</b>	<b>3.2</b>	<b>2.0</b>	<b>2.3</b>	<b>3.4</b>	<b>2.7</b>	<b>4.5</b>
Assam	79.7	7.8	3.5	2.1	2.5	3.5	2.5	4.8
Other North Eastern States	59.8	7.0	2.6	1.8	2.1	3.0	3.1	3.9
<b>West</b>	<b>57.3</b>	<b>4.4</b>	<b>1.3</b>	<b>1.3</b>	<b>1.8</b>	<b>2.7</b>	<b>2.2</b>	<b>2.5</b>
Goa	20.9	3.5	1.1	1.0	1.2	2.5	2.8	4.0
Gujarat	68.2	5.7	2.4	1.3	1.7	3.1	2.1	3.6
Maharashtra	60.5	3.8	0.8	1.2	1.8	2.4	2.2	2.0
<b>South</b>	<b>51.4</b>	<b>4.1</b>	<b>1.9</b>	<b>1.0</b>	<b>1.9</b>	<b>2.6</b>	<b>3.0</b>	<b>2.9</b>
Andhra Pradesh	69.2	4.8	2.2	0.9	1.8	3.0	3.2	3.1
Karnataka	55.5	5.2	2.0	0.3	2.3	2.1	3.5	3.4
Kerala	16.4	1.3	1.1	0.8	0.8	0.8	1.5	1.2
Tamil Nadu	58.6	3.3	1.6	1.9	2.6	3.6	3.1	3.2

\* The ASDRs from NFHS-1 and NFHS-2 and their combined estimate by sex along with their corresponding Standard Errors (SEs), according to States, India, 1992-98 are given in Appendix Tables 3.1 to 3.6

Table 3.4 Continued .....

Total

Region/State	ASDRs per 1000 population*								Total
	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	
<b>India</b>	<b>3.6</b>	<b>4.7</b>	<b>6.8</b>	<b>11.5</b>	<b>13.0</b>	<b>25.1</b>	<b>32.5</b>	<b>103.6</b>	<b>9.6</b>
<b>North</b>	<b>3.2</b>	<b>4.2</b>	<b>6.0</b>	<b>8.1</b>	<b>9.9</b>	<b>19.0</b>	<b>23.0</b>	<b>81.8</b>	<b>8.0</b>
Haryana	3.2	3.1	7.2	8.7	10.7	13.9	20.6	79.4	8.4
Himachal Pradesh	3.0	5.2	7.7	8.5	10.5	16.0	31.4	80.8	8.3
Jammu	3.5	5.8	6.4	9.3	12.9	17.6	25.0	96.7	8.5
New Delhi	3.5	4.5	5.4	9.8	15.7	23.6	34.3	128.0	7.9
Punjab	3.3	4.4	4.3	6.6	10.1	15.3	23.3	69.2	7.6
<b>Central</b>	<b>3.9</b>	<b>4.9</b>	<b>7.0</b>	<b>11.4</b>	<b>10.2</b>	<b>23.4</b>	<b>30.9</b>	<b>98.3</b>	<b>10.4</b>
Madhya Pradesh	3.4	3.3	7.5	11.2	16.1	22.6	31.1	89.4	10.1
Rajasthan	3.0	2.6	4.5	7.1	11.3	17.9	28.4	97.6	9.0
Uttar Pradesh	4.5	6.3	7.6	10.0	13.9	20.6	32.8	103.1	11.0
<b>East</b>	<b>3.5</b>	<b>5.1</b>	<b>7.5</b>	<b>14.6</b>	<b>16.6</b>	<b>29.0</b>	<b>41.5</b>	<b>124.4</b>	<b>10.5</b>
Bihar	4.1	6.9	9.2	14.3	20.4	27.8	36.9	128.2	11.3
Orissa	3.7	5.7	7.4	10.0	14.8	24.1	43.1	123.6	11.8
West Bengal	3.0	2.6	8.8	12.0	17.9	28.7	48.9	111.4	9.0
<b>Northeast</b>	<b>3.1</b>	<b>4.1</b>	<b>7.3</b>	<b>17.1</b>	<b>17.2</b>	<b>32.1</b>	<b>32.3</b>	<b>107.1</b>	<b>9.7</b>
Assam	3.0	3.7	7.2	15.4	23.1	30.3	37.2	122.4	10.3
Other North Eastern States	3.1	5.1	6.5	9.8	13.6	19.2	29.7	77.6	7.6
<b>West</b>	<b>3.2</b>	<b>4.6</b>	<b>6.5</b>	<b>8.2</b>	<b>16.5</b>	<b>21.8</b>	<b>29.8</b>	<b>106.5</b>	<b>8.5</b>
Goa	4.7	6.1	8.5	12.4	17.7	25.3	32.7	97.8	8.3
Gujarat	3.6	3.3	7.5	10.3	14.5	20.9	30.7	92.4	8.5
Maharashtra	3.0	4.2	7.0	10.2	14.7	21.1	30.3	113.6	8.4
<b>South</b>	<b>3.5</b>	<b>4.4</b>	<b>6.3</b>	<b>11.3</b>	<b>11.5</b>	<b>26.8</b>	<b>31.5</b>	<b>98.7</b>	<b>8.8</b>
Andhra Pradesh	3.0	4.6	6.2	11.7	17.9	24.9	33.2	119.2	9.6
Karnataka	3.7	4.9	5.7	9.7	14.1	19.0	24.6	84.5	7.8
Kerala	1.2	1.9	3.6	6.7	11.1	18.0	29.5	75.7	6.1
Tamil Nadu	5.5	5.2	8.4	11.3	16.1	24.7	41.0	104.2	10.3

Table 3.4 Continued .....

Male

Region/State	ASDRs per 1000 population*							
	0	1-4	5-9	10-14	15-19	20-24	25-29	30-34
<b>India</b>	<b>77.3</b>	<b>5.4</b>	<b>2.0</b>	<b>1.4</b>	<b>1.9</b>	<b>2.6</b>	<b>2.6</b>	<b>3.4</b>
<b>North</b>	<b>61.4</b>	<b>2.9</b>	<b>0.7</b>	<b>2.4</b>	<b>1.7</b>	<b>3.7</b>	<b>2.2</b>	<b>3.2</b>
Haryana	71.2	2.6	0.5	0.9	2.1	4.7	3.3	3.5
Himachal Pradesh	60.4	4.2	0.9	0.4	2.9	3.7	2.9	2.3
Jammu	58.2	3.5	1.7	1.7	1.9	3.0	2.7	3.9
New Delhi	59.2	3.6	0.7	0.8	1.4	2.7	1.3	4.7
Punjab	55.0	2.3	0.7	0.7	1.4	3.5	3.5	5.4
<b>Central</b>	<b>99.1</b>	<b>6.7</b>	<b>1.8</b>	<b>2.1</b>	<b>2.2</b>	<b>2.5</b>	<b>2.2</b>	<b>3.4</b>
Madhya Pradesh	97.1	8.2	2.2	0.8	1.5	2.8	3.5	2.8
Rajasthan	90.7	5.7	0.9	0.8	1.7	2.2	2.4	2.6
Uttar Pradesh	104.3	6.2	1.9	1.8	2.6	2.4	2.7	4.1
<b>East</b>	<b>87.1</b>	<b>5.8</b>	<b>3.1</b>	<b>2.1</b>	<b>2.2</b>	<b>2.4</b>	<b>2.1</b>	<b>3.2</b>
Bihar	86.2	7.8	4.2	2.3	3.3	1.9	2.6	5.6
Orissa	105.7	5.3	3.0	2.5	3.3	3.2	3.4	3.7
West Bengal	67.9	2.5	1.2	1.3	1.2	3.0	1.4	2.0
<b>Northeast</b>	<b>68.5</b>	<b>8.2</b>	<b>3.3</b>	<b>2.3</b>	<b>1.8</b>	<b>3.9</b>	<b>2.5</b>	<b>2.6</b>
Assam	84.6	8.3	3.5	2.0	1.9	3.8	1.4	2.2
Other North Eastern States	61.9	7.6	2.5	2.2	3.0	3.9	3.3	5.9
<b>West</b>	<b>59.2</b>	<b>3.5</b>	<b>0.9</b>	<b>1.2</b>	<b>1.7</b>	<b>2.7</b>	<b>1.9</b>	<b>2.4</b>
Goa	23.6	4.0	1.4	1.5	2.3	3.7	3.3	4.7
Gujarat	69.2	4.7	1.7	1.5	1.8	3.7	2.1	4.7
Maharashtra	63.5	3.0	0.5	1.2	1.7	2.1	2.6	1.5
<b>South</b>	<b>53.6</b>	<b>4.2</b>	<b>2.0</b>	<b>1.5</b>	<b>1.2</b>	<b>2.5</b>	<b>2.7</b>	<b>3.7</b>
Andhra Pradesh	72.5	4.8	2.4	1.3	0.5	2.3	4.1	3.0
Karnataka	57.1	6.2	2.2	0.6	1.9	1.9	2.7	4.8
Kerala	16.5	1.9	0.9	0.6	1.1	0.6	1.9	1.7
Tamil Nadu	59.0	2.5	1.8	2.0	1.7	4.5	3.9	2.9

Table 3.4 Continued .....

Male

Region/State	ASDRs per 1000 population*								Total
	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	
<b>India</b>	<b>3.9</b>	<b>5.6</b>	<b>8.2</b>	<b>12.6</b>	<b>15.8</b>	<b>27.6</b>	<b>36.3</b>	<b>99.4</b>	<b>10.0</b>
<b>North</b>	<b>4.3</b>	<b>5.8</b>	<b>10.7</b>	<b>8.3</b>	<b>8.8</b>	<b>19.7</b>	<b>24.6</b>	<b>79.8</b>	<b>8.4</b>
Haryana	4.4	4.4	7.2	8.7	11.0	15.2	24.5	72.8	8.3
Himachal Pradesh	4.7	7.5	10.2	10.3	10.7	13.7	32.5	91.2	10.1
Jammu	3.2	9.5	10.8	6.8	10.6	16.8	26.7	94.4	9.3
New Delhi	4.8	7.0	9.3	11.8	15.8	23.4	40.7	143.7	8.7
Punjab	4.3	5.5	4.9	8.8	12.8	17.0	21.4	65.3	7.8
<b>Central</b>	<b>4.1</b>	<b>6.1</b>	<b>9.9</b>	<b>13.3</b>	<b>10.9</b>	<b>24.4</b>	<b>34.9</b>	<b>94.7</b>	<b>10.5</b>
Madhya Pradesh	3.6	3.3	8.8	12.2	16.6	22.2	29.4	88.6	10.1
Rajasthan	3.5	3.9	7.4	9.4	12.9	20.4	38.5	103.7	9.1
Uttar Pradesh	4.5	8.2	10.2	11.7	15.0	22.1	37.8	96.0	11.0
<b>East</b>	<b>3.5</b>	<b>5.4</b>	<b>12.1</b>	<b>14.5</b>	<b>12.8</b>	<b>34.0</b>	<b>40.0</b>	<b>109.7</b>	<b>10.5</b>
Bihar	3.8	8.0	8.2	13.8	20.7	29.5	40.6	104.5	11.2
Orissa	3.8	6.5	7.7	12.6	17.3	24.1	48.7	140.4	11.5
West Bengal	3.5	2.9	9.4	14.2	21.3	32.0	47.7	104.7	9.1
<b>Northeast</b>	<b>2.8</b>	<b>4.8</b>	<b>11.1</b>	<b>18.7</b>	<b>16.3</b>	<b>30.0</b>	<b>30.7</b>	<b>109.9</b>	<b>10.4</b>
Assam	2.7	4.7	7.4	18.4	21.9	29.1	34.5	122.6	10.9
Other North Eastern States	3.1	4.8	7.2	10.4	14.5	20.4	31.3	82.8	8.7
<b>West</b>	<b>3.8</b>	<b>5.7</b>	<b>13.6</b>	<b>8.2</b>	<b>15.4</b>	<b>24.8</b>	<b>38.1</b>	<b>107.9</b>	<b>9.1</b>
Goa	5.9	8.0	12.0	18.0	22.0	32.6	44.5	101.0	9.9
Gujarat	3.5	4.7	7.8	12.0	17.6	25.3	36.4	101.9	9.1
Maharashtra	3.9	6.1	7.4	11.4	16.8	25.0	39.4	110.7	9.1
<b>South</b>	<b>4.3</b>	<b>5.4</b>	<b>13.8</b>	<b>13.2</b>	<b>11.3</b>	<b>29.7</b>	<b>38.1</b>	<b>98.2</b>	<b>9.7</b>
Andhra Pradesh	3.1	6.0	6.3	12.4	20.0	29.4	41.0	113.4	10.3
Karnataka	4.8	5.8	6.2	11.5	17.6	25.0	34.5	85.5	8.6
Kerala	1.4	2.8	5.9	10.7	16.9	25.3	37.5	81.4	7.3
Tamil Nadu	7.1	5.5	11.7	15.9	20.9	28.1	41.2	99.8	11.3

Table 3.4 Continued .....

Female

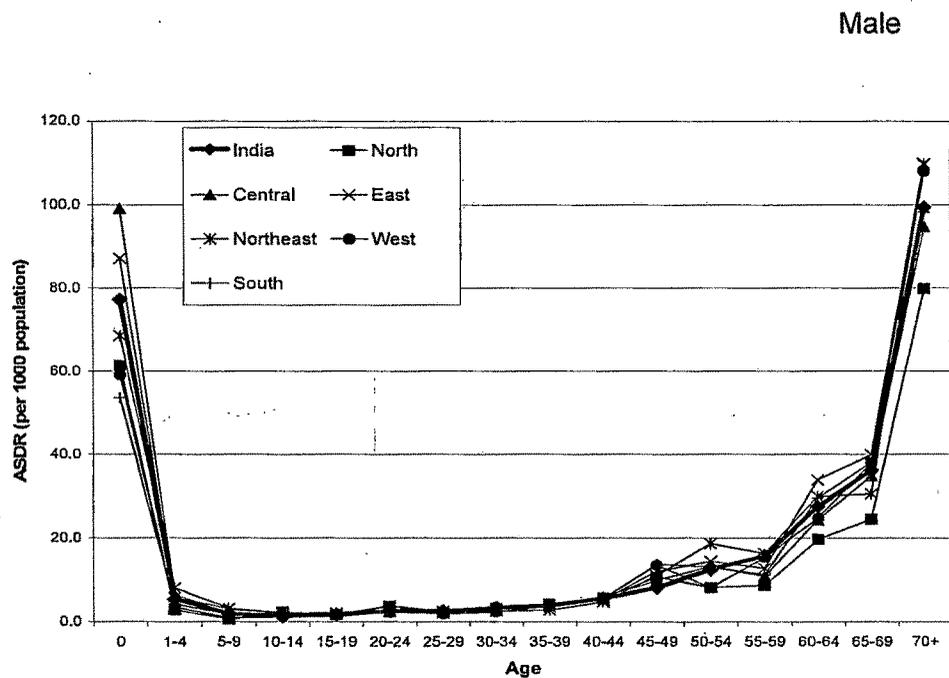
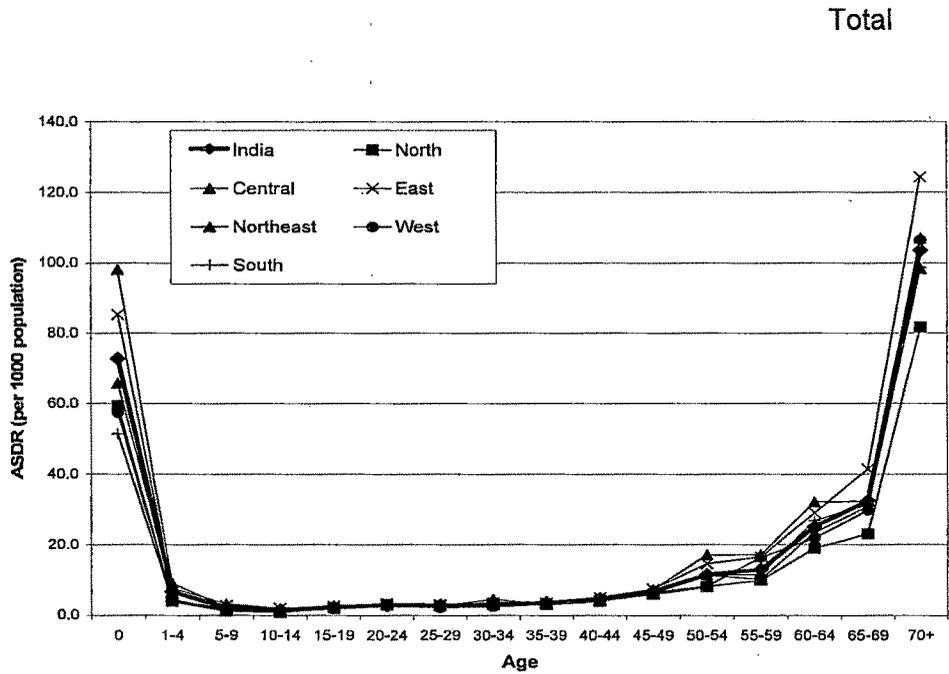
Region/State	ASDRs per 1000 population*							
	0	1-4	5-9	10-14	15-19	20-24	25-29	30-34
<b>India</b>	<b>68.3</b>	<b>8.1</b>	<b>2.3</b>	<b>1.5</b>	<b>2.8</b>	<b>3.2</b>	<b>3.0</b>	<b>2.9</b>
<b>North</b>	<b>57.5</b>	<b>5.2</b>	<b>1.7</b>	<b>1.5</b>	<b>2.4</b>	<b>2.6</b>	<b>2.2</b>	<b>2.4</b>
Haryana	68.8	6.8	2.4	0.8	3.0	5.3	3.2	4.2
Himachal Pradesh	58.7	2.6	1.2	0.4	0.8	2.0	1.8	1.9
Jammu	50.2	5.6	1.9	1.2	2.4	2.2	2.5	4.9
New Delhi	52.4	2.3	2.0	0.9	2.2	1.5	3.1	4.4
Punjab	51.9	5.3	1.1	2.0	2.8	1.4	2.4	2.2
<b>Central</b>	<b>97.5</b>	<b>11.7</b>	<b>2.8</b>	<b>2.2</b>	<b>3.2</b>	<b>3.4</b>	<b>2.3</b>	<b>2.8</b>
Madhya Pradesh	94.1	12.3	3.8	1.4	2.2	3.3	3.0	3.0
Rajasthan	100.5	9.4	1.6	1.9	2.5	3.2	2.9	2.0
Uttar Pradesh	96.9	12.0	2.7	1.9	3.8	3.6	2.8	2.7
<b>East</b>	<b>84.2</b>	<b>8.5</b>	<b>2.5</b>	<b>3.2</b>	<b>3.0</b>	<b>4.1</b>	<b>4.0</b>	<b>2.4</b>
Bihar	85.0	10.3	3.0	2.6	3.3	5.2	4.8	4.9
Orissa	99.1	8.9	2.9	2.5	3.0	3.1	3.9	3.6
West Bengal	65.3	4.7	1.3	2.2	2.3	2.6	2.7	1.7
<b>Northeast</b>	<b>63.1</b>	<b>7.2</b>	<b>3.2</b>	<b>3.9</b>	<b>2.9</b>	<b>2.9</b>	<b>3.0</b>	<b>4.1</b>
Assam	74.3	7.3	3.4	2.2	3.6	3.3	3.4	7.2
Other North Eastern States	58.0	6.3	2.6	1.3	1.2	2.2	2.9	1.9
<b>West</b>	<b>55.7</b>	<b>5.3</b>	<b>1.8</b>	<b>1.9</b>	<b>1.9</b>	<b>2.6</b>	<b>1.9</b>	<b>2.6</b>
Goa	15.2	3.0	1.0	0.8	0.7	1.7	2.3	2.8
Gujarat	67.1	6.7	3.2	1.2	1.5	2.4	2.2	2.5
Maharashtra	58.5	4.7	1.1	1.3	2.1	2.7	2.9	2.6
<b>South</b>	<b>49.8</b>	<b>4.0</b>	<b>1.8</b>	<b>1.6</b>	<b>2.6</b>	<b>2.7</b>	<b>1.4</b>	<b>2.9</b>
Andhra Pradesh	67.2	4.8	2.1	0.5	3.0	3.7	2.3	3.2
Karnataka	54.3	4.3	1.9	1.6	2.8	2.3	4.2	2.0
Kerala	15.5	1.8	1.5	1.0	1.4	2.1	1.1	2.2
Tamil Nadu	58.0	4.2	1.4	1.7	3.5	2.8	2.4	3.5

Table 3.4 Continued .....

Female

Region/State	ASDRs per 1000 population*								Total
	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	
<b>India</b>	<b>3.2</b>	<b>3.6</b>	<b>5.3</b>	<b>10.3</b>	<b>10.6</b>	<b>22.5</b>	<b>28.3</b>	<b>108.7</b>	<b>9.3</b>
<b>North</b>	<b>2.1</b>	<b>2.3</b>	<b>6.0</b>	<b>7.9</b>	<b>6.6</b>	<b>18.3</b>	<b>21.1</b>	<b>84.4</b>	<b>7.6</b>
Haryana	1.9	1.7	7.6	8.9	10.4	12.4	16.6	89.5	8.5
Himachal Pradesh	3.6	2.7	6.1	7.8	10.8	16.8	29.7	69.2	6.7
Jammu	3.7	2.2	7.8	9.8	12.8	17.2	23.7	100.2	7.6
New Delhi	2.0	1.4	2.9	8.1	13.9	20.5	28.1	110.5	7.1
Punjab	2.3	3.3	5.3	6.0	7.8	12.7	26.7	74.9	7.4
<b>Central</b>	<b>3.8</b>	<b>3.5</b>	<b>6.1</b>	<b>9.0</b>	<b>7.7</b>	<b>22.3</b>	<b>26.3</b>	<b>102.9</b>	<b>10.3</b>
Madhya Pradesh	3.2	3.4	6.8	10.0	14.9	22.0	32.8	90.6	10.1
Rajasthan	2.5	1.1	2.2	5.4	8.9	13.1	18.1	90.6	8.8
Uttar Pradesh	4.5	4.2	4.8	8.5	12.8	18.5	27.2	112.7	10.9
<b>East</b>	<b>3.6</b>	<b>4.7</b>	<b>13.6</b>	<b>14.8</b>	<b>9.4</b>	<b>23.7</b>	<b>43.4</b>	<b>144.1</b>	<b>10.6</b>
Bihar	4.4	5.7	11.2	14.7	19.2	25.1	32.9	165.7	11.4
Orissa	3.6	4.9	7.1	9.3	12.3	23.3	38.5	94.6	12.1
West Bengal	2.5	2.3	8.4	10.2	14.2	23.9	50.8	118.8	8.9
<b>Northeast</b>	<b>3.4</b>	<b>3.2</b>	<b>10.9</b>	<b>15.2</b>	<b>10.4</b>	<b>34.7</b>	<b>34.9</b>	<b>103.5</b>	<b>8.9</b>
Assam	3.4	6.6	9.3	15.4	23.0	32.5	44.3	122.3	9.8
Other North Eastern States	3.1	5.5	6.2	9.5	13.0	17.7	27.8	71.5	6.4
<b>West</b>	<b>2.6</b>	<b>3.4</b>	<b>7.9</b>	<b>8.2</b>	<b>9.5</b>	<b>19.1</b>	<b>21.6</b>	<b>104.9</b>	<b>7.8</b>
Goa	3.2	3.8	5.2	8.6	12.9	18.4	26.1	95.1	6.7
Gujarat	3.8	1.8	8.0	9.5	12.1	16.6	25.0	83.3	7.8
Maharashtra	2.0	4.4	4.8	8.4	12.5	17.1	22.4	117.0	7.8
<b>South</b>	<b>2.7</b>	<b>3.4</b>	<b>6.2</b>	<b>9.4</b>	<b>5.5</b>	<b>24.0</b>	<b>25.2</b>	<b>99.3</b>	<b>8.0</b>
Andhra Pradesh	2.8	2.9	6.7	11.2	15.8	20.4	25.3	127.4	9.0
Karnataka	2.6	3.8	5.6	7.9	10.3	12.7	15.3	83.4	6.9
Kerala	1.0	1.8	1.9	3.4	6.1	11.5	22.7	70.8	5.0
Tamil Nadu	3.7	4.9	5.0	7.4	12.2	21.8	41.1	109.8	9.3

Figure 3.5: Differential in Age Specific Death Rates (ASDRs) by Region according to sex, India, 1992-98



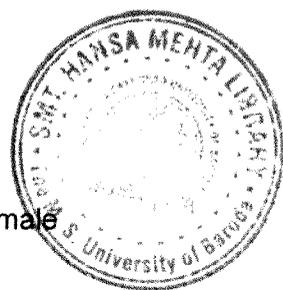
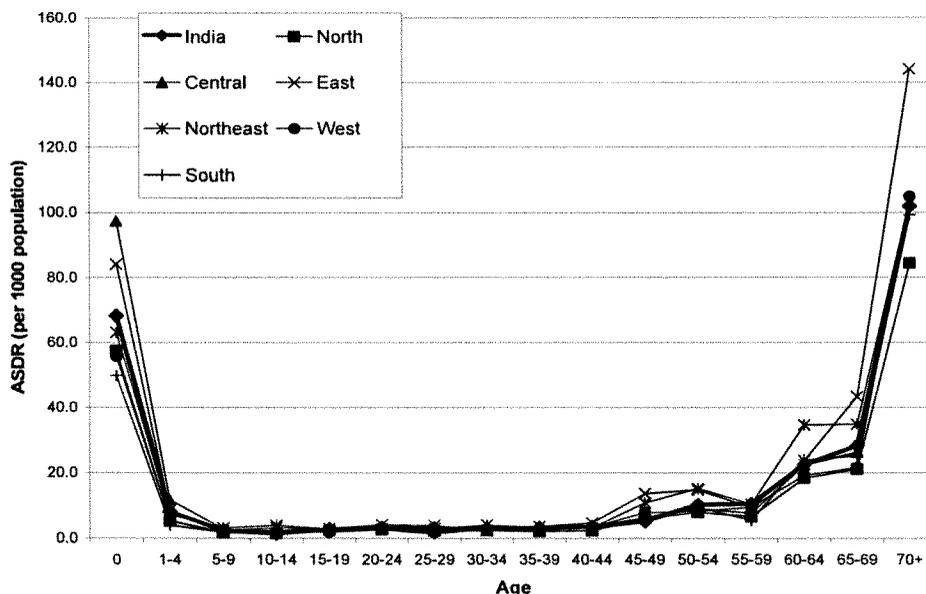


Figure 3.5 Continued .....

Female



### ASDRs by Socio-Economic Characteristics

In this section an attempt has been made to examine the differentials in age specific death rates by selected socio-economic characteristics at the all-India level. Table 3.5 summaries the pattern of ASDRs derived from data of the two rounds of NFHS by selected characteristics viz. religion, caste and standard of living while the same based on the individual rounds of NFHS and their combined estimates along with the corresponding standard error is presented in Appendix Table 3.7. It may be noted that detailed results on mortality pattern by rural/urban residence has already been presented earlier in this chapter and therefore this section focuses on other background characteristics. It is evident from Table 3.5 and Figure 3.6 that there is little difference in the age and sex specific pattern of mortality between Hindus and Muslims but religious groups other than Hindus and Muslims are found to

**Table 3.5: Age Specific Death Rates (ASDRs) and Crude Death Rates (CDRs) Based on Combined Estimates of NFHS-1 and NFHS-2 by Sex, According to Selected Background Characteristics, India, 1992-98**

Age	Background Characteristics										Total
	Religion			Caste			Standard of Living Index				
	Hindu	Muslim	Non-Hindu-Non-Muslim	SC/ST	Other Castes		Low	Medium	High		
0	74.4	71.1	53.7	82.6	66.4		86.2	63.3	34.9		
1-4	6.9	6.4	5.5	8.0	5.4		9.4	4.7	1.7		
5-9	2.3	1.9	1.4	2.8	1.6		2.9	1.4	0.7		
10-14	1.4	1.7	1.1	1.5	1.3		1.7	1.3	0.7		
15-19	2.4	1.6	2.3	2.7	2.0		3.0	1.8	1.4		
20-24	3.1	2.1	2.1	3.1	2.6		4.3	2.5	1.4		
25-29	2.9	2.3	3.2	3.4	2.3		3.6	2.5	1.5		
30-34	3.2	2.3	4.6	4.0	2.6		4.2	2.7	1.6		
35-39	3.7	3.2	3.2	4.4	3.4		4.8	2.8	1.8		
40-44	4.6	5.6	3.5	5.1	3.9		6.2	4.2	2.0		
45-49	6.9	6.7	5.7	7.4	6.0		8.9	5.7	4.8		
50-54	11.7	11.2	10.2	13.7	9.6		15.4	10.4	6.0		
55-59	13.2	12.4	10.0	13.2	12.4		14.1	12.9	10.2		
60-64	25.5	23.5	21.5	27.4	23.1		29.4	23.8	15.3		
65-69	32.1	37.8	28.9	31.9	31.0		36.7	28.6	27.2		
70+	106.5	101.4	71.5	108.4	99.2		111.7	103.3	86.3		
<b>Total</b>	<b>9.9</b>	<b>8.6</b>	<b>7.9</b>	<b>10.4</b>	<b>9.0</b>		<b>11.4</b>	<b>8.6</b>	<b>7.6</b>		

Table 3.5 Continued .....

Age	Background Characteristics										Standard of Living Index		
	Religion			Caste			Other Castes			Low	Medium	High	
	Hindu	Muslim	Non-Hindu- Non-Muslim	SC/ST	Other Castes	Other Castes	Low	Medium	High				
0	79.8	73.6	50.0	88.8	70.5	70.5	94.0	63.3	38.9				
1-4	5.7	4.7	3.4	6.4	4.5	4.5	7.5	3.7	1.4				
5-9	2.0	2.2	1.6	2.8	1.4	1.4	2.9	1.3	0.4				
10-14	1.3	1.6	1.5	1.6	1.3	1.3	1.4	1.4	1.1				
15-19	1.9	1.4	2.3	2.4	1.6	1.6	2.3	1.6	0.9				
20-24	2.9	1.6	1.8	2.9	2.4	2.4	3.7	2.4	1.6				
25-29	2.7	1.7	3.6	2.9	2.2	2.2	3.2	2.2	1.6				
30-34	3.3	2.5	6.0	4.2	2.7	2.7	4.5	2.6	2.4				
35-39	4.0	3.4	4.2	5.2	4.0	4.0	5.2	3.4	2.1				
40-44	5.5	6.6	5.3	6.3	4.4	4.4	7.6	4.2	2.9				
45-49	8.3	8.2	7.1	9.3	7.2	7.2	11.2	6.1	5.0				
50-54	12.6	11.9	13.2	14.2	11.0	11.0	15.9	12.0	6.8				
55-59	16.1	13.0	15.9	16.6	14.0	14.0	19.0	13.9	13.8				
60-64	28.1	26.7	21.9	28.7	26.4	26.4	34.4	24.7	15.9				
65-69	36.1	44.2	28.3	35.2	34.9	34.9	40.9	34.1	30.8				
70+	102.2	94.3	74.2	101.2	95.5	95.5	108.3	98.4	86.1				
<b>Total</b>	<b>10.3</b>	<b>8.8</b>	<b>8.7</b>	<b>10.8</b>	<b>9.3</b>	<b>9.3</b>	<b>11.8</b>	<b>8.8</b>	<b>7.9</b>				

Table 3.5 Continued .....

Age	Background Characteristics											Standard of Living Index					
	Religion			Caste			Other Castes					Low	Medium	High			
	Hindu	Muslim	Non-Hindu-Non-Muslim	SC/ST	Other Castes	Other Castes	Other Castes										
0	68.8	68.4	57.9	76.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	78.1	63.4	30.6
1-4	8.1	8.2	7.8	9.8	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	11.4	5.7	2.0
5-9	2.6	1.5	1.2	2.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	1.6	1.1
10-14	1.5	1.9	0.6	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	1.2	0.3
15-19	3.0	1.8	2.4	3.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.7	2.0	1.9
20-24	3.4	2.5	2.3	3.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.7	2.7	1.2
25-29	3.1	2.8	2.9	4.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.9	2.9	1.4
30-34	3.0	2.2	3.3	3.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.9	2.8	0.8
35-39	3.3	2.9	2.2	3.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.4	2.3	1.6
40-44	3.7	4.4	1.5	3.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.4	4.2	2.1
45-49	5.4	5.0	4.3	5.2	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3	5.1	4.5
50-54	10.6	10.3	7.0	13.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	14.7	8.4	5.2
55-59	10.8	11.9	4.4	10.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.3	12.0	6.7
60-64	22.9	20.0	21.0	26.0	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	24.5	22.9	14.6
65-69	27.9	30.7	29.6	28.3	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	32.5	22.0	23.2
70+	111.8	110.4	67.9	118.0	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	116.0	109.5	86.4
<b>Total</b>	<b>9.6</b>	<b>8.5</b>	<b>7.0</b>	<b>10.1</b>	<b>8.7</b>	<b>8.7</b>	<b>8.7</b>	<b>10.9</b>	<b>8.4</b>	<b>7.3</b>							

**Figure 3.6: Differential in Age Specific Death Rates (ASDRs) by Religion, Caste and Standard of Living, India, 1992-98**

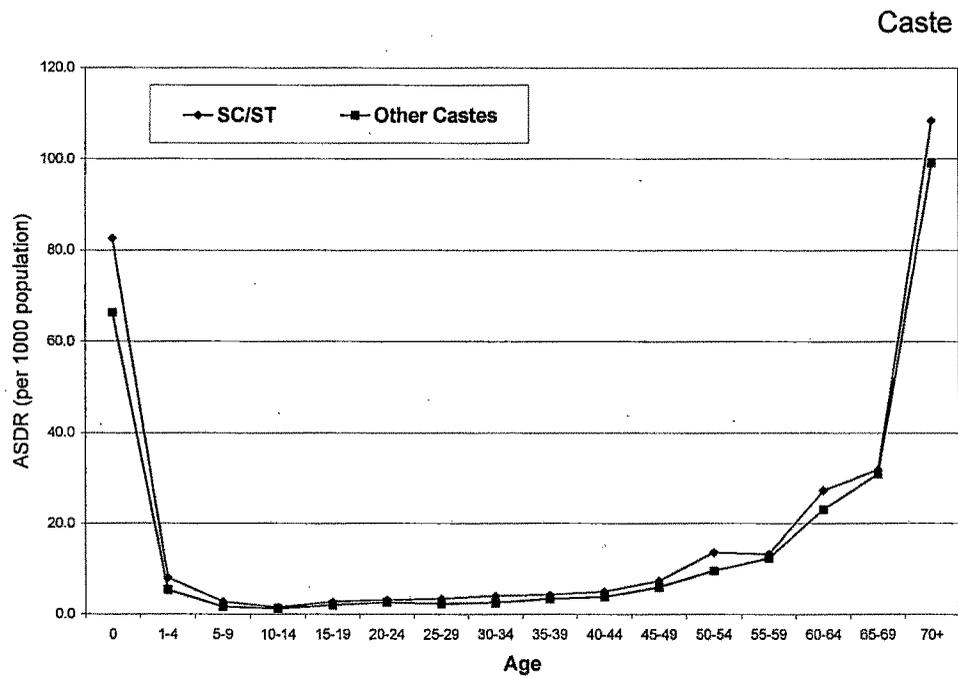
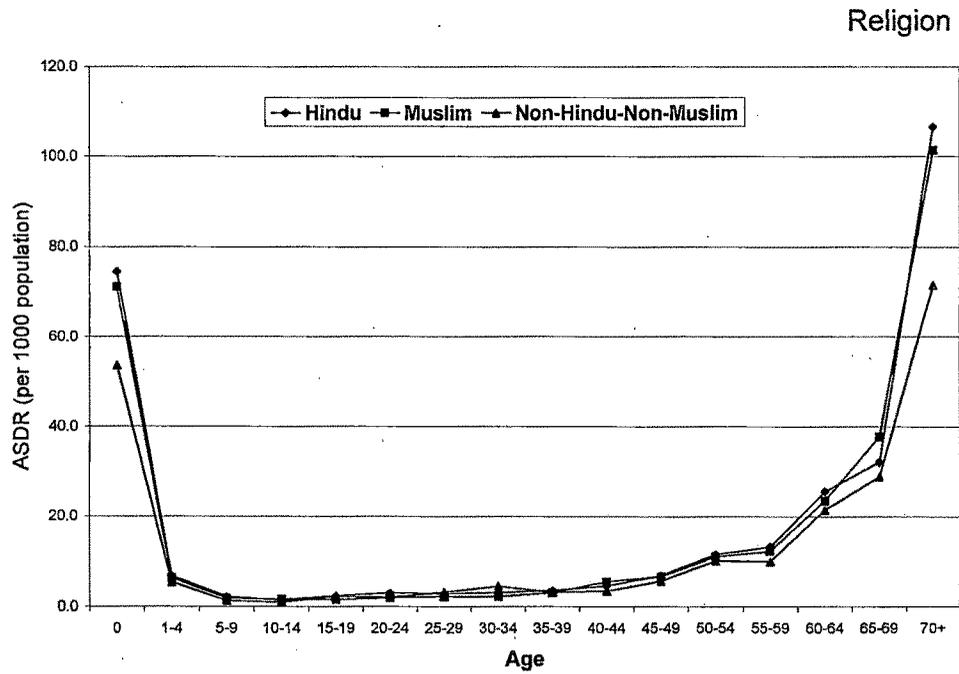
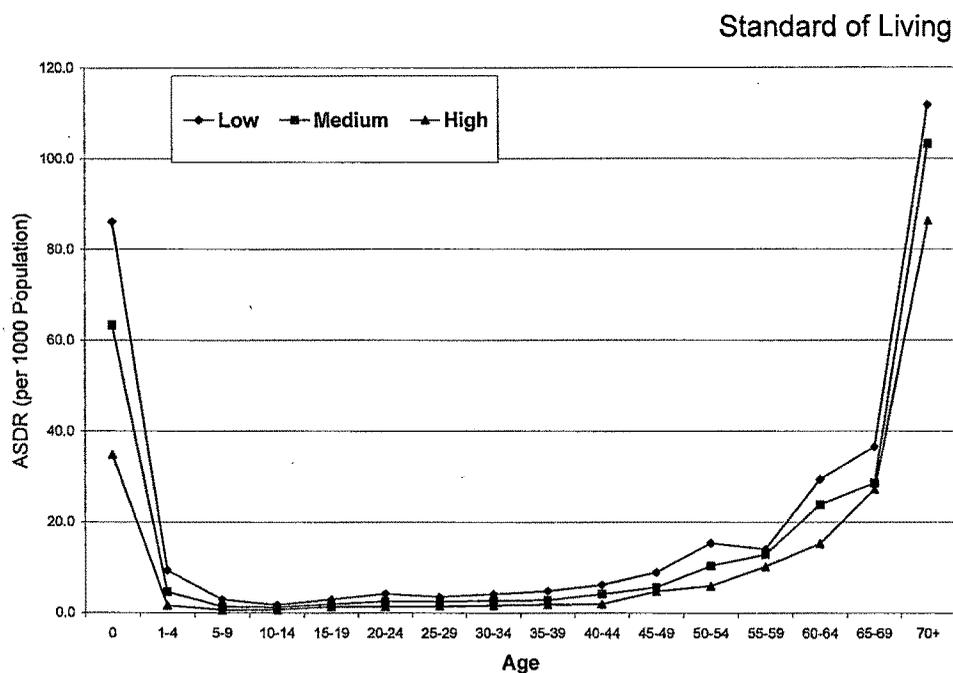


Figure 3.6 Continued .....



have a relatively lower mortality. For example, as can be seen from Table 3.5 the level of infant and child mortality is much higher among Hindus and Muslims (IMR 71-74; CMR 6-7) than that noted among other religious groups (IMR 54; CMR <6). Such differentials may largely be attributed to different socio-economic conditions between various religious groups, which are best reflected by the household standard of living index (SLI) and are discussed next.

The results on mortality differentials by SLI clearly reveal the expected pattern with substantially lower mortality rates across age and sex among those residing in households with high SLI, followed by those residing in medium SLI households (Table 3.5 and Figure 3.6). Conversely, households found on the lowest end of the index of SLI are found to have the highest mortality rates. For example, IMR is as high as 86 among the low SLI group as against 35 in the high SLI group (Table 3.5). The caste differentials in ASDRs also exhibit the social

disadvantage of SCs and STs as compared to other caste groups (Figure 3.6). Here again the level of IMR is found to be 83 among SCs/STs in comparison to a level of 66 among other caste groups (Table 3.5). As expected, among all the above referred sub-groups female advantage over male mortality is also evident across all age groups during the last decade (1992-98).

Thus, the age specific death rates at the state and regional level as well as among various sub-groups of population show the expected pattern of mortality and the combined data of NFHS on mortality give stable rates in the normative 'U' shaped curve even at the state level and among various sub-groups of population. These rates are therefore used as input data to construct life tables (as detailed earlier) at the state and regional level and for sub-groups of the population to draw conclusive results on the pattern of mortality.