SOCIAL SECURITY AREA POPULATION PROJECTIONS 1987

ACTUARIAL STUDY NO. 99

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FOREWORD

Actuarial Study No. 99 describes the population projections that underlie the long-range cost estimates for the Old-Age, Survivors, and Disability Insurance (OASDI) program, which are included in the 1987 Report of the OASDI Board of Trustees to Congress.

The reader should be aware that the population projections presented in this study differ from those published by the Bureau of the Census. The projections prepared by the Bureau of the Census are generally for only the United States including armed forces overseas. Those presented here include Puerto Rico, Guam, American Samoa, the Virgin Islands, and other U.S. citizens living abroad. In addition, the assumptions used by the Bureau of the Census in making population projections are generally not the same as the assumptions used by the Office of the Actuary.

The reader should also be aware that the historical populations referenced in this study include geographical regions and population subgroups that vary through time. Therefore, the historical populations for one particular year may not be consistent with those for an earlier or later year.

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I. INTRODUCTION

Each year estimates of future income and expenditures of the Old-Age and Survivors Insurance and Disability Insurance (OASDI) program are presented to the Congress in the Annual Report of the Board of Trustees. These estimates provide fundamental financial guidelines in the policy making process for OASDI.

The initial step in the estimating process is to project the number of people in the geographical areas covered by OASDI for each of the next 75 years. This study provides details about the population projections used in preparing the 1987 Annual Report of the OASDI Board of Trustees. The population projections were also used in estimating the future financial status of the Hospital Insurance (HI) program as described in the 1987 Annual Report of the HI Board of Trustees. The population projections described in this study supersede those published in Actuarial Study Number 97, which were used in the preparation of the 1986 Annual Reports. These new projections start from an estimate of the January 1, 1985 population; reflect more recent data on fertility, mortality, immigration, marriage, and divorce; and revise the projections of mortality, fertility, immigration, divorce, and marriage. Considerably more detail than is published here is available from the Office of the Actuary, upon request.

Because eligibility for many categories of OASDI benefits depends on marital status, the population is projected by marital status, as well as by age and sex. The projections start from a recent estimate of the population in the Social Security Area by age, sex, and marital status and from a recent estimate of existing marriages by age of husband and age of wife. Three separate projections, denoted Alternatives I, II, and III, are developed by analyzing historical data and making three different sets of assumptions about future net immigration, birth rates and death rates.

Alternative II, also referred to as the intermediate projection, is based on assumptions that are thought to be the most likely to occur among the three sets presented. Alternative I is designated as optimistic because among the three projections the assumptions selected produce the most favorable financial effect for OASDI. Conversely, the assumptions chosen for Alternative III, designated pessimistic, produce the most unfavorable financial effect. Alternatives I and III are designed to give policy makers a sense of the variability inherent in the financial projections.

II. STARTING POPULATION

The starting population for the projections was the estimated population in the Social Security Area as of January 1, 1985, by single year of age, sex, and marital status. Table 1 shows this starting population by age group, sex, and marital status.

Table 1.—January 1, 1985 Population in the Social Security Area by Age Group, Sex, and Marital Status
[In thousands]

Age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
0-4	18,831	9,637	9,637	0	0	0	9,195	9,195	0	0	0
5-9	17,412	8,912	8,912	0	0	0	8,500	8,500	0	0	0
10-14	17,846	9,132	9,131	1	0	0	8,714	8,709	4	0	1
15-19	19,113	9,749	9,597	149	1	2	9,365	8,728	589	5	43
20-24	22,115	11,264	8,539	2,532	3	189	10,851	6,352	4,091	24	385
25-29	22,683	11,552	4,620	6,187	4	740	11,132	2,941	7,253	59	878
30-34	20,322	10,466	2,321	7,122	12	1,011	9,856	1,370	7,192	100	1,194
35-39	18,285	9,073	1,001	7,081	36	954	9,212	747	7,114	110	1,240
40-44	14,572	7,225	683	5,655	32	856	7,347	411	5,653	226	1,057
45-49	12,076	6,005	430	4,908	61	605	6,071	296	4,649	320	805
50-54	11,342	5,582	389	4,576	96	521	5,761	257	4,337	495	671
55-59	11,669	5,636	390	4,617	197	432	6,033	242	4,348	841	601
60-64	11,160	5,260	347	4,277	300	337	5,900	228	3,958	1,218	496
65-69	9,287	4,245	260	3,404	352	229	5,043	214	2,833	1,670	326
70-74	7,555	3,212	184	2,486	402	140	4,344	209	1,949	1,975	210
75-79	5,475	2,123	122	1,589	362	51	3,352	191	1,038	2,015	108
80-84	3,456	1,183	67	817	271	29	2,273	140	484	1,595	54
85-89	1,851	543	30	290	203	21	1,308	81	208	988	31
90-94	748	194	11	70	103	11	554	34	60	447	13
95+	224	54	3	9	38	4	171	11	8	148	4
0-19	73,202	37,430	37,277	150	1	2	35,773	35,131	594	5	44
20-64	144,224	72,062	18,719	46,956	741	5,646	72,162	12,844	48,595	3,394	7,328
65+	28,598	11,554	676	8,663	1,730	484	17,044	880	6,580	8,837	746
20-65	146,230	72,991	18,777	47,705	809	5,700	73,239	12,889	49,239	3,706	7,405
20-66	148,153	73,884	18,833	48,423	878	5,750	74,269	12,932	49,836	4,027	7,474
20-67	150,015	74,740	18,885	49,110	950	5,796	75,275	12,974	50,400	4,361	7,539
20-68	151,791	75,544	18,933	49,752	1,021	5,837	76,247	13,016	50,927	4,705	7,599
20-69	153,511	76,306	18,979	50,360	1,093	5,875	77,205	13,058	51,428	5,064	7,654
Total	246,024	121,045	56,672	55,769	2,472	6,132	124,979	48,855	55,769	12,236	8,118

Since the most complete data were available as of July 1, the population as of January 1, 1985 was interpolated from estimates of the Social Security Area population as of July 1, 1984, and July 1, 1985. The components of the Social Security Area and the total estimated population of each component (in thousands) as of the above July 1 dates are as follows:

	July 1	
	1984	1985
Residents of the fifty States and D.C. and armed forces overseas	237,020	239,283
Adjustment for net census undercount	3,447	3,310
Civilian residents of Puerto Rico	3,266	3,277
Civilian residents of the Virgin Islands	107	111
Civilian residents of Guam	112	114
Civilian residents of American Samoa	35	36
Federal civilian employees overseas	41	62
Dependents of Armed Forces and Federal employees overseas	500	449
Crew members of merchant vessels	14	13
Other citizens overseas	500	500
Total	245,043	247,156

The estimates of the number of residents of the fifty States and D.C. and Armed Forces overseas as of the above July 1 dates by sex for single years of age through 84, and for the age group 85 and over were obtained from *Current Population Reports,* Series P-25, No. 985, published by the Bureau of the Census. The numbers of persons in the other components of the Social Security Area as of the above July 1 dates were estimated by sex for single years of age through 84, and for the age group 85 and over from data of varying detail. The adjustment for net census undercount was estimated using data published in *Current Population Reports,* Series P-25, No. 985. The numbers of civilian residents of Puerto Rico, the Virgin Islands, Guam, and American Samoa were estimated from data obtained from the Bureau of the Census. The numbers of Federal civilian employees overseas, dependents of these Federal civilian employees, and dependents of armed forces overseas were based on estimates used by the Bureau of Census. The number of crew members of merchant vessels was estimated from data obtained from the Maritime Administration. The number of other citizens overseas covered by Social Security was estimated from data supplied by the Department of State. The overlap among the components, believed to be small, was ignored.

The July 1, 1984 and July 1, 1985 Social Security Area population estimates by sex for single years of age through 84, and for the age group 85 and over were then interpolated to obtain the starting population as of January 1, 1985. The age distribution of those aged 85 and over in the starting population was assumed to be the same as that in the population enrolled under the Medicare program as of January 1, 1985. In order to bring some degree of cohort consistency for ages 60 through 85 in the resulting estimates of the Social Security Area population, adjustments were made, when necessary, to the estimated numbers of residents of the fifty states and DC and Armed Forces overseas. The adjustments were required to result in historical population survival rates that did not exceed a varying scale of rates, which ranged from .995 at age 60 to .970 at age 85. In order to accomplish this an iterative process was used to change population estimates, when necessary, by using a moving weighted average graduation formula on the cohort population data.

Table 2 shows the starting married population by age group of husband crossed with age group of wife. The distribution of the starting population by marital status (never married, currently married, currently widowed, and currently divorced) was estimated by age and sex from data published by the Bureau of the Census in *Current Population Reports,* Series P-20, No. 402. A distribution of starting married population by age of husband crossed with age of wife was estimated from data published by the Bureau of the Census in the 1980 *Census of Population* Subject Report on Marital Status No. PC80-2-4C. The distribution as shown in the 1980 census was adjusted to represent 1985 by an iterative proration method designed to assure consistency with the previously estimated starting married population by age and sex.

Table 2.—January 1, 1985 Existing Marriages in the Social Security Area by Age Group of Husband and Wife
[In thousands]

	Age group of wife															
Age group of husband	Total	14-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
14-19	150	100	40	4	1	1	1	1	1	1	0	0	0	0	0	0
20-24	2,532	390	1,773	307	40	11	4	2	2	1	1	1	0	0	0	0
25-29	6,187	76	1,788	3,722	483	80	20	7	4	2	2	1	1	0	0	0
30-34	7,122	16	359	2,515	3,599	505	93	22	7	3	2	1	0	0	0	0
35-39	7,081	5	89	520	2,420	3,509	427	77	20	7	3	2	1	1	0	0
40-44	5,655	2	24	118	446	2,236	2,431	304	64	18	6	2	1	1	0	0
45-49	4,908	1	9	38	125	514	1,932	1,902	289	66	21	8	3	1	0	0
50-54	4,576	1	4	15	47	161	512	1,656	1,706	344	91	26	8	3	1	0
55-59	4,617	1	3	7	19	60	155	478	1,587	1,783	398	90	26	7	2	1
60-64	4,277	1	2	3	7	22	52	138	469	1,511	1,626	340	82	19	4	2
65-69	3,404	0	1	2	3	8	17	42	129	439	1,301	1,134	260	54	10	5
70-74	2,486	0	0	1	1	3	7	14	42	127	379	889	818	165	27	14
75-79	1,589	0	0	0	1	1	2	5	13	36	101	266	581	460	80	42
80-84	817	0	0	0	0	0	0	1	3	7	17	46	110	222	256	153
85+	368	0	0	0	0	0	0	1	2	4	10	26	58	106	104	59
Total	55,769	594	4,091	7,253	7,192	7,114	5,653	4,649	4,337	4,348	3,958	2,833	1,949	1,038	484	276

III. ANALYSIS AND PROJECTION OF COMPONENTS OF POPULATION CHANGE

In attempting to estimate net immigration and numbers of births, deaths, marriages, and divorces in future years, it is instructive to review and analyze historical trends. Since the actual numbers of births, deaths, marriages, and divorces depend on the size of the population, it is better to analyze them as rates rather than as absolute numbers. A rate is defined as the ratio of the number of occurrences of an event during a year to the midyear population having the potential to experience the event. Because death rates vary significantly by sex, they are calculated for males and females separately. Because rates of birth, death, marriage, and divorce vary greatly by age, they are calculated on an age-specific basis (each age or age group separately) rather than on a crude basis (all ages combined). Although calculating the rates on an age-specific basis improves accuracy, it also yields an overabundance of figures for any one year. Thus in order to study trends through time, it becomes helpful, if not necessary, to use a single statistic that summarizes the age-specific rates for each year.

A. Fertility

Age-specific birth rates are defined as the births during the year to mothers at the specified age divided by the midyear female population at that age. Birth rates for women at each age 14 through 49 were obtained from the National Center for Health Statistics for each year 1917 through 1984. To summarize the fertility experience for a single year, total fertility rates were used. The total fertility rate is a simple sum of the age-specific birth rates applicable during the year. Thus the total fertility rate can be interpreted as the number of children that would be born to a woman if she were to survive her childbearing years and were to experience those age-specific birth rates throughout her childbearing years. Table 3 gives past and projected total fertility rates by alternative. Chart 1 gives past and assumed total fertility rates for 1920-2080.

Table 3.—Total Fertility Rates by Calendar Year and Alternative
[Per thousand women]

Calendar year	Total fertility rate
1920	3,263.3
1921	3,326.2
1922	3,109.4
1923	3,101.2
1924	3,120.7
1925	3,011.6
1926	2,900.7
1927	2,824.3
1928	2,659.8
1929	2,532.0
1930	2,532.5
1931	2,401.7
1932	2,318.6
1933	2,172.0
1934	2,232.0
1935	2,188.7
1936	2,145.6
1937	2,173.3
1938	2,221.7
1939	2,171.7
1940	2,229.0
1941	2,331.5
1942	2,554.8

Table 3.—Total Fertility Rates by Calendar Year and Alternative (Cont.)
[Per thousand women]

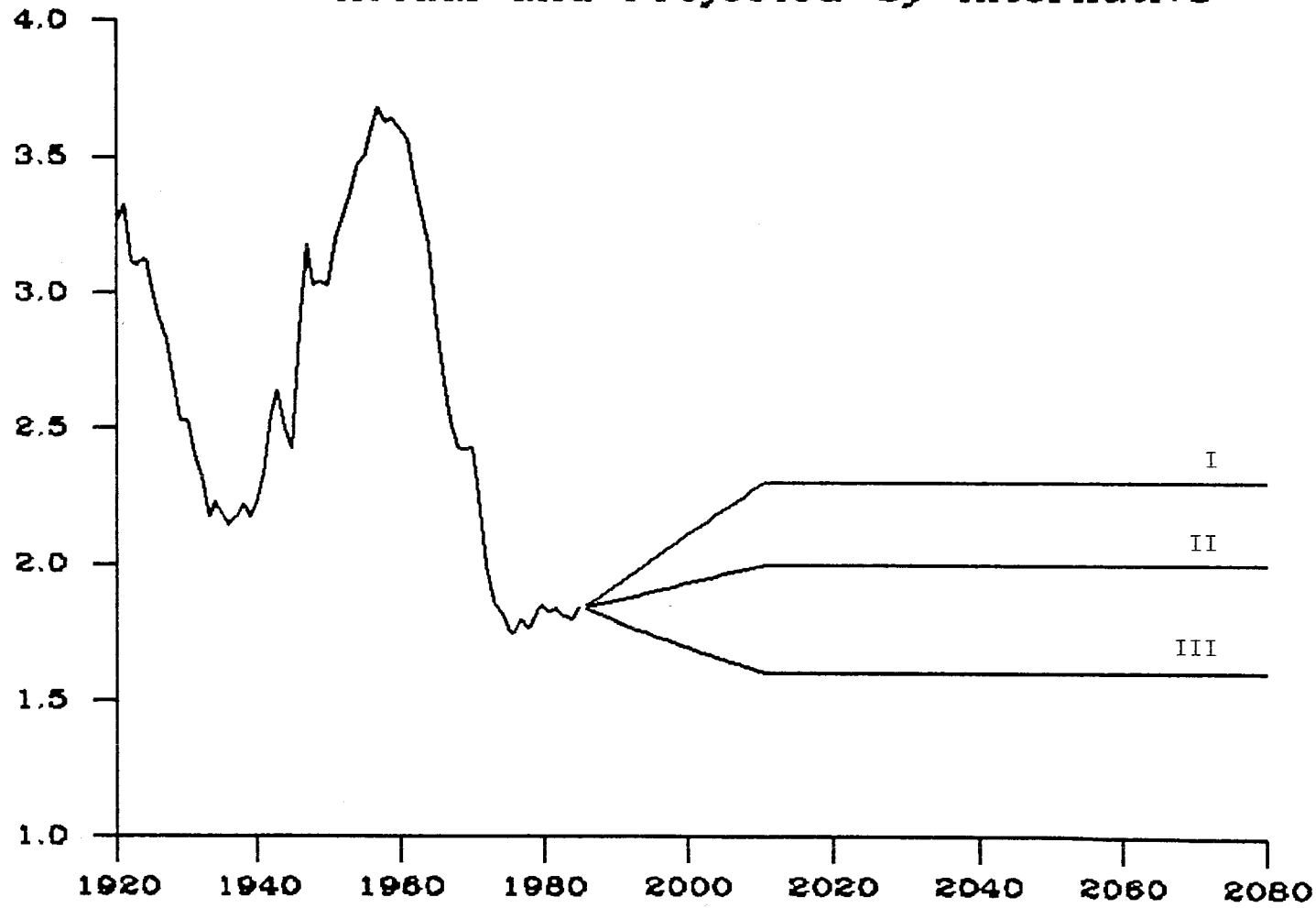
Calendar year	Total fertility rate		
1943	2,640.2		
1944	2,494.5		
1945	2,421.8		
1946	2,857.9		
1947	3,181.2		
1948	3,026.2		
1949	3,036.2		
1950	3,028.0		
1951	3,199.1		
1952	3,286.5		
1953	3,349.4		
1954	3,461.2		
1955	3,498.3		
1956	3,604.7		
1957	3,682.4		
1958	3,628.9		
1959	3,638.2		
1960	3,605.7		
1961	3,563.9		
1962	3,423.3		
1963	3,297.8		
1964	3,170.9		
1965	2,881.6		
1966	2,670.4		
1967	2,525.5		
1968	2,431.0		
1969	2,422.9		
1970	2,431.7		
1971	2,245.4		
1972	1,993.6		
1973	1,862.5		
1974	1,824.4		
1975	1,770.3		
1976	1,744.8		
1977	1,795.0		
1978	1,764.4		
1979	1,816.7		
1980	1,849.0		
1981	1,825.4		
1982	1,834.7		
1983	1,805.3		
1984	1,796.4		
1985	1,843.9		
1986	1,840.0		
	Alternative I	Alternative II	Alternative III
1987	1,858.6	1,845.5	1,826.6
1988	1,877.4	1,851.5	1,814.3
1989	1,896.1	1,857.6	1,802.7
1990	1,914.9	1,864.0	1,791.4
1991	1,933.7	1,870.4	1,780.7
1992	1,952.6	1,876.8	1,770.1
1993	1,971.3	1,883.3	1,759.9
1994	1,990.1	1,889.9	1,750.1
1995	2,008.9	1,896.5	1,740.3
1996	2,027.7	1,903.2	1,730.8
1997	2,046.5	1,909.7	1,721.3
1998	2,065.2	1,916.2	1,712.1
1999	2,083.9	1,922.7	1,703.0
2000	2,102.3	1,929.2	1,694.0
2001	2,120.6	1,935.7	1,685.1
2002	2,138.7	1,942.2	1,676.2
2003	2,156.8	1,948.8	1,667.4
2004	2,175.0	1,955.3	1,658.7
2005	2,193.2	1,962.0	1,650.2
2006	2,211.3	1,968.5	1,641.8
2007	2,229.2	1,975.0	1,633.4
2008	2,247.0	1,981.4	1,625.0
2009	2,264.8	1,987.6	1,616.6
2010	2,282.6	1,993.9	1,608.3
2011	2,300.0	2,000.0	1,600.0

Note: The total fertility rate is the average number of children that would be born to a woman if she were to survive the childbearing period and were to experience the age-specific central birth rates for the tabulated year throughout that period.

CHART 1.--Total Fertility Rate

(in children per woman), 1920–2080

Actual and Projected by Alternative



As a first step in projecting fertility, it is instructive to examine the recent history of fertility in the United States. During the period 1917 to 1925, the total fertility rate was more than three children per woman. During the period 1924 to 1933 the total fertility rate declined from 3.1 to 2.2 children per woman, and then remained level at 2.1 to 2.2 children per woman through 1940. During the next 20 years, the total fertility rate increased unsteadily to more than 3.6 children per woman. Throughout the 1960's and early 1970's, the total fertility rate declined steadily to a low point of 1.7 in 1976. Since then, the total fertility rate has been about 1.8 children per woman.

We believe that the total fertility rate will, on the average, ultimately exceed the level of the past decade. We believe this because such a low level has never been experienced in the United States over a long period of time and is below that needed to maintain the size of the population in the absence of increased net immigration. A rate of 2.1 would result in a nearly constant population if net immigration were equal to zero and if mortality rates were constant at levels close to current U.S. experience. However, we do not believe that the total fertility rate will return to the high levels of the 1940's, the 1950's, and early 1960's. Several changes in our society have occurred during the past 20 years which have contributed to reducing the number of children being born. Some of these changes are increased availability and use of birth control methods, increased female participation in the labor force, increased prevalence of divorce, increased postponement of marriage and childbearing among young women, and the shift in the perception of the status of children within their families from economic assets to economic liabilities. No significant reversal of these changes is anticipated. Recent birth expectation surveys, such as that published by the Bureau of the Census in the *Current Population Reports,* Series P-20, No. 406, are consistent with a long-range assumption for the total fertility rate in the neighborhood of 2.0-2.1 children per woman. Thus, an ultimate total fertility rate of 2.0 children per woman was selected as the intermediate (Alternative II) assumption for the 1987 Report of the Board of Trustees.

To help in selecting ultimate rates for Alternatives I and III, an examination of the recent total fertility rates in other nations is useful. A comparison of the most recent total fertility rates listed in the *Demographic Yearbook, 1981,* for the U.S., Canada, and fifteen countries in Western Europe revealed a range of 3.3 in Ireland to 1.5 in West Germany, Switzerland, and Denmark. The U.S. ranked sixth with 1.8. Two of these countries had a total fertility rate equal to or over 2.3 and five countries had a total fertility rate equal to or under 1.6. For reasons already cited, we do not believe that the total fertility rate for the U.S. will return to a level as high as 3.3 for any sustained period, and have selected 2.3 as the optimistic (Alternative I) assumption. It is plausible that the total fertility rate could be as low as 1.6 children per woman over a long period of time. Thus, we have selected 1.6 as the pessimistic (Alternative III) assumption. The ultimate total fertility rate for each alternative was assumed to be first reached in calendar year 2011. The ultimate values selected for the 1987 Trustees Report compare closely with those used by the Bureau of the Census in its latest series of population projections, published in *Current Population Reports,* Series P-25, No. 952. The Bureau of the Census used a range of 1.6 to 2.3, with an intermediate assumption of 1.9.

Total fertility rates for 1985 and 1986 were estimated from provisional data published by the National Center for Health Statistics in *Monthly Vital Statistics Reports,* Volumes 34 and 35. Between 1986 and 2011, the age-specific birth rates were projected separately for each cohort of women such that the completed cohort fertility rate would gradually approach the assumed ultimate total fertility rate. Table 4 gives the assumed age-specific birth rates by alternative for selected calendar years.

Table 4.—Central Birth Rates by Age, Calendar Year, and Alternative
[Per thousand women]

Alternative and age	Calendar year									
	1985	1986	1987	1988	1989	1990	1995	2000	2005	2011
Alternative I :										
14	6.4	6.4	6.5	6.6	6.7	6.8	7.3	7.8	8.3	8.5
15	17.1	17.1	17.3	17.5	17.7	17.9	18.9	19.9	20.9	21.5
16	32.2	32.2	32.5	32.8	33.1	33.4	34.9	36.4	37.9	39.4
17	51.7	51.6	52.1	52.6	53.1	53.6	56.1	58.6	61.1	63.6
18	72.0	71.8	72.5	73.2	73.9	74.6	78.1	81.6	85.1	88.8
19	88.1	87.9	88.8	89.7	90.5	91.3	95.3	99.3	103.3	107.9
20	99.9	99.7	100.7	101.7	102.7	103.7	108.4	112.9	117.4	122.7
21	106.5	106.3	107.4	108.5	109.6	110.6	115.6	120.6	125.6	131.5
22	111.3	111.0	112.1	113.2	114.3	115.4	120.9	126.3	131.5	138.0
23	114.8	114.5	115.7	116.9	118.1	119.3	125.0	130.5	136.0	142.6
24	116.7	116.5	117.7	118.9	120.1	121.3	127.3	132.9	138.4	145.1
25	116.8	116.6	117.8	119.0	120.2	121.4	127.4	133.3	138.8	145.7
26	115.1	114.8	115.9	117.1	118.3	119.5	125.5	131.4	136.9	143.6
27	111.8	111.5	112.6	113.7	114.8	116.0	122.0	127.7	133.2	139.8
28	106.6	106.4	107.5	108.6	109.7	110.8	116.3	121.8	127.3	133.9
29	99.4	99.1	100.1	101.1	102.1	103.1	108.5	113.9	118.9	124.9
30	89.8	89.6	90.5	91.4	92.3	93.2	98.0	103.0	107.6	113.0
31	79.0	78.9	79.7	80.5	81.3	82.1	86.3	90.8	94.9	99.7
32	67.8	67.7	68.4	69.1	69.8	70.5	74.0	77.9	81.4	85.6
33	57.1	56.9	57.5	58.1	58.7	59.3	62.3	65.3	68.3	71.9
34	46.8	46.7	47.2	47.7	48.2	48.7	51.2	53.7	56.2	59.2
35	37.1	37.0	37.4	37.8	38.2	38.6	40.6	42.6	44.6	47.0
36	28.7	28.7	29.0	29.3	29.6	29.9	31.4	32.9	34.4	36.2
37	22.0	21.9	22.1	22.4	22.7	23.0	24.2	25.3	26.8	28.5
38	16.3	16.3	16.5	16.7	16.9	17.1	18.1	19.1	20.1	21.3
39	11.8	11.8	11.9	12.0	12.1	12.2	12.7	13.2	13.7	14.3
40	8.1	8.1	8.2	8.3	8.4	8.5	9.0	9.5	10.0	10.6
41	5.3	5.3	5.3	5.3	5.3	5.4	5.9	6.4	6.9	7.5
42	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
43	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
44	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
46	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Alternative II :										
14	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
15	17.1	17.1	17.2	17.3	17.4	17.5	18.0	18.5	19.0	19.3
16	32.2	32.2	32.3	32.4	32.5	32.6	33.1	33.6	34.1	34.7
17	51.7	51.6	51.8	52.0	52.2	52.4	53.4	54.4	55.4	56.4
18	72.0	71.8	72.1	72.4	72.7	73.0	74.4	75.4	76.6	77.8
19	88.1	87.9	88.2	88.5	88.8	89.1	90.6	92.1	93.6	95.3
20	99.9	99.7	100.1	100.5	100.9	101.3	103.3	104.9	106.5	108.4
21	106.5	106.3	106.7	107.1	107.5	107.9	109.9	111.9	113.9	116.2
22	111.3	111.0	111.4	111.8	112.2	112.6	114.6	116.6	118.6	121.0
23	114.8	114.5	114.9	115.3	115.7	116.1	118.1	120.1	122.1	124.5
24	116.7	116.5	116.9	117.3	117.7	118.1	120.1	122.1	124.1	126.5
25	116.8	116.6	117.0	117.4	117.8	118.3	120.3	122.3	124.3	126.7
26	115.1	114.8	115.2	115.6	116.0	116.4	118.4	120.4	122.4	124.8
27	111.8	111.5	111.9	112.3	112.7	113.1	115.1	117.1	119.1	121.5
28	106.6	106.4	106.7	107.0	107.4	107.8	109.8	111.8	113.8	116.2
29	99.4	99.1	99.4	99.7	100.0	100.3	102.3	104.3	106.3	108.7
30	89.8	89.6	89.9	90.2	90.5	90.8	92.5	94.1	95.6	97.4
31	79.0	78.9	79.1	79.3	79.5	79.8	81.3	82.8	84.3	86.1
32	67.8	67.7	67.9	68.1	68.3	68.5	69.6	71.1	72.6	74.0
33	57.1	56.9	57.1	57.3	57.5	57.7	58.7	59.7	60.7	61.9
34	46.8	46.7	46.8	46.9	47.0	47.1	47.9	48.9	49.9	51.1
35	37.1	37.0	37.1	37.2	37.3	37.4	37.9	38.4	38.9	39.5
36	28.7	28.7	28.7	28.8	28.9	29.0	29.5	30.0	30.5	31.1
37	22.0	21.9	21.9	21.9	21.9	22.0	22.5	23.0	23.5	24.1
38	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.8	17.3	17.9
39	11.8	11.8	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
40	8.1	8.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
41	5.3	5.3	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
42	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
43	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
44	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
46	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 4.—Central Birth Rates by Age, Calendar Year, and Alternative (Cont.)
[Per thousand women]

Alternative and age	Calendar year									
	1985	1986	1987	1988	1989	1990	1995	2000	2005	2011
Alternative III :										
14	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
15	17.1	17.1	17.0	16.9	16.8	16.7	16.2	15.7	15.2	14.6
16	32.2	32.2	32.0	31.8	31.6	31.4	30.4	29.4	28.4	27.7
17	51.7	51.6	51.3	51.0	50.7	50.4	48.9	47.4	46.1	44.9
18	72.0	71.8	71.4	71.0	70.6	70.2	68.2	66.4	64.7	62.9
19	88.1	87.9	87.4	86.9	86.4	85.9	83.6	81.6	79.6	77.2
20	99.9	99.7	99.2	98.7	98.2	97.7	95.2	92.7	90.2	87.3
21	106.5	106.3	105.7	105.1	104.5	103.9	101.1	98.6	96.1	93.1
22	111.3	111.0	110.4	109.8	109.2	108.6	105.6	102.9	100.4	97.4
23	114.8	114.5	113.9	113.3	112.7	112.1	109.1	106.1	103.5	100.5
24	116.7	116.5	115.9	115.3	114.7	114.1	111.1	108.1	105.1	101.6
25	116.8	116.6	115.9	115.3	114.7	114.1	111.1	108.1	105.2	102.0
26	115.1	114.8	114.1	113.5	112.9	112.3	109.3	106.3	103.5	100.5
27	111.8	111.5	110.8	110.1	109.5	108.9	105.9	102.9	100.4	97.4
28	106.6	106.4	105.7	105.0	104.4	103.8	100.8	98.3	95.8	92.8
29	99.4	99.1	98.4	97.8	97.2	96.6	94.1	91.6	89.1	86.1
30	89.8	89.6	88.9	88.3	87.7	87.2	84.7	82.3	80.3	77.9
31	79.0	78.9	78.3	77.7	77.2	76.7	74.5	72.5	70.5	68.1
32	67.8	67.7	67.1	66.6	66.1	65.6	63.6	62.1	60.6	58.8
33	57.1	56.9	56.4	55.9	55.5	55.1	53.4	51.9	50.4	48.6
34	46.8	46.7	46.2	45.8	45.4	45.0	43.5	42.5	41.5	40.3
35	37.1	37.0	36.5	36.1	35.8	35.5	34.3	33.3	32.3	31.1
36	28.7	28.7	28.3	27.9	27.6	27.3	26.3	25.6	25.1	24.5
37	22.0	21.9	21.5	21.2	20.9	20.7	19.9	19.4	18.9	18.3
38	16.3	16.3	16.0	15.7	15.5	15.3	14.7	14.2	13.7	13.1
39	11.8	11.8	11.5	11.3	11.1	10.9	10.4	9.9	9.4	9.1
40	8.1	8.1	7.9	7.7	7.5	7.4	6.9	6.7	6.7	6.7
41	5.3	5.3	5.1	5.0	4.9	4.8	4.5	4.5	4.5	4.5
42	3.5	3.5	3.4	3.3	3.2	3.1	2.9	2.9	2.9	2.9
43	2.3	2.3	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9
44	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
45	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
46	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

The central birth rate is the ratio of the number of births during the year to mothers at the tabulated age to the midyear female population at that age.

B. Mortality

Death rates (generally referred to as *central* death rates) are defined as the number of deaths during the year divided by the midyear population. These rates were calculated by sex on an age-specific basis for each year 1900 through 1983. To summarize the mortality experience of a single year and to control for changes in the age distribution of the population from year to year, age-adjusted death rates (as shown in Table 5) were calculated as a weighted average of the age-specific death rates. The weights used were the numbers of people in the corresponding age groups of the 1980 U.S. census population. Thus, if the age-adjusted death rate for a particular year and sex is multiplied by the 1980 U.S. census population, the result gives the number of deaths that would have occurred in 1980 for the U.S. census population if the age-specific death rates for that particular year and sex had been experienced. The age-adjusted death rate is, therefore, equivalent to the crude death rate that would have been experienced in the 1980 U.S. census population.

Table 5.—Age-Adjusted Central Death Rates by Sex, Calendar Year, and Alternative
[Per hundred thousand]

Calendar year	Male	Female
1900	2,446.6	2,228.3
1901	2,410.5	2,162.8
1902	2,268.7	1,997.0
1903	2,323.5	2,070.3
1904	2,453.2	2,171.5
1905	2,367.8	2,102.4
1906	2,365.7	2,065.8
1907	2,455.2	2,133.2
1908	2,241.9	1,982.3
1909	2,193.4	1,931.2
1910	2,279.2	2,004.8
1911	2,195.7	1,944.6
1912	2,169.5	1,898.9
1913	2,176.0	1,892.0
1914	2,117.6	1,850.9
1915	2,125.6	1,875.0
1916	2,203.1	1,930.2
1917	2,224.0	1,929.6
1918	2,534.9	2,202.2
1919	1,973.6	1,810.1
1920	2,026.7	1,895.5
1921	1,845.5	1,710.4
1922	1,938.3	1,772.4
1923	2,023.5	1,846.0
1924	1,948.6	1,735.7
1925	1,974.3	1,759.8
1926	2,045.4	1,822.5
1927	1,912.4	1,674.8
1928	2,037.8	1,784.1
1929	2,008.2	1,743.1
1930	1,893.3	1,619.1
1931	1,852.0	1,567.3
1932	1,835.5	1,573.8
1933	1,808.0	1,521.3
1934	1,855.8	1,539.9
1935	1,827.8	1,508.7
1936	1,927.0	1,583.7
1937	1,860.0	1,508.9
1938	1,734.3	1,422.8
1939	1,734.9	1,417.6
1940	1,757.0	1,405.9
1941	1,699.5	1,332.4
1942	1,647.6	1,280.5
1943	1,710.0	1,330.0
1944	1,638.7	1,262.3
1945	1,613.0	1,214.7
1946	1,545.6	1,184.0
1947	1,552.2	1,167.9
1948	1,531.0	1,133.8
1949	1,492.0	1,094.8
1950	1,480.4	1,070.2
1951	1,471.1	1,056.1
1952	1,446.6	1,033.0
1953	1,444.0	1,018.2
1954	1,374.4	962.6
1955	1,393.5	970.9
1956	1,401.8	965.5
1957	1,429.2	980.0
1958	1,417.5	967.3
1959	1,398.4	943.9
1960	1,420.8	945.0
1961	1,389.6	919.6
1962	1,418.7	933.5
1963	1,452.3	941.2
1964	1,412.2	909.5
1965	1,425.2	903.0
1966	1,434.6	901.5
1967	1,406.3	872.3
1968	1,446.9	876.7
1969	1,409.9	846.4
1970	1,382.8	823.5
1971	1,373.4	817.1
1972	1,375.9	808.7
1973	1,358.4	794.7
1974	1,302.3	762.3
1975	1,259.0	727.0
1976	1,245.4	720.4

Table 5.—Age-Adjusted Central Death Rates by Sex, Calendar Year, and Alternative (Cont.)
[Per hundred thousand]

Calendar year	Male	Female
1977	1,216.1	697.3
1978	1,207.2	694.7
1979	1,171.8	670.2
1980	1,186.8	685.6
1981	1,152.9	667.1
1982	1,116.2	648.2
1983	1,125.7	656.7
1984	1,115.9	654.5
1985	1,107.9	655.5
1986	1,092.5	645.0

	Alternative I		Alternative II		Alternative III	
	Male	Female	Male	Female	Male	Female
1987	1,086.7	641.0	1,076.9	634.5	1,067.0	628.1
1988	1,081.1	637.1	1,061.8	624.5	1,042.8	612.0
1989	1,075.7	633.3	1,047.4	614.8	1,019.8	596.9
1990	1,070.5	629.7	1,033.5	605.5	998.0	582.6
1991	1,065.5	626.1	1,020.1	596.7	977.3	569.0
1992	1,060.6	622.7	1,007.3	588.2	957.7	556.3
1993	1,055.9	619.5	995.0	580.1	939.2	544.3
1994	1,051.4	616.3	983.3	572.4	921.7	533.0
1995	1,047.0	613.3	972.2	565.1	905.3	522.6
1996	1,042.8	610.4	961.8	558.4	890.1	512.9
1997	1,038.8	607.6	952.1	552.1	876.2	504.0
1998	1,034.9	604.9	943.3	546.4	863.4	496.0
1999	1,031.2	602.4	935.3	541.2	851.9	488.7
2000	1,027.6	600.0	928.2	536.7	841.5	482.1
2005	1,011.7	589.8	902.2	519.8	799.0	454.7
2010	998.0	581.4	882.2	506.5	762.5	430.8
2015	985.1	573.6	863.4	493.9	728.2	408.3
2020	972.6	566.0	845.2	481.8	695.6	387.3
2025	960.5	558.6	827.6	470.1	664.8	367.5
2030	948.6	551.4	810.5	458.8	635.5	348.9
2035	937.1	544.4	794.0	447.8	607.6	331.3
2040	925.8	537.6	777.9	437.2	581.2	314.9
2045	914.8	530.9	762.3	426.9	556.1	299.3
2050	904.1	524.5	747.1	416.9	532.2	284.7
2055	893.7	518.2	732.4	407.3	509.5	270.9
2060	883.6	512.1	718.1	397.9	487.9	258.0
2065	873.7	506.2	704.2	388.8	467.4	245.7
2070	864.0	500.4	690.7	380.0	447.9	234.2
2075	854.6	494.8	677.6	371.5	429.3	223.2
2080	845.5	489.3	664.8	363.2	411.6	213.0

Note: The age-adjusted central death rate is the weighted average of the age specific central death rates for a particular sex and year. The weights are the number of people in the corresponding age groups of the 1980 U.S. census population.

An examination of the age-adjusted death rates since 1900 reveals four distinct periods of mortality reduction. During the period 1900 to 1936, annual mortality reduction averaged about 0.8 percent for males and 0.9 percent for females. Following this was a period of rapid reduction, 1936-1954, in which mortality decreased an average of 1.6 percent per year for males and 2.5 percent for females. The period 1954 to 1968 saw an actual increase for males of 0.2 percent per year and a much slower reduction of 0.8 percent per year for females. From 1968 through 1983 rapid reduction in mortality resumed averaging 1.8 percent for males and 2.0 percent for females, annually. However, final statistics for 1983 and provisional statistics for 1984 and 1985 show a stabilization of the age-adjusted death rates.

Age-sex-adjusted death rates are often calculated when one is interested in summarizing death rates for both sexes combined. Age-sex-adjusted death rates (as shown in Table 6) were calculated as a weighted average of the age-sex-specific death rates, where each weight was the number of people in the corresponding

age and sex group of the 1980 U.S. census population.

Table 6. Age-Sex-Adjusted Central Death Rates by Calendar Year, and Alternative
[Per hundred thousand]

Calendar year	Age-sex-adjusted death rate
1900	2,339.6
1901	2,290.2
1902	2,133.7
1903	2,199.6
1904	2,314.4
1905	2,238.0
1906	2,222.2
1907	2,303.0
1908	2,118.9
1909	2,067.2
1910	2,149.1
1911	2,076.9
1912	2,041.2
1913	2,041.7
1914	1,990.3
1915	2,005.1
1916	2,073.6
1917	2,083.8
1918	2,378.7
1919	1,893.5
1920	1,961.8
1921	1,780.5
1922	1,859.4
1923	1,939.7
1924	1,845.8
1925	1,870.5
1926	1,937.8
1927	1,795.9
1928	1,914.3
1929	1,878.5
1930	1,758.1
1931	1,710.2
1932	1,705.5
1933	1,665.1
1934	1,699.3
1935	1,669.6
1936	1,757.8
1937	1,686.5
1938	1,580.4
1939	1,577.8
1940	1,583.2
1941	1,516.4
1942	1,466.1
1943	1,521.3
1944	1,454.0
1945	1,417.6
1946	1,367.7
1947	1,361.3
1948	1,333.4
1949	1,294.6
1950	1,275.5
1951	1,265.3
1952	1,243.2
1953	1,234.0
1954	1,171.5
1955	1,185.1
1956	1,185.6
1957	1,206.4
1958	1,193.5
1959	1,172.2
1960	1,182.8
1961	1,153.7
1962	1,174.2
1963	1,193.6
1964	1,158.9
1965	1,160.8
1966	1,165.0
1967	1,135.8
1968	1,156.3
1969	1,122.9
1970	1,097.2
1971	1,088.6
1972	1,085.4
1973	1,069.2
1974	1,025.4

Table 6. Age-Sex-Adjusted Central Death Rates by Calendar Year, and Alternative (Cont.)
[Per hundred thousand]

Calendar year	Age-sex-adjusted death rate		
1975	985.4		
1976	974.5		
1977	948.0		
1978	942.3		
1979	912.4		
1980	926.8		
1981	900.6		
1982	872.9		
1983	880.7		
1984	874.6		
1985	872.7		
1986	859.4		
	Alternative I	Alternative II	Alternative III
1987	854.3	846.1	837.9
1988	849.0	833.0	817.3
1989	843.9	820.5	797.8
1990	838.9	808.4	779.2
1991	834.1	796.8	761.7
1992	829.5	785.7	745.1
1993	825.0	775.0	729.4
1994	820.6	764.9	714.6
1995	816.4	755.3	700.8
1996	812.3	746.2	688.0
1997	808.5	737.8	676.2
1998	804.8	730.1	665.6
1999	801.2	723.3	655.9
2000	797.9	717.1	647.2
2005	783.9	695.0	612.0
2010	772.8	678.4	582.1
2015	762.6	663.0	554.3
2020	752.6	648.0	528.0
2025	742.9	633.6	503.1
2030	733.5	619.5	479.6
2035	724.3	606.0	457.3
2040	715.4	592.8	436.3
2045	706.6	580.0	416.3
2050	698.2	567.6	397.5
2055	689.9	555.6	379.6
2060	681.9	544.0	362.7
2065	674.0	532.7	346.6
2070	666.4	521.7	331.4
2075	659.0	511.0	317.0
2080	651.7	500.6	303.3

Note: The age-sex-adjusted central death rate is the weighted average of the age-sex-specific central death rates for a particular year. The weights are the number of people in the corresponding age and sex groups of the 1980 U.S. census population.

Past reduction in mortality has varied greatly by cause of death. Because it is expected that future reduction in mortality rates will also vary greatly by cause of death, death rates for the years 1968 through 1983 were calculated and analyzed by age group and sex for ten groups of causes of death (based on the Ninth Revision of the International List of Diseases and Causes of Death code numbers). These groups of causes of death are as follows:

I. Diseases of the Heart (390-398, 402, 404-429)
II. Malignant Neoplasms (140-208)
III. Vascular Diseases (400-401, 403, 430-459, 582-583, 587)
IV. Accidents, Suicide, and Homicide (E800-E989)
V. Diseases of the Respiratory System (460-519)
VI. Congenital Malformations and Diseases of Early Infancy (740-779)
VII. Diseases of the Digestive System (520-570, 572-579)
VIII. Diabetes Mellitus (250)
IX. Cirrhosis of the Liver (571)
X. All Other Causes

For the years 1968-1983, death rates for ages under 65 by age group, sex, and cause of death were calculated

using the numbers of deaths as tabulated in *Vital Statistics* of the United States and using the latest census estimates of the resident population as published in the P-25 Series of *Current Population Reports.* For the years 1968 through 1978, an adjustment was made to the distribution of the numbers of deaths among the ten causes. This adjustment was needed in order to reflect the revision in the cause of death coding that occurred in 1979, thereby making the data for the years 1968 through 1978 more comparable with the coding used for the years 1979 and later. The adjustments were based on comparability ratios published by the National Center for Health Statistics in *Monthly Vital Statistics Report,* Volume 28, Number 11. For the ages 65 and over, records of the Medicare program were used to determine rates by age and sex. The numbers of deaths by cause in *Vital Statistics of the United States* were used to distribute the age-sex specific death rates for ages over 65 into age-sex-cause specific death rates. A detailed analysis of Medicare mortality statistics and a comparison to the statistics provided by the National Center for Health Statistics is contained in 'Recent Trends in the Mortality of the Aged' by John C. Wilkin in the *Transactions of the Society of Actuaries,* Volume XXXIII.

Average annual reductions in mortality were determined for the period 1968-1983 by age group, sex, and cause of death. The values, shown in Table 7, were calculated as the complement of the exponential of the slope of the least-squares line through the logarithms of the death rates. The sharpest reductions were in the category of Congenital Malformations and Diseases of Early Infancy and in the category of Vascular Disease, averaging 4.7 to 5.1 percent per year. Diabetes Mellitus averaged about 3 percent reduction per year. Averaging 2 to 2.5 percent average reduction per year were Heart Diseases, and Violence. At about 1.5 to 2 percent average reduction per year were Digestive Disease and Cirrhosis of the Liver, while Respiratory Diseases averaged about 1 percent reduction per year. Malignant Neoplasms and the residual group of other Causes were the only causes from the above group for which mortality increased during this period, increasing at about .5 and .25 percent per year, respectively.

Table 7.—Average Annual Percentage Reductions in Central Death Rates During 1968-83 by Age Group, Sex, and Cause of Death

Sex and age group	Cause of death										
	Total	Heart disease	Cancer	Vascular disease	Violence	Respiratory disease	Infancy	Digestive disease	Diabetes mellitus	Cirrhosis (liver)	Other
Male:											
0	4.90	-4.62	2.36	.65	6.05	13.26	5.71	6.55	7.70	1.87	-4.24
1-4	2.90	-2.85	3.86	6.81	2.15	9.13	1.93	1.41	8.22	4.47	2.25
5-9	3.49	-.13	3.56	6.63	3.13	7.81	4.77	4.92	8.00	7.88	2.94
10-14	2.95	.49	2.61	9.04	2.69	6.23	3.05	4.51	6.28	4.76	2.81
15-19	1.83	.64	2.98	7.87	1.34	7.09	3.19	7.81	7.73	9.54	3.32
20-24	1.72	1.20	3.18	7.56	1.17	7.01	3.06	7.14	5.31	5.07	3.51
25-29	1.04	1.50	2.42	6.40	.49	5.52	3.26	6.37	4.89	1.21	.35
30-34	1.71	3.08	2.16	6.61	.91	5.26	3.17	5.10	4.05	2.38	.66
35-39	2.64	3.76	1.98	6.49	1.58	6.16	3.10	4.55	3.48	3.17	1.80
40-44	2.86	3.60	1.32	6.18	1.93	5.84	3.49	4.23	2.73	3.28	1.99
45-49	2.64	3.33	.39	5.42	2.28	5.20	4.34	3.82	2.52	2.92	1.81
50-54	2.27	3.03	-.23	5.40	2.41	4.28	4.45	3.31	2.57	2.30	1.29
55-59	2.33	3.03	-.12	5.57	3.14	3.55	3.59	3.49	2.33	2.45	1.37
60-64	2.22	2.90	-.25	5.48	3.41	2.88	2.04	3.34	2.63	2.10	1.10
65-69	1.63	2.29	-.84	5.01	3.03	1.33	.70	2.82	2.60	.78	.30
70-74	1.42	2.05	-1.09	4.69	2.64	.56	-.07	2.37	2.54	-.23	-.44
75-79	1.29	1.87	-1.22	4.33	2.25	-.24	.11	2.04	2.38	-.06	-1.11
80-84	1.32	1.81	-1.31	4.40	2.54	-1.05	-1.33	1.36	2.40	-.26	-1.50
85-89	1.39	1.75	-1.54	4.46	2.72	-1.37	2.04	.33	2.44	.82	-1.45
90-94	1.42	1.59	-1.90	4.41	3.08	-.86	-2.10	-.48	.78	1.27	-1.39
Total	1.76	2.19	-.72	4.70	1.92	.92	5.35	2.29	2.48	1.84	-.20
Female:											
0	4.54	-3.79	3.62	1.19	6.07	13.42	5.11	6.22	10.00	3.29	-3.98
1-4	3.28	-2.94	4.07	6.23	2.43	9.39	2.63	.38	4.08	10.62	2.96
5-9	3.45	-.17	3.80	5.64	2.89	7.81	4.93	3.94	6.14	8.79	2.69
10-14	2.85	.69	3.07	7.63	1.89	6.83	2.16	7.13	6.70	10.77	2.92
15-19	1.95	1.72	2.39	7.63	.75	6.11	3.76	7.02	6.02	10.26	3.61
20-24	2.00	1.45	2.37	7.80	.43	6.88	3.09	8.42	6.59	5.32	3.55
25-29	2.40	2.49	2.15	7.57	.70	6.46	3.10	6.90	4.84	3.21	3.22
30-34	3.43	4.17	2.03	8.59	1.80	6.94	3.62	6.81	4.51	4.98	3.83
35-39	3.79	4.56	2.09	7.69	2.56	6.55	1.93	6.10	3.65	5.65	4.44
40-44	3.32	3.58	1.72	6.58	2.70	6.02	3.69	4.75	3.37	5.40	3.61
45-49	2.69	2.93	1.27	5.67	2.75	4.43	4.29	3.85	3.38	4.38	2.66
50-54	2.00	2.68	.34	5.32	2.92	2.70	3.23	3.05	3.15	3.16	1.96
55-59	1.75	2.77	-.15	5.25	2.99	1.17	3.50	2.89	3.41	2.24	1.39
60-64	1.37	2.51	-.88	5.03	3.37	-.69	2.46	2.37	3.39	.89	.34
65-69	1.16	2.29	-1.44	4.86	2.93	-2.03	1.01	1.66	3.40	-.94	-.61
70-74	1.70	2.58	-1.01	5.04	3.09	-1.74	-.35	1.47	3.83	-1.43	-1.10
75-79	2.14	2.64	-.42	5.02	3.87	-.61	-1.55	1.34	3.97	-1.26	-1.62
80-84	2.24	2.46	-.28	4.72	4.55	.28	-.87	.65	3.21	-.68	-1.90
85-89	2.10	2.12	-.27	4.38	5.09	.55	-1.03	-.28	2.13	.06	-2.18
90-94	1.75	1.58	-.78	3.93	5.58	.78	-3.13	-1.28	.07	1.25	-2.20
Total	2.03	2.34	-.32	4.74	2.67	1.01	4.81	1.50	3.28	2.05	-.29

Note: The average annual percentage reduction is the complement of the exponential of the least-squares line through the logarithms of the central death rates.

Future improvements in mortality will depend upon such factors as the development and application of new diagnostic, surgical, and life-sustaining techniques, the presence of enviornmental pollutants, improvements in exercise and nutrition, the incidence of violence, the isolation and treatment of causes of disease, the emergence of new forms of disease, improvements in prenatal care, the prevalence of cigarette smoking, the misuse of drugs (including alcohol), the extent to which people assume responsibility for their own health, and changes in our conception of the value of life. After considering how these and other factors might affect mortality, we postulated three alternative sets of ultimate annual percentage reductions in death rates by sex and cause of death for the years 2011 and later. These ultimate annual percentage reductions are as follows:

Assumed Ultimate Annual Percentage Reductions in Death Rates by Alternative, Sex, and Causes

Alternative and sex	Cause									
	I	II	III	IV	V	VI	VII	VIII	IX	X
Alternative I:										
Male	0.5	0.0	0.8	0.2	0.1	0.8	0.5	0.2	0.1	0.0
Female	0.5	0.0	0.8	0.2	0.1	0.8	0.5	0.2	0.1	0.0
Alternative II:										
Male	0.7	0.2	1.1	0.3	0.2	1.5	0.7	0.4	0.2	0.2
Female	0.7	0.3	1.2	0.4	0.3	1.5	0.7	0.5	0.2	0.2
Alternative III:										
Male	1.0	1.2	1.5	0.6	0.4	2.0	1.0	0.8	0.4	0.4
Female	1.0	1.5	1.7	0.8	0.5	2.0	1.0	1.0	0.4	0.4

Rapid reductions in infant mortality are expected to continue in the future. However, for the total under 65 age group, future reductions are projected to be relatively small compared with past reductions because very little additional improvement in infectious diseases (such as poliomyelitis and influenza) is possible and because only a small reduction in mortality from violent causes (accidents, suicide, and homicide) is expected. Reductions for the aged are expected to continue at a relatively rapid pace, as further advances are made against degenerative diseases (such as heart and vascular disease). The gap between male and female mortality is expected to stabilize as women become increasingly subject to many of the same enviornmental hazards and social pressures as men. After adjustment for changes in the age and sex distribution of the population, Alternative II mortality is projected to decrease at an average rate of about 0.6 percent per year during the period 1985-2061. This is about half the average annual reduction observed during 1900-1985. During the period 1985-2061, Alternative I mortality is projected to decrease at a rate about one-fourth the average rate observed during 1900-1985, while for Alternative III mortality, the average annual reductions during these two periods are almost the same.

Death rates for ages under 65 by age group, sex, and cause of death for 1984 were estimated from provisional data published by the National Center for Health Statistics in *Monthly Vital Statistics Reports,* Volume 33. For ages over 65, 1984 Medicare data was used. Death rates for 1985 were assumed to change from 1984 by amounts estimated from data published in *Monthly Vital Statistics Reports,* Volume 34. Death rates were projected by age group, sex, and cause of death from their estimated 1985 levels by applying annual percentage reductions. For all three alternatives, the annual reductions that were applied to obtain the 1986 levels were the average annual reductions observed for the 1968-1983[1] period. The annual reductions that were applied to obtain the 1987 levels were 50 percent, 100 percent, and 150 percent of the average annual reductions during 1968-1983 for Alternatives I, II, and III, respectively. The annual reductions that were assumed to apply during 1987-2010 were calculated by a logarithmic formula designed to gradually transform the reductions applied to obtain the 1987 levels into the postulated ultimate annual reductions. The ultimate reductions were assumed to apply during 2011-2080. Table 8 gives the resulting death rates by age group, sex, and alternative for selected years.

[1]The average annual reductions for the "All Other" category for age 0 were calculated using the period 1974-1983, rather than 1968-1983. This was done because a distinct shift occurred in 1974, making the earlier data inappropriate for this category.

Table 8.—Central Death Rates by Age Group, Sex, Calendar Year, and Alternative

[Per hundred thousand]

Alternative, sex, and age group	Calendar year										
	1985	1990	2000	2010	2020	2030	2040	2050	2060	2070	2080
Alternative I :											
Male:											
0	1,177.6	1,042.1	890.7	834.4	795.5	759.5	726.2	695.4	666.8	640.4	615.8
1-4	56.8	53.0	48.1	46.1	44.9	43.9	42.9	41.9	41.0	40.1	39.3
5-9	31.3	28.3	24.4	23.3	22.8	22.4	22.0	21.7	21.3	21.0	20.6
10-14	35.2	32.4	28.4	27.2	26.7	26.2	25.8	25.3	24.9	24.4	24.0
15-19	116.4	110.5	102.1	98.3	96.4	94.6	92.8	91.0	89.3	87.6	86.0
20-24	163.6	156.1	145.1	140.0	137.2	134.6	132.0	129.5	127.0	124.7	122.3
25-29	172.5	168.0	161.4	157.3	154.3	151.5	148.7	146.0	143.3	140.8	138.3
30-34	185.6	177.3	165.3	159.7	156.7	153.8	151.0	148.2	145.6	143.0	140.5
35-39	236.5	219.6	196.2	187.7	183.8	180.1	176.5	173.0	169.7	166.5	163.4
40-44	348.1	321.2	284.1	270.9	264.9	259.1	253.6	248.4	243.3	238.4	233.8
45-49	509.0	473.1	423.7	404.9	395.5	386.7	378.2	370.2	362.5	355.1	348.1
50-54	844.7	796.2	730.7	704.6	688.7	673.5	659.1	645.4	632.3	619.8	608.0
55-59	1,316.2	1,238.8	1,134.0	1,092.9	1,068.3	1,045.0	1,022.8	1,001.7	981.6	962.5	944.4
60-64	2,078.4	1,965.1	1,813.3	1,750.8	1,710.6	1,672.5	1,636.3	1,601.9	1,569.2	1,538.2	1,508.6
65-69	3,186.6	3,081.1	2,953.8	2,872.9	2,806.5	2,743.5	2,683.7	2,626.9	2,572.9	2,521.6	2,472.9
70-74	4,792.8	4,674.9	4,550.5	4,437.7	4,330.8	4,229.4	4,133.2	4,041.9	3,955.3	3,873.1	3,795.0
75-79	7,308.7	7,172.3	7,057.8	6,895.1	6,720.3	6,554.6	6,397.6	6,248.7	6,107.5	5,973.6	5,846.5
80-84	10,935.3	10,761.4	10,666.1	10,416.8	10,135.6	9,869.1	9,616.6	9,377.3	9,150.4	8,935.3	8,731.3
85-89	15,749.1	15,506.5	15,402.8	15,024.7	14,594.9	14,187.7	13,802.0	13,436.5	13,090.1	12,761.8	12,450.3
90-94	22,547.1	22,142.2	21,867.5	21,261.9	20,605.5	19,984.0	19,395.6	18,838.3	18,310.4	17,810.1	17,335.9
Female:											
0	927.0	827.5	712.3	666.4	634.2	604.3	576.8	551.2	527.6	505.6	485.4
1-4	45.1	41.7	37.4	35.8	34.8	34.0	33.2	32.4	31.6	30.9	30.3
5-9	23.0	20.9	18.1	17.3	17.0	16.7	16.4	16.1	15.8	15.6	15.4
10-14	21.4	19.8	17.6	16.9	16.5	16.2	16.0	15.7	15.4	15.2	14.9
15-19	43.0	40.9	37.9	36.7	36.0	35.3	34.7	34.0	33.4	32.9	32.3
20-24	51.4	49.0	45.9	44.6	43.8	43.0	42.2	41.4	40.7	40.0	39.3
25-29	60.2	56.6	51.8	50.0	49.1	48.3	47.4	46.6	45.8	45.1	44.4
30-34	72.1	65.8	57.5	55.1	54.2	53.4	52.6	51.8	51.1	50.3	49.6
35-39	107.5	96.8	83.0	79.4	78.2	77.0	75.9	74.8	73.8	72.8	71.9
40-44	175.7	160.1	139.6	133.6	131.4	129.4	127.5	125.6	123.9	122.2	120.6
45-49	281.8	261.3	233.2	223.9	220.2	216.7	213.5	210.3	207.4	204.5	201.9
50-54	465.8	441.6	407.7	394.1	387.6	381.5	375.8	370.3	365.1	360.2	355.5
55-59	713.2	684.0	644.7	628.6	618.2	608.4	599.0	590.1	581.6	573.6	565.9
60-64	1,146.3	1,123.2	1,104.5	1,087.3	1,068.0	1,049.7	1,032.3	1,015.7	1,000.0	985.1	970.9
65-69	1,700.4	1,694.7	1,723.7	1,704.8	1,671.8	1,640.5	1,610.7	1,582.5	1,555.6	1,530.2	1,505.9
70-74	2,610.8	2,551.0	2,510.0	2,459.9	2,403.3	2,349.7	2,298.8	2,250.5	2,204.8	2,161.4	2,120.2
75-79	4,057.2	3,884.3	3,682.2	3,565.8	3,467.0	3,373.6	3,285.2	3,201.5	3,122.2	3,047.2	2,976.1
80-84	6,644.2	6,320.2	5,913.5	5,679.2	5,497.0	5,325.0	5,162.5	5,008.9	4,863.6	4,726.2	4,596.2
85-89	11,545.8	11,029.6	10,382.5	9,946.2	9,598.7	9,271.1	8,961.7	8,669.3	8,393.1	8,132.0	7,885.2
90-94	18,288.9	17,673.7	16,939.1	16,249.2	15,644.9	15,075.2	14,537.2	14,029.0	13,548.9	13,095.2	12,666.3
Alternative II :											
Male:											
0	1,177.6	955.9	714.1	644.5	593.7	549.0	509.7	474.9	444.1	416.7	392.3
1-4	56.8	50.3	41.3	38.4	36.7	35.1	33.7	32.3	31.1	29.9	28.8
5-9	31.3	26.5	19.9	18.6	17.9	17.4	16.8	16.3	15.8	15.3	14.8
10-14	35.2	30.6	24.0	22.4	21.6	20.9	20.3	19.6	19.0	18.4	17.9
15-19	116.4	106.8	91.9	86.7	84.0	81.4	78.9	76.5	74.2	72.0	69.8
20-24	163.6	151.3	131.8	124.6	120.7	117.1	113.5	110.1	106.8	103.6	100.5
25-29	172.5	165.1	153.2	146.8	142.3	138.0	133.8	129.8	125.9	122.1	118.5
30-34	185.6	172.0	150.9	142.9	138.4	134.1	130.0	126.1	122.2	118.6	115.0
35-39	236.5	209.0	169.3	158.3	152.8	147.7	142.7	138.0	133.5	129.2	125.1
40-44	348.1	304.4	242.1	225.3	216.9	209.0	201.5	194.4	187.5	181.1	174.9
45-49	509.0	450.8	368.0	343.8	330.5	317.9	306.1	294.8	284.1	274.0	264.3
50-54	844.7	763.7	648.9	613.3	589.6	567.3	546.1	526.0	506.9	488.9	471.7
55-59	1,316.2	1,188.8	1,009.5	954.5	917.5	882.6	849.6	818.3	788.6	760.5	733.8
60-64	2,078.4	1,887.9	1,618.8	1,532.1	1,471.8	1,414.9	1,361.1	1,310.3	1,262.2	1,216.5	1,173.3
65-69	3,186.6	2,980.5	2,680.3	2,551.5	2,449.7	2,353.8	2,263.2	2,177.6	2,096.7	2,020.1	1,947.5
70-74	4,792.8	4,532.9	4,155.2	3,965.0	3,803.0	3,650.4	3,506.5	3,370.8	3,242.6	3,121.5	3,006.9
75-79	7,308.7	6,960.9	6,461.3	6,177.6	5,917.8	5,673.5	5,443.6	5,227.0	5,022.9	4,830.3	4,648.4
80-84	10,935.3	10,419.9	9,699.7	9,264.7	8,860.3	8,480.8	8,124.3	7,789.1	7,473.7	7,176.6	6,896.6
85-89	15,749.1	14,995.6	13,961.2	13,316.9	12,714.6	12,150.1	11,620.6	11,123.5	10,656.4	10,217.2	9,803.8
90-94	22,547.1	21,433.4	19,867.4	18,878.2	17,978.1	17,136.1	16,347.8	15,609.3	14,916.7	14,266.7	13,656.2
Female:											
0	927.0	763.5	575.3	516.3	473.3	435.5	402.4	373.1	347.3	324.4	304.1
1-4	45.1	39.3	31.4	29.0	27.5	26.1	24.9	23.7	22.6	21.6	20.6
5-9	23.0	19.6	14.9	13.8	13.2	12.7	12.2	11.7	11.2	10.8	10.4
10-14	21.4	18.8	15.0	13.9	13.3	12.8	12.3	11.8	11.3	10.9	10.4
15-19	43.0	39.5	34.4	32.4	31.1	29.9	28.7	27.6	26.5	25.5	24.5
20-24	51.4	47.6	42.3	40.1	38.5	37.0	35.6	34.2	32.8	31.6	30.4
25-29	60.2	54.4	46.2	43.4	41.7	40.1	38.6	37.1	35.7	34.3	33.1
30-34	72.1	61.9	48.2	44.8	43.1	41.5	39.9	38.5	37.1	35.7	34.4
35-39	107.5	90.3	67.9	62.8	60.4	58.1	55.9	53.8	51.8	49.9	48.1
40-44	175.7	150.6	116.5	107.9	103.6	99.5	95.7	92.0	88.6	85.2	82.1

Table 8.—Central Death Rates by Age Group, Sex, Calendar Year, and Alternative (Cont.)
[Per hundred thousand]

Alternative, sex, and age group	Calendar year										
	1985	1990	2000	2010	2020	2030	2040	2050	2060	2070	2080
Alternative II : (Cont.)											
Female: (Cont.)											
45-49	281.8	248.6	200.8	186.6	179.1	172.0	165.3	158.9	152.8	147.0	141.5
50-54	465.8	426.5	368.4	347.2	333.3	320.1	307.6	295.8	284.5	273.8	263.5
55-59	713.2	663.8	592.8	564.7	542.1	520.6	500.2	480.9	462.4	444.9	428.2
60-64	1,146.3	1,090.1	1,014.2	973.3	933.2	895.3	859.3	825.2	792.9	762.1	732.9
65-69	1,700.4	1,640.3	1,568.4	1,510.5	1,446.3	1,385.7	1,328.2	1,273.9	1,222.4	1,173.6	1,127.3
70-74	2,610.8	2,457.8	2,259.4	2,158.2	2,060.7	1,968.9	1,882.4	1,800.9	1,723.9	1,651.1	1,582.3
75-79	4,057.2	3,729.8	3,285.1	3,103.4	2,951.7	2,809.7	2,676.5	2,551.5	2,434.1	2,323.8	2,219.9
80-84	6,644.2	6,060.2	5,241.0	4,906.9	4,647.1	4,405.0	4,179.0	3,967.9	3,770.5	3,585.8	3,412.7
85-89	11,545.8	10,592.4	9,218.3	8,596.0	8,116.3	7,670.7	7,256.1	6,869.9	6,509.8	6,173.8	5,860.0
90-94	18,288.9	17,052.4	15,203.3	14,172.1	13,346.3	12,580.7	11,869.6	11,208.4	10,593.3	10,020.4	9,486.4
Alternative III:											
Male:											
0	1,177.6	877.8	593.9	525.4	473.6	429.2	391.1	358.1	329.5	304.4	282.4
1-4	56.8	47.7	35.6	31.8	29.4	27.2	25.3	23.5	21.9	20.4	19.0
5-9	31.3	24.7	16.4	14.6	13.6	12.7	11.8	11.1	10.3	9.7	9.1
10-14	35.2	28.9	20.2	18.1	16.8	15.7	14.7	13.7	12.8	12.0	11.2
15-19	116.4	103.2	82.8	75.4	70.7	66.4	62.3	58.5	55.0	51.7	48.6
20-24	163.6	146.6	119.9	109.4	102.7	96.5	90.7	85.2	80.1	75.3	70.8
25-29	172.5	162.3	145.8	135.5	127.3	119.7	112.5	105.8	99.6	93.7	88.2
30-34	185.6	166.9	138.2	126.3	118.5	111.1	104.3	98.0	92.0	86.5	81.3
35-39	236.5	199.0	146.7	131.5	122.4	114.0	106.3	99.2	92.6	86.6	80.9
40-44	348.1	288.5	207.3	184.0	169.6	156.6	144.7	133.8	123.9	114.8	106.5
45-49	509.0	429.6	322.5	287.8	262.5	239.7	219.1	200.5	183.6	168.4	154.6
50-54	844.7	732.9	580.1	519.9	471.8	428.6	389.7	354.6	323.1	294.7	269.0
55-59	1,316.2	1,141.3	905.4	810.7	733.5	664.2	602.0	546.2	496.0	450.8	410.2
60-64	2,078.4	1,814.6	1,454.6	1,302.8	1,178.1	1,066.3	966.0	876.0	795.1	722.4	657.0
65-69	3,186.6	2,883.8	2,436.7	2,194.7	1,988.9	1,804.2	1,638.3	1,489.2	1,355.1	1,234.4	1,125.7
70-74	4,792.8	4,396.1	3,798.6	3,438.3	3,123.6	2,840.8	2,586.5	2,357.5	2,151.4	1,965.5	1,797.9
75-79	7,308.7	6,757.2	5,922.5	5,392.9	4,915.1	4,484.8	4,097.1	3,747.6	3,432.2	3,147.2	2,889.7
80-84	10,935.3	10,091.0	8,833.9	8,060.1	7,365.4	6,738.9	6,173.4	5,662.7	5,200.9	4,783.0	4,404.4
85-89	15,749.1	14,504.1	12,679.2	11,589.3	10,613.2	9,731.5	8,934.5	8,213.3	7,560.2	6,968.0	6,430.5
90-94	22,547.1	20,751.7	18,096.4	16,522.4	15,139.5	13,889.7	12,759.1	11,735.3	10,807.3	9,965.3	9,200.6
Female:											
0	927.0	705.0	479.6	420.2	376.1	338.5	306.4	278.9	255.1	234.4	216.4
1-4	45.1	37.0	26.5	23.4	21.3	19.5	17.8	16.4	15.0	13.8	12.8
5-9	23.0	18.3	12.3	10.8	9.9	9.1	8.4	7.7	7.1	6.6	6.1
10-14	21.4	17.8	12.9	11.3	10.4	9.5	8.7	8.0	7.4	6.8	6.3
15-19	43.0	38.3	31.4	28.3	26.1	24.0	22.1	20.4	18.8	17.3	16.0
20-24	51.4	46.2	39.3	36.0	33.1	30.4	28.0	25.8	23.8	22.0	20.3
25-29	60.2	52.3	41.6	37.3	34.2	31.4	28.9	26.6	24.5	22.6	20.9
30-34	72.1	58.3	40.6	35.5	32.3	29.4	26.9	24.6	22.5	20.6	18.9
35-39	107.5	84.2	55.7	47.9	43.1	38.8	34.9	31.6	28.6	25.9	23.5
40-44	175.7	141.6	97.3	83.6	74.6	66.7	59.7	53.6	48.2	43.4	39.2
45-49	281.8	236.5	173.2	149.3	132.8	118.3	105.6	94.4	84.6	75.9	68.3
50-54	465.8	412.0	334.6	294.9	261.2	231.7	206.0	183.4	163.6	146.2	131.0
55-59	713.2	644.6	546.0	483.7	428.5	380.2	338.0	301.0	268.6	240.2	215.2
60-64	1,146.3	1,058.3	930.8	832.4	741.0	660.9	590.6	528.8	474.4	426.5	384.2
65-69	1,700.4	1,587.9	1,424.1	1,282.5	1,146.8	1,027.4	922.3	829.5	747.6	675.2	611.0
70-74	2,610.8	2,368.8	2,037.8	1,832.6	1,644.7	1,478.8	1,332.2	1,202.6	1,087.7	985.7	895.1
75-79	4,057.2	3,582.9	2,949.1	2,645.8	2,384.8	2,153.6	1,948.6	1,766.4	1,604.3	1,459.8	1,330.9
80-84	6,644.2	5,812.8	4,676.8	4,180.5	3,776.0	3,416.8	3,097.2	2,812.6	2,558.7	2,331.7	2,128.7
85-89	11,545.8	10,174.8	8,232.7	7,355.4	6,659.0	6,039.2	5,486.4	4,992.6	4,550.8	4,155.0	3,799.8
90-94	18,288.9	16,455.4	13,697.0	12,255.8	11,106.3	10,081.2	9,165.1	8,345.2	7,610.4	6,950.8	6,357.9

Note: The central death rate is the ratio of the number of deaths during the year to persons at the tabulated age to the midyear population at that age.

Tables 9 and 10 give the resulting life expectancies for males and females at birth and at age 65, respectively, for historical years and by alternative for selected future years. Life expectancy for any year is the number of years of life remaining for a person who is assumed to experience the death rates by age observed in or assumed for the selected year. Thus, the life expectancies at birth shown in Table 9 are summary statistics of the overall mortality for the applicable calendar year. Similarly, the life expectancies at age 65 in Table 10 summarize the mortality at ages 65 and older for the applicable calendar year.

Table 9.—Life Expectancy at Birth by Sex, Calendar Year, and Alternative
[In years]

Calendar year	Male	Female
1900	46.4	49.0
1901	47.9	50.9
1902	49.0	52.1
1903	49.2	52.1
1904	48.1	51.1
1905	48.7	51.9
1906	48.3	52.0
1907	48.3	52.2
1908	50.2	53.6
1909	51.1	54.5
1910	50.1	53.6
1911	51.8	55.0
1912	52.3	55.9
1913	51.7	55.4
1914	52.9	56.3
1915	53.5	56.8
1916	52.4	56.0
1917	52.2	55.9
1918	45.3	49.1
1919	54.2	56.5
1920	54.5	56.3
1921	57.3	59.3
1922	57.0	59.3
1923	56.3	58.7
1924	57.2	59.9
1925	57.2	59.9
1926	56.6	59.3
1927	57.9	60.9
1928	56.8	59.8
1929	57.0	60.2
1930	58.0	61.3
1931	58.6	62.0
1932	59.4	62.6
1933	59.6	63.0
1934	58.8	62.7
1935	59.4	63.3
1936	58.7	62.9
1937	59.4	63.6
1938	60.8	64.7
1939	61.4	65.4
1940	61.4	65.7
1941	61.9	66.5
1942	62.6	67.4
1943	62.2	67.1
1944	62.7	67.8
1945	62.9	68.4
1946	64.3	69.2
1947	64.6	69.7
1948	64.8	70.2
1949	65.3	70.7
1950	65.6	71.1
1951	65.7	71.4
1952	65.8	71.6
1953	66.0	72.0
1954	66.7	72.7
1955	66.7	72.8
1956	66.7	72.9
1957	66.5	72.7
1958	66.6	72.9
1959	66.8	73.2
1960	66.7	73.2
1961	67.1	73.6
1962	66.9	73.5

Table 9.—Life Expectancy at Birth by Sex, Calendar Year, and Alternative (Cont.)
[In years]

Calendar year	Male	Female	Alternative I Male	Alternative I Female	Alternative II Male	Alternative II Female	Alternative III Male	Alternative III Female
1963	66.6	73.4						
1964	66.8	73.7						
1965	66.8	73.8						
1966	66.7	73.9						
1967	67.0	74.3						
1968	66.6	74.2						
1969	66.9	74.6						
1970	67.1	74.9						
1971	67.4	75.1						
1972	67.4	75.2						
1973	67.6	75.5						
1974	68.3	76.0						
1975	68.7	76.6						
1976	69.1	76.8						
1977	69.4	77.2						
1978	69.6	77.3						
1979	70.0	77.7						
1980	69.9	77.5						
1981	70.4	77.9						
1982	70.8	78.2						
1983	70.9	78.1						
1984	71.1	78.2						
1985	71.1	78.3						
1986	71.4	78.5						
1987			71.5	78.6	71.6	78.7	71.8	78.8
1988			71.6	78.6	71.8	78.9	72.1	79.1
1989			71.7	78.7	72.1	79.1	72.4	79.5
1990			71.8	78.8	72.3	79.3	72.8	79.7
1991			71.9	78.9	72.5	79.5	73.1	80.0
1992			72.0	79.0	72.7	79.6	73.4	80.3
1993			72.0	79.0	72.9	79.8	73.7	80.6
1994			72.1	79.1	73.1	80.0	73.9	80.8
1995			72.2	79.2	73.2	80.1	74.2	81.1
1996			72.3	79.2	73.4	80.3	74.5	81.3
1997			72.4	79.3	73.6	80.4	74.7	81.5
1998			72.4	79.3	73.7	80.6	74.9	81.7
1999			72.5	79.4	73.8	80.7	75.1	81.9
2000			72.6	79.4	73.9	80.8	75.2	82.0
2005			72.8	79.6	74.3	81.1	75.9	82.7
2010			73.0	79.8	74.6	81.4	76.5	83.3
2015			73.1	80.0	74.9	81.7	77.0	83.9
2020			73.3	80.1	75.1	82.0	77.6	84.5
2025			73.4	80.3	75.4	82.3	78.1	85.1
2030			73.6	80.4	75.7	82.6	78.7	85.7
2035			73.7	80.6	75.9	82.9	79.2	86.2
2040			73.9	80.7	76.2	83.1	79.8	86.8
2045			74.0	80.8	76.4	83.4	80.3	87.3
2050			74.2	81.0	76.7	83.7	80.9	87.9
2055			74.3	81.1	76.9	84.0	81.4	88.5
2060			74.5	81.3	77.1	84.2	82.0	89.0
2065			74.6	81.4	77.4	84.5	82.5	89.5
2070			74.7	81.5	77.6	84.8	83.0	90.1
2075			74.9	81.7	77.9	85.1	83.6	90.6
2080			75.0	81.8	78.1	85.3	84.1	91.1

Note: The life expectancy is the average number of years of life remaining to a person if he were to experience the age-specific mortality rates for the tabulated year throughout the remainder of his life.

Table 10.—Life Expectancy at Age 65 by Sex, Calendar Year, and Alternative
[In years]

Calendar year	Male	Female
1900	11.3	12.0
1901	11.3	12.0
1902	11.7	12.6
1903	11.4	12.2
1904	11.1	11.9
1905	11.4	12.0
1906	11.4	12.2
1907	11.0	11.8
1908	11.6	12.3
1909	11.6	12.4
1910	11.4	12.1
1911	11.5	12.2
1912	11.5	12.3
1913	11.6	12.4
1914	11.6	12.4
1915	11.4	12.2
1916	11.3	12.0
1917	11.2	12.1
1918	11.6	12.5
1919	12.3	12.8
1920	11.8	12.3
1921	12.2	12.8
1922	11.8	12.4
1923	11.5	12.2
1924	11.8	12.6
1925	11.6	12.5
1926	11.4	12.2
1927	11.7	12.7
1928	11.3	12.3
1929	11.4	12.4
1930	11.8	12.9
1931	12.0	13.1
1932	11.9	13.0
1933	12.0	13.2
1934	11.9	13.1
1935	11.9	13.2
1936	11.6	12.8
1937	11.8	13.1
1938	12.1	13.5
1939	12.0	13.4
1940	11.9	13.4
1941	12.2	13.8
1942	12.4	14.1
1943	12.1	13.7
1944	12.5	14.1
1945	12.6	14.4
1946	12.9	14.6
1947	12.6	14.5
1948	12.7	14.7
1949	12.8	14.9
1950	12.8	15.1
1951	12.8	15.2
1952	13.0	15.3
1953	12.9	15.3
1954	13.2	15.7
1955	13.1	15.6
1956	13.0	15.7
1957	12.9	15.6
1958	12.9	15.7
1959	13.1	15.9
1960	12.9	15.9
1961	13.1	16.1
1962	12.9	16.0
1963	12.7	16.0
1964	13.0	16.3
1965	12.9	16.3
1966	12.9	16.3
1967	13.0	16.6
1968	12.8	16.6
1969	13.0	16.9
1970	13.1	17.1
1971	13.1	17.1
1972	13.1	17.2
1973	13.2	17.4
1974	13.5	17.7
1975	13.7	18.0
1976	13.7	18.1

Table 10.—Life Expectancy at Age 65 by Sex, Calendar Year, and Alternative (Cont.)
[In years]

Calendar year	Male	Female				
1977	13.9	18.3				
1978	13.9	18.3				
1979	14.2	18.6				
1980	14.0	18.4				
1981	14.2	18.6				
1982	14.5	18.8				
1983	14.3	18.6				
1984	14.4	18.7				
1985	14.5	18.6				
1986	14.6	18.7				
	Alternative I		Alternative II		Alternative III	
	Male	Female	Male	Female	Male	Female
1987	14.6	18.8	14.7	18.9	14.7	18.9
1988	14.6	18.8	14.7	19.0	14.9	19.1
1989	14.6	18.9	14.8	19.1	15.0	19.3
1990	14.7	18.9	14.9	19.2	15.2	19.5
1991	14.7	18.9	15.0	19.3	15.3	19.7
1992	14.7	19.0	15.1	19.4	15.4	19.9
1993	14.7	19.0	15.1	19.5	15.6	20.0
1994	14.7	19.0	15.2	19.6	15.7	20.2
1995	14.8	19.0	15.3	19.7	15.8	20.3
1996	14.8	19.1	15.4	19.8	15.9	20.5
1997	14.8	19.1	15.4	19.9	16.0	20.6
1998	14.8	19.1	15.5	19.9	16.1	20.7
1999	14.8	19.2	15.5	20.0	16.2	20.9
2000	14.8	19.2	15.6	20.1	16.3	21.0
2005	14.9	19.3	15.8	20.3	16.7	21.5
2010	15.0	19.4	16.0	20.6	17.1	21.9
2015	15.1	19.5	16.1	20.8	17.5	22.4
2020	15.2	19.7	16.3	21.0	17.9	22.8
2025	15.3	19.8	16.5	21.2	18.3	23.3
2030	15.4	19.9	16.7	21.5	18.7	23.7
2035	15.5	20.0	16.9	21.7	19.1	24.2
2040	15.6	20.1	17.0	21.9	19.6	24.6
2045	15.7	20.3	17.2	22.1	20.0	25.1
2050	15.8	20.4	17.4	22.4	20.4	25.5
2055	15.9	20.5	17.6	22.6	20.8	26.0
2060	16.0	20.6	17.7	22.8	21.2	26.4
2065	16.1	20.7	17.9	23.0	21.6	26.9
2070	16.2	20.8	18.1	23.3	22.0	27.3
2075	16.3	20.9	18.3	23.5	22.5	27.7
2080	16.4	21.1	18.5	23.7	22.9	28.2

Note: The life expectancy is the average number of years of life remaining to a person if he were to experience the age-specific mortality rates for the tabulated year throughout the remainder of his life.

Charts 2 and 3 are graphs of the past and projected life expectancies at birth of males and females respectively from 1900 to 2080 by alternative. Rapid gains in expectancy at birth occurred from 1900 through the mid-1950's for both males and females. From the mid-1950's through the late 1960's, male life expectancy at birth remained level, while female life expectancy at birth increased moderately. During the 1970's rapid gains resulted for both males and females. During this century life expectancy at birth for males increased 24.5 years from 46.4 in 1900 to 70.9 years in 1983. During the same period, life expectancy at birth for females increased 29.1 years from 49.0 to 78.1 years. Thus the difference in male and female life expectancies, the sex gap, at birth has increased from 2.6 years in 1900 to 7.2 years in 1983. For calendar year 1970, the sex gap in life expectancy at birth was 7.8. It stabilized during the 1970's and has decreased slightly since 1979. Under all three alternatives, the life expectancy at birth is projected to increase. For males, the life expectancy at birth increases from 71.1 years in 1985 to 75.0 years,

78.1 years, and 84.1 years in 2080 under Alternatives I, II, and III, respectively. This represents an increase ranging from 3.9 years to 13.0 years. For females the increase ranges from 3.5 years to 12.8 years. The female life expectany is projected to increase from 78.3 years in 1985, to 81.8 years, 85.3 years, and 91.1 years in 2080 under Alternative I, II, and III, respectively. The sex gap at birth is projected to change from 7.2 years in 1985 to 6.8 in 2080 under Alternative I, to 7.2 under Alternative II, and to 7.0 under Alternative III.

Life expectancy at age 65 for males increased from 11.3 years in 1900 to 14.3 years in 1983, while life expectancy at age 65 for females increased from 12.0 years to 18.6 years. The life expectancy for males at age 65 is projected to increase from 14.5 years in 1985 to 16.4 years, 18.5 years, and 22.9 years in 2080 under Alternatives I, II, and III, respectively. This represents an increase ranging from 1.9 years to 8.4 years. For females the increase ranges from 2.5 years to 9.6 years. The female age 65 life expectancy is projected to increase from 18.6 years in 1985 to 21.1 years, 23.7 years, and 28.2 years under Alternatives I, II, III, respectively. It is interesting to note that the sex gap at age 65 has increased from .7 years to 4.3 years between 1900 and 1983 and that it is projected to increase to 4.7, 5.2, and 5.3 years by 2080 under Alternatives I, II, and III, respectively.

Although a complete projection of age-sex-specific death rates was not done for each marital status, historical data indicated that the differential in mortality by marital status is significant. To reflect this, future relative differences in death rates by marital status were projected to be the same as for calendar years 1980 and 1981. Death rates for this period are shown in Table 11. These rates were calculated using deaths as tabulated from the 1980 and 1981 Mortality Cause-of-Death Summary Public Use Data Tapes available from the National Center for Health Statistics and population distributions as published in *Current Population Reports,* Series P-20 and P-25, by the Bureau of the Census.

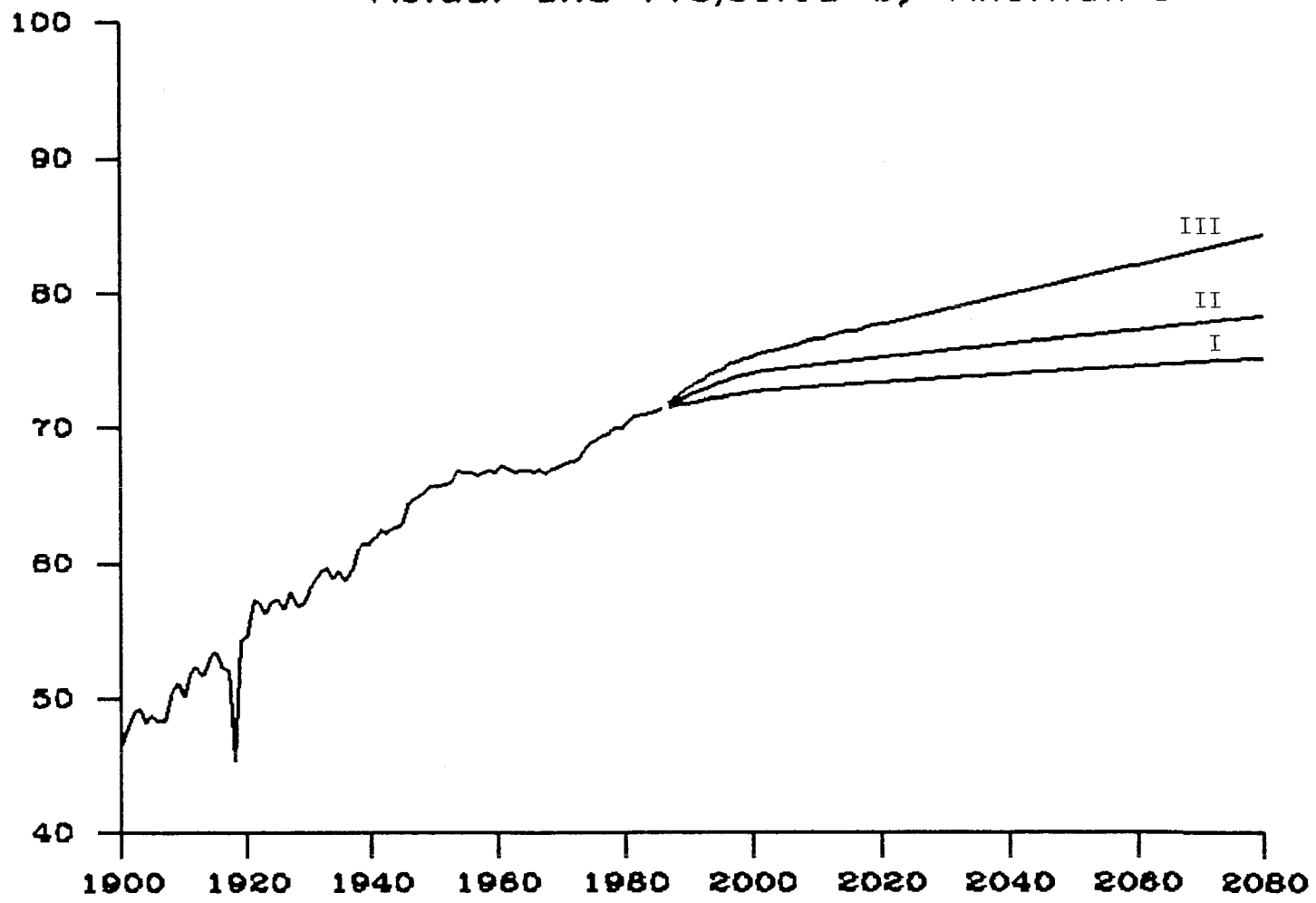
Table 11.—Central Death Rates by Age Group, Sex, and Marital Status Based on 1980-81 Data
[Per hundred thousand]

Sex and age group	Total	Single	Married	Widowed	Divorced
Male:					
15-19	135.9	134.8	169.4	933.0	400.0
20-24	193.9	211.7	135.9	1,100.0	430.3
25-29	192.5	276.2	123.0	1,120.0	458.5
30-34	192.1	355.3	128.5	1,145.0	500.0
35-39	241.8	592.5	171.7	1,186.5	562.7
40-44	357.6	746.4	275.8	1,200.0	773.6
45-49	581.0	1,238.6	459.1	1,266.6	1,342.0
50-54	932.8	1,991.2	754.8	1,748.4	2,146.9
55-59	1,444.5	2,556.0	1,225.6	2,414.0	3,044.8
60-64	2,195.9	3,398.1	1,926.0	3,473.3	4,154.8
65-69	3,338.9	4,756.3	2,945.4	5,559.8	5,736.1
70-74	4,991.0	7,147.0	4,436.2	7,160.9	7,860.3
75-79	7,323.9	12,872.2	6,235.5	10,567.0	13,034.5
80-84	11,027.0	19,506.0	9,317.1	14,027.2	17,258.6
85-89	16,433.6	26,107.9	14,240.1	18,432.6	19,259.8
90-94	21,981.3	32,226.8	19,333.7	23,250.2	23,000.0
Female:					
15-19	51.8	51.5	50.7	270.0	75.0
20-24	60.3	71.9	40.5	274.2	105.0
25-29	67.5	110.7	46.5	282.3	120.3
30-34	82.6	178.7	60.6	285.0	137.6
35-39	122.4	277.9	95.0	300.0	205.7
40-44	195.3	408.8	157.9	381.0	333.1
45-49	319.0	544.0	265.3	587.3	508.1
50-54	496.5	754.0	421.5	776.0	734.8
55-59	746.3	1,160.7	634.6	1,006.8	1,084.3
60-64	1,131.5	1,606.3	939.0	1,478.7	1,573.9
65-69	1,705.2	2,114.4	1,426.6	1,982.9	2,475.8
70-74	2,621.7	3,176.6	2,137.3	2,921.4	3,719.3
75-79	4,132.5	4,960.0	3,409.5	4,314.0	6,340.0
80-84	7,095.9	8,324.6	5,179.4	7,463.0	9,920.4
85-89	11,797.1	14,681.1	7,894.2	12,717.1	12,620.6
90-94	17,983.4	23,584.7	12,717.5	19,202.2	17,000.0

CHART 2.——Male Life Expectancy

(in years), 1900–2080

Actual and Projected by Alternative



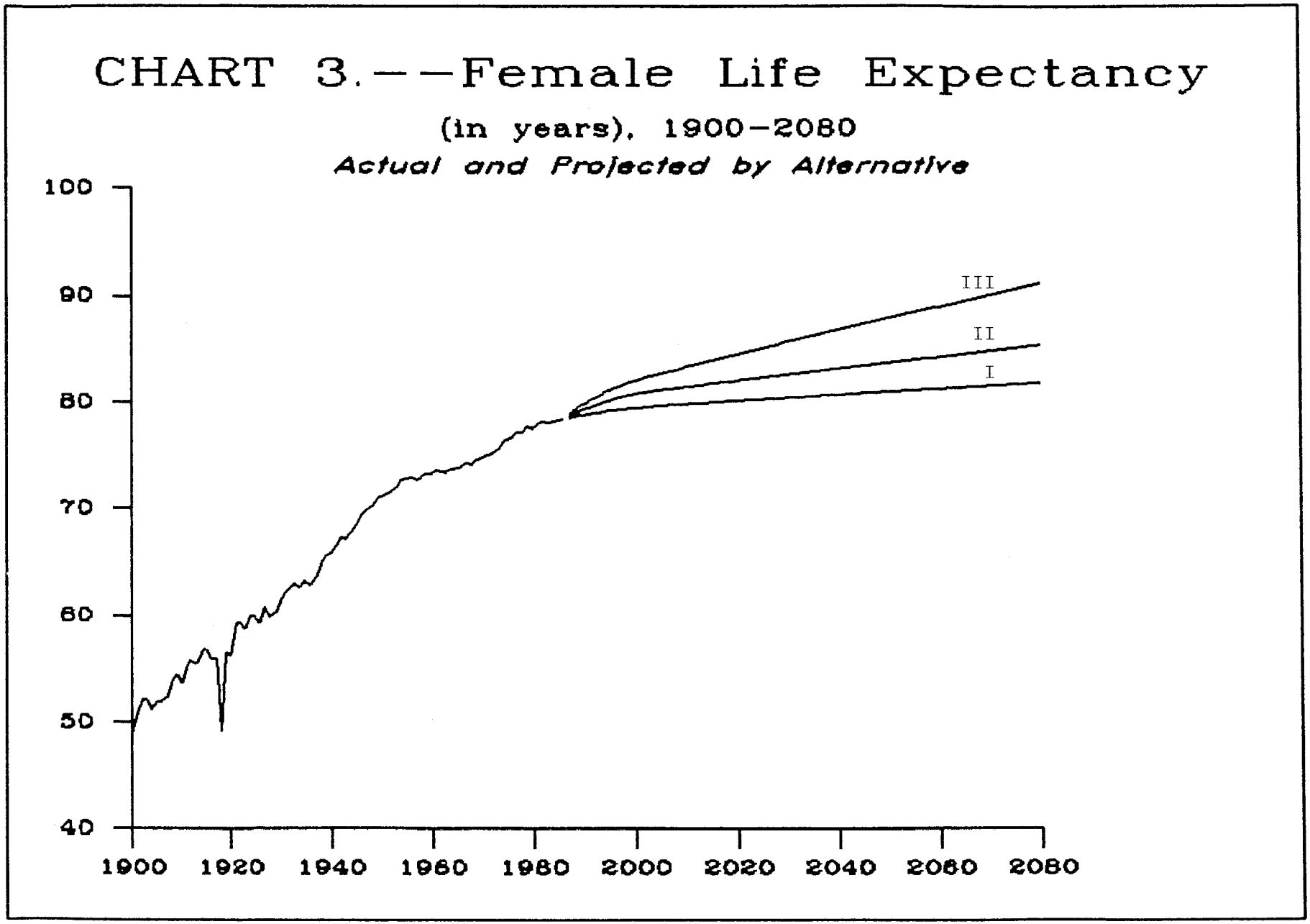


CHART 3.--Female Life Expectancy
(in years), 1900-2080
Actual and Projected by Alternative
100
90
80
70
60
50
40
1900
1920
1940
1960
1980
2000
2020
2040
2060
2080
III
II
I

C. Net Immigration

Immigration was once a very important element in the growth of the United States population. During calendar years 1904 through 1913 for example, immigration averaged nearly one million per year, which represented quite sizeable percentage increases in the United States population. Immigration decreased greatly during World War I and following the adoption of quotas based on national origin in 1921. The economic depression in the 1930's caused an additional but temporary decrease, which resulted in more emigration than immigration. Annual immigration increased after World War II to around 300,000 persons per year and stayed at that level through the 1950's and into the 1960's. With the Immigration Act of 1965 and other related changes, annual legal immigration increased to about 400,000. During the last eight years of available data (1978-1985), however, legal immigration has averaged approximately 555,000 per year. Although statistics on emigration are sparse and largely estimated (see, "Foreign-Born Emmigration From the United States: 1960 to 1970" by Robert Warren and Jennifer Peck in *Demography,* February 1980), they suggest that annual emigration of legal residents has been over 100,000.

For the 1987 Report of the Board of Trustees, legal immigration is assumed to be 750,000, 500,000, and 250,000 persons per year for Alternatives I, II and III, respectively. For the same time period, legal emigration is assumed to be 150,000, 100,000, and 50,000 persons per year for Alternative I, Alternative II, and Alternative III, respectively. The age-sex distribution of the assumed legal immigration was based on data supplied by the Immigration and Naturalization Service on immigration during 1975 through 1984. The age-sex distribution of the assumed legal emigration was based on estimates of foreign-born emigration for 1960 to 1970 in "Foreign-Born Emmigration From the United States: 1960 to 1970" by Robert Warren and Jennifer Peck in *Demography,* February 1980. Table 12 shows the age-sex distributions of the assumed net legal immigration for the three Alternatives.

Table 12.—Assumed Annual Net Legal Immigration by Age Group, Sex and Alternative

Alternative and age group	Total	Male	Female
Alternative I :			
0-4	46,242	22,810	23,432
5-9	40,113	20,363	19,750
10-14	49,379	25,290	24,089
15-19	55,736	27,744	27,992
20-24	85,478	42,361	43,117
25-29	95,932	50,997	44,935
30-34	63,560	33,232	30,328
35-39	39,975	20,263	19,712
40-44	27,045	13,300	13,745
45-49	21,360	10,372	10,988
50-54	18,705	8,113	10,592
55-59	16,223	6,575	9,648
60-64	14,480	5,778	8,702
65-69	11,279	4,563	6,716
70-74	7,994	3,237	4,757
75-79	3,938	1,546	2,392
80-84	2,561	950	1,611
85+	0	0	0
0-19	191,470	96,207	95,263
20-64	382,758	190,991	191,767
65+	25,772	10,296	15,476
Total	600,000	297,494	302,506

Table 12.—Assumed Annual Net Legal Immigration by Age Group, Sex and Alternative (Cont.)

Alternative and age group	Total	Male	Fernale
Alternative II :			
0-4	30,823	15,205	15,618
5-9	26,743	13,577	13,166
10-14	32,919	16,859	16,060
15-19	37,159	18,496	18,663
20-24	56,984	28,241	28,743
25-29	63,955	33,998	29,957
30-34	42,372	22,153	20,219
35-39	26,651	13,510	13,141
40-44	18,029	8,866	9,163
45-49	14,240	6,915	7,325
50-54	12,472	5,409	7,063
55-59	10,819	4,387	6,432
60-64	9,652	3,852	5,800
65-69	7,518	3,041	4,477
70-74	5,329	2,159	3,170
75-79	2,626	1,032	1,594
80-84	1,709	633	1,076
85+	0	0	0
0-19	127,644	64,137	63,507
20-64	255,174	127,331	127,843
65+	17,182	6,865	10,317
Total	400,000	198,333	201,667
Alternative III:			
0-4	15,424	7,610	7,814
5-9	13,371	6,788	6,583
10-14	16,456	8,428	8,028
15-19	18,578	9,248	9,330
20-24	28,491	14,119	14,372
25-29	31,975	16,998	14,977
30-34	21,185	11,076	10,109
35-39	13,325	6,755	6,570
40-44	9,014	4,433	4,581
45-49	7,122	3,459	3,663
50-54	6,235	2,704	3,531
55-59	5,407	2,191	3,216
60-64	4,829	1,927	2,902
65-69	3,758	1,520	2,238
70-74	2,665	1,079	1,586
75-79	1,311	514	797
80-84	854	316	538
85+	0	0	0
0-19	63,829	32,074	31,755
20-64	127,583	63,662	63,921
65+	8,588	3,429	5,159
Total	200,000	99,165	100,835

In deciding upon the annual net immigration (excess of immigration over emigration) to be assumed for future years, the question of making some provision for persons entering the United States illegally arises. Estimates of illegal aliens are included in our starting population, in accordance with the offical policy of the Bureau of Census to enumerate or to include in the estimated undercount all persons residing in the U.S., whether legally or illegally. In addition, consistent with the Bureau of Census estimates of illegal immigration since the 1980 Census, net illegal immigration is assumed to be 200,000 persons per year during 1985 and 1986. However, for years after 1986, no additional allowance is made for aliens who may enter or leave the United States illegally. For years after 1986, the net illegal immigration is highly uncertain due to recent legislation. The age-sex distribution of the illegal aliens used for the years 1985 and 1986 was based on unpublished estimates by the Bureau of Census of the undocumented population counted in the 1980 Census. The age-sex distribution of the net illegal immigrants assumed for the years 1985 and 1986 is shown in Table 13.

Table 13.—Annual Net Illegal Immigration Assumed for 1985 and 1986 by Age Group and Sex

Age group	Total	Male	Female
0-4	18,324	9,375	8,949
5-9	20,445	10,861	9,584
10-14	14,058	7,030	7,028
15-19	28,114	15,974	12,140
20-24	52,609	31,310	21,299
25-29	30,458	17,252	13,206
30-34	12,992	6,816	6,176
35-39	6,390	3,194	3,196
40-44	5,111	2,769	2,342
45-49	3,621	1,917	1,704
50-54	2,555	1,278	1,277
55-59	1,704	852	852
60-64	1,013	238	775
65-69	869	205	664
70-74	724	170	554
75-79	579	136	443
80-84	434	102	332
85+	0	0	0
0-19	80,941	43,240	37,701
20-64	116,453	65,626	50,827
65+	2,606	613	1,993
Total	200,000	109,479	90,521

D. Marriages

Because marriage is the combination of a male and a female into a couple, marriage rates can be computed as a ratio of the number of marriages to (1) the number of nonmarried males (not taking into account the number of nonmarried females), (2) the number of nonmarried females (not taking into account the number of nonmarried males), or (3) a theoretical number of nonmarried couples that takes into account both the number of nonmarried males and nonmarried females. The marriage rates referred to in this study are computed using the third concept of a theoretical number of nonmarried couples as the denominator. The rates were computed as the number of marriages for given ages of husband and wife divided by the square root of the product (geometric mean) of the midyear nonmarried males and nonmarried females of the given ages.

In order to calculate these rates, data on new marriages in the Marriage Registration Area (which in 1983 consisted of 42 States and D.C. and accounted for 80 percent of all marriages in the U.S.) were obtained from the National Center for Health Statistics for calendar years 1957 through 1983 by age of husband crossed with age of wife. Estimates of the nonmarried population in the Marriage Registration Area were obtained from the National Center for Health Statistics and from the Bureau of the Census by age group and sex.

The number of marriages depends upon the age distribution of both the nonmarried male population and the nonmarried female population. Thus, an acceptable summary statistic could be calculated by age-adjustment to a set of standard nonmarried populations. When only one population is involved (as in calculating death rates), equal results are obtained by viewing the age-adjusting concept as the weighted average of the age-specific rates or as the crude rate that would occur in the standard population. When two populations are involved (as in calculating marriage rates), these two concepts do not produce the same results.

Using either concept, the first step in calculating the age-adjusted statistic is to determine the number of marriages that would occur in the standard population. We determine this number, the expected number of marriages, by applying the age-of-husband-age-of-wife-specific marriage rates to the geometric mean of the corresponding standard age-specific populations. To age-adjust using the weighted average concept, the expected number of marriages is divided by the sum of all of the factors to which the marriage rates were applied, i.e., the sum of the geometric means of the corresponding age-specific populations. To age-adjust using the crude rate concept, the expected number of marriages is divided by the geometric mean of the total male nonmarried population and the total female nonmarried population. In this study we have calculated rates (as shown in Tables 14 and 15) under the latter concept, i.e., the crude rate that would be experienced in the standard population, which we express per hundred thousand nonmarried of each sex.

Table 14.—Age-Adjusted Central Marriage Rates in the Marriage Registration Area by Calendar Year
[Per hundred thousand unmarried of each sex]

Calendar year	Age-adjusted marriage rate
1957	9,975
1958	9,775
1959	10,024
1960	10,015
1961	9,519
1962	9,465
1963	9,716
1964	9,812
1965	9,851
1966	10,158
1967	9,929
1968	10,168
1969	10,129
1970	9,680
1971	9,302
1972	9,412
1973	9,077
1974	8,332
1975	7,687
1976	7,303
1977	6,982
1978	6,784
1979	6,661
1980	6,256
1981	6,120
1982	5,967
1983	5,743

Note: The first step in calculating the total age-adjusted central marriage rate for a particular year is to determine an expected number of marriages by applying the age-of-husband-age-of-wife-specific central marriage rates for that year to the square root of the product of the corresponding age groupings of unmarried males and unmarried females in the Marriage Registration Area as of July 1, 1982. The total age-adjusted central marriage rate is then obtained by dividing the expected number of marriages by the square root of the product of the number of unmarried males (aged 15 and over) and unmarried females (aged 15 and over) in the Marriage Registration Area as of July 1, 1982.

TABLE 15.—Age-Adjusted Marriage Rates Assumed for the Social Security Area by Calendar Year and Alternative
[Per hundred thousand unmarried of each sex]

Calendar year	Age-adjusted marriage rate		
1984	6,250		
1985	5,962		
1986	6,106		
	Alternative I	Alternative II	Alternative III
1987	6,004	6,106	6,201
1988	5,903	6,106	6,298
1989	5,804	6,106	6,397
1990	5,706	6,106	6,497
1991	5,611	6,106	6,599
1992	5,517	6,106	6,702
1993	5,424	6,106	6,807
1994	5,333	6,106	6,913
1995	5,244	6,106	7,021
1996	5,156	6,106	7,131
1997	5,069	6,106	7,243
1998	4,984	6,106	7,356
1999	4,900	6,106	7,471
2000	4,818	6,106	7,588
2001	4,737	6,106	7,706
2002	4,658	6,106	7,827
2003	4,580	6,106	7,949
2004	4,503	6,106	8,074
2005	4,427	6,106	8,200
2006	4,353	6,106	8,328
2007	4,280	6,106	8,458
2008	4,208	6,106	8,591
2009	4,138	6,106	8,725
2010	4,068	6,106	8,861
2011	4,000	6,106	9,000

An examination of the age-adjusted marriage rates since 1957 shows that the rates remained relatively stable during the late 1950's and throughout the 1960's. A major decrease in the age-adjusted rate was experienced during the 1970's and continued into the 1980's. The total rates shown in Table 14 range from a high in 1968 of 10,168 per hundred thousand nonmarried persons of each sex to a low in 1983 of 5,743. At first glance the provisional statistics for 1984 and 1985, as shown in Table 15, indicate a reversal of the declining trend. However, the provisional age-adjusted marriage rates are based on United States data, which historically produce higher rates than the Marriage Registration Area data. This is because the Marriage Registration Area does not include the state of Nevada. In order to compare the rates determined from the two sources of data, a factor in the neighborhood of .9 should be applied to the age-adjusted marriage rates based on United States data. Once this factor is applied, the provisional age-adjusted marriage rates for 1984 and 1985 indicate a continuing of the declining trend.

Because we are uncertain whether marriage rates will increase or decrease, we assumed, for Alternative II that future age-adjusted rates of marriage for the Social Security Area would remain at the same level as the average of the 1984 and 1985 age-adjusted rates of marriage for the United States. The use of constant age-adjusted rates does not imply that the crude rate of marriage in the projected population remains constant.

It is possible that marriage rates will continue to decline. However, it is not likely that the rate of decline over the past 10 years will continue indefinitely into the future. Taking this into account, for Alternative I, we assume that the ultimate age-adjusted marriage rate will decline to 4,000 in the year 2011 and stay at this level for the remainder of the projection period. This ultimate rate is 67% of the 1985 rate of 5,962.

It is also, possible that marriage rates will, on the average, rise above their present low level. We, however, believe that the rates will not, on the average, return to the high levels found in the 1950's and 1960's. To reflect this in Alternative III, we assume that the ultimate age-adjusted marriage rate will increase to 9,000 in the year 2011 and stay at this level for the remainder of the projection period.

To obtain the age-of-husband-age-of-wife-specific rates for a particular year from the age-adjusted rate projected for that year, the age-of-husband-age-of-wife-specific rates for the years 1978-1979 and 1981-1983 were averaged, graduated, and proportionally ratioed so as to produce the age-adjusted rate for the particular year. Data for 1980 were not available. The rates assumed for years after 1985 for Alternative II are shown in Table 16 grouped by 5 year age groups based on 1986 population data.

Table 16.—Assumed Central Marriage Rates for Alternative II by Age of Husband and Wife
[Per hundred thousand]

Age group of husband	Age group of wife															
	14-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94
14-19	1,556.3	396.9	71.3	23.5	8.1	2.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0
20-24	2,700.3	6,044.8	1,347.4	333.5	103.0	26.5	7.5	3.0	1.6	.2	.0	.0	.0	.0	.0	.0
25-29	671.0	4,494.5	4,512.9	1,394.4	375.5	108.0	29.2	9.4	2.1	.1	.0	.0	.0	.0	.0	.0
30-34	231.7	1,696.9	3,496.4	2,857.6	1,026.2	311.5	95.9	21.2	5.9	1.4	.4	.0	.1	.0	.0	.0
35-39	88.2	696.2	1,744.3	2,425.2	1,893.5	721.0	231.8	60.2	14.8	3.3	1.5	.5	.1	.0	.0	.0
40-44	33.6	247.8	770.2	1,359.2	1,760.5	1,301.2	517.7	140.5	38.4	9.8	3.8	1.2	.4	.2	.0	.0
45-49	19.6	92.4	328.9	706.5	1,108.9	1,300.4	957.5	333.0	95.9	27.0	7.1	2.3	.5	.0	.0	.0
50-54	10.3	39.0	127.6	321.4	588.2	839.7	972.0	662.0	224.4	68.1	19.5	6.0	1.8	.1	.0	.0
55-59	4.2	18.5	55.0	132.2	261.5	445.4	655.0	699.9	476.2	176.9	44.2	13.2	3.9	1.2	.6	.0
60-64	2.5	7.8	21.7	48.3	100.1	189.7	325.2	444.2	484.1	375.3	116.3	30.5	6.5	1.8	.0	.0
65-69	1.8	3.3	8.5	16.7	35.6	66.0	125.1	194.8	288.5	363.9	264.2	77.2	15.4	3.3	.0	.0
70-74	1.4	2.8	3.3	6.5	14.5	27.7	47.1	72.8	125.1	204.0	244.9	163.2	40.7	5.9	.7	.0
75-79	.1	2.3	1.7	3.1	5.9	10.0	19.2	30.8	50.6	89.2	130.6	138.7	87.0	15.9	2.1	.0
80-84	.0	.3	.5	.7	3.0	3.2	7.6	13.3	20.1	31.3	49.0	62.9	46.4	23.9	4.1	.0
85-89	.0	.0	.0	.0	.3	.0	1.8	5.4	6.7	8.6	13.0	17.6	20.9	16.2	4.4	.3
90-94	.0	.0	.0	.0	.0	.0	.0	2.1	1.8	1.4	2.5	5.4	5.0	1.0	2.2	5.2

Note: The central marriage rate is the ratio of the number of marriages during the year in the tabulated age cell to the square root of the product of the midyear number of unmarried males in the age group of husband and the midyear number of unmarried females in the age group of wife.

Although a complete projection of age-of-husband-age-of-wife-specific marriage rates was not done separately for each previous marital status, experience data indicated that the differential in marriage rates by previous marital status is significant. Future relative differences in marriage rates by previous marital status were assumed to be the same as the average of those experienced during 1979 and 1981-1983. Data for 1980 were not available. The marriage rates for the years 1979 and 1981-1983 were obtained from unpublished data supplied by the National Center for Health Statistics. The average of these marriage rates, with slight modifications, are given in Table 17.

Table 17.—Average of Calendar Years 1979 and 1981-83 Central Marriage Rates by Age Group, Sex, and Marital Status
[Per thousand]

Sex and age group	Marital status			
	Total	Single	Widowed	Divorced
Male:				
14-19	19.1	18.9	368.0	160.3
20-24	88.0	83.8	474.4	245.9
25-29	123.0	103.6	319.9	256.3
30-34	117.2	74.1	231.6	223.9
35-39	102.5	39.9	112.9	176.7
40-44	107.7	34.1	98.5	166.9
45-49	71.3	16.0	64.1	112.8
50-54	64.4	13.5	60.7	102.9
55-59	42.4	8.7	54.6	63.2
60-64	38.4	7.8	50.3	56.1
65-69	17.0	3.6	19.9	29.0
70-74	15.0	3.2	16.9	25.4
75-79	15.9	3.2	17.0	25.6
80-84	16.4	3.2	17.0	25.6
85-89	16.6	3.2	17.0	25.6
90-94	16.7	3.2	17.0	25.6
Female:				
14-19	42.1	41.5	353.8	228.9
20-24	114.4	105.9	153.7	245.0
25-29	127.4	103.9	100.7	206.1
30-34	98.2	63.4	65.3	144.0
35-39	68.9	33.2	36.5	94.4
40-44	63.7	28.4	32.6	86.0
45-49	34.4	13.1	20.4	49.6
50-54	27.2	10.8	18.2	43.2
55-59	12.5	5.4	10.1	20.7
60-64	9.8	4.5	8.7	17.3
65-69	3.1	1.2	2.7	7.2
70-74	2.3	.9	2.1	5.9
75-79	2.2	.9	2.2	6.0
80-84	2.2	.9	2.1	6.0
85-89	2.2	.9	2.1	6.0
90-94	2.2	.9	2.1	6.0

Note: The central marriage rate is the ratio of the number of marriages during the year in the tabulated age group and marital status to the midyear population in that age group and marital status.

E. Divorces

We assumed that future age-of-husband-age-of-wife-specific rates of divorce would remain at about the same level as recently observed. This does not imply that the crude rate of divorce in the projected population remains constant.

Data on divorces (including annulments) in the Divorce Registration Area during calendar years 1979 and 1981 by age group of husband crossed with age group of wife were obtained from the National Center for Health Statistics. For each calendar year 1979 and 1981, the divorces occurring in the Divorce Registration Area (which in 1984 consisted of 31 States and accounted for about 48 percent of all divorces in the U.S.) were inflated to represent the Social Security Area, based on the total number of divorces during the corresponding calendar year in the 50 States, District of Columbia, Puerto Rico, and the Virgin Islands. Divorce rates for each age group of husband crossed with each age group of wife were then calculated as the ratio of the number of divorces in the Social Security Area for couples within the given ages of husband and wife to the number of existing marriages in the Social Security Area within the given ages of husband and wife. The resulting rates for 1979 and 1981 were averaged and then adjusted to the level observed during 1985. The final rates, grouped by 5 year age groups based on 1985 population data, are shown in Table 18.

Table 18.—Assumed Central Divorce Rates by Age of Husband and Wife
[Per hundred thousand]

Age group of husband	Age group of wife														
	14-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89
14-19	3,037.1	3,600.1	3,007.4	2,734.4	1,343.9	370.2	40.0	34.4	90.1	95.7	98.0	87.0	87.3	59.4	43.7
20-24	5,004.3	5,199.9	4,264.4	4,436.5	3,955.9	2,647.6	1,555.6	658.8	171.2	159.2	220.9	285.4	413.1	345.6	294.5
25-29	3,933.0	5,344.0	4,763.8	3,314.7	3,556.9	3,345.5	3,080.1	2,216.6	1,023.9	765.7	675.1	587.4	790.8	659.7	646.2
30-34	5,767.8	5,263.3	4,094.8	3,535.5	2,841.4	3,395.5	3,736.0	3,091.9	1,704.6	1,219.5	838.8	685.4	798.9	779.1	972.1
35-39	6,258.1	6,843.3	4,065.8	2,802.4	2,829.9	2,253.9	3,004.3	2,937.3	1,982.7	1,678.9	1,412.7	1,256.6	1,293.3	1,297.2	1,466.3
40-44	5,686.3	7,426.1	5,286.5	2,940.6	2,220.7	2,155.7	1,799.7	2,027.7	1,558.6	1,402.1	1,280.3	1,299.5	1,288.9	1,342.6	1,306.6
45-49	3,103.7	6,181.9	5,348.0	3,587.4	2,241.0	1,614.3	1,415.4	1,120.3	1,116.4	1,084.5	1,077.4	1,036.3	1,092.4	1,132.3	1,114.0
50-54	1,528.1	5,089.6	5,297.9	4,282.6	2,796.4	1,489.0	1,021.4	849.0	672.8	733.1	736.0	733.4	734.9	792.0	819.3
55-59	821.2	3,724.4	4,268.1	4,146.6	3,083.5	1,765.4	980.7	601.4	299.9	245.0	290.7	325.3	336.9	341.9	370.7
60-64	954.1	2,936.1	3,765.8	3,946.7	3,153.3	1,883.0	1,049.8	540.2	254.6	249.4	228.2	243.6	250.3	247.6	291.3
65-69	1,151.4	2,550.2	3,630.4	3,941.3	3,162.6	1,909.9	1,067.9	556.5	259.1	246.3	253.5	227.8	228.6	221.2	255.2
70-74	1,313.6	2,389.5	3,526.8	3,934.2	3,112.1	1,961.0	1,091.3	576.2	266.2	236.0	248.8	256.2	226.2	221.7	251.9
75-79	1,351.9	2,591.0	3,714.8	3,804.2	3,121.5	1,936.6	1,123.9	600.4	271.1	234.1	242.0	248.0	253.2	229.4	267.9
80-84	1,367.5	2,934.9	3,395.8	3,587.2	2,843.2	1,809.3	1,083.0	577.7	260.4	211.4	216.7	222.6	239.5	270.0	258.6
85-89	1,456.0	3,268.0	3,897.6	4,084.7	3,294.5	2,141.8	1,299.5	715.9	331.2	260.4	257.7	268.5	260.1	230.4	205.9

Note: The central divorce rate is the ratio of the number of divorces during the year in the tabulated age cell to the midyear number of married couples in that cell.

IV. METHODS

Future numbers of births, deaths, net immigration, marriages, and divorces are obtained by applying the following methods to the projected data described in the preceding section. End of year population data is determined from the beginning of year population data.

The single (never married) population at the end of the year for each age and sex is calculated from the single population at the beginning of the year by subtracting the deaths and marriages during the year, and adding the net immigration of single persons. The married population at the end of the year is calculated from that at the beginning of the year by subtracting the deaths, widowings and divorces, and adding the marriages. The widowed population at the end of the year is calculated by subtracting the deaths and marriages, and adding the widowings and the net immigration of widowed persons. The divorced population at the end of the year is calculated by subtracting the deaths and marriages, and adding the divorces and the net immigration of divorced persons.

A. Deaths

1. Probabilities of Survival

Earlier in this study, death rates (generally referred to as *central* death rates) were presented which were calculated as the number of deaths occurring in a given year divided by the midyear population in that year. This concept is a useful one in the context of analyzing historical trends, but is not so readily applicable to the actual projection of population. What is more suitable is the concept of probability of death (or of survival). This concept involves dividing the number of deaths occurring to a group in a given year by the number of persons in that group at the beginning of the year (rather than the population at the middle of the year). As one would expect, these two concepts are closely related, although the mathematics of their relationsip is not trivial.

Future probabilities of survival by age last birthday were calculated for each sex and each single year of age from the projected central death rates by sex and age group. The probability of death at age 0 (q_0) was calculated from the population central death rate for age 0 and the relationship between the probability of death and the central death rate that existed in 1983. For each single year of age 1 through 4, the probability of death was calculated from the population central death rate for the age group 1 through 4 ($_4m_1$) and the relationships that existed in 1983. Probabilities of death at ages 5 and older were calculated by an iterative method. As a first approximation, the probability of death for each five-year age group from 5-9 to 90-94 was calculated from the corresponding central death rate assuming that on the average deaths occurred at the middle of the age interval. As part of the iterative process, the probability of death for each single age in each five-year age group was determined by interpolating the logarithms of the complements of the surrounding five-year probabilities of death with Beer's minimized fifth-difference formula. The probability of death for each age 95 and over was calculated to produce a rapid decline in the ratio of succeeding probabilities of death to a minimum ratio of 1.05 for females and 1.04 for males. These ratios were chosen based on the analysis by Francisco R. Bayo and Joseph F. Faber contained in the paper "Mortality Experience Around Age 100," in the *Transactions of the Society of Actuaries,* Volume XXXV. An intial life table for each sex was then constructed using these probabilities of death. On subsequent iterations, the life table probability of death for each age 5 through 94 was adjusted so that the central death rates for the five-year age groups obtained by weighting the single age life table central death rates by the population would equal the corresponding population five-year age group central death rates. This adjustment corrects for the fact that the distribution within each quinquennial age group in the life table population generally differs from that in the actual population. For more detail on the method used to produce the life tables for these population projections see Actuarial Study No. 89, "Life Tables For The United States: 1900-2050" by Joseph F. Faber and Alice H. Wade.

2. Number of Deaths

The number of deaths occurring at each age and sex was calculated as the difference between the number of people alive at the beginning of the year and the product of the number of people alive at the beginning of the year and the probability of survival. Deaths to new born babies were computed using a similar formula. However, deaths to immigrants newly arriving in the year were disregarded. The numbers of deaths were then distributed by marital status in the same proportions as would have been produced by applying the marital-status specific probabilities of survival to the population by marital status at the beginning of the year. Projected numbers of deaths are given in Table 19 by alternative.

3. Number of Widowings

The number of marriages dissolved by death at each age of husband crossed with each age of wife was calculated by applying joint-life probabilities of death to the existing marriages by age of husband crossed with age of wife at the beginning of the year. (The joint-life probabilities were developed to be consistent with the projected death rates and the assumed mortality differential by marital status, and assumed independence of the partners). The number of widowings for a particular age and sex was calculated as the difference between the marriages of individuals of that particular age and sex dissolved by death of either partner and the number of deaths to married persons of that age and sex.

B. Net Immigration

The assumed net immigration for each age and sex was distributed among the single (never married), widowed, and divorced populations in the same proportions as existed in the nonmarried population at the beginning of the year. None of the net change in population due to net immigration during the year was assigned to the married population because of the relatively small numbers involved and because of the lack of information of age of spouse

C. Divorces

1. Probabilities of Divorce

Probabilities of divorce were calculated for each age of husband crossed with each age of wife from the average of the divorce rates for the calendar years 1979 and 1981 so that the resulting number of divorces would equal a provisional estimate of the number of divorces in the Social Security Area for 1985. The provisional estimates of marriages and divorces were developed from data published by the National Center for Health Statistics in *Monthly Vital Statistics Reports,* Volume 34.

2. Number of Divorces

The number of marriages dissolved by divorce at each age of husband crossed with each age of wife was calculated by applying probabilities of divorce to the existing marriages by age of husband crossed with age of wife at the beginning of the year. Projected numbers of divorces are given in Table 19 by alternative

D. Marriages

The number of marriages occurring at each age of husband crossed with each age of wife would be obtained by multiplying the age-of-husband-age-of-wife-specific marriage rates by the geometric mean of the midyear male population exposed to marriage and the midyear female population exposed to marriage. Thus, the midyear populations exposed to marriage must be estimated from the beginning of the year nonmarried populations. Since the midyear populations exposed to marriage depend on the number of marriages during the first half of the year, the process of obtaining the number of marriages is performed iteratively. As a first appoximation, the midyear male population exposed to marriage was calculated as the nonmarried male population of the given age at the beginning of the year less one-half of the deaths during the year to nonmarried males at the given age plus one-half of the net immigration and divorces during the year to nonmarried males at the given age. The female population exposed to marriage was approximated similarly. As a second approximation, the male population exposed to marriage was calculated in the same manner as the previously calculated male population of the given age exposed to marriage less one-half of all marriages involving men of the given age. (The number of marriages being obtained by using the first midyear nonmarried population approximations). The female population exposed to marriage was similarly approximated. The difference between the number of marriages obtained by using the two population approximations was calculated. The iterative process was continued until the difference between the number of marriages was small. The numbers of marriages were then distributed by previous marital status in the same proportions as would have been produced by applying the previous marital-status-specific marriage rates to the population by marital status at the beginning of the year. Projected numbers of marriages are given in Table 19 by alternative.

E. Births

In order to determine the number of births during a year, birth rates for that year were applied to the average of the beginning-of-year and end-of-year female population. Projected numbers of births are given in Table 19 by alternative.

Table 19.—Selected Vital Events in the Social Security Area by Alternative and Calendar Year
[In thousands]

Alternative and calendar year	Births	Deaths	Marriages	Divorces
Alternative I :				
1985	3,857	2,161	2,499	1,230
1986	3,849	2,167	2,607	1,251
1987	3,879	2,194	2,606	1,269
1988	3,902	2,222	2,599	1,272
1989	3,915	2,250	2,587	1,262
1990	3,920	2,278	2,568	1,250
1991	3,917	2,306	2,546	1,255
1992	3,911	2,334	2,521	1,257
1993	3,901	2,362	2,495	1,252
1994	3,893	2,390	2,470	1,242
1995	3,887	2,419	2,444	1,231
1996	3,887	2,447	2,421	1,223
1997	3,893	2,476	2,402	1,215
1998	3,905	2,505	2,387	1,204
1999	3,923	2,533	2,374	1,193
2000	3,948	2,562	2,364	1,181
2005	4,155	2,713	2,324	1,131
2010	4,449	2,880	2,275	1,088
2015	4,582	3,068	2,345	1,057
2020	4,647	3,285	2,411	1,050
2025	4,744	3,539	2,478	1,060
2030	4,920	3,813	2,568	1,081
2035	5,129	4,063	2,663	1,112
2040	5,311	4,242	2,743	1,146
2045	5,450	4,335	2,814	1,179
2050	5,586	4,353	2,890	1,212
2055	5,753	4,330	2,979	1,248
2060	5,947	4,315	3,076	1,286
2065	6,140	4,344	3,170	1,327
2070	6,318	4,420	3,260	1,367
2075	6,489	4,524	3,351	1,407
2080	6,672	4,637	3,447	1,449
Alternative II :				
1985	3,857	2,161	2,499	1,230
1986	3,849	2,167	2,607	1,251
1987	3,850	2,174	2,645	1,269
1988	3,841	2,181	2,671	1,274
1989	3,824	2,190	2,689	1,267
1990	3,799	2,201	2,698	1,258
1991	3,768	2,212	2,701	1,268
1992	3,733	2,225	2,700	1,277
1993	3,697	2,239	2,696	1,278
1994	3,662	2,255	2,691	1,275
1995	3,631	2,271	2,686	1,270
1996	3,605	2,289	2,683	1,270
1997	3,586	2,309	2,683	1,268
1998	3,573	2,331	2,688	1,266
1999	3,566	2,354	2,696	1,262
2000	3,566	2,380	2,707	1,258
2005	3,642	2,529	2,772	1,251
2010	3,768	2,696	2,811	1,253
2015	3,787	2,871	2,804	1,253
2020	3,736	3,066	2,777	1,249
2025	3,700	3,289	2,768	1,245
2030	3,721	3,533	2,788	1,246
2035	3,772	3,765	2,813	1,253
2040	3,803	3,941	2,820	1,259
2045	3,801	4,036	2,816	1,262
2050	3,791	4,049	2,815	1,264
2055	3,798	4,003	2,826	1,268
2060	3,822	3,937	2,843	1,273
2065	3,846	3,890	2,855	1,279
2070	3,858	3,877	2,862	1,285
2075	3,862	3,885	2,867	1,289
2080	3,870	3,893	2,876	1,294

Table 19.—Selected Vital Events in the Social Security Area by Alternative and Calendar Year (Cont.)
[In thousands]

Alternative and calendar year	Births	Deaths	Marriages	Divorces
Alternative III:				
1985	3,857	2,161	2,499	1,230
1986	3,849	2,167	2,607	1,251
1987	3,808	2,153	2,681	1,269
1988	3,757	2,141	2,739	1,275
1989	3,700	2,132	2,785	1,271
1990	3,636	2,127	2,820	1,267
1991	3,567	2,124	2,847	1,282
1992	3,496	2,123	2,868	1,295
1993	3,426	2,125	2,885	1,302
1994	3,359	2,130	2,899	1,305
1995	3,296	2,137	2,912	1,307
1996	3,239	2,147	2,926	1,313
1997	3,189	2,160	2,944	1,319
1998	3,147	2,176	2,966	1,323
1999	3,111	2,194	2,992	1,326
2000	3,081	2,215	3,021	1,330
2005	2,999	2,340	3,172	1,361
2010	2,933	2,474	3,254	1,402
2015	2,842	2,612	3,077	1,417
2020	2,691	2,761	2,901	1,390
2025	2,541	2,933	2,773	1,349
2030	2,433	3,131	2,678	1,306
2035	2,354	3,336	2,590	1,263
2040	2,274	3,511	2,492	1,219
2045	2,180	3,623	2,386	1,174
2050	2,081	3,655	2,285	1,129
2055	1,993	3,612	2,197	1,087
2060	1,919	3,520	2,118	1,047
2065	1,851	3,419	2,040	1,010
2070	1,781	3,333	1,961	973
2075	1,711	3,264	1,884	937
2080	1,644	3,191	1,813	903

V. RESULTS

A. Total Population

Table 20 displays the resulting Social Security Area population by age group, sex, marital status, and alternative as of July 1 for selected years. Since the population was projected as of January 1, estimates as of July 1 were made by interpolation. As a result, small discrepancies, such as the total male married population not equaling the total female married population, may arise in the July 1 populations. The past and projected total population is shown graphically in Chart 4. Under Alternative I (with greater-than-replacement fertility), the total population increases rapidly from 247 million in 1985 to 443 million in 2080. Under Alternative II, the total population increases gradually to 327 million in 2080 as a 2.0 total fertility rate plus 400,000 annual net immigrants are slightly more than enough to replenish the population. Under Alternative III, the total population increases to 283 million in 2023 and then decreases to 220 million in 2080. The decline in population size after 2023 is due to the compounding effect of below-replacement fertility which is only partially offset by the positive net immigration.

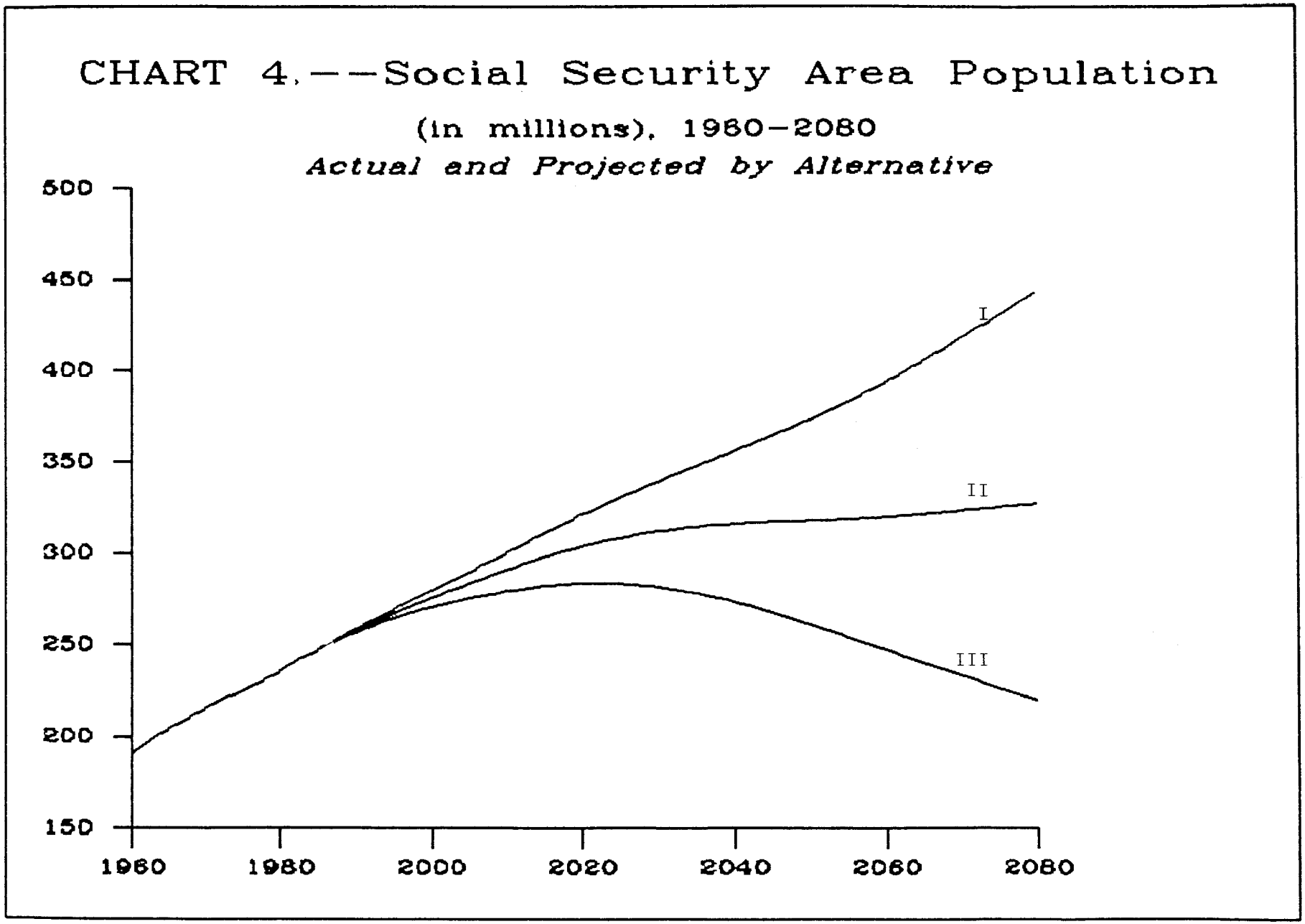


CHART 4.--Social Security Area Population
(in millions), 1960-2080
Actual and Projected by Alternative
500
450
400
350
300
250
200
150
1960
1980
2000
2020
2040
2060
2080
I
II
III

Table 20.—July 1 Population in the Social Security Area by Alternative, Year, Age Group, Sex, and Marital Status

[In thousands]

Alternative, year, and age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
1985:											
0-4	18,896	9,669	9,669	0	0	0	9,227	9,227	0	0	0
5-9	17,616	9,016	9,016	0	0	0	8,600	8,600	0	0	0
10-14	17,607	9,010	9,010	1	0	0	8,597	8,592	4	0	0
15-19	19,072	9,731	9,542	186	0	3	9,341	8,668	633	3	37
20-24	21,875	11,140	8,446	2,505	2	187	10,735	6,296	4,028	21	390
25-29	22,794	11,609	4,773	6,079	5	752	11,185	3,066	7,153	57	909
30-34	20,707	10,610	2,431	7,125	11	1,042	10,097	1,452	7,314	101	1,230
35-39	18,521	9,309	1,080	7,189	36	1,004	9,212	772	7,062	112	1,266
40-44	14,875	7,319	687	5,720	33	878	7,557	431	5,793	222	1,110
45-49	12,198	6,065	442	4,930	61	632	6,132	300	4,677	322	834
50-54	11,307	5,566	385	4,557	97	526	5,742	258	4,313	485	686
55-59	11,624	5,620	386	4,602	191	441	6,004	243	4,315	838	609
60-64	11,177	5,264	347	4,281	295	341	5,912	227	3,971	1,207	508
65-69	9,378	4,292	263	3,437	358	235	5,086	213	2,868	1,666	339
70-74	7,609	3,239	185	2,510	400	144	4,370	207	1,975	1,970	219
75-79	5,542	2,152	120	1,604	372	56	3,390	190	1,065	2,021	115
80-84	3,504	1,201	65	829	278	29	2,303	141	487	1,620	55
85-89	1,870	551	29	301	200	20	1,319	80	212	996	32
90-94	769	200	10	75	103	11	569	34	63	458	14
95+	231	55	3	10	38	4	176	10	9	152	4
0-19	73,191	37,426	37,237	186	0	3	35,765	35,087	637	3	37
20-64	145,077	72,502	18,977	46,988	732	5,805	72,575	13,045	48,625	3,364	7,540
65+	28,902	11,689	676	8,766	1,748	499	17,213	875	6,678	8,882	778
20-65	147,118	73,449	19,037	47,751	801	5,860	73,668	13,089	49,288	3,670	7,621
20-66	149,062	74,348	19,093	48,472	871	5,911	74,714	13,133	49,894	3,994	7,694
20-67	150,933	75,209	19,145	49,162	943	5,958	75,724	13,175	50,461	4,328	7,761
20-68	152,729	76,025	19,194	49,813	1,016	6,001	76,705	13,217	50,993	4,673	7,822
20-69	154,455	76,794	19,240	50,425	1,089	6,040	77,661	13,258	51,493	5,030	7,879
66+	26,861	10,742	616	8,003	1,679	443	16,120	831	6,016	8,576	697
67+	24,917	9,843	560	7,282	1,609	392	15,074	788	5,409	8,253	624
68+	23,046	8,982	507	6,592	1,537	345	14,064	746	4,842	7,919	557
69+	21,250	8,166	458	5,941	1,464	303	13,084	704	4,311	7,574	495
70+	19,525	7,397	413	5,330	1,391	264	12,128	662	3,810	7,217	438
Total	247,170	121,617	56,890	55,940	2,481	6,307	125,553	49,008	55,940	12,250	8,355
Alternative I:											
1990:											
0-4	19,314	9,879	9,879	0	0	0	9,434	9,434	0	0	0
5-9	19,093	9,765	9,765	0	0	0	9,328	9,328	0	0	0
10-14	17,821	9,120	9,120	0	0	0	8,701	8,699	2	0	0
15-19	17,813	9,105	8,926	177	0	3	8,708	8,085	604	0	19
20-24	19,334	9,840	7,478	2,203	1	159	9,494	5,572	3,588	7	327
25-29	22,249	11,308	5,330	5,261	4	713	10,941	3,490	6,422	34	995
30-34	23,076	11,731	3,273	7,186	11	1,261	11,345	2,028	7,777	79	1,462
35-39	20,812	10,635	1,907	7,405	21	1,302	10,177	1,158	7,329	136	1,554
40-44	18,493	9,262	934	7,038	50	1,240	9,231	682	6,801	188	1,559
45-49	14,765	7,230	619	5,587	59	965	7,535	399	5,526	324	1,287
50-54	11,994	5,919	404	4,767	97	652	6,075	286	4,421	463	906
55-59	10,951	5,321	345	4,330	149	496	5,629	245	3,979	705	700
60-64	10,993	5,213	337	4,228	260	387	5,780	227	3,812	1,151	591
65-69	10,207	4,659	289	3,706	379	285	5,548	207	3,269	1,589	483
70-74	8,162	3,555	202	2,735	432	187	4,606	188	2,150	1,957	312
75-79	6,164	2,424	117	1,780	425	103	3,740	171	1,294	2,087	189
80-84	4,027	1,385	55	956	337	37	2,642	141	579	1,835	88
85-89	2,129	628	22	366	224	17	1,501	85	206	1,174	36
90-94	862	218	7	102	100	9	645	33	73	522	17
95+	290	65	2	21	38	4	225	10	17	191	7
0-19	74,041	37,870	37,690	177	0	3	36,172	35,547	606	0	19
20-64	152,668	76,459	20,627	48,005	653	7,175	76,209	14,087	49,653	3,088	9,380
65+	31,841	12,934	693	9,666	1,935	641	18,907	834	7,588	9,354	1,130
20-65	154,806	77,448	20,690	48,801	718	7,239	77,359	14,130	50,373	3,367	9,488
20-66	156,905	78,410	20,751	49,570	790	7,300	78,495	14,172	51,066	3,666	9,591
20-67	158,947	79,342	20,808	50,310	866	7,357	79,606	14,212	51,724	3,982	9,688
20-68	160,948	80,250	20,864	51,028	948	7,410	80,698	14,254	52,345	4,320	9,779
20-69	162,875	81,118	20,915	51,711	1,031	7,460	81,757	14,294	52,923	4,676	9,863
66+	29,703	11,946	630	8,870	1,869	576	17,757	791	6,869	9,075	1,023
67+	27,604	10,983	570	8,101	1,797	515	16,621	750	6,176	8,776	920
68+	25,562	10,052	512	7,361	1,721	459	15,510	709	5,518	8,460	823
69+	23,561	9,144	457	6,642	1,640	405	14,418	668	4,897	8,122	732
70+	21,634	8,275	405	5,959	1,556	355	13,359	627	4,319	7,766	648
Total	258,551	127,263	59,010	57,847	2,587	7,818	131,288	50,468	57,848	12,442	10,529

Table 20.—July 1 Population in the Social Security Area by Alternative, Year, Age Group, Sex, and Marital Status (Cont.)
[In thousands]

Alternative, year, and age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
Alternative I: (Cont.)											
1995:											
0-4	19,422	9,936	9,936	0	0	0	9,486	9,486	0	0	0
5-9	19,508	9,973	9,973	0	0	0	9,535	9,535	0	0	0
10-14	19,289	9,863	9,863	0	0	0	9,426	9,424	2	0	0
15-19	18,033	9,219	9,064	152	0	2	8,814	8,276	522	0	16
20-24	18,068	9,210	7,124	1,939	1	146	8,858	5,345	3,204	6	304
25-29	19,692	9,996	4,846	4,516	4	632	9,696	3,131	5,659	24	882
30-34	22,542	11,436	3,791	6,455	10	1,181	11,107	2,356	7,269	59	1,423
35-39	23,187	11,757	2,637	7,611	21	1,489	11,430	1,628	7,917	120	1,765
40-44	20,785	10,583	1,662	7,413	40	1,469	10,201	1,023	7,178	203	1,797
45-49	18,350	9,149	847	6,868	79	1,356	9,201	633	6,521	301	1,746
50-54	14,526	7,062	569	5,452	100	941	7,464	381	5,242	482	1,360
55-59	11,639	5,675	365	4,560	148	602	5,964	274	4,101	678	911
60-64	10,389	4,957	305	4,005	218	429	5,431	231	3,530	997	674
65-69	10,062	4,635	283	3,674	354	323	5,427	208	3,144	1,519	556
70-74	8,897	3,872	223	2,952	470	227	5,025	183	2,451	1,954	437
75-79	6,630	2,672	129	1,945	467	131	3,958	157	1,414	2,123	264
80-84	4,504	1,565	54	1,069	381	60	2,939	128	710	1,959	142
85-89	2,475	728	19	442	246	21	1,748	86	250	1,354	58
90-94	1,001	251	5	114	123	8	751	36	62	633	20
95+	337	72	1	26	42	3	264	9	18	229	9
0-19	76,252	38,992	38,837	152	0	2	37,261	36,720	524	0	16
20-64	159,177	79,825	22,144	48,818	619	8,244	79,352	15,000	50,619	2,870	10,863
65+	33,906	13,794	715	10,222	2,083	774	20,112	807	8,049	9,770	1,485
20-65	161,245	80,797	22,204	49,596	679	8,319	80,448	15,044	51,287	3,135	10,982
20-66	163,297	81,753	22,262	50,356	748	8,387	81,543	15,086	51,932	3,428	11,097
20-67	165,325	82,689	22,320	51,097	821	8,451	82,636	15,128	52,564	3,735	11,209
20-68	167,305	83,590	22,375	51,808	896	8,511	83,715	15,169	53,175	4,055	11,316
20-69	169,238	84,460	22,427	52,492	974	8,567	84,779	15,208	53,764	4,389	11,419
66+	31,837	12,822	656	9,444	2,023	699	19,015	763	7,381	9,505	1,365
67+	29,785	11,866	597	8,684	1,954	631	17,920	721	6,736	9,213	1,250
68+	27,757	10,930	540	7,943	1,881	567	16,827	679	6,104	8,905	1,139
69+	25,777	10,029	485	7,232	1,806	506	15,748	638	5,493	8,585	1,032
70+	23,844	9,159	432	6,548	1,729	450	14,684	599	4,905	8,252	929
Total	269,335	132,611	61,696	59,192	2,702	9,020	136,724	52,527	59,192	12,641	12,363
2000:											
0-4	19,435	9,944	9,944	0	0	0	9,491	9,491	0	0	0
5-9	19,619	10,031	10,031	0	0	0	9,588	9,588	0	0	0
10-14	19,705	10,073	10,072	0	0	0	9,632	9,630	2	0	0
15-19	19,499	9,961	9,803	155	0	3	9,538	9,004	518	0	16
20-24	18,291	9,326	7,384	1,808	1	134	8,965	5,758	2,922	6	279
25-29	18,435	9,374	4,773	4,019	3	579	9,062	3,140	5,076	21	825
30-34	20,003	10,137	3,521	5,560	8	1,049	9,866	2,132	6,424	46	1,265
35-39	22,664	11,469	3,107	6,935	18	1,409	11,195	1,903	7,510	99	1,683
40-44	23,150	11,699	2,326	7,671	40	1,662	11,450	1,440	7,806	191	2,013
45-49	20,626	10,457	1,511	7,310	71	1,565	10,169	947	6,943	310	1,969
50-54	18,044	8,937	782	6,692	129	1,334	9,107	604	6,210	475	1,819
55-59	14,101	6,777	516	5,246	161	854	7,324	365	4,884	720	1,356
60-64	11,062	5,304	324	4,244	218	519	5,758	258	3,658	969	873
65-69	9,525	4,425	258	3,501	311	355	5,101	212	2,917	1,343	629
70-74	8,777	3,863	220	2,934	453	256	4,914	184	2,356	1,875	499
75-79	7,240	2,914	143	2,101	511	158	4,327	153	1,613	2,194	367
80-84	4,862	1,729	61	1,172	421	75	3,133	119	779	2,038	198
85-89	2,790	823	19	496	276	32	1,967	79	307	1,489	93
90-94	1,180	291	5	145	132	10	889	37	78	742	32
95+	398	84	1	27	53	3	314	11	14	279	10
0-19	78,258	40,008	39,851	155	0	3	38,249	37,713	520	0	16
20-64	166,377	83,480	24,243	49,485	648	9,104	82,897	16,546	51,433	2,836	12,082
65+	34,773	14,128	707	10,376	2,157	889	20,644	794	8,063	9,959	1,827
20-65	168,373	84,422	24,298	50,237	701	9,186	83,951	16,591	52,067	3,068	12,224
20-66	170,294	85,323	24,351	50,953	761	9,259	84,971	16,635	52,662	3,321	12,354
20-67	172,168	86,194	24,401	51,642	823	9,327	85,974	16,677	53,235	3,586	12,477
20-68	174,036	87,053	24,451	52,319	889	9,394	86,983	16,718	53,799	3,871	12,596
20-69	175,902	87,904	24,501	52,986	958	9,459	87,998	16,758	54,350	4,178	12,711
66+	32,777	13,186	652	9,624	2,103	807	19,591	749	7,429	9,727	1,686
67+	30,856	12,285	599	8,908	2,044	734	18,571	706	6,835	9,474	1,556
68+	28,982	11,415	548	8,219	1,982	665	17,567	664	6,261	9,210	1,433
69+	27,114	10,556	498	7,543	1,916	599	16,559	623	5,698	8,924	1,314
70+	25,248	9,704	449	6,875	1,846	534	15,544	582	5,146	8,617	1,198
Total	279,408	137,617	64,800	60,016	2,805	9,995	141,791	55,054	60,016	12,796	13,925

Table 20.—July 1 Population in the Social Security Area by Alternative, Year, Age Group, Sex, and Marital Status (Cont.)

[In thousands]

Alternative, year, and age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
Alternative I: (Cont.)											
2020:											
0-4	22,978	11,758	11,758	0	0	0	11,220	11,220	0	0	0
5-9	22,765	11,643	11,643	0	0	0	11,122	11,122	0	0	0
10-14	21,801	11,148	11,148	0	0	0	10,653	10,651	2	0	0
15-19	20,721	10,586	10,447	136	0	2	10,136	9,657	464	0	14
20-24	20,297	10,343	8,531	1,685	1	126	9,955	6,933	2,747	5	270
25-29	20,643	10,493	6,130	3,802	3	558	10,151	4,588	4,731	18	814
30-34	20,844	10,575	4,601	4,989	6	979	10,269	3,334	5,665	37	1,233
35-39	20,575	10,417	3,641	5,585	12	1,179	10,158	2,592	6,026	68	1,472
40-44	19,148	9,671	2,806	5,603	24	1,238	9,477	1,904	5,898	121	1,553
45-49	18,806	9,457	2,400	5,693	49	1,315	9,349	1,486	5,973	221	1,669
50-54	19,702	9,829	2,217	6,112	103	1,397	9,873	1,347	6,289	409	1,828
55-59	21,444	10,597	2,162	6,760	205	1,470	10,847	1,416	6,629	759	2,043
60-64	20,820	10,160	1,626	6,828	349	1,357	10,660	1,136	6,222	1,220	2,083
65-69	17,174	8,244	980	5,784	485	995	8,930	744	4,803	1,639	1,743
70-74	13,376	6,061	434	4,341	610	676	7,316	445	3,399	2,083	1,389
75-79	8,871	3,644	205	2,577	546	315	5,227	240	1,907	2,199	880
80-84	5,419	1,999	70	1,364	437	127	3,420	140	870	1,961	449
85-89	3,196	991	23	601	313	54	2,205	79	351	1,544	231
90-94	1,659	425	6	206	190	22	1,234	35	114	973	114
95+	727	151	1	49	93	8	576	11	26	487	53
0-19	88,266	45,135	44,996	137	0	2	43,131	42,650	466	0	14
20-64	182,280	91,541	34,114	47,057	751	9,620	90,738	24,736	50,179	2,858	12,965
65+	50,422	21,514	1,720	14,923	2,674	2,198	28,907	1,693	11,471	10,885	4,858
20-65	186,079	93,369	34,365	48,319	837	9,848	92,709	24,923	51,275	3,162	13,349
20-66	189,726	95,113	34,587	49,533	932	10,061	94,613	25,090	52,314	3,494	13,715
20-67	193,205	96,764	34,779	50,694	1,031	10,260	96,441	25,238	53,294	3,834	14,075
20-68	196,462	98,323	34,947	51,798	1,133	10,445	98,139	25,368	54,190	4,171	14,410
20-69	199,454	99,786	35,094	52,840	1,236	10,615	99,668	25,481	54,982	4,497	14,708
66+	46,623	19,686	1,469	13,660	2,587	1,970	26,936	1,506	10,375	10,581	4,474
67+	42,975	17,943	1,247	12,446	2,492	1,757	25,032	1,339	9,336	10,249	4,108
68+	39,496	16,291	1,055	11,285	2,393	1,558	23,205	1,192	8,355	9,909	3,749
69+	36,239	14,733	887	10,181	2,292	1,373	21,506	1,061	7,459	9,573	3,413
70+	33,247	13,270	740	9,139	2,189	1,202	19,977	949	6,667	9,246	3,115
Total	320,967	158,191	80,830	62,116	3,425	11,820	162,777	69,080	62,116	13,743	17,838
2040:											
0-4	26,017	13,314	13,314	0	0	0	12,703	12,703	0	0	0
5-9	25,217	12,898	12,898	0	0	0	12,318	12,318	0	0	0
10-14	24,423	12,491	12,490	0	0	0	11,933	11,931	2	0	0
15-19	23,950	12,238	12,076	159	0	3	11,713	11,155	541	0	17
20-24	23,818	12,141	10,017	1,976	1	148	11,677	8,155	3,202	5	315
25-29	23,763	12,085	7,051	4,390	3	641	11,678	5,335	5,395	19	928
30-34	22,920	11,636	5,046	5,522	6	1,062	11,284	3,733	6,188	38	1,325
35-39	21,790	11,036	3,921	5,912	12	1,192	10,753	2,865	6,342	67	1,480
40-44	21,124	10,667	3,362	6,021	24	1,260	10,457	2,428	6,321	119	1,589
45-49	20,973	10,549	3,088	6,113	46	1,302	10,424	2,248	6,278	211	1,687
50-54	20,543	10,269	2,825	6,132	87	1,225	10,274	2,112	6,092	368	1,702
55-59	19,577	9,692	2,466	5,979	151	1,096	9,885	1,900	5,706	621	1,657
60-64	17,375	8,488	1,928	5,431	235	893	8,887	1,480	4,965	958	1,484
65-69	15,778	7,530	1,558	4,843	373	757	8,247	1,153	4,269	1,448	1,377
70-74	14,744	6,755	1,253	4,266	564	673	7,989	986	3,587	2,083	1,333
75-79	13,570	5,799	914	3,574	762	549	7,771	928	2,771	2,786	1,286
80-84	10,407	3,973	409	2,436	787	341	6,434	632	1,713	3,026	1,062
85-89	6,054	1,995	111	1,157	573	153	4,060	302	734	2,367	656
90-94	2,760	756	17	371	311	57	2,004	96	215	1,362	331
95+	1,054	228	2	80	130	16	826	21	41	622	142
0-19	99,607	50,940	50,778	159	0	3	48,667	48,107	543	0	17
20-64	191,882	96,563	39,703	47,475	566	8,819	95,319	30,257	50,487	2,407	12,167
65+	64,367	27,036	4,264	16,726	3,500	2,546	37,331	4,118	13,331	13,695	6,187
20-65	195,053	98,095	40,025	48,470	626	8,974	96,958	30,496	51,376	2,646	12,440
20-66	198,160	99,588	40,334	49,440	691	9,123	98,572	30,721	52,237	2,905	12,708
20-67	201,254	101,066	40,636	50,395	764	9,271	100,189	30,943	53,080	3,189	12,977
20-68	204,426	102,570	40,946	51,356	846	9,422	101,856	31,173	53,922	3,505	13,256
20-69	207,659	104,094	41,261	52,318	938	9,576	103,566	31,410	54,757	3,855	13,544
66+	61,196	25,504	3,942	15,732	3,440	2,391	35,692	3,880	12,442	13,455	5,915
67+	58,089	24,011	3,634	14,762	3,374	2,241	34,078	3,654	11,581	13,196	5,646
68+	54,995	22,534	3,332	13,807	3,302	2,094	32,461	3,433	10,738	12,913	5,377
69+	51,823	21,029	3,021	12,846	3,220	1,943	30,794	3,202	9,896	12,597	5,099
70+	48,590	19,506	2,706	11,883	3,127	1,789	29,084	2,965	9,062	12,247	4,811
Total	355,856	174,539	94,745	64,361	4,066	11,367	181,317	82,482	64,361	16,102	18,371

Table 20.—July 1 Population in the Social Security Area by Alternative, Year, Age Group, Sex, and Marital Status (Cont.)
[In thousands]

Alternative, year, and age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
Alternative I: (Cont.)											
2060:											
0-4	29,137	14,912	14,912	0	0	0	14,225	14,225	0	0	0
5-9	28,416	14,536	14,536	0	0	0	13,880	13,880	0	0	0
10-14	27,858	14,249	14,249	0	0	0	13,609	13,607	2	0	0
15-19	27,393	13,999	13,814	181	0	3	13,394	12,761	614	0	19
20-24	26,839	13,685	11,294	2,225	1	166	13,154	9,206	3,590	6	352
25-29	26,196	13,327	7,758	4,859	3	707	12,870	5,848	5,977	20	1,024
30-34	25,515	12,957	5,613	6,154	7	1,183	12,557	4,096	6,943	41	1,477
35-39	24,973	12,654	4,512	6,757	13	1,372	12,319	3,261	7,287	73	1,698
40-44	24,582	12,421	3,924	6,994	27	1,477	12,161	2,847	7,328	131	1,855
45-49	24,024	12,095	3,514	7,032	51	1,498	11,929	2,607	7,155	230	1,937
50-54	22,565	11,296	3,060	6,809	93	1,335	11,269	2,343	6,692	386	1,848
55-59	20,763	10,297	2,623	6,402	154	1,117	10,466	2,073	6,081	629	1,682
60-64	19,206	9,399	2,294	5,943	244	918	9,807	1,871	5,426	985	1,525
65-69	17,707	8,482	2,001	5,346	378	755	9,225	1,737	4,633	1,459	1,397
70-74	15,550	7,173	1,601	4,451	529	593	8,376	1,552	3,616	1,962	1,247
75-79	12,666	5,467	1,070	3,347	632	419	7,199	1,267	2,499	2,373	1,060
80-84	8,988	3,477	516	2,109	609	243	5,511	846	1,429	2,453	783
85-89	5,797	1,925	197	1,087	507	134	3,872	480	680	2,168	544
90-94	3,289	924	62	440	350	71	2,365	233	256	1,523	353
95+	1,921	444	16	145	245	37	1,478	96	74	1,035	272
0-19	112,804	57,695	57,511	182	0	3	55,109	54,473	616	0	19
20-64	214,663	108,132	44,591	53,173	593	9,774	106,532	34,152	56,478	2,503	13,398
65+	65,917	27,892	5,464	16,925	3,251	2,252	38,026	6,213	13,186	12,971	5,655
20-65	218,333	109,908	45,016	54,297	657	9,938	108,425	34,509	57,475	2,753	13,688
20-66	221,943	111,647	45,429	55,396	726	10,095	110,296	34,861	58,438	3,024	13,972
20-67	225,490	113,347	45,830	56,468	802	10,247	112,143	35,209	59,367	3,315	14,252
20-68	228,968	115,003	46,219	57,510	883	10,391	113,965	35,552	60,258	3,628	14,526
20-69	232,370	116,613	46,593	58,519	971	10,530	115,757	35,890	61,111	3,961	14,795
66+	62,248	26,116	5,039	15,801	3,188	2,088	36,132	5,856	12,190	12,721	5,366
67+	58,638	24,377	4,626	14,702	3,118	1,930	34,261	5,504	11,226	12,450	5,081
68+	55,091	22,677	4,225	13,631	3,043	1,779	32,414	5,156	10,298	12,159	4,802
69+	51,613	21,020	3,836	12,588	2,961	1,634	30,593	4,813	9,406	11,846	4,528
70+	48,210	19,410	3,462	11,579	2,873	1,496	28,800	4,475	8,553	11,513	4,259
Total	393,385	193,719	107,566	70,280	3,844	12,029	199,666	94,838	70,281	15,475	19,073
2080:											
0-4	32,781	16,778	16,778	0	0	0	16,004	16,004	0	0	0
5-9	32,089	16,417	16,417	0	0	0	15,672	15,672	0	0	0
10-14	31,416	16,070	16,070	0	0	0	15,346	15,343	3	0	0
15-19	30,689	15,685	15,479	203	0	3	15,004	14,295	687	0	21
20-24	29,944	15,272	12,601	2,484	1	186	14,672	10,257	4,015	6	394
25-29	29,371	14,947	8,697	5,453	3	794	14,424	6,528	6,725	22	1,150
30-34	28,913	14,688	6,364	6,974	7	1,343	14,224	4,629	7,877	45	1,674
35-39	28,369	14,381	5,121	7,683	15	1,563	13,988	3,711	8,268	80	1,929
40-44	27,557	13,932	4,374	7,871	29	1,658	13,625	3,186	8,220	142	2,078
45-49	26,414	13,309	3,823	7,783	55	1,647	13,105	2,815	7,923	245	2,122
50-54	25,084	12,571	3,396	7,584	101	1,489	12,513	2,546	7,505	416	2,046
55-59	23,785	11,815	3,032	7,314	173	1,296	11,970	2,351	7,003	692	1,925
60-64	22,378	10,979	2,696	6,915	279	1,090	11,399	2,191	6,333	1,094	1,781
65-69	20,376	9,798	2,300	6,190	426	883	10,578	2,017	5,347	1,603	1,611
70-74	17,245	8,003	1,759	5,013	573	658	9,242	1,730	4,050	2,096	1,366
75-79	13,659	5,946	1,166	3,675	664	442	7,713	1,397	2,747	2,475	1,094
80-84	10,181	3,985	642	2,408	668	267	6,196	1,087	1,646	2,634	829
85-89	6,833	2,317	285	1,306	574	152	4,516	758	821	2,351	587
90-94	3,743	1,080	94	528	384	75	2,663	400	304	1,596	363
95+	2,067	490	25	173	255	37	1,577	163	86	1,064	264
0-19	126,975	64,950	64,743	203	0	3	62,025	61,315	689	0	21
20-64	241,816	121,895	50,105	60,061	664	11,065	119,921	38,213	63,868	2,742	15,099
65+	74,105	31,619	6,269	19,293	3,544	2,513	42,485	7,553	15,001	13,819	6,113
20-65	246,078	123,965	50,600	61,370	736	11,258	122,113	38,631	65,027	3,019	15,436
20-66	250,255	125,984	51,079	62,647	815	11,444	124,271	39,043	66,144	3,318	15,767
20-67	254,339	127,949	51,540	63,889	900	11,620	126,391	39,447	67,216	3,638	16,090
20-68	258,324	129,855	51,983	65,092	991	11,789	128,470	39,844	68,241	3,981	16,404
20-69	262,192	131,693	52,405	66,251	1,089	11,948	130,499	40,230	69,214	4,344	16,710
66+	69,842	29,549	5,774	17,984	3,471	2,320	40,293	7,135	13,842	13,541	5,775
67+	65,665	27,530	5,295	16,707	3,393	2,135	38,135	6,723	12,725	13,242	5,445
68+	61,581	25,565	4,834	15,465	3,308	1,958	36,016	6,319	11,653	12,922	5,122
69+	57,596	23,659	4,391	14,262	3,216	1,790	33,937	5,922	10,628	12,579	4,807
70+	53,728	21,821	3,969	13,103	3,118	1,631	31,908	5,536	9,654	12,216	4,502
Total	442,895	218,463	121,117	79,557	4,207	13,582	224,432	107,081	79,558	16,560	21,233

Table 20.—July 1 Population in the Social Security Area by Alternative, Year, Age Group, Sex, and Marital Status (Cont.)
[In thousands]

Alternative, year, and age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
Alternative II:											
1990:											
0-4	19,055	9,748	9,748	0	0	0	9,307	9,307	0	0	0
5-9	19,040	9,738	9,738	0	0	0	9,302	9,302	0	0	0
10-14	17,770	9,094	9,094	0	0	0	8,676	8,674	2	0	0
15-19	17,753	9,075	8,887	185	0	3	8,678	8,029	630	0	19
20-24	19,252	9,800	7,375	2,265	1	158	9,452	5,454	3,668	7	324
25-29	22,139	11,251	5,218	5,330	4	699	10,888	3,397	6,487	33	971
30-34	22,985	11,683	3,210	7,232	10	1,230	11,302	1,983	7,816	77	1,426
35-39	20,758	10,607	1,880	7,436	20	1,272	10,151	1,141	7,353	133	1,523
40-44	18,460	9,246	924	7,058	49	1,216	9,214	675	6,818	185	1,536
45-49	14,743	7,220	613	5,601	58	948	7,523	395	5,537	319	1,272
50-54	11,977	5,912	400	4,777	94	641	6,065	283	4,429	457	895
55-59	10,938	5,318	343	4,340	146	489	5,620	244	3,987	695	693
60-64	10,987	5,213	335	4,239	256	383	5,773	226	3,822	1,139	587
65-69	10,207	4,662	288	3,717	374	283	5,545	206	3,280	1,577	481
70-74	8,168	3,561	201	2,746	428	186	4,608	188	2,159	1,949	311
75-79	6,178	2,431	117	1,790	422	103	3,747	171	1,302	2,085	189
80-84	4,045	1,392	56	964	336	37	2,652	141	584	1,838	88
85-89	2,146	634	22	370	224	17	1,512	85	209	1,181	37
90-94	873	221	7	103	101	9	652	34	74	528	17
95+	295	66	2	21	39	4	229	10	18	195	7
0-19	73,619	37,656	37,467	185	0	3	35,963	35,312	632	0	19
20-64	152,239	76,251	20,297	48,279	639	7,037	75,988	13,798	49,917	3,045	9,228
65+	31,911	12,966	693	9,711	1,924	638	18,944	836	7,626	9,353	1,130
20-65	154,377	77,241	20,360	49,076	703	7,101	77,137	13,840	50,639	3,323	9,335
20-66	156,476	78,204	20,420	49,848	774	7,161	78,272	13,882	51,334	3,619	9,438
20-67	158,518	79,136	20,478	50,590	850	7,217	79,382	13,922	51,994	3,932	9,534
20-68	160,519	80,045	20,533	51,311	930	7,271	80,474	13,964	52,617	4,269	9,625
20-69	162,446	80,914	20,585	51,996	1,013	7,320	81,533	14,004	53,197	4,623	9,709
66+	29,773	11,977	630	8,913	1,860	574	17,796	793	6,904	9,076	1,022
67+	27,674	11,014	570	8,142	1,789	514	16,660	752	6,209	8,780	920
68+	25,632	10,082	512	7,399	1,713	458	15,550	711	5,550	8,466	823
69+	23,631	9,173	457	6,679	1,633	404	14,458	670	4,926	8,130	733
70+	21,704	8,304	405	5,994	1,550	355	13,400	629	4,346	7,776	649
Total	257,769	126,873	58,457	58,175	2,563	7,678	130,895	49,945	58,175	12,399	10,376
1995:											
0-4	18,474	9,453	9,453	0	0	0	9,021	9,021	0	0	0
5-9	19,176	9,806	9,806	0	0	0	9,370	9,370	0	0	0
10-14	19,166	9,801	9,801	0	0	0	9,365	9,362	2	0	0
15-19	17,900	9,152	8,977	172	0	3	8,748	8,147	584	0	17
20-24	17,901	9,128	6,855	2,120	1	152	8,773	4,998	3,460	6	309
25-29	19,460	9,881	4,492	4,765	3	621	9,580	2,805	5,908	23	844
30-34	22,299	11,309	3,524	6,656	9	1,120	10,990	2,149	7,456	55	1,330
35-39	23,020	11,671	2,500	7,761	18	1,391	11,349	1,532	8,049	112	1,656
40-44	20,692	10,539	1,603	7,521	36	1,379	10,153	985	7,269	192	1,707
45-49	18,299	9,128	825	6,946	73	1,284	9,171	617	6,587	287	1,681
50-54	14,493	7,051	557	5,509	94	891	7,442	373	5,290	462	1,317
55-59	11,618	5,673	357	4,604	139	573	5,945	268	4,139	652	885
60-64	10,387	4,969	300	4,049	207	413	5,418	227	3,568	963	659
65-69	10,085	4,659	281	3,722	340	315	5,426	206	3,189	1,483	549
70-74	8,946	3,905	223	3,001	456	224	5,041	183	2,497	1,926	435
75-79	6,699	2,708	130	1,989	458	131	3,991	158	1,452	2,115	266
80-84	4,589	1,602	56	1,105	379	62	2,988	130	737	1,975	145
85-89	2,556	755	20	465	249	22	1,801	89	263	1,389	60
90-94	1,053	265	6	123	128	8	788	38	67	662	21
95+	362	78	1	28	45	4	284	10	19	245	9
0-19	74,715	38,211	38,036	172	0	3	36,504	35,900	586	0	17
20-64	158,169	79,348	21,012	49,932	579	7,824	78,821	13,954	51,726	2,752	10,389
65+	34,290	13,972	718	10,433	2,055	766	20,318	815	8,225	9,794	1,485
20-65	160,240	80,324	21,071	50,720	636	7,897	79,916	13,997	52,402	3,010	10,507
20-66	162,295	81,285	21,130	51,490	702	7,963	81,010	14,039	53,057	3,295	10,620
20-67	164,328	82,225	21,186	52,241	772	8,026	82,103	14,081	53,698	3,595	10,730
20-68	166,314	83,132	21,241	52,962	844	8,085	83,182	14,121	54,317	3,908	10,836
20-69	168,254	84,007	21,293	53,654	919	8,140	84,247	14,160	54,915	4,234	10,938
66+	32,219	12,996	659	9,645	1,999	694	19,223	772	7,548	9,535	1,367
67+	30,164	12,035	601	8,875	1,932	627	18,129	729	6,894	9,251	1,254
68+	28,131	11,095	544	8,124	1,862	565	17,036	688	6,253	8,950	1,144
69+	26,145	10,189	489	7,403	1,790	506	15,957	648	5,633	8,637	1,038
70+	24,205	9,314	437	6,711	1,715	451	14,892	609	5,036	8,311	937
Total	267,175	131,532	59,767	60,537	2,634	8,593	135,643	50,669	60,537	12,546	11,891

Table 20.—July 1 Population in the Social Security Area by Alternative, Year, Age Group, Sex, and Marital Status (Cont.)
[In thousands]

Alternative, year, and age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
Alternative II: (Cont.)											
2000:											
0-4	17,853	9,137	9,137	0	0	0	8,717	8,717	0	0	0
5-9	18,600	9,513	9,513	0	0	0	9,087	9,087	0	0	0
10-14	19,304	9,870	9,870	0	0	0	9,434	9,432	2	0	0
15-19	19,295	9,859	9,667	189	0	3	9,437	8,795	623	0	18
20-24	18,053	9,209	6,951	2,110	1	147	8,844	5,192	3,351	6	295
25-29	18,122	9,218	4,175	4,457	3	583	8,903	2,552	5,537	20	794
30-34	19,641	9,953	3,018	5,939	7	990	9,688	1,713	6,787	42	1,146
35-39	22,351	11,308	2,756	7,255	16	1,281	11,043	1,636	7,812	89	1,506
40-44	22,956	11,604	2,144	7,930	34	1,496	11,352	1,310	8,043	173	1,826
45-49	20,530	10,417	1,430	7,512	62	1,413	10,113	893	7,116	285	1,819
50-54	18,002	8,928	753	6,846	115	1,213	9,075	582	6,340	442	1,712
55-59	14,086	6,786	501	5,363	145	778	7,301	354	4,982	676	1,289
60-64	11,073	5,331	315	4,341	198	477	5,742	251	3,741	914	836
65-69	9,575	4,473	254	3,595	288	335	5,103	208	3,002	1,283	610
70-74	8,882	3,934	220	3,036	430	248	4,948	184	2,447	1,823	494
75-79	7,396	2,999	147	2,199	495	158	4,397	155	1,699	2,172	371
80-84	5,042	1,811	65	1,250	418	79	3,231	123	839	2,064	206
85-89	2,967	886	21	547	285	34	2,081	84	340	1,557	100
90-94	1,301	326	5	166	143	11	975	42	89	809	35
95+	463	99	1	33	61	4	364	13	17	323	12
0-19	75,053	38,379	38,187	189	0	3	36,674	36,030	625	0	18
20-64	164,814	82,754	22,043	51,753	579	8,379	82,060	14,484	53,708	2,646	11,223
65+	35,626	14,527	713	10,825	2,119	869	21,099	808	8,433	10,031	1,827
20-65	166,816	83,704	22,097	52,524	628	8,455	83,112	14,528	54,359	2,866	11,359
20-66	168,745	84,613	22,149	53,258	683	8,523	84,132	14,571	54,970	3,107	11,485
20-67	170,629	85,493	22,199	53,965	741	8,588	85,136	14,612	55,560	3,359	11,604
20-68	172,509	86,363	22,248	54,661	802	8,652	86,146	14,652	56,141	3,633	11,720
20-69	174,390	87,226	22,297	55,348	868	8,714	87,163	14,692	56,710	3,928	11,833
66+	33,624	13,577	659	10,054	2,070	793	20,047	764	7,783	9,810	1,691
67+	31,695	12,667	608	9,320	2,015	725	19,028	721	7,171	9,570	1,565
68+	29,812	11,787	558	8,612	1,958	660	18,024	680	6,581	9,317	1,446
69+	27,932	10,918	508	7,916	1,896	597	17,014	640	6,001	9,044	1,330
70+	26,051	10,054	459	7,230	1,831	534	15,997	600	5,432	8,748	1,217
Total	275,493	135,660	60,943	62,767	2,698	9,251	139,834	51,322	62,767	12,677	13,069
2020:											
0-4	18,763	9,603	9,603	0	0	0	9,160	9,160	0	0	0
5-9	19,014	9,727	9,727	0	0	0	9,286	9,286	0	0	0
10-14	18,732	9,582	9,582	0	0	0	9,150	9,148	2	0	0
15-19	18,307	9,357	9,174	180	0	3	8,950	8,324	608	0	18
20-24	18,408	9,388	7,073	2,162	1	153	9,020	5,232	3,475	5	308
25-29	19,243	9,791	4,458	4,712	3	617	9,452	2,816	5,779	19	838
30-34	19,997	10,153	3,075	6,061	6	1,011	9,844	1,838	6,788	38	1,179
35-39	19,932	10,099	2,349	6,604	11	1,134	9,833	1,399	7,044	68	1,322
40-44	18,544	9,375	1,810	6,425	22	1,118	9,169	1,032	6,706	116	1,315
45-49	18,276	9,203	1,639	6,387	44	1,133	9,072	854	6,658	208	1,353
50-54	19,289	9,642	1,640	6,761	92	1,150	9,647	879	6,935	382	1,450
55-59	21,233	10,529	1,757	7,425	182	1,165	10,704	1,085	7,273	712	1,635
60-64	20,863	10,242	1,421	7,462	307	1,052	10,621	971	6,790	1,144	1,716
65-69	17,419	8,440	903	6,330	431	777	8,979	681	5,253	1,548	1,497
70-74	13,772	6,324	419	4,793	555	556	7,448	427	3,761	1,999	1,262
75-79	9,308	3,902	206	2,909	512	274	5,406	238	2,169	2,158	841
80-84	5,862	2,230	76	1,600	430	124	3,632	144	1,039	1,994	456
85-89	3,641	1,179	28	755	336	60	2,462	87	451	1,669	255
90-94	2,050	553	9	287	228	29	1,497	43	162	1,154	138
95+	1,047	228	2	81	133	12	819	16	43	686	74
0-19	74,816	38,269	38,086	180	0	3	36,546	35,918	610	0	18
20-64	175,784	88,422	25,222	53,999	667	8,533	87,362	16,106	57,447	2,694	11,116
65+	53,099	22,856	1,643	16,756	2,625	1,832	30,243	1,636	12,878	11,207	4,522
20-65	179,619	90,281	25,450	55,379	743	8,710	89,337	16,274	58,643	2,979	11,441
20-66	183,310	92,061	25,653	56,707	827	8,874	91,249	16,426	59,779	3,292	11,752
20-67	186,839	93,752	25,830	57,977	915	9,030	93,087	16,561	60,851	3,613	12,062
20-68	190,152	95,353	25,987	59,186	1,006	9,175	94,798	16,682	61,832	3,932	12,353
20-69	193,203	96,862	26,125	60,329	1,098	9,310	96,341	16,787	62,700	4,241	12,613
66+	49,264	20,996	1,416	15,376	2,549	1,656	28,268	1,468	11,681	10,921	4,198
67+	45,573	19,217	1,213	14,048	2,465	1,491	26,356	1,316	10,546	10,608	3,886
68+	42,043	17,525	1,035	12,777	2,377	1,336	24,518	1,180	9,474	10,287	3,577
69+	38,731	15,924	879	11,568	2,287	1,191	22,807	1,059	8,493	9,969	3,285
70+	35,680	14,416	741	10,425	2,194	1,055	21,264	955	7,625	9,659	3,025
Total	303,698	149,547	64,952	70,935	3,292	10,368	154,151	53,659	70,935	13,901	15,656

Table 20.—July 1 Population in the Social Security Area by Alternative, Year, Age Group, Sex, and Marital Status (Cont.)
[In thousands]

Alternative, year, and age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
Alternative II: (Cont.)											
2040:											
0-4	18,912	9,680	9,680	0	0	0	9,232	9,232	0	0	0
5-9	18,822	9,630	9,630	0	0	0	9,192	9,192	0	0	0
10-14	18,749	9,591	9,591	0	0	0	9,157	9,155	2	0	0
15-19	18,921	9,672	9,481	188	0	3	9,249	8,597	633	0	19
20-24	19,321	9,857	7,429	2,266	1	160	9,465	5,523	3,615	5	321
25-29	19,666	10,011	4,550	4,829	2	629	9,655	2,934	5,849	18	853
30-34	19,451	9,884	2,959	5,941	5	979	9,567	1,783	6,607	35	1,142
35-39	18,984	9,626	2,217	6,326	10	1,073	9,358	1,271	6,781	61	1,244
40-44	18,918	9,568	1,903	6,491	21	1,152	9,350	1,042	6,850	111	1,347
45-49	19,406	9,781	1,785	6,726	43	1,227	9,625	974	6,979	204	1,468
50-54	19,690	9,871	1,684	6,920	84	1,183	9,819	968	6,968	368	1,516
55-59	19,070	9,483	1,494	6,814	147	1,028	9,587	922	6,593	628	1,444
60-64	17,044	8,383	1,195	6,180	225	783	8,661	749	5,731	961	1,220
65-69	15,710	7,574	1,045	5,546	355	628	8,136	640	4,959	1,455	1,082
70-74	15,040	6,992	935	4,970	543	545	8,048	639	4,245	2,117	1,047
75-79	14,344	6,269	780	4,284	750	454	8,075	731	3,385	2,895	1,065
80-84	11,523	4,562	401	3,047	809	304	6,962	578	2,189	3,235	960
85-89	7,157	2,490	129	1,566	639	156	4,667	315	1,015	2,676	662
90-94	3,606	1,058	24	571	393	70	2,548	117	338	1,708	384
95+	1,670	389	4	151	208	25	1,281	33	79	966	203
0-19	75,404	38,573	38,382	188	0	3	36,830	36,176	636	0	19
20-64	171,551	86,465	25,217	52,493	539	8,216	85,087	16,166	55,973	2,393	10,555
65+	69,051	29,334	3,319	20,136	3,697	2,182	39,717	3,053	16,209	15,052	5,402
20-65	174,682	87,990	25,423	53,625	596	8,346	86,692	16,290	56,998	2,632	10,771
20-66	177,758	89,482	25,624	54,730	658	8,470	88,276	16,410	57,994	2,891	10,981
20-67	180,836	90,966	25,825	55,823	727	8,592	89,869	16,531	58,972	3,175	11,191
20-68	184,008	92,487	26,038	56,927	806	8,716	91,521	16,664	59,953	3,493	11,410
20-69	187,261	94,038	26,262	58,039	894	8,843	93,223	16,806	60,932	3,847	11,638
66+	65,920	27,808	3,113	19,004	3,640	2,052	38,112	2,929	15,183	14,813	5,187
67+	62,844	26,316	2,912	17,899	3,578	1,927	36,528	2,809	14,188	14,554	4,977
68+	59,766	24,832	2,711	16,806	3,509	1,806	34,934	2,688	13,210	14,270	4,766
69+	56,594	23,311	2,497	15,702	3,431	1,681	33,283	2,556	12,229	13,951	4,547
70+	53,341	21,760	2,274	14,590	3,342	1,554	31,581	2,413	11,250	13,597	4,320
Total	316,005	154,372	66,918	72,817	4,236	10,400	161,634	55,395	72,818	17,445	15,976
2060:											
0-4	19,018	9,735	9,735	0	0	0	9,283	9,283	0	0	0
5-9	19,065	9,755	9,755	0	0	0	9,310	9,310	0	0	0
10-14	19,208	9,827	9,827	0	0	0	9,381	9,378	2	0	0
15-19	19,387	9,911	9,717	192	0	3	9,476	8,813	643	0	19
20-24	19,479	9,939	7,495	2,283	1	161	9,540	5,583	3,629	5	323
25-29	19,489	9,924	4,504	4,795	2	623	9,565	2,886	5,817	17	845
30-34	19,484	9,905	2,974	5,944	5	982	9,579	1,752	6,653	33	1,141
35-39	19,608	9,948	2,320	6,502	10	1,116	9,660	1,310	7,004	59	1,287
40-44	19,838	10,041	2,017	6,785	20	1,218	9,797	1,124	7,141	108	1,424
45-49	19,854	10,017	1,814	6,905	41	1,258	9,836	1,028	7,102	194	1,512
50-54	19,217	9,649	1,609	6,819	76	1,145	9,567	935	6,825	336	1,471
55-59	18,258	9,097	1,414	6,578	131	975	9,160	834	6,402	566	1,359
60-64	17,501	8,626	1,279	6,311	216	819	8,875	764	5,939	919	1,253
65-69	16,884	8,173	1,172	5,943	354	703	8,712	742	5,342	1,431	1,196
70-74	15,651	7,334	993	5,236	524	581	8,318	721	4,428	2,044	1,125
75-79	13,318	5,892	699	4,124	648	422	7,426	642	3,217	2,587	980
80-84	9,898	3,987	366	2,722	650	250	5,911	464	1,938	2,779	729
85-89	6,896	2,435	169	1,530	588	148	4,461	308	1,007	2,622	523
90-94	4,402	1,340	70	716	465	88	3,062	196	437	2,059	370
95+	3,331	833	27	309	437	60	2,498	131	164	1,825	378
0-19	76,678	39,228	39,033	192	0	3	37,450	36,785	646	0	19
20-64	172,726	87,146	25,427	52,921	502	8,297	85,580	16,216	56,513	2,237	10,614
65+	70,381	29,994	3,496	20,580	3,665	2,253	40,387	3,203	16,535	15,348	5,301
20-65	176,157	88,822	25,671	54,145	560	8,446	87,335	16,365	57,636	2,476	10,857
20-66	179,565	90,480	25,910	55,354	624	8,591	89,085	16,513	58,735	2,738	11,099
20-67	182,947	92,117	26,145	56,546	694	8,732	90,829	16,662	59,806	3,024	11,338
20-68	186,298	93,732	26,375	57,717	772	8,868	92,566	16,810	60,847	3,333	11,575
20-69	189,611	95,319	26,599	58,864	856	9,000	94,292	16,959	61,855	3,668	11,811
66+	66,950	28,318	3,253	19,355	3,607	2,104	38,632	3,055	15,411	15,108	5,058
67+	63,542	26,661	3,013	18,146	3,543	1,959	36,882	2,906	14,313	14,846	4,816
68+	60,160	25,023	2,778	16,955	3,472	1,818	35,137	2,758	13,242	14,561	4,577
69+	56,809	23,409	2,548	15,784	3,395	1,682	33,401	2,609	12,201	14,251	4,339
70+	53,496	21,822	2,324	14,636	3,311	1,550	31,675	2,461	11,193	13,917	4,104
Total	319,785	156,369	67,957	73,692	4,167	10,553	163,417	56,205	73,693	17,585	15,934

Table 20.—July 1 Population in the Social Security Area by Alternative, Year, Age Group, Sex, and Marital Status (Cont.)
[In thousands]

Alternative, year, and age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
Alternative II: (Cont.)											
2080:											
0-4	19,307	9,883	9,883	0	0	0	9,424	9,424	0	0	0
5-9	19,413	9,934	9,934	0	0	0	9,479	9,479	0	0	0
10-14	19,507	9,980	9,980	0	0	0	9,526	9,524	2	0	0
15-19	19,555	9,998	9,802	193	0	3	9,557	8,889	648	0	19
20-24	19,592	9,999	7,539	2,297	1	162	9,594	5,605	3,659	5	325
25-29	19,741	10,055	4,567	4,854	2	632	9,686	2,909	5,906	16	856
30-34	19,953	10,148	3,057	6,078	5	1,008	9,806	1,796	6,809	32	1,169
35-39	20,086	10,196	2,381	6,660	9	1,146	9,890	1,355	7,158	57	1,321
40-44	20,016	10,138	2,027	6,863	19	1,228	9,879	1,138	7,204	102	1,435
45-49	19,711	9,954	1,790	6,881	37	1,246	9,757	1,001	7,085	180	1,491
50-54	19,294	9,699	1,628	6,847	71	1,153	9,595	915	6,898	316	1,466
55-59	18,920	9,443	1,499	6,791	127	1,026	9,478	864	6,661	545	1,408
60-64	18,461	9,121	1,379	6,646	213	883	9,340	832	6,275	897	1,336
65-69	17,462	8,484	1,215	6,191	340	738	8,979	793	5,556	1,379	1,250
70-74	15,554	7,332	976	5,292	485	579	8,222	709	4,480	1,919	1,114
75-79	13,109	5,856	693	4,143	601	420	7,253	596	3,277	2,430	951
80-84	10,575	4,322	424	2,953	662	283	6,252	490	2,164	2,813	785
85-89	7,935	2,875	222	1,817	649	187	5,060	383	1,233	2,820	624
90-94	5,077	1,600	91	878	520	111	3,477	246	547	2,241	443
95+	3,772	976	34	385	485	71	2,796	146	205	2,038	407
0-19	77,781	39,795	39,599	193	0	3	37,986	37,316	651	0	19
20-64	175,776	88,752	25,869	53,915	484	8,484	87,024	16,414	57,654	2,149	10,807
65+	73,484	31,445	3,655	21,658	3,742	2,389	42,039	3,363	17,463	15,638	5,574
20-65	179,374	90,515	26,127	55,203	541	8,644	88,859	16,576	58,835	2,383	11,065
20-66	182,926	92,248	26,378	56,470	603	8,797	90,678	16,737	59,985	2,637	11,319
20-67	186,426	93,949	26,622	57,712	671	8,945	92,477	16,896	61,099	2,912	11,570
20-68	189,867	95,614	26,858	58,925	744	9,087	94,253	17,053	62,175	3,209	11,816
20-69	193,238	97,236	27,084	60,106	824	9,222	96,003	17,207	63,211	3,528	12,057
66+	69,886	29,682	3,397	20,370	3,685	2,229	40,204	3,201	16,282	15,405	5,315
67+	66,334	27,949	3,146	19,104	3,623	2,076	38,385	3,040	15,133	15,151	5,061
68+	62,834	26,248	2,902	17,862	3,556	1,928	36,586	2,881	14,019	14,876	4,810
69+	59,392	24,583	2,667	16,648	3,482	1,786	34,809	2,724	12,942	14,579	4,564
70+	56,021	22,961	2,440	15,468	3,402	1,651	33,060	2,570	11,907	14,260	4,323
Total	327,041	159,992	69,123	75,767	4,226	10,876	167,049	57,094	75,768	17,788	16,399
Alternative III:											
1990:											
0-4	18,707	9,571	9,571	0	0	0	9,136	9,136	0	0	0
5-9	18,987	9,712	9,712	0	0	0	9,275	9,275	0	0	0
10-14	17,719	9,068	9,068	0	0	0	8,651	8,649	2	0	0
15-19	17,694	9,046	8,849	194	0	3	8,648	7,974	655	0	19
20-24	19,169	9,759	7,276	2,324	1	158	9,410	5,341	3,742	7	320
25-29	22,030	11,195	5,110	5,394	4	687	10,835	3,308	6,546	32	949
30-34	22,894	11,635	3,149	7,274	10	1,201	11,259	1,940	7,853	75	1,392
35-39	20,704	10,580	1,854	7,464	19	1,243	10,124	1,124	7,376	131	1,494
40-44	18,428	9,231	914	7,077	47	1,193	9,197	668	6,833	181	1,514
45-49	14,721	7,210	607	5,615	56	932	7,511	392	5,548	314	1,257
50-54	11,959	5,905	396	4,787	92	630	6,054	281	4,438	450	886
55-59	10,925	5,314	340	4,349	144	482	5,610	242	3,995	686	687
60-64	10,980	5,214	333	4,249	252	379	5,766	224	3,831	1,128	583
65-69	10,207	4,665	286	3,728	370	281	5,541	206	3,291	1,566	479
70-74	8,174	3,565	201	2,756	424	185	4,609	188	2,169	1,941	311
75-79	6,191	2,438	117	1,799	419	103	3,753	171	1,310	2,083	189
80-84	4,062	1,400	56	971	335	37	2,662	142	590	1,842	88
85-89	2,162	639	23	375	225	17	1,523	86	211	1,188	37
90-94	883	223	7	105	102	9	659	34	75	533	17
95+	299	67	2	21	40	4	232	10	18	198	7
0-19	73,106	37,396	37,199	194	0	3	35,711	35,034	657	0	19
20-64	151,810	76,043	19,978	48,534	626	6,905	75,767	13,519	50,163	3,004	9,080
65+	31,978	12,998	692	9,756	1,914	636	18,980	837	7,664	9,351	1,129
20-65	153,947	77,032	20,041	49,334	689	6,968	76,914	13,561	50,887	3,279	9,187
20-66	156,045	77,996	20,101	50,108	759	7,028	78,049	13,603	51,584	3,573	9,289
20-67	158,087	78,929	20,158	50,852	834	7,084	79,158	13,643	52,246	3,883	9,385
20-68	160,088	79,838	20,213	51,575	913	7,137	80,250	13,684	52,872	4,218	9,476
20-69	162,016	80,708	20,265	52,262	995	7,186	81,308	13,725	53,454	4,570	9,559
66+	29,841	12,008	630	8,956	1,850	572	17,833	795	6,940	9,076	1,022
67+	27,742	11,044	570	8,182	1,780	513	16,698	753	6,242	8,782	920
68+	25,701	10,112	512	7,437	1,705	457	15,589	713	5,581	8,471	824
69+	23,699	9,202	457	6,715	1,626	404	14,497	672	4,955	8,137	733
70+	21,771	8,332	406	6,028	1,544	354	13,439	631	4,373	7,785	650
Total	256,894	126,436	57,869	58,484	2,539	7,544	130,458	49,390	58,484	12,355	10,228

Table 20.—July 1 Population in the Social Security Area by Alternative, Year, Age Group, Sex, and Marital Status (Cont.)

[In thousands]

Alternative, year, and age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
Alternative III: (Cont.)											
1995:											
0-4	17,212	8,809	8,809	0	0	0	8,403	8,403	0	0	0
5-9	18,754	9,592	9,592	0	0	0	9,162	9,162	0	0	0
10-14	19,042	9,739	9,739	0	0	0	9,303	9,301	3	0	0
15-19	17,766	9,084	8,889	192	0	3	8,682	8,017	647	0	18
20-24	17,734	9,046	6,592	2,296	1	158	8,687	4,665	3,705	6	312
25-29	19,228	9,765	4,158	4,995	3	609	9,463	2,502	6,135	21	805
30-34	22,055	11,181	3,272	6,840	8	1,063	10,874	1,954	7,626	51	1,242
35-39	22,851	11,584	2,368	7,899	16	1,300	11,267	1,440	8,172	104	1,551
40-44	20,597	10,494	1,545	7,623	33	1,294	10,103	947	7,355	181	1,620
45-49	18,245	9,105	803	7,020	67	1,215	9,141	601	6,649	273	1,617
50-54	14,458	7,038	544	5,564	87	843	7,420	366	5,336	443	1,275
55-59	11,595	5,670	350	4,647	130	544	5,925	263	4,175	627	860
60-64	10,381	4,977	295	4,090	196	396	5,404	224	3,605	931	644
65-69	10,104	4,680	278	3,768	327	307	5,424	204	3,231	1,447	541
70-74	8,990	3,935	223	3,049	443	221	5,055	183	2,542	1,897	434
75-79	6,763	2,743	132	2,032	448	131	4,020	159	1,488	2,105	268
80-84	4,669	1,637	58	1,139	377	63	3,033	133	764	1,988	148
85-89	2,633	782	21	486	252	23	1,851	92	277	1,420	62
90-94	1,103	279	6	131	133	9	824	41	71	690	22
95+	388	84	2	31	48	4	304	11	21	262	10
0-19	72,775	37,224	37,029	192	0	3	35,551	34,883	649	0	18
20-64	157,145	78,861	19,926	50,974	541	7,421	78,284	12,961	52,758	2,638	9,927
65+	34,651	14,141	720	10,636	2,027	758	20,510	822	8,395	9,810	1,484
20-65	159,218	79,840	19,984	51,770	595	7,491	79,378	13,004	53,442	2,889	10,043
20-66	161,276	80,805	20,042	52,549	658	7,556	80,471	13,045	54,105	3,167	10,154
20-67	163,313	81,750	20,098	53,309	726	7,617	81,564	13,087	54,755	3,460	10,263
20-68	165,304	82,661	20,152	54,039	795	7,674	82,643	13,127	55,383	3,766	10,367
20-69	167,249	83,541	20,204	54,741	867	7,728	83,708	13,165	55,989	4,085	10,468
66+	32,578	13,162	661	9,840	1,973	687	19,417	779	7,710	9,559	1,368
67+	30,520	12,197	604	9,060	1,910	623	18,323	737	7,048	9,281	1,257
68+	28,483	11,252	548	8,300	1,842	562	17,231	696	6,398	8,988	1,148
69+	26,493	10,341	493	7,570	1,773	504	16,152	656	5,770	8,682	1,044
70+	24,547	9,461	441	6,868	1,701	451	15,086	618	5,163	8,363	943
Total	264,572	130,226	57,674	61,802	2,568	8,182	134,346	48,666	61,802	12,448	11,429
2000:											
0-4	15,805	8,090	8,090	0	0	0	7,715	7,715	0	0	0
5-9	17,267	8,834	8,834	0	0	0	8,433	8,433	0	0	0
10-14	18,813	9,621	9,621	0	0	0	9,192	9,189	3	0	0
15-19	19,091	9,757	9,527	226	0	4	9,335	8,579	735	0	21
20-24	17,814	9,091	6,516	2,415	1	159	8,723	4,639	3,772	6	306
25-29	17,806	9,062	3,619	4,861	3	579	8,744	2,027	5,948	19	750
30-34	19,277	9,768	2,564	6,270	6	928	9,509	1,347	7,099	38	1,025
35-39	22,034	11,145	2,433	7,537	13	1,162	10,889	1,390	8,082	79	1,338
40-44	22,756	11,506	1,968	8,166	29	1,343	11,250	1,185	8,262	156	1,647
45-49	20,426	10,371	1,348	7,700	53	1,270	10,054	839	7,281	262	1,673
50-54	17,952	8,913	723	6,992	102	1,096	9,040	559	6,464	411	1,605
55-59	14,063	6,788	484	5,473	130	702	7,274	343	5,075	634	1,222
60-64	11,074	5,351	306	4,431	179	435	5,723	244	3,819	862	798
65-69	9,615	4,513	249	3,685	266	313	5,101	204	3,082	1,225	590
70-74	8,974	3,998	219	3,133	407	239	4,976	183	2,535	1,771	487
75-79	7,536	3,077	150	2,292	478	158	4,458	156	1,782	2,145	375
80-84	5,206	1,889	68	1,325	413	82	3,318	126	897	2,082	213
85-89	3,134	949	23	597	292	37	2,185	89	374	1,616	106
90-94	1,420	361	6	189	153	12	1,059	46	102	873	38
95+	531	114	2	39	69	4	417	15	20	368	13
0-19	70,977	36,302	36,072	226	0	4	34,675	33,916	738	0	21
20-64	163,202	81,995	19,960	53,846	516	7,674	81,207	12,575	55,802	2,467	10,364
65+	36,415	14,901	717	11,260	2,078	846	21,514	819	8,792	10,080	1,822
20-65	165,208	82,952	20,013	54,634	561	7,744	82,257	12,618	56,468	2,676	10,495
20-66	167,143	83,868	20,063	55,386	611	7,808	83,275	12,659	57,095	2,905	10,616
20-67	169,034	84,756	20,112	56,111	664	7,868	84,278	12,700	57,701	3,146	10,731
20-68	170,924	85,635	20,160	56,825	721	7,928	85,289	12,739	58,298	3,407	10,844
20-69	172,817	86,508	20,209	57,531	782	7,987	86,308	12,779	58,884	3,692	10,954
66+	34,408	13,944	665	10,471	2,033	775	20,464	776	8,126	9,871	1,691
67+	32,473	13,027	614	9,719	1,982	712	19,446	735	7,499	9,642	1,570
68+	30,582	12,140	565	8,994	1,929	651	18,443	695	6,893	9,401	1,455
69+	28,693	11,261	517	8,280	1,872	592	17,432	655	6,296	9,139	1,342
70+	26,800	10,387	469	7,575	1,811	533	16,413	615	5,710	8,855	1,232
Total	270,593	133,198	56,750	65,332	2,593	8,523	137,396	47,310	65,332	12,547	12,207

Table 20.—July 1 Population in the Social Security Area by Alternative, Year, Age Group, Sex, and Marital Status (Cont.)
[In thousands]

Alternative, year, and age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
Alternative III: (Cont.)											
2020:											
0-4	13,809	7,069	7,069	0	0	0	6,740	6,740	0	0	0
5-9	14,466	7,403	7,403	0	0	0	7,063	7,063	0	0	0
10-14	14,928	7,638	7,638	0	0	0	7,290	7,287	3	0	0
15-19	15,295	7,821	7,600	217	0	3	7,474	6,727	726	0	20
20-24	16,049	8,193	5,506	2,519	1	167	7,857	3,540	4,003	5	309
25-29	17,528	8,928	2,992	5,314	2	619	8,600	1,397	6,440	18	746
30-34	19,058	9,684	1,903	6,794	5	982	9,374	797	7,537	35	1,005
35-39	19,285	9,779	1,407	7,301	10	1,061	9,507	612	7,742	61	1,092
40-44	17,933	9,075	1,093	6,963	18	1,000	8,858	464	7,252	100	1,042
45-49	17,736	8,943	1,070	6,860	36	977	8,793	424	7,153	178	1,038
50-54	18,869	9,450	1,177	7,252	75	946	9,419	522	7,471	330	1,096
55-59	21,032	10,462	1,398	8,004	148	911	10,570	791	7,897	628	1,254
60-64	20,943	10,336	1,218	8,085	248	785	10,607	810	7,406	1,025	1,366
65-69	17,734	8,668	817	6,924	353	574	9,065	616	5,784	1,410	1,255
70-74	14,265	6,639	401	5,327	474	436	7,626	409	4,215	1,869	1,133
75-79	9,841	4,218	207	3,323	457	231	5,623	237	2,508	2,078	800
80-84	6,390	2,520	83	1,905	412	120	3,870	148	1,263	1,998	462
85-89	4,168	1,423	35	965	356	68	2,744	96	590	1,779	279
90-94	2,526	729	13	406	272	38	1,797	52	233	1,346	166
95+	1,495	349	4	134	192	19	1,146	24	72	948	102
0-19	58,497	29,930	29,710	217	0	3	28,567	27,817	729	0	20
20-64	168,433	84,848	17,764	59,093	543	7,448	83,585	9,357	62,900	2,380	8,948
65+	56,419	24,546	1,561	18,984	2,516	1,485	31,873	1,582	14,665	11,429	4,197
20-65	172,315	86,744	17,966	60,596	605	7,577	85,570	9,506	64,212	2,638	9,214
20-66	176,062	88,565	18,148	62,045	673	7,699	87,497	9,642	65,460	2,921	9,473
20-67	179,657	90,303	18,309	63,435	745	7,813	89,354	9,766	66,641	3,214	9,733
20-68	183,040	91,954	18,453	64,760	819	7,921	91,086	9,877	67,723	3,505	9,981
20-69	186,166	93,516	18,581	66,017	896	8,022	92,650	9,974	68,684	3,790	10,203
66+	52,537	22,650	1,359	17,481	2,454	1,356	29,887	1,433	13,353	11,171	3,930
67+	48,789	20,828	1,177	16,031	2,386	1,234	27,961	1,297	12,105	10,887	3,672
68+	45,195	19,091	1,016	14,642	2,314	1,120	26,103	1,173	10,924	10,595	3,411
69+	41,811	17,440	872	13,316	2,240	1,012	24,371	1,063	9,842	10,303	3,164
70+	38,685	15,878	744	12,060	2,163	911	22,807	966	8,881	10,019	2,941
Total	283,348	139,324	49,035	78,294	3,059	8,936	144,024	38,757	78,294	13,809	13,165
2040:											
0-4	11,558	5,917	5,917	0	0	0	5,641	5,641	0	0	0
5-9	12,007	6,144	6,144	0	0	0	5,862	5,862	0	0	0
10-14	12,524	6,409	6,409	0	0	0	6,115	6,113	2	0	0
15-19	13,235	6,768	6,576	189	0	3	6,467	5,816	633	0	18
20-24	14,078	7,188	4,836	2,205	0	146	6,890	3,142	3,474	4	270
25-29	14,771	7,528	2,517	4,489	2	519	7,243	1,211	5,390	13	629
30-34	15,248	7,758	1,503	5,462	4	789	7,491	588	6,082	25	795
35-39	15,579	7,911	1,118	5,898	7	888	7,668	376	6,380	43	870
40-44	16,239	8,228	986	6,223	15	1,004	8,012	293	6,665	81	973
45-49	17,524	8,852	966	6,722	32	1,133	8,671	284	7,115	155	1,118
50-54	18,762	9,435	956	7,263	65	1,150	9,327	323	7,484	297	1,223
55-59	18,615	9,301	862	7,337	116	987	9,314	348	7,275	524	1,166
60-64	16,813	8,330	709	6,738	177	707	8,483	307	6,421	814	941
65-69	15,820	7,715	687	6,202	286	540	8,105	305	5,717	1,272	811
70-74	15,632	7,402	700	5,784	458	461	8,230	379	5,114	1,939	798
75-79	15,579	7,022	686	5,262	677	397	8,557	558	4,319	2,807	873
80-84	13,208	5,507	419	4,002	796	290	7,700	528	2,985	3,316	871
85-89	8,802	3,316	164	2,271	708	172	5,486	332	1,521	2,958	675
90-94	4,905	1,602	40	959	510	93	3,303	146	583	2,121	453
95+	2,782	737	10	323	360	44	2,046	53	170	1,525	298
0-19	49,324	25,238	25,046	189	0	3	24,086	23,432	635	0	18
20-64	147,630	74,531	14,453	52,337	417	7,324	73,099	6,872	56,285	1,957	7,985
65+	76,729	33,301	2,706	24,803	3,794	1,998	43,428	2,300	20,409	15,939	4,779
20-65	150,746	76,064	14,580	53,584	462	7,437	74,682	6,926	57,449	2,162	8,146
20-66	153,822	77,571	14,707	54,809	511	7,544	76,251	6,979	58,585	2,385	8,302
20-67	156,917	79,081	14,838	56,028	566	7,648	77,836	7,035	59,710	2,632	8,459
20-68	160,131	80,641	14,983	57,273	630	7,755	79,490	7,101	60,852	2,913	8,624
20-69	163,450	82,245	15,140	58,539	702	7,864	81,205	7,177	62,003	3,229	8,796
66+	73,613	31,768	2,579	23,556	3,749	1,885	41,845	2,247	19,246	15,735	4,618
67+	70,537	30,260	2,452	22,331	3,699	1,778	40,276	2,194	18,110	15,511	4,461
68+	67,442	28,751	2,321	21,112	3,644	1,674	38,691	2,137	16,984	15,265	4,305
69+	64,228	27,190	2,176	19,866	3,581	1,567	37,038	2,071	15,842	14,984	4,140
70+	60,909	25,586	2,019	18,601	3,508	1,458	35,323	1,996	14,692	14,667	3,968
Total	273,683	133,070	42,205	77,329	4,211	9,325	140,613	32,605	77,330	17,897	12,781

Table 20.—July 1 Population in the Social Security Area by Alternative, Year, Age Group, Sex, and Marital Status (Cont.)
[In thousands]

Alternative, year, and age group	Total	Sex and marital status									
		Male					Female				
		Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
Alternative III: (Cont.)											
2060:											
0-4	9,772	5,003	5,003	0	0	0	4,770	4,770	0	0	0
5-9	10,244	5,242	5,242	0	0	0	5,001	5,001	0	0	0
10-14	10,778	5,515	5,515	0	0	0	5,263	5,261	2	0	0
15-19	11,333	5,796	5,632	161	0	3	5,537	4,984	537	0	15
20-24	11,848	6,051	4,074	1,854	0	123	5,798	2,650	2,918	3	227
25-29	12,344	6,293	2,109	3,748	1	434	6,051	1,000	4,516	10	524
30-34	12,890	6,562	1,288	4,602	3	670	6,328	485	5,156	18	668
35-39	13,570	6,897	1,003	5,107	5	782	6,674	331	5,549	33	761
40-44	14,327	7,267	892	5,468	11	896	7,060	278	5,849	61	871
45-49	14,859	7,518	816	5,719	21	961	7,341	251	6,027	113	950
50-54	15,123	7,623	761	5,896	42	924	7,500	233	6,103	205	959
55-59	15,184	7,611	707	5,994	78	832	7,574	211	6,083	365	914
60-64	15,432	7,675	681	6,117	139	738	7,757	199	6,048	635	875
65-69	15,986	7,847	676	6,236	251	684	8,139	213	5,937	1,088	901
70-74	16,090	7,714	628	6,049	417	620	8,376	248	5,449	1,738	940
75-79	14,564	6,700	479	5,174	569	477	7,865	260	4,319	2,409	876
80-84	11,481	4,937	286	3,715	634	301	6,544	214	2,846	2,806	678
85-89	8,741	3,414	172	2,374	670	199	5,326	176	1,682	2,952	517
90-94	6,327	2,212	99	1,332	644	137	4,115	155	873	2,683	405
95+	6,403	1,897	63	802	905	128	4,506	186	453	3,302	564
0-19	42,127	21,557	21,393	161	0	3	20,571	20,016	540	0	15
20-64	125,578	63,495	12,331	44,504	300	6,360	62,082	5,639	48,251	1,443	6,750
65+	79,592	34,721	2,401	25,682	4,092	2,546	44,871	1,452	21,560	16,978	4,881
20-65	128,728	65,052	12,467	45,746	339	6,500	63,676	5,679	49,453	1,617	6,926
20-66	131,904	66,617	12,603	46,992	383	6,639	65,287	5,721	50,651	1,811	7,104
20-67	135,104	68,188	12,738	48,241	433	6,776	66,916	5,763	51,842	2,027	7,284
20-68	138,326	69,765	12,873	49,492	489	6,911	68,561	5,807	53,022	2,267	7,466
20-69	141,564	71,343	13,007	50,740	551	7,044	70,222	5,852	54,188	2,531	7,650
66+	76,442	33,165	2,266	24,441	4,052	2,406	43,278	1,412	20,357	16,804	4,705
67+	73,266	31,600	2,130	23,195	4,008	2,267	41,667	1,371	19,159	16,610	4,527
68+	70,066	30,028	1,994	21,946	3,958	2,130	40,038	1,328	17,969	16,394	4,347
69+	66,844	28,452	1,859	20,695	3,903	1,995	38,392	1,285	16,788	16,155	4,165
70+	63,606	26,874	1,726	19,446	3,840	1,862	36,732	1,239	15,622	15,890	3,980
Total	247,298	119,773	36,125	70,348	4,392	8,908	127,524	27,107	70,350	18,421	11,646
2080:											
0-4	8,389	4,295	4,295	0	0	0	4,094	4,094	0	0	0
5-9	8,804	4,506	4,506	0	0	0	4,299	4,299	0	0	0
10-14	9,221	4,719	4,719	0	0	0	4,502	4,501	2	0	0
15-19	9,636	4,929	4,790	137	0	2	4,708	4,238	457	0	13
20-24	10,077	5,147	3,466	1,576	0	104	4,930	2,247	2,488	2	193
25-29	10,602	5,407	1,820	3,212	1	374	5,195	857	3,881	7	450
30-34	11,174	5,692	1,128	3,979	2	583	5,482	427	4,459	14	582
35-39	11,708	5,955	873	4,402	4	676	5,753	294	4,775	25	660
40-44	12,148	6,168	760	4,642	7	759	5,981	239	4,959	45	738
45-49	12,500	6,332	696	4,814	15	808	6,168	208	5,086	81	793
50-54	12,864	6,495	667	5,007	29	792	6,369	193	5,219	148	808
55-59	13,329	6,696	652	5,241	56	747	6,632	190	5,365	270	807
60-64	13,775	6,874	637	5,456	101	681	6,901	194	5,429	479	798
65-69	13,815	6,819	594	5,443	178	605	6,996	193	5,211	806	786
70-74	13,355	6,463	527	5,122	289	526	6,892	184	4,684	1,263	761
75-79	12,401	5,794	428	4,510	418	438	6,607	164	3,902	1,820	721
80-84	11,199	4,937	318	3,710	556	354	6,262	146	3,008	2,432	676
85-89	9,706	3,951	214	2,762	686	288	5,755	135	2,084	2,906	630
90-94	7,465	2,766	119	1,710	723	213	4,699	116	1,182	2,862	538
95+	7,903	2,502	69	1,110	1,126	196	5,401	118	644	3,965	674
0-19	36,051	18,448	18,309	137	0	2	17,603	17,132	459	0	13
20-64	108,177	54,766	10,698	38,330	215	5,523	53,411	4,850	41,661	1,071	5,829
65+	75,844	33,231	2,269	24,367	3,976	2,619	42,613	1,057	20,716	16,054	4,787
20-65	110,957	56,145	10,821	39,430	243	5,651	54,811	4,889	42,732	1,202	5,988
20-66	113,734	57,520	10,943	40,528	274	5,775	56,213	4,928	43,792	1,347	6,147
20-67	116,502	58,887	11,062	41,619	310	5,896	57,615	4,967	44,837	1,507	6,304
20-68	119,254	60,242	11,178	42,701	349	6,014	59,012	5,005	45,864	1,683	6,460
20-69	121,992	61,584	11,291	43,773	392	6,128	60,407	5,043	46,872	1,877	6,615
66+	73,064	31,851	2,146	23,266	3,948	2,492	41,213	1,018	19,645	15,923	4,628
67+	70,287	30,476	2,024	22,169	3,916	2,367	39,811	979	18,585	15,778	4,469
68+	67,519	29,110	1,905	21,077	3,881	2,246	38,410	941	17,540	15,618	4,312
69+	64,767	27,755	1,789	19,995	3,842	2,129	37,012	902	16,513	15,441	4,156
70+	62,029	26,412	1,675	18,924	3,798	2,014	35,617	864	15,505	15,248	4,000
Total	220,072	106,444	31,276	62,834	4,191	8,145	113,628	23,039	62,835	17,125	10,629

B. Marital Status

In 1985, 43 percent of the population was estimated to be single (never married). The proportion of the population which is projected to be single in 2080 is 51 percent under Alternative I, 39 percent under Alternative II, and 25 percent under Alternative III, reflecting differences in the projected marriage rates and in the age distribution of the population among the three alternatives. The proportion married is projected to change from 45 percent in 1985 to 36, 46, and 57 percent in 2080, under Alternatives I, II, and III, respectively. The proportion widowed in 2080 is projected to increse from 6 percent in 1985 to 7 and 10 percent, under Alternatives II and III, respectively, and to decrease to 5 percent under Alternative I. The current high incidence of divorce, which is assumed to continue in the future, causes the proportion divorced to increase from 6 percent in 1985 to 8 percent under all three alternatives in 2080. Chart 5 compares the distribution of the population by marital status in 1985 with the projected distribution in 2080.

The disunity ratio given in Table 21 is the ratio of the number of divorced persons to the sum of the numbers of married and widowed persons. Assuming a continuation of the current high incidence of divorce, this ratio will increase from .116 in 1985 to .176, .158, and .142 in 2000 under Alternatives I, II, and III, respectively.

C. Aged Population

A rough estimate of the growth in the number of persons receiving Social Security retirement benefits can be obtained from examining the age 65-and-over population given in Table 21. The projected population at ages 65 and older is also shown graphically in Chart 6. The growth in the number of people age 65 and older slows down around the year 2000 due to the low fertility experience during the 1930's. This slowing down is not as great under Alternatives II and III because assumed mortality reductions are greater than under Alternative I. The high fertility of the 1950's and 1960's results in sharp steady growth in the 65-and-over population throughout the period 2010-2030 under all of the alternatives. By the year 2080, the 65-and-over population as a percentage of total population increases significantly from 12 percent in 1985 to 17 percent under Alternative I, 22 percent under Alternative II, and 34 percent under Alternative III.

D. Demographic Indicators

The projected population is summarized by broad age group and alternative for selected years in Table 21. The broad age groups are under 20, 20 to 64, and 65 and over.

Table 21.—Population in the Social Security Area as of July 1 and Selected Ratios by Alternative and Year

Alternative and year	Population (In thousands)								Dependency ratio		Disunity ratio
	Marital status					Age					
	Single	Married	Widowed	Divorced	Total	0-19	20-64	65+	Aged	Total	
1940	66,736	63,947	8,490	1,586	140,759	48,490	82,707	9,562	.116	.702	.022
1950	67,917	79,190	10,005	2,275	159,386	53,895	92,739	12,752	.138	.719	.026
1960	86,443	89,377	11,196	3,065	190,081	72,989	99,842	17,250	.173	.904	.030
1970	97,562	99,894	12,557	4,882	214,895	80,881	113,187	20,827	.184	.899	.043
1980	101,400	108,694	13,940	11,271	235,305	74,964	134,239	26,102	.194	.753	.092
1981	102,234	109,476	13,897	12,179	237,785	74,471	136,667	26,647	.195	.740	.099
1982	103,499	110,231	13,917	12,612	240,259	74,036	138,999	27,225	.196	.728	.102
1983	104,678	110,728	14,203	13,038	242,647	73,655	141,206	27,786	.197	.718	.104
1984	105,297	111,251	14,555	13,816	244,918	73,338	143,249	28,331	.198	.710	.110
1985	105,898	111,881	14,730	14,662	247,170	73,191	145,077	28,902	.199	.704	.116
1986	106,580	112,650	14,777	15,452	249,459	73,240	146,700	29,520	.201	.700	.121
Alternative I:											
1987	107,222	113,472	14,832	16,217	251,743	73,418	148,183	30,142	.203	.699	.126
1988	107,915	114,242	14,897	16,971	254,025	73,663	149,632	30,730	.205	.698	.131
1989	108,669	114,982	14,963	17,684	256,297	73,887	151,109	31,302	.207	.696	.136
1990	109,478	115,695	15,030	18,348	258,551	74,041	152,668	31,841	.209	.694	.140
1991	110,339	116,357	15,096	18,985	260,777	74,215	154,237	32,325	.210	.691	.144
1992	111,247	116,948	15,161	19,615	262,971	74,566	155,629	32,777	.211	.690	.148
1993	112,200	117,476	15,224	20,229	265,129	75,097	156,830	33,202	.212	.691	.152
1994	113,192	117,952	15,284	20,820	267,249	75,682	157,988	33,579	.213	.692	.156
1995	114,224	118,385	15,343	21,383	269,335	76,252	159,177	33,906	.213	.692	.160
1996	115,290	118,774	15,399	21,925	271,389	76,790	160,423	34,176	.213	.692	.163
1997	116,389	119,124	15,452	22,451	273,417	77,264	161,781	34,372	.212	.690	.167
1998	117,518	119,444	15,504	22,960	275,425	77,671	163,246	34,508	.211	.687	.170
1999	118,673	119,744	15,553	23,450	277,420	78,005	164,784	34,631	.210	.684	.173
2000	119,854	120,033	15,600	23,921	279,408	78,258	166,377	34,773	.209	.679	.176
2010	133,787	122,270	16,098	27,798	299,953	81,581	179,700	38,671	.215	.669	.201
2020	149,910	124,232	17,168	29,657	320,967	88,266	182,280	50,422	.277	.761	.210
2030	164,110	126,124	19,025	29,864	339,124	94,119	182,062	62,942	.346	.863	.206
2040	177,228	128,722	20,167	29,739	355,856	99,607	191,882	64,367	.335	.855	.200
2050	189,909	133,331	19,838	30,046	373,124	106,490	202,606	64,027	.316	.842	.196
2060	202,404	140,560	19,319	31,102	393,385	112,804	214,663	65,917	.307	.833	.195
2070	215,168	149,518	19,757	32,796	417,239	119,664	228,820	68,755	.300	.823	.194
2080	228,198	159,115	20,768	34,815	442,895	126,975	241,816	74,105	.306	.832	.194
Alternative II:											
1987	107,113	113,519	14,823	16,184	251,639	73,374	148,121	30,144	.204	.699	.126
1988	107,550	114,424	14,869	16,865	253,707	73,518	149,446	30,743	.206	.698	.130
1989	107,979	115,369	14,915	17,490	255,753	73,616	150,800	31,337	.208	.696	.134
1990	108,402	116,350	14,962	18,055	257,769	73,619	152,239	31,911	.210	.693	.137
1991	108,819	117,335	15,008	18,584	259,745	73,616	153,691	32,438	.211	.690	.140
1992	109,230	118,297	15,053	19,097	261,677	73,767	154,965	32,945	.213	.689	.143

Table 21.—Population in the Social Security Area as of July 1 and Selected Ratios by Alternative and Year (Cont.)

Alternative and year	Population (In thousands)								Dependency ratio		Disunity ratio
	Marital status					Age					
	Single	Married	Widowed	Divorced	Total	0-19	20-64	65+	Aged	Total	
Alternative II : (Cont.)											
1993	109,636	119,237	15,096	19,590	263,559	74,074	156,051	33,434	.214	.689	.146
1994	110,038	120,161	15,139	20,053	265,391	74,413	157,094	33,884	.216	.689	.148
1995	110,435	121,075	15,180	20,485	267,175	74,715	158,169	34,290	.217	.689	.150
1996	110,827	121,974	15,220	20,891	268,912	74,963	159,302	34,647	.217	.688	.152
1997	111,209	122,862	15,259	21,278	270,608	75,125	160,548	34,935	.218	.686	.154
1998	111,578	123,746	15,298	21,646	272,267	75,200	161,902	35,166	.217	.682	.156
1999	111,930	124,634	15,336	21,993	273,894	75,177	163,331	35,386	.217	.677	.157
2000	112,265	125,534	15,375	22,320	275,493	75,053	164,814	35,626	.216	.672	.158
2010	115,211	134,802	15,894	24,772	290,681	73,488	176,764	40,429	.229	.644	.164
2020	118,611	141,870	17,193	26,025	303,698	74,816	175,784	53,099	.302	.728	.164
2030	121,066	144,822	19,607	26,381	311,875	75,442	169,712	66,722	.393	.838	.160
2040	122,313	145,635	21,681	26,377	316,005	75,404	171,551	69,051	.403	.842	.158
2050	123,286	146,023	22,139	26,328	317,776	76,327	172,285	69,163	.401	.844	.157
2060	124,161	147,385	21,752	26,487	319,785	76,678	172,726	70,381	.407	.851	.157
2070	125,155	149,480	21,771	26,857	323,264	77,143	174,975	71,146	.407	.847	.157
2080	126,217	151,535	22,014	27,275	327,041	77,781	175,776	73,484	.418	.861	.157
Alternative III:											
1987	106,999	113,564	14,814	16,152	251,529	73,324	148,059	30,146	.204	.699	.126
1988	107,168	114,594	14,841	16,762	253,365	73,349	149,260	30,755	.206	.697	.130
1989	107,253	115,733	14,868	17,302	255,156	73,293	150,491	31,372	.208	.695	.132
1990	107,260	116,967	14,895	17,772	256,894	73,106	151,810	31,978	.211	.692	.135
1991	107,195	118,257	14,920	18,197	258,570	72,880	153,141	32,548	.213	.688	.137
1992	107,066	119,568	14,945	18,599	260,178	72,775	154,297	33,106	.215	.686	.138
1993	106,877	120,895	14,969	18,973	261,714	72,795	155,264	33,655	.217	.686	.140
1994	106,634	122,241	14,993	19,311	263,178	72,818	156,189	34,171	.219	.685	.141
1995	106,340	123,604	15,016	19,611	264,572	72,775	157,145	34,651	.221	.684	.141
1996	105,996	124,979	15,040	19,882	265,897	72,650	158,161	35,086	.222	.681	.142
1997	105,599	126,365	15,063	20,129	267,157	72,412	159,288	35,457	.223	.677	.142
1998	105,146	127,770	15,088	20,353	268,358	72,059	160,525	35,774	.223	.672	.142
1999	104,634	129,201	15,114	20,553	269,501	71,582	161,836	36,083	.223	.665	.142
2000	104,060	130,663	15,141	20,730	270,593	70,977	163,202	36,415	.223	.658	.142
2010	95,627	146,366	15,585	21,621	279,198	63,283	173,665	42,250	.243	.608	.134
2020	87,791	156,588	16,868	22,101	283,348	58,497	168,433	56,419	.335	.682	.127
2030	81,448	158,215	19,441	22,352	281,455	54,026	155,251	72,179	.465	.813	.126
2040	74,810	154,660	22,107	22,106	273,683	49,324	147,630	76,729	.520	.854	.125
2050	68,686	148,067	23,219	21,404	261,376	45,671	137,170	78,534	.573	.905	.125
2060	63,232	140,698	22,813	20,554	247,298	42,127	125,578	79,592	.634	.969	.126
2070	58,466	133,317	22,118	19,692	233,593	38,870	116,953	77,769	.665	.997	.127
2080	54,315	125,669	21,315	18,773	220,072	36,051	108,177	75,844	.701	1.034	.128

Note: The aged dependency ratio is the ratio of the number of persons aged 65 and older to the number of persons aged 20 to 64. The total dependency ratio is the same as the aged dependency ratio except the number of persons under age 20 are also included in the numerator of the ratio. The disunity ratio is the ratio of the number of divorced persons to the number of married and widowed persons.

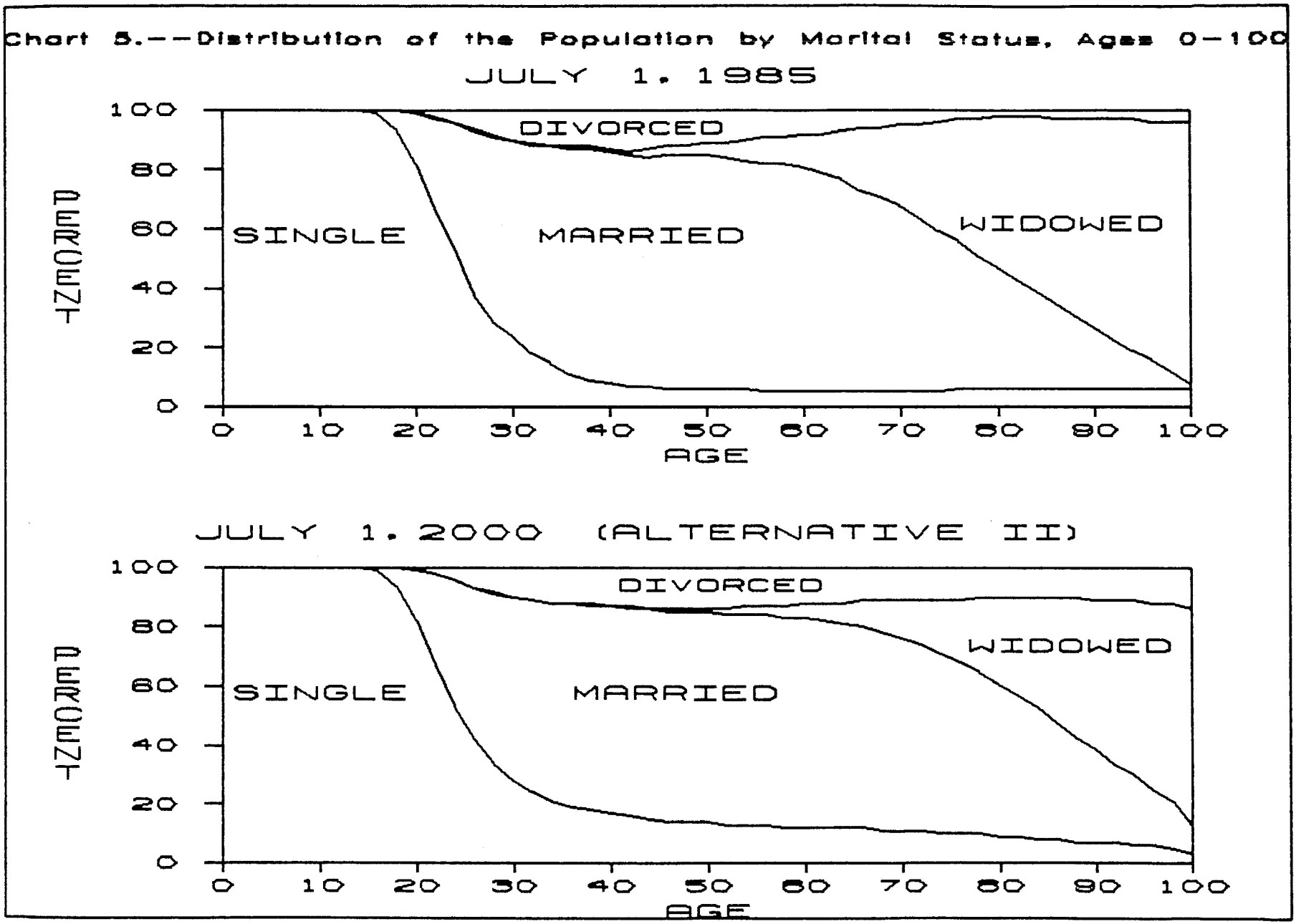


Chart 5.--Distribution of the Population by Marital Status, Ages 0-100
JULY 1, 1985
PERCENT
100
80
60
40
20
0
DIVORCED
SINGLE
MARRIED
WIDOWED
0
10
20
30
40
50
60
70
80
90
100
AGE
JULY 1, 2000 (ALTERNATIVE II)
PERCENT
100
80
60
40
20
0
DIVORCED
WIDOWED
SINGLE
MARRIED
0
10
20
30
40
50
60
70
80
90
100
AGE

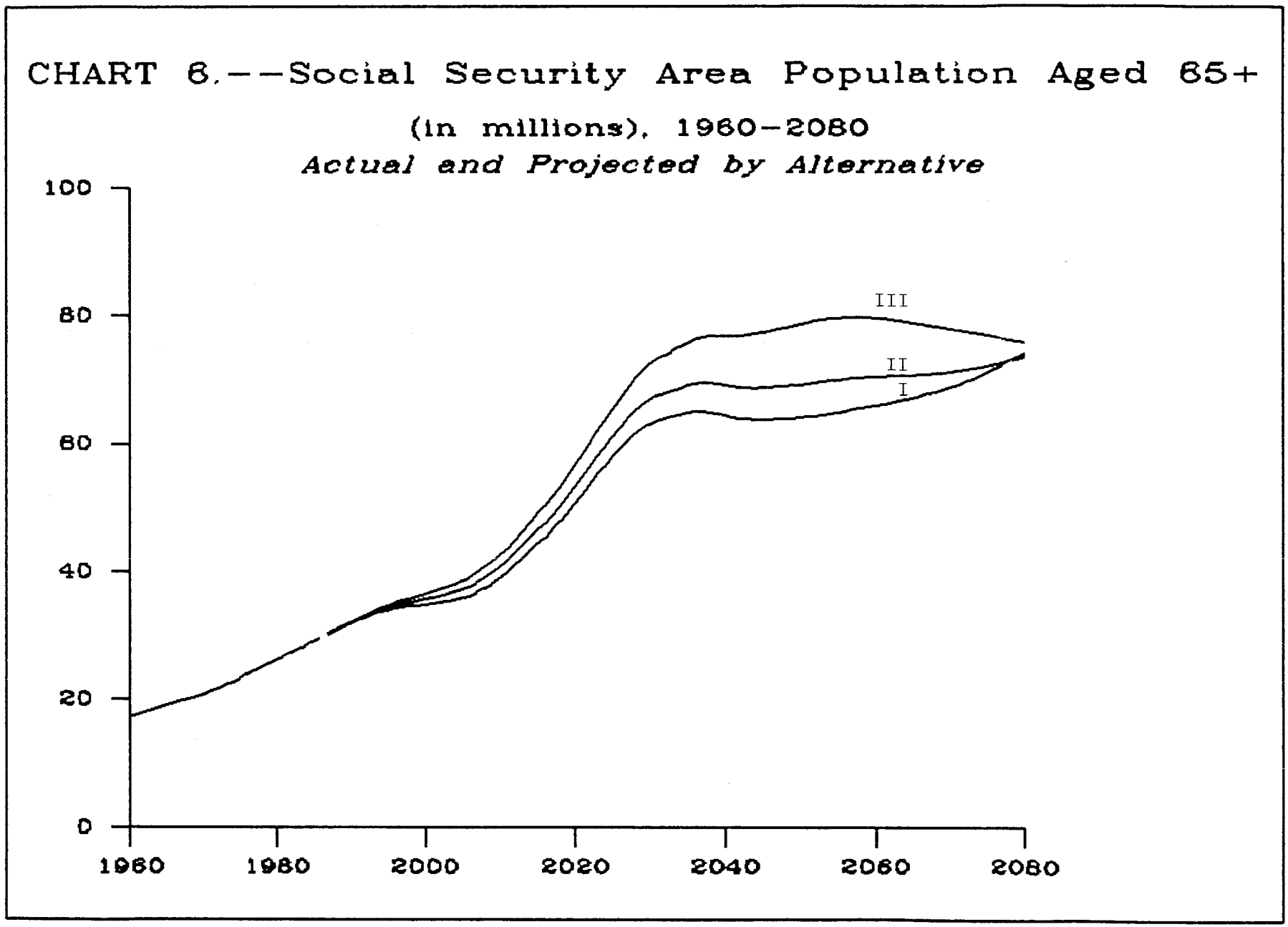


CHART 6.--Social Security Area Population Aged 65+
(in millions), 1960-2080
Actual and Projected by Alternative
100
80
60
40
20
0
1960
1980
2000
2020
2040
2060
2080
III
II
I

The aged dependency ratio given in Table 21 is the ratio of the number of persons aged 65 and over to the number of persons aged 20 to 64. The aged dependency ratio is also shown graphically in Chart 7. This ratio is closely related to the ratio of retirees to workers and, thus, provides an index of possible future demographic pressures which may be faced by Social Security. Under Alternative I, the aged dependency ratio is projected to increase from .199 in 1985 to .348 in the year 2032 and then to decrease to an ultimate level of about .306. Under Alternative II, the aged dependency ratio is projected to increase to .400 in 2033 and then to stay around that level until 2071 when the ratio starts increasing again, obtaining a value of .418 in the year 2080. Under Alternative III, the aged dependency ratio is projected to increase throughout the entire projection period to .701 in the year 2080. A sharp increase in the aged dependency ratio shortly after the turn of the century appears certain as the babyboom generation attains age 65 while the baby-bust generation attains age 20. The magnitude of the increase, however, will depend upon future mortality reductions among the aged and future fertility rates. Even under optimistic assumptions, however, the aged dependency ratio will increase about 70 percent by the year 2030.

Since not everyone retires at age 65 and since the minimum age at which unreduced benefits are payable is scheduled to increase, it is interesting to observe the aged dependency ratio using cutoff ages other than 65. Table 22 displays these ratios at age 62 when retired worker benefits are first available, at age 67 which will be the normal retirement age (i.e., the minimum age at which unreduced retirement benefits are payable) after 2026, and at age 70 after which delayed retirement credits can no longer be earned. In Table 23 the ages necessary to maintain an aged dependency ratio of .20, .25, and .30 are given. In order to maintain an aged dependency ratio of .20 (the approximate age 65 dependency ratio in 1985) the aged dependency ratio in 2080 must be calculated at ages 70, 75, and 82 under Alternatives I, II, and III, respectively. Under all three alternatives, the age necessary to maintain a selected aged dependency ratio increases rapidly from 2010 to 2040.

Table 22.—Aged Dependency Ratios at Selected Retirement Ages by Calendar Year and Alternative

Alternative and year	Age 62	Age 65	Age 67	Age 70
1940	.156	.116	.093	.064
1950	.187	.138	.111	.077
1960	.228	.173	.141	.101
1970	.241	.184	.153	.114
1980	.250	.194	.162	.121
1981	.251	.195	.163	.122
1982	.252	.196	.164	.123
1983	.253	.197	.165	.124
1984	.255	.198	.166	.125
1985	.256	.199	.167	.126
1986	.258	.201	.169	.128
Alternative I :				
1987	.260	.203	.170	.129
1988	.261	.205	.172	.130
1989	.262	.207	.174	.131

Table 22.—Aged Dependency Ratios at Selected Retirement Ages by Calendar Year and Alternative (Cont.)

Alternative and year	Age 62	Age 65	Age 67	Age 70
Alternative I : (Cont.)				
1990	.263	.209	.176	.133
1991	.263	.210	.177	.134
1992	.263	.211	.179	.136
1993	.263	.212	.180	.138
1994	.263	.213	.181	.139
1995	.262	.213	.182	.141
1996	.261	.213	.183	.142
1997	.260	.212	.183	.143
1998	.259	.211	.183	.143
1999	.258	.210	.182	.144
2000	.257	.209	.181	.144
2010	.285	.215	.180	.137
2020	.369	.277	.227	.167
2030	.430	.346	.293	.220
2040	.409	.335	.293	.234
2050	.393	.316	.271	.213
2060	.380	.307	.264	.207
2070	.374	.300	.258	.204
2080	.382	.306	.262	.205
Alternative II :				
1987	.260	.204	.170	.129
1988	.261	.206	.173	.130
1989	.263	.208	.175	.132
1990	.264	.210	.177	.134
1991	.265	.211	.179	.136
1992	.266	.213	.181	.138
1993	.266	.214	.183	.140
1994	.266	.216	.184	.142
1995	.266	.217	.186	.144
1996	.266	.217	.187	.145
1997	.266	.218	.188	.147
1998	.265	.217	.188	.148
1999	.265	.217	.188	.149
2000	.265	.216	.188	.149
2010	.301	.229	.192	.148
2020	.400	.302	.249	.185
2030	.487	.393	.334	.254
2040	.488	.403	.354	.285
2050	.497	.401	.346	.275
2060	.498	.407	.354	.282
2070	.498	.407	.354	.285
2080	.513	.418	.363	.290
Alternative III:				
1987	.260	.204	.170	.129
1988	.262	.206	.173	.131
1989	.264	.208	.175	.132
1990	.265	.211	.178	.134
1991	.266	.213	.180	.137
1992	.268	.215	.183	.139
1993	.269	.217	.185	.142
1994	.270	.219	.187	.144
1995	.270	.221	.189	.147
1996	.271	.222	.191	.149
1997	.271	.223	.193	.151
1998	.272	.223	.194	.153
1999	.272	.223	.194	.154
2000	.273	.223	.194	.155
2010	.318	.243	.205	.159
2020	.441	.335	.277	.208
2030	.573	.465	.397	.304
2040	.628	.520	.459	.373
2050	.707	.573	.496	.397
2060	.765	.634	.555	.449
2070	.800	.665	.587	.484
2080	.843	.701	.618	.508

Note: The aged dependency ratio calculated at a selected age is the ratio of the number of people in the population as of July 1 who are as old or older than the selected age to the number of people who are between 19 and the selected age.

Table 23.—Retirement Age at Selected Aged Dependency Ratios by Calendar Year and Alternative

Alternative and year	Dependency ratio .20	.25	.30
1940	59	57	55
1950	61	59	57
1960	63	61	59
1970	64	62	60
1980	65	62	60
1981	65	62	60
1982	65	62	60
1983	65	62	60
1984	65	62	60
1985	65	62	60
1986	65	62	60
Alternative I :			
1987	65	62	60
1988	65	63	60
1989	65	63	60
1990	66	63	60
1991	66	63	60
1992	66	63	60
1993	66	63	60
1994	66	63	60
1995	66	63	60
1996	66	63	60
1997	66	63	60
1998	66	63	60
1999	66	62	60
2000	66	62	60
2010	66	63	61
2020	68	66	64
2030	71	69	67
2040	72	69	67
2050	71	68	66
2060	70	68	65
2070	70	67	65
2080	70	68	65
Alternative II :			
1987	65	63	60
1988	65	63	60
1989	65	63	60
1990	66	63	60
1991	66	63	60
1992	66	63	60
1993	66	63	60
1994	66	63	60
1995	66	63	60
1996	66	63	60
1997	66	63	60
1998	66	63	60
1999	66	63	60
2000	66	63	60
2010	67	64	62
2020	69	67	65
2030	72	70	68
2040	74	72	69
2050	74	71	69
2060	74	72	69
2070	75	72	69

Table 23.—Retirement Age at Selected Aged Dependency Ratios by Calendar Year and Alternative (Cont.)

Alternative and year	Dependency ratio .20	.25	.30
Alternative II : (Cont.)			
2080	75	72	70
Alternative III:			
1987	65	63	60
1988	65	63	60
1989	65	63	60
1990	66	63	60
1991	66	63	60
1992	66	63	60
1993	66	63	60
1994	66	63	60
1995	66	63	60
1996	66	63	60
1997	67	63	60
1998	67	63	60
1999	67	63	61
2000	67	63	61
2010	67	65	63
2020	70	68	66
2030	74	72	70
2040	78	75	73
2050	79	76	74
2060	80	77	75
2070	81	79	77
2080	82	80	77

Note: The aged dependency ratio calculated at a selected age is the ratio of the number of people in the population as of July 1 who are as are as old or older than the selected age to the number of 'people in the population as of July 1 who are between age 19 and the selected age.

The total dependency ratio given in Tables 21 is the ratio of the number of persons who are under age 20 or over age 64 to the number of persons aged 20 to 64. This ratio views the possible future financial burdens to be borne by workers from a somewhat broader perspective. Under all three alternatives, the total dependency ratio is projected to decrease from .704 in 1985 until shortly after the turn of the century, reflecting the small number of children resulting from the low fertility rates experienced since 1970 and projected to be experienced in the near future, and the slow growth in the aged population resulting from the low fertility rates experienced during the 1930's. Starting around 2010, the total dependency ratios begin to rise, largely reflecting the same effects that influence the aged dependency ratios. Projected values of the total dependency ratio in 2080 range from .832 under Alternative I to 1.034 under Alternative III or roughly from 18 to 46 percent higher than the 1985 value.

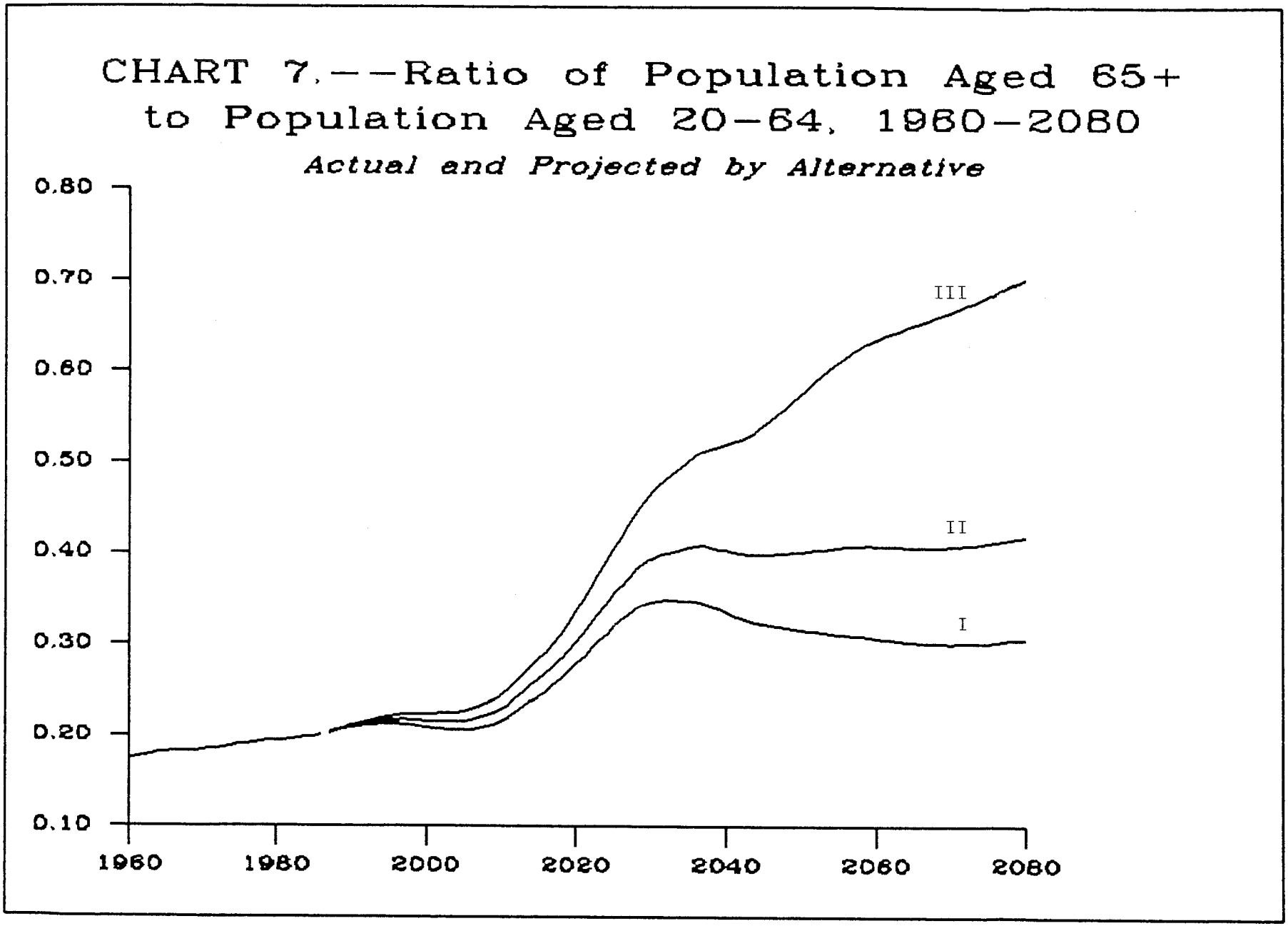


CHART 7.--Ratio of Population Aged 65+ to Population Aged 20-64, 1960-2080
Actual and Projected by Alternative
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
1960
1980
2000
2020
2040
2060
2080
III
II
I