

**TRANSACTIONS OF SOCIETY OF ACTUARIES
1964 REPORTS**

**REPORT OF THE COMMITTEE ON GROUP
ANNUITY MORTALITY**

GROUP ANNUITY MORTALITY

THE current report is limited to a study of the experience of single life matured annuities under Group Annuity contracts. The mortality experience is compared with the *Ga*-1951 male and female tables (without projection). Any experience reported in 1963 which actually occurred in 1962 and prior years is reflected in the tables in the appropriate years. This accounts for a decrease in the exposures shown for prior years in Table 6 from those in the previous report, which resulted primarily from retroactive adjustments made by one of the contributing companies.

Tables 1, 2, and 3 show the experience for the year 1963 by attained five-year age groups for lives retiring on or after normal retirement date, for lives retiring prior to normal retirement date, and for lives retiring on plans having no stated normal retirement date, respectively.

Tables 4, 5, and 6 compare the experience for the year 1963 with corresponding experience for other periods for categories analogous to those shown in Tables 1, 2, and 3, respectively.

Tables 7, 8, and 9 show the experience for successive five-year periods and by age groups for categories analogous to those shown in Tables 1, 2, and 3, respectively.

For a second year, the ratio by amounts of actual to expected for male lives retired on or after the normal retirement date continues below 100 per cent. The number of deaths occurring in 1962 which were reported in 1963 was not abnormal, and, therefore, delayed reporting does not appear to have contributed significantly to the decrease in this ratio that appeared in 1962.

The ratios shown in Table 3 continue to indicate higher mortality under plans having no stated retirement date than during the period after normal retirement date under plans with a stated normal retirement date as shown in Table 1.

In Table 7 it is interesting to note that, although total actual-to-expected ratios for male lives by number have remained at 107 per cent for each consecutive five-year period since 1956, there has been a decrease of 1 per cent in these actual-to-expected ratios for each period when measured by amounts.

TABLE 1
 INTERCOMPANY GROUP ANNUITY MORTALITY—MATURED LIFE EXPERIENCE FOR 1963
 RETIREMENT ON OR AFTER NORMAL RETIREMENT DATE

ATTAINED AGES	NUMBER OF LIVES		AMOUNT OF ANNUAL INCOME		COMPARISON WITH GA-1951 TABLE (WITHOUT PROJECTION)			
					By Number of Lives		By Amount of Annual Income	
	Exposed	Actual Deaths	Exposed	Actual Deaths	Expected Deaths	Ratio† Act./Exp.	Expected Deaths	Ratio† Act./Exp.
Males								
50 and under.....	36.97	1	\$ 22,489	\$ 253	0.14	(*) *	\$ 120	(*) *
51-55.....	189.91	7	287,031	9,779	1.85	(*) *	2,733	(*) *
56-60.....	1,533.90	32	2,108,940	27,214	21.60	(207) 148%	29,838	(147) 91%
61-65.....	23,556.96	620	28,789,998	676,830	551.91	(115) 112	670,404	(96) 101
66-70.....	102,408.19	3,587	110,092,103	3,526,748	3,373.82	(107) 106	3,607,840	(102) 98
71-75.....	69,856.10	3,996	61,162,540	3,144,806	3,591.67	(106) 111	3,119,489	(98) 101
76-80.....	33,498.72	2,821	24,042,660	1,950,027	2,700.35	(99) 104	1,929,493	(92) 101
81-85.....	10,593.67	1,343	7,240,540	883,076	1,295.59	(99) 104	885,730	(101) 100
86-90.....	2,350.66	411	1,718,847	260,629	402.20	(99) 102	295,578	(101) 88
91-95.....	333.34	66	273,162	50,942	75.77	(121) 87	63,368	(90) 80
96 and over.....	42.00	8	67,054	5,508	13.62	(*) *	20,538	(*) *
All ages.....	244,400.42	12,892	\$235,805,364	\$10,535,812	12,028.52	(105) 107%	\$10,625,131	(99) 99%

* Less than 10 deaths (actual or expected).

† Percentages in parentheses are for the year 1962 as adjusted in 1963.

TABLE 1—Continued

ATTAINED AGES	NUMBER OF LIVES		AMOUNT OF ANNUAL INCOME		COMPARISON WITH GQ-1951 TABLE (WITHOUT PROJECTION)			
					By Number of Lives		By Amount of Annual Income	
	Exposed	Actual Deaths	Exposed	Actual Deaths	Expected Deaths	Ratio† Act./Exp.	Expected Deaths	Ratio† Act./Exp.
	Females:							
50 and under.....	17.08	.....	\$ 16,637	.....	0.03	(*) *	\$ 38	(*) *
51-55.....	329.42	3	195,308	\$ 1,869	1.46	(*) *	880	(*) *
56-60.....	2,888.78	20	1,847,091	12,848	20.21	(96) 99%	13,123	(74) 98%
61-65.....	11,296.49	132	6,993,891	80,273	133.69	(108) 99	81,914	(113) 98
66-70.....	22,715.03	430	11,400,371	221,976	416.78	(94) 103	207,777	(94) 107
71-75.....	13,871.11	407	5,758,619	163,934	468.16	(92) 87	192,955	(87) 85
76-80.....	5,557.26	340	2,204,459	127,145	328.07	(85) 104	129,943	(90) 98
81-85.....	1,527.17	158	635,780	65,902	140.18	(94) 113	58,350	(99) 113
86-90.....	392.58	59	175,107	22,360	53.15	(114) 111	23,805	(163) 94
91-95.....	68.25	13	32,707	10,608	13.40	(103) 97	6,526	(96) 163
96 and over.....	7.00	.....	2,167	.....	2.17	(*) *	669	(*) *
All ages.....	58,670.17	1,562	\$ 29,262,137	\$ 706,915	1,577.30	(94) 99%	\$ 715,980	(96) 99%

* Less than 10 deaths (actual or expected).

† Percentages in parentheses are for the year 1962 as adjusted in 1963.

TABLE 2
 INTERCOMPANY GROUP ANNUITY MORTALITY—MATURED LIFE EXPERIENCE FOR 1963
 RETIREMENT PRIOR TO NORMAL RETIREMENT DATE

ATTAINED AGES	NUMBER OF LIVES		AMOUNT OF ANNUAL INCOME		COMPARISON WITH G-1951 TABLE (WITHOUT PROJECTION)			
					By Number of Lives		By Amount of Annual Income	
	Exposed	Actual Deaths	Exposed	Actual Deaths	Expected Deaths	Ratio† Act./Exp.	Expected Deaths	Ratio† Act./Exp.
Males								
50 and under...	1,045.81	11	\$ 184,558	\$ 1,185	3.63	(*) *	\$ 824	(*) *
51-55.....	1,826.45	51	1,168,447	26,281	17.61	(360) 290%	11,316	(295) 232%
56-60.....	13,258.13	443	9,977,791	268,188	183.77	(233) 241	139,291	(227) 193
61-65.....	35,062.89	1,307	33,096,165	1,044,071	726.08	(165) 180	688,132	(136) 152
66-70.....	24,367.79	1,147	20,806,172	859,494	783.22	(142) 146	662,292	(136) 130
71-75.....	10,152.08	652	7,061,428	430,965	517.72	(129) 126	357,272	(109) 121
76-80.....	4,198.50	377	2,414,276	213,438	336.54	(111) 112	192,908	(106) 111
81-85.....	1,026.00	131	614,356	82,475	124.97	(101) 105	74,524	(128) 111
86 and over....	288.00	53	233,360	43,754	52.24	(102) 101	44,642	(71) 98
All ages...	91,225.65	4,172	\$75,556,553	\$2,969,851	2,745.78	(147) 152%	\$2,171,201	(135) 137%

* Less than 10 deaths (actual or expected).

† Percentages in parentheses are for the year 1962 as adjusted in 1963.

TABLE 2—Continued

ATTAINED AGES	NUMBER OF LIVES		AMOUNT OF ANNUAL INCOME		COMPARISON WITH GA-1951 TABLE (WITHOUT PROJECTION)			
					By Number of Lives		By Amount of Annual Income	
	Exposed	Actual Deaths	Exposed	Actual Deaths	Expected Deaths	Ratio† Act./Exp.	Expected Deaths	Ratio† Act./Exp.
Females								
50 and under...	198.30	1	\$ 44,200	\$ 231	0.46	(*) *	\$ 112	(*) *
51-55.....	1,233.54	10	460,614	3,280	5.15	(*) *	1,937	(*) *
56-60.....	3,945.27	56	1,532,214	22,115	25.98	(200) 216%	10,075	(165) 220%
61-65.....	7,802.50	139	3,280,148	52,014	88.04	(158) 158	37,048	(146) 140
66-70.....	5,129.87	104	1,994,219	46,605	91.69	(130) 113	35,647	(116) 131
71-75.....	1,943.00	81	693,026	28,279	65.50	(132) 124	23,314	(128) 121
76-80.....	741.00	45	260,103	15,911	43.26	(82) 104	15,272	(62) 104
81-85.....	184.00	15	71,503	5,175	16.64	(74) 90	6,521	(101) 79
86 and over...	47.00	8	27,230	2,082	6.64	(*) *	3,881	(*) *
All ages...	21,224.48	459	\$ 8,363,257	\$ 175,692	343.36	(136) 134%	\$ 133,807	(124) 131%

* Less than 10 deaths (actual or expected).

† Percentages in parentheses are for the year 1962 as adjusted in 1963.

TABLE 3
 INTERCOMPANY GROUP ANNUITY MORTALITY—MATURED LIFE EXPERIENCE FOR 1963
 RETIREMENT UNDER A PLAN HAVING NO STATED NORMAL RETIREMENT DATE

ATTAINED AGES	NUMBER OF LIVES		AMOUNT OF ANNUAL INCOME		COMPARISON WITH Ga-1951 TABLE (WITHOUT PROJECTION)			
					By Number of Lives		By Amount of Annual Income	
	Exposed	Actual Deaths	Exposed	Actual Deaths	Expected Deaths	Ratio† Act./Exp.	Expected Deaths	Ratio† Act./Exp.
Males								
50 and under...	24.57	.....	\$ 18,118	.....	0.13	(*) *	\$ 104	(*) *
51-55.....	126.45	10	127,294	\$ 6,288	1.25	(*) *	1,256	(*) *
56-60.....	1,124.31	36	1,052,817	29,597	15.82	(257) 228%	14,933	(261) 198%
61-65.....	9,069.72	333	9,169,940	323,953	200.38	(153) 166	203,303	(140) 159
66-70.....	26,210.09	1,052	22,077,074	851,843	862.25	(126) 122	718,658	(121) 119
71-75.....	16,598.04	932	11,218,238	643,648	847.13	(114) 110	566,557	(104) 114
76-80.....	6,641.36	591	3,685,968	324,622	532.21	(114) 111	293,892	(119) 110
81-85.....	1,965.96	256	1,025,139	117,533	240.67	(102) 106	125,408	(103) 94
86-90.....	425.19	86	227,322	51,926	72.96	(117) 118	39,037	(120) 133
91 and over...	66.00	14	64,753	8,100	16.24	(*) 86	15,254	(*) 53
All ages...	62,251.69	3,310	\$48,666,663	\$2,357,510	2,789.04	(121) 119%	\$1,978,402	(117) 119%

* Less than 10 deaths (actual or expected).

† Percentages in parentheses are for the year 1962 as adjusted in 1963.

TABLE 3—Continued

ATTAINED AGES	NUMBER OF LIVES		AMOUNT OF ANNUAL INCOME		COMPARISON WITH GQ-1951 TABLE (WITHOUT PROJECTION)			
					By Number of Lives		By Amount of Annual Income	
	Exposed	Actual Deaths	Exposed	Actual Deaths	Expected Deaths	Ratio† Act./Exp.	Expected Deaths	Ratio† Act./Exp.
Females								
50 and under...	31.08	1	\$ 20,308	\$ 985	0.03	(*) *	\$ 46	(*) *
51-55.....	106.11	2	68,895	1,685	0.43	(*) *	285	(*) *
56-60.....	489.81	7	286,163	3,576	3.37	(*) *	1,957	(*) *
61-65.....	2,193.22	24	1,261,545	14,016	25.77	(110) 93%	14,759	(82) 95%
66-70.....	3,909.07	87	2,203,184	52,103	71.50	(93) 122	40,098	(93) 130
71-75.....	1,831.05	59	941,529	31,538	60.81	(117) 97	31,097	(108) 101
76-80.....	619.30	36	323,373	15,181	36.56	(129) 98	19,042	(132) 80
81-85.....	193.18	17	93,992	9,451	17.57	(*) 97	8,514	(*) 111
86-90.....	38.43	5	24,246	4,489	5.15	(*) *	3,197	(*) *
91 and over....	4.00	.....	2,209	.....	1.01	(*) *	489	(*) *
All ages....	9,415.25	238	\$ 5,225,444	\$ 133,024	222.20	(110) 107%	\$119,484	(103) 111%

* Less than 10 deaths (actual or expected).

† Percentages in parentheses are for the year 1962 as adjusted in 1963.

TABLE 4

INTERCOMPANY GROUP ANNUITY MORTALITY—MATURED LIFE EXPERIENCE TO DECEMBER 31, 1963
RETIREMENT ON OR AFTER NORMAL RETIREMENT DATE

CALENDAR YEARS	NUMBER OF LIVES		AMOUNT OF ANNUAL INCOME		COMPARISON WITH GQ-1951 TABLE (WITHOUT PROJECTION)			
					By Number of Lives		By Amount of Annual Income	
	Exposed	Actual Deaths	Exposed	Actual Deaths	Expected Deaths	Ratio Act./Exp.	Expected Deaths	Ratio Act./Exp.
Males								
1924-40.....	56,543.68	2,927	\$ 59,665,574	\$ 2,966,479	2,296.52	127%	\$ 2,493,038	119%
1941-45.....	115,168.56	5,929	87,577,711	4,808,062	4,791.00	124	3,887,173	124
1946-50.....	258,568.37	12,093	173,033,927	8,326,826	10,617.04	114	7,439,395	112
1951-55.....	520,382.24	24,332	359,570,664	16,280,253	21,844.71	111	15,112,857	108
1956-60.....	874,637.55	41,762	707,851,356	30,703,974	39,069.64	107	29,921,385	103
1961.....	220,637.81	11,168	197,100,159	8,639,850	10,351.87	108	8,517,321	101
1962.....	231,690.91	11,657	216,690,366	9,404,422	11,141.49	105	9,526,847	99
1963.....	244,400.42	12,892	235,805,364	10,535,812	12,028.52	107	10,625,131	99
Females								
1924-40.....	9,855.07	275	\$ 5,814,703	\$ 153,541	174.37	158%	\$ 99,243	155%
1941-45.....	17,705.47	492	8,971,646	240,129	340.07	145	175,852	137
1946-50.....	39,316.09	915	17,240,146	427,282	788.40	116	365,373	117
1951-55.....	88,063.51	1,989	36,317,478	863,164	1,892.30	105	803,703	107
1956-60.....	173,446.14	3,934	75,903,374	1,692,139	4,097.85	96	1,735,983	97
1961.....	48,294.52	1,182	22,581,251	507,887	1,224.75	97	533,270	95
1962.....	53,413.96	1,305	25,679,526	594,440	1,393.59	94	617,103	96
1963.....	58,670.17	1,562	29,262,137	706,915	1,577.30	99	715,980	99

TABLE 5

INTERCOMPANY GROUP ANNUITY MORTALITY—MATURED LIFE EXPERIENCE TO DECEMBER 31, 1963
RETIREMENT PRIOR TO NORMAL RETIREMENT DATE

CALENDAR YEARS	NUMBER OF LIVES		AMOUNT OF ANNUAL INCOME		COMPARISON WITH Ga-1951 TABLE (WITHOUT PROJECTION)			
					By Number of Lives		By Amount of Annual Income	
	Exposed	Actual Deaths	Exposed	Actual Deaths	Expected Deaths	Ratio Act./Exp.	Expected Deaths	Ratio Act./Exp.
Males								
1924-40.....	16,785.02	740	\$ 14,787,646	\$ 606,943	405.74	182%	\$ 354,260	171%
1941-45.....	26,192.10	1,458	17,951,178	776,460	725.69	201	526,840	147
1946-50.....	65,026.42	3,460	37,450,258	1,794,647	1,766.51	196	1,122,876	160
1951-55.....	133,902.82	6,791	78,469,092	3,663,544	3,804.44	179	2,346,548	156
1956-60.....	251,033.54	12,034	173,752,380	7,222,016	7,470.75	161	5,067,588	143
1961.....	71,598.90	3,167	55,021,652	2,169,822	2,142.21	148	1,583,082	137
1962.....	83,071.12	3,673	66,817,373	2,576,926	2,492.11	147	1,913,683	135
1963.....	91,225.65	4,172	75,556,553	2,969,851	2,745.78	152	2,171,201	137
Females								
1924-40.....	1,924.92	44	\$ 813,591	\$ 20,273	17.43	252%	\$ 7,834	259%
1941-45.....	3,852.98	102	1,448,280	38,267	45.23	226	18,969	202
1946-50.....	10,135.15	231	3,385,448	80,824	128.75	179	49,865	162
1951-55.....	23,055.68	527	7,426,652	191,059	321.26	164	117,296	163
1956-60.....	50,775.07	1,152	17,540,395	394,349	771.22	149	279,084	141
1961.....	15,868.75	340	5,787,057	117,521	248.48	137	91,615	128
1962.....	18,412.58	400	6,921,866	135,999	293.61	136	110,107	124
1963.....	21,224.48	459	8,363,257	175,692	343.36	134	133,807	131

TABLE 6

INTERCOMPANY GROUP ANNUITY MORTALITY—MATURED LIFE EXPERIENCE TO DECEMBER 31, 1963
RETIREMENT UNDER A PLAN HAVING NO STATED NORMAL RETIREMENT DATE

CALENDAR YEARS	NUMBER OF LIVES		AMOUNT OF ANNUAL INCOME		COMPARISON WITH GA-1951 TABLE (WITHOUT PROJECTION)			
					By Number of Lives		By Amount of Annual Income	
	Exposed	Actual Deaths	Exposed	Actual Deaths	Expected Deaths	Ratio Act./Exp.	Expected Deaths	Ratio Act./Exp.
Males								
1956-60.....	127,277.37	6,255	\$ 78,620,496	\$3,580,112	5,513.24	113%	\$3,224,027	111%
1961.....	46,324.74	2,395	32,292,290	1,526,939	2,055.33	117	1,324,274	115
1962.....	55,163.58	2,955	40,866,020	1,949,516	2,448.81	121	1,659,867	117
1963.....	62,251.69	3,310	48,666,663	2,357,510	2,789.04	119	1,978,402	119
Females								
1956-60.....	13,685.38	276	\$ 6,614,196	\$ 130,228	299.30	92%	\$ 141,729	92%
1961.....	6,094.48	109	3,081,212	47,920	137.14	79	68,154	70
1962.....	7,588.48	191	4,055,984	93,106	173.25	110	90,089	103
1963.....	9,415.25	238	5,225,444	133,024	222.20	107	119,484	111

TABLE 7
INTERCOMPANY GROUP ANNUITY MORTALITY—MATURED LIFE EXPERIENCE
TO DECEMBER 31, 1963
RETIREMENT ON OR AFTER NORMAL RETIREMENT DATE
COMPARISON WITH G-a-1951 TABLE (WITHOUT PROJECTION)

MALES

Attained Ages	1946-50	1951-55	1956-60	1957-61	1958-62	1959-63
Actual Deaths, by Number of Lives						
60 and under	46	50	95	119	154	177
61-65	1,211	2,137	2,839	2,963	3,045	3,069
66-70	4,790	9,653	14,379	15,363	16,150	16,812
71-75	3,162	6,766	12,660	14,161	15,473	17,012
76-80	1,731	3,549	7,467	8,683	9,852	11,203
81-85	855	1,568	3,133	3,689	4,262	4,975
86-90	232	494	954	1,116	1,320	1,551
91-95	60	104	214	246	287	301
96 and over	6	11	21	23	26	32
Total	12,093	24,332	41,762	46,363	50,569	55,132
Ratio: Actual/Expected, by Number of Lives						
60 and under	190%	180%	152%	154%	165%	165%
61-65	118	117	112	111	110	110
66-70	113	113	107	107	107	107
71-75	113	110	108	109	108	109
76-80	110	107	106	106	104	104
81-85	119	108	102	103	102	103
86-90	108	111	104	103	104	104
91-95	154	134	123	119	118	106
96 and over	*	104	79	73	69	70
Total	114%	111%	107%	107%	107%	107%
Ratio: Actual/Expected, by Amount of Annual Income						
60 and under	199%	154%	123%	115%	112%	118%
61-65	115	115	109	104	101	100
66-70	114	108	101	101	101	100
71-75	112	108	104	103	102	102
76-80	101	104	101	102	98	99
81-85	121	99	102	102	102	101
86-90	90	108	106	106	109	105
91-95	169	157	109	99	90	85
96 and over	*	92	63	58	45	36
Total	112%	108%	103%	102%	101%	100%

* Less than 10 deaths (actual or expected).

TABLE 7—Continued

FEMALES

Attained Ages	1946-50	1951-55	1956-60	1957-61	1958-62	1959-63
Actual Deaths, by Number of Lives						
60 and under . . .	41	67	76	77	87	99
61-65	163	324	459	492	555	592
66-70	258	645	1,253	1,388	1,547	1,730
71-75	233	424	1,006	1,217	1,417	1,629
76-80	128	291	666	759	881	1,104
81-85	63	173	311	374	439	536
86-90	25	53	127	145	180	216
91-95	4	12	29	37	44	50
96 and over			7	6	7	6
Total	915	1,989	3,934	4,495	5,157	5,962
Ratio: Actual/Expected, by Number of Lives						
60 and under . . .	119%	124%	99%	94%	98%	104%
61-65	113	109	97	96	101	100
66-70	109	104	95	94	94	96
71-75	125	96	90	92	92	91
76-80	108	102	102	96	91	94
81-85	135	127	100	101	101	105
86-90	144	116	120	112	112	111
91-95	*	*	103	114	113	107
96 and over	*	*	*	*	*	*
Total	116%	105%	96%	95%	95%	96%
Ratio: Actual/Expected, by Amount of Annual Income						
60 and under . . .	100%	108%	107%	100%	101%	104%
61-65	122	115	101	101	104	104
66-70	108	109	96	94	94	96
71-75	123	93	86	89	89	88
76-80	102	106	107	97	94	94
81-85	150	126	100	96	100	106
86-90	158	108	118	116	129	123
91-95	*	*	107	118	114	123
96 and over	*	*	*	*	*	*
Total	117%	107%	97%	95%	96%	96%

TABLE 8
INTERCOMPANY GROUP ANNUITY MORTALITY—MATURED LIFE EXPERIENCE
TO DECEMBER 31, 1963
RETIREMENT PRIOR TO NORMAL RETIREMENT DATE
COMPARISON WITH G-a-1951 TABLE (WITHOUT PROJECTION)
MALES

Attained Ages	1946-50	1951-55	1956-60	1957-61	1958-62	1959-63
Actual Deaths, by Number of Lives						
60 and under	651	1,135	1,547	1,660	1,860	2,054
61-65	1,238	2,308	3,848	4,215	4,600	5,149
66-70	843	1,856	3,214	3,530	4,002	4,503
71-75	470	886	2,013	2,284	2,522	2,797
76-80	218	422	905	1,044	1,233	1,429
81-85	36	160	389	441	485	538
86-90	4	22	103	111	131	161
91-95		2	14	17	19	26
96 and over			1	1		
Total	3,460	6,791	12,034	13,303	14,852	16,657
Ratio: Actual/Expected, by Number of Lives						
60 and under	334%	309%	252%	238%	235%	235%
61-65	243	228	198	190	181	179
66-70	166	156	151	148	145	144
71-75	138	130	128	129	128	129
76-80	126	111	118	115	115	113
81-85	94	108	114	114	112	110
86-90	*	82	113	103	100	104
91-95	*	*	124	111	95	94
96 and over	*	*	*	*	*	*
Total	196%	179%	161%	157%	153%	152%
Ratio: Actual/Expected, by Amount of Annual Income						
60 and under	251%	249%	196%	190%	200%	199%
61-65	206	206	164	157	147	147
66-70	145	141	136	135	137	134
71-75	131	121	122	122	115	117
76-80	115	102	119	117	114	112
81-85	78	94	105	112	116	120
86-90	*	150	93	88	87	100
91-95	*	*	106	62	45	38
96 and over	*	*	*	*	*	*
Total	160%	156%	143%	140%	137%	136%

* Less than 10 deaths (actual or expected).

TABLE 8—Continued

FEMALES

Attained Ages	1946-50	1951-55	1956-60	1957-61	1958-62	1959-63
Actual Deaths, by Number of Lives						
60 and under.....	64	117	194	223	239	271
61-65.....	59	155	327	397	466	542
66-70.....	54	126	292	339	394	452
71-75.....	34	71	186	203	257	296
76-80.....	16	40	99	114	128	157
81-85.....	3	13	47	52	56	64
86-90.....	1	4	6	8	13	17
91-95.....	1	1	1	2	5	7
96 and over.....						
Total.....	231	527	1,152	1,338	1,558	1,806
Ratio: Actual/Expected, by Number of Lives						
60 and under.....	260%	255%	221%	223%	211%	213%
61-65.....	173	186	166	166	164	162
66-70.....	175	147	144	144	142	136
71-75.....	140	120	119	109	118	117
76-80.....	*	119	116	111	103	104
81-85.....	*	125	140	126	112	108
86-90.....	*	*	*	*	120	115
91-95.....	*	*	*	*	*	*
96 and over.....	*	*	*	*	*	*
Total.....	179%	164%	149%	146%	144%	141%
Ratio: Actual/Expected, by Amount of Annual Income						
60 and under.....	259%	255%	228%	214%	196%	206%
61-65.....	165	216	147	153	154	151
66-70.....	184	150	147	142	134	132
71-75.....	114	102	105	100	113	112
76-80.....	*	106	111	102	92	96
81-85.....	*	136	139	114	115	114
86-90.....	*	*	*	*	79	59
91-95.....	*	*	*	*	*	*
96 and over.....	*	*	*	*	*	*
Total.....	162%	163%	141%	137%	135%	134%

TABLE 9
INTERCOMPANY GROUP ANNUITY MORTALITY—MATURED LIFE EXPERIENCE
TO DECEMBER 31, 1963
RETIREMENT UNDER A PLAN HAVING NO STATED NORMAL RETIREMENT DATE
COMPARISON WITH G-a-1951 TABLE (WITHOUT PROJECTION)

ATTAINED AGES	1956-60		1957-61		1958-62		1959-63	
	Males	Females	Males	Females	Males	Females	Males	Females
Actual Deaths, by Number of Lives								
60 and under . . .	61	11	82	10	110	16	146	23
61-65	540	50	659	62	842	79	1,051	96
66-70	2,427	119	3,073	153	3,716	198	4,304	266
71-75	1,809	54	2,400	79	3,035	126	3,635	172
76-80	948	22	1,243	30	1,644	65	2,054	97
81-85	343	15	464	25	617	31	804	47
86-90	107	5	142	6	202	10	272	14
91-95	15	.....	26	.....	31	.....	40	.....
96 and over . . .	5	.....	5	.....	6	.....	7	.....
Total	6,255	276	8,094	365	10,203	525	12,313	715
Ratio: Actual/Expected, by Number of Lives								
60 and under . . .	307%	*	285%	*	279%	*	275%	192%
61-65	151	122%	144	111%	143	108%	146	106
66-70	120	108	123	101	123	99	123	106
71-75	108	65	112	70	113	85	113	89
76-80	102	51	103	48	106	73	108	83
81-85	93	107	94	117	95	101	98	102
86-90	98	*	96	*	103	*	108	125
91-95	84	*	110	*	106	*	104	*
96 and over . . .	*	*	*	*	*	*	*	*
Total	113%	92%	115%	88%	117%	94%	117%	99%
Ratio: Actual/Expected, by Amount of Annual Income								
60 and under . . .	171%	*	196%	*	222%	*	228%	179%
61-65	133	95%	126	91%	125	88%	135	94
66-70	110	109	115	104	116	100	117	109
71-75	111	64	114	61	111	75	112	82
76-80	104	59	104	52	108	79	109	80
81-85	105	136	104	122	104	105	102	106
86-90	105	*	100	*	109	*	110	145
91-95	53	*	83	*	81	*	68	*
96 and over . . .	*	*	*	*	*	*	*	*
Total	111%	92%	113%	85%	114%	90%	115%	97%

* Less than 10 deaths (actual or expected).

The report indicates no significant changes during 1963 in the mortality ratios for the various categories of data. There are, however, a number of categories in which minor increases in the ratios are shown for 1963 as compared with 1962. These increases are probably due to the slight increase in deaths from pneumonia and associated causes that appeared in 1963 in general population experience and in the experience of insured lives.

The following companies have contributed experience for the investigation covered by this report:

Aetna Life Insurance Company
Bankers Life Company
Canada Life Assurance Company
Confederation Life Association
Connecticut General Life Insurance Company
Equitable Life Assurance Society
Great-West Life Assurance Company
John Hancock Mutual Life Insurance Company
Massachusetts Mutual Life Insurance Company
Metropolitan Life Insurance Company
North American Life Assurance Company
Occidental Life Insurance Company
Pacific Mutual Life Insurance Company
Prudential Insurance Company of America
Sun Life Assurance Company of Canada
The Travelers Insurance Company

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