

**TRANSACTIONS OF SOCIETY OF ACTUARIES
1965 REPORTS**

**REPORTS OF THE COMMITTEE ON EXPERIENCE
UNDER INDIVIDUAL HEALTH INSURANCE**

**I. EXPERIENCE UNDER INDIVIDUAL LOSS-OF-TIME
POLICIES, 1960-63**

THIS report presents a two-part analysis of morbidity experience under individual loss-of-time policies. The first part covers the full first year of the benefit period, while the second part analyzes experience under claims extending into the second year of benefits.

A. EXPERIENCE UNDER FIRST YEAR OF BENEFIT PERIOD

The experience covering exposures and claims during the calendar years 1962 and 1963 has been added to the 1960-61 experience shown in the prior report (*1963 Reports*). Because it was felt that an analysis of the full experience contributed to date would be of most value, this report deals primarily with the 1960-63 experience. Results for the years 1962-63 are presented in Tables A, B, and C of the Appendix in the same form as Tables 3, 4, and 5 in the main body of the report. The reporting system used is generally the same as that used for earlier experience. This system is described in detail in the *1959 Reports* (pp. 126-28).

The presentation of data follows the format used in the report covering 1955-59 experience. Accident and sickness disability experience are presented in separate tables (Tables 3 and 4). Total disability experience is also shown in a separate table (Table 5).

Each table contains the experience for males in Occupation Groups I and II and for females in Occupation Group I; for convenience, these three groups are referred to hereafter in the report as "Male I," "Male II," and "Female I." The amount of data on females in Occupation Group II was not large enough to warrant a study of this group.

In the Bureau of A & H Underwriters' classification system, Occupation Group I consists of Classes A-D* and Occupation Group II consists of Classes D-H. (See *1959 Reports*, pp. 130-31, for a complete description.) Occupation Group I covers occupations that generally involve little exposure to an accident hazard. Occupation Group II consists of those occupations that involve a greater degree of exposure to accident hazards or duties where sickness or injury generally results in a longer period of disability than Group I occupations. Many of these occupations are performed outdoors and involve a longer average period of disability because

of the difficulty of returning to work in inclement weather. Persons whose work requires perfect, or near-perfect, physical condition would also be in Group II, since such persons may be disabled by a relatively minor injury.

Each table includes (1) annual claim rates, (2) average claim duration in months, and (3) annual claim costs. The total disability annual claim rates and annual claim costs are simply a sum of the separate accident and sickness claim rates and claim costs and consequently reflect experience on many different combinations of accident and sickness benefits. Annual claim rates (or frequencies) have been calculated as the ratio of the amount of monthly indemnity on approved claims to the corresponding exposure. Annual claim costs (or amounts) have been calculated as the ratio of the aggregate benefits incurred on claims to the corresponding exposure. Durations of claims in months have been calculated by dividing the annual claim cost by the annual claim rate.

1. VOLUME OF DATA

For the calendar-year period 1960-63, the Committee has compiled an aggregate exposure of 5,300,000 policy years under which 283,000 claims were incurred. The companies that contributed to the study are shown in Table 1, together with the volume of each company's data for each of the calendar years studied, measured by the number of claims reported on the exposure summary cards.

Table 2 shows the distribution of the number of claims reported on the exposure summary cards by type of coverage, sex, and occupation group. Number of claims has been used as the basis for measuring the volume of data, since it is a good measure of the reliability of the statistical results. This study has been confined to those coverages where there is a significant amount of data. These coverages are indicated by an asterisk in Table 2. It should be noted that, in certain of the cells studied, virtually all the experience has been contributed by only one or two companies. The coverages for which there is a reasonable cross-section of experience by company are the 0-day accident and 7-, 14-, and 30-day sickness coverages. In comparing the results for different elimination periods, this characteristic of the study should be kept in mind.

2. DISABILITY EXPERIENCE

Tables 3, 4, and 5, respectively, give a summary of the accident, sickness, and total disability experience compiled in this report. Each table

TABLE 1
CONTRIBUTING COMPANIES AND NUMBER OF CLAIMS

COMPANY	YEAR OF EXPERIENCE				1960-63 COMBINED
	1960	1961	1962	1963	
Metropolitan.....	26,844	24,130	24,224	24,312	99,510
Prudential.....	10,460	10,382	10,836	11,772	43,450
Pacific Mutual.....	6,559	6,155	5,841	5,916	24,471
Travelers.....	6,944	.....	7,973	9,544	24,461
Loyal Protective.....	5,325	5,474	5,270	4,715	20,784
Business Men's Assurance	5,086	5,117	3,957	5,470	19,630
Monarch.....	.....	.....	.....	11,868	11,868
Mutual of New York.....	1,520	2,298	2,779	3,141	9,738
New York Life.....	2,100	2,123	2,303	2,493	9,019
John Hancock.....	923	1,205	1,410	1,748	5,286
Union Mutual.....	1,305	.....	1,494	1,695	4,494
Connecticut General.....	532	628	785	863	2,808
Continental Assurance.....	479	503	577	699	2,258
Guardian.....	604	632	683	.....	1,919
Provident Mutual.....	194	207	209	279	889
Beneficial Standard.....	397	475	.....	.....	872
Equitable, New York.....	.....	.....	295	430	725
Standard of Oregon.....	.....	171	209	217	597
Wisconsin National.....	408	.....	.....	.....	408
Total.....	69,680	59,500	68,845	85,162	283,187

TABLE 2
NUMBER OF CLAIMS BY TYPE OF COVERAGE, SEX, AND OCCUPATION GROUP
1960-63 EXPERIENCE COMBINED

ELIM. PERIOD (DAYS)	ACCIDENT				SICKNESS			
	Male		Female		Male		Female	
	Occup'n Group I	Occup'n Group II	Occup'n Group I	Occup'n Group II	Occup'n Group I	Occup'n Group II	Occup'n Group I	Occup'n Group II
0.....	56,276*	39,893*	4,627*	267	37,774*	4,431*	3,077*	253
3.....	683*	1,481*	609*	71	4,080*	6,900*	3,493*	367
7.....	7,429*	8,106*	1,419*	64	34,764*	40,439*	8,612*	601
14.....	1,057*	1,028*	105*	8	4,762*	2,112*	939*	50
21.....	0	0	0	0	38	0	0	0
30.....	613	392	72	2	3,464*	1,107*	697*	6
60.....	46	16	8	0	262	28	56	0
90.....	67	30	9	0	345	113	39	0
Total	66,171	50,946	6,849	412	85,489	55,130	16,913	1,277

* Subsequent tables and discussions are based only on data indicated.

shows the three elements of disability—annual claim rate, duration of claim in months, and annual claim cost—by the four variables studied—sex, occupation group, elimination period, and attained age.

Accident Disability (Table 3)

As indicated in Table 2 and in Table D of the Appendix, the amount of data for the 3-day and 14-day elimination periods is rather limited, and the data for the 7-day period were largely contributed by one company. Therefore, the following comments are based on the data in Table 3 with a 0-day elimination period. However, data for the 3-day, 7-day and 14-day elimination periods are shown in Table 3, so that comparisons can be made with the data for the 0-day elimination period.

The significant points of interest brought out by this table are as follows:

MALE I.—Annual claim rates show a slight decrease with age, and claim durations show an increase. The combined effect of decreasing rates and increasing durations produces costs which decrease about 15 per cent after ages 20–29, remain about level throughout ages 30–59, and then increase back to the 20–29 level for ages 60–69.

MALE II.—As with the 1960–61 experience, annual claim rates tend to decrease with age while claim durations increase with age. Annual claim costs decrease from ages 20–29 to 30–39 and then slowly increase as age increases.

The ratios of Male II to Male I claim rates increase slightly from ages 20–29 to 30–39 to just over 200 per cent and then decrease with age. Male II claim costs increase slightly from 208 per cent of Male I costs at ages 20–29 to 240 per cent at ages 50–59 and then drop to 218 per cent for ages 60–69.

FEMALE I.—Annual claim rates increase slowly with age to age 49 and then quite rapidly to age 65. Claim durations increase more rapidly with age than Male I claim durations, and again the steeper increases are after age 50. The combined effect of increasing rates and durations produces claim costs with a steep slope by age.

Female I claim rates are lower than Male I claim rates at ages under 40, about the same for ages 40–49, and 40–60 per cent higher than Male I rates at ages 50 and over. The significant decrease in the ratios of female to male claim durations, from 1955–59 experience to 1960–61 experience as referred to in the *1963 Reports*, is not as pronounced in the 1960–63 experience.

Sickness Disability (Table 4)

The amount of sickness disability data for the 14-day and 30-day elimination periods is not very extensive, while the amount of data for the 0-day and 3-day elimination periods is concentrated among just a few contributors. Therefore comments are based primarily on the data for the 7-day elimination period, although differing characteristics of the experience of other elimination periods are also noted.

TABLE 3

ACCIDENT DISABILITY LOSS-OF-TIME EXPERIENCE 1960-63
LIMITED TO ONE-YEAR MAXIMUM BENEFIT PERIOD

ATTAINED AGE	MALE OCC. GROUP I			MALE OCC. GROUP II			FEMALE OCC. GROUP I			RATIOS TO MALE OCC. GROUP I					
										Male Occ. Group II			Female Occ. Group I		
	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*
0-Day Elimination Period															
20-29 .....	.054	.89	.048	.107	.93	.100	.039	.82	.032	198%	104%	208%	72%	92%	67%
30-39 .....	.046	.89	.041	.093	1.03	.096	.040	1.03	.041	202	116	234	87	116	100
40-49 .....	.044	.95	.042	.086	1.16	.100	.045	1.09	.049	195	122	238	102	115	117
50-59 .....	.041	1.02	.042	.078	1.29	.101	.057	1.28	.073	190	126	240	139	125	174
60-69 .....	.041	1.22	.050	.073	1.49	.109	.065	1.37	.089	178	122	218	159	112	178
3-Day Elimination Period															
20-29 .....	.025	1.48	.037	.051	1.08	.055	†	†	†	204%	73%	149%			
30-39 .....	.036	.78	.028	.052	.96	.050	.018	.83	.015	144	123	179	50%	106%	54%
40-49 .....	.030	1.03	.031	.064	1.13	.072	.024	1.50	.036	213	110	232	80	146	116
50-59 .....	.037	1.16	.043	.086	1.30	.112	.048	1.38	.066	232	112	260	130	119	153
60-69 .....	.043	1.91	.082	.089	1.39	.124	.059	1.49	.088	207	73	151	137	78	107

* Per \$1.00 of monthly income benefit.

† Less than 10 claims.

TABLE 3--Continued

ATTAINED AGE	MALE OCC. GROUP I			MALE OCC. GROUP II			FEMALE OCC. GROUP I			RATIOS TO MALE OCC. GROUP I					
										Male Occ. Group II			Female Occ. Group I		
	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*
7-Day Elimination Period															
20-29.....	.016	1.19	.019	.046	1.17	.054	.012	1.25	.015	288%	98%	284%	75%	105%	79%
30-39.....	.031	1.16	.036	.049	1.43	.070	.020	1.40	.028	158	123	194	65	121	78
40-49.....	.033	1.33	.044	.048	1.46	.070	.028	1.64	.046	145	110	159	85	123	105
50-59.....	.036	1.42	.051	.049	1.49	.073	.039	1.56	.061	136	105	143	108	110	120
60-69.....	.029	1.59	.046	.057	1.72	.098	†	†	†	197	108	213	.....	.....	.....
14-Day Elimination Period															
20-29.....	.008	1.75	.014	.030	1.73	.052	†	†	†	375%	99%	371%	88%	188%	164%
30-39.....	.012	1.75	.021	.036	1.86	.067	(.012)†	(2.00)†	(.024)†	300	106	319	100	114	114
40-49.....	.015	1.27	.019	.039	2.44	.095	.017	2.35	.040	260	192	500	113	185	211
50-59.....	.018	1.44	.026	.036	1.97	.071	.019	2.63	.050	200	137	273	106	183	192
60-69.....	.016	2.25	.036	(.045)†	(2.07)†	(.093)†	†	†	†	281	92	258	.....	.....	.....

† Rates in parentheses based on 10-24 claims, inclusive.

TABLE 4

SICKNESS DISABILITY LOSS-OF-TIME EXPERIENCE, 1960-63
LIMITED TO ONE-YEAR MAXIMUM BENEFIT PERIOD

ATTAINED AGE	MALE OCC. GROUP I			MALE OCC. GROUP II			FEMALE OCC. GROUP I			RATIOS TO MALE OCC. GROUP I					
										Male Occ. Group II			Female Occ. Group I		
	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*
0-Day Elimination Period															
20-29 .....	.144	.60	.086	.160	.53	.085	.200	.48	.096	111%	88%	99%	139%	80%	112%
30-39 .....	.158	.73	.116	.195	.65	.126	.210	.81	.170	123	89	109	133	111	147
40-49 .....	.172	.99	.170	.201	.97	.194	.222	1.13	.250	117	98	114	129	114	147
50-59 .....	.198	1.42	.281	.230	1.40	.322	.234	1.15	.268	116	99	115	118	81	95
60-69 .....	.157	1.82	.285	.222	2.16	.479	.336	1.69	.569	141	119	168	214	93	200
3-Day Elimination Period															
20-29 .....	.086	.78	.067	.080	.89	.071	.134	.90	.120	93%	114%	106%	156%	115%	179%
30-39 .....	.110	.86	.095	.101	1.05	.106	.164	.97	.159	92	122	112	149	113	167
40-49 .....	.116	1.22	.141	.121	1.27	.154	.169	1.28	.217	104	104	109	146	105	154
50-59 .....	.181	1.61	.292	.168	1.73	.290	.236	1.46	.344	93	107	99	130	91	118
60-69 .....	.231	2.04	.471	.188	2.14	.403	.264	1.75	.461	81	105	86	114	86	98

* Per \$1.00 of monthly income benefit.

TABLE 4—Continued

ATTAINED AGE	MALE OCC. GROUP I			MALE OCC. GROUP II			FEMALE OCC. GROUP I			RATIOS TO MALE OCC. GROUP I					
										Male Occ. Group II			Female Occ. Group I		
	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*
7-Day Elimination Period															
20-29.....	.037	1.05	.039	.052	1.15	.060	.072	1.11	.080	141%	110%	154%	195%	106%	205%
30-39.....	.060	1.22	.073	.070	1.31	.092	.109	1.69	.184	117	107	126	182	139	252
40-49.....	.081	1.59	.129	.091	1.64	.149	.131	1.59	.208	112	103	116	162	100	161
50-59.....	.115	1.99	.229	.125	2.10	.262	.150	1.63	.245	109	106	114	130	82	107
60-69.....	.126	2.49	.314	.158	2.91	.460	.160	2.16	.346	125	117	146	127	87	110
14-Day Elimination Period															
20-29.....	.021	1.29	.027	.028	1.43	.040	.055	1.53	.084	133%	111%	148%	262%	119%	311%
30-39.....	.030	1.43	.043	.039	1.77	.069	.069	2.00	.138	130	124	160	230	140	321
40-49.....	.043	1.81	.078	.058	2.00	.116	.090	1.99	.179	135	110	149	209	110	229
50-59.....	.071	2.13	.151	.079	2.41	.190	.078	2.06	.161	111	113	126	110	97	107
60-69.....	.095	2.60	.247	.107	3.99	.427	.087	3.05	.265	113	153	173	92	117	107
30-Day Elimination Period															
20-29.....	.005	1.80	.009	.009	1.56	.014	.023	2.04	.047	180%	87%	156%	460%	113%	522%
30-39.....	.009	2.00	.018	.017	1.94	.033	.029	2.03	.059	189	97	183	322	102	328
40-49.....	.016	2.56	.041	.027	2.37	.064	.039	2.46	.096	169	93	156	244	96	234
50-59.....	.034	2.68	.091	.047	3.04	.143	.037	2.86	.106	138	113	157	109	107	116
60-69.....	.059	3.34	.197	.069	3.78	.261	.069	2.55	.176	117	113	132	117	76	89

For sickness benefits with a 7-day elimination period, all annual claim rates, average durations (except Female II ages 40-49), and annual claim costs increase with age. The combination of increasing rates and increasing average durations produces a very steep pattern of annual claim costs.

MALE I.—As in previous reports, the elimination period affects claim rates and durations. For the shorter elimination periods, claim rates increase with age at a slower rate than for the longer elimination periods. On the other hand, claim durations generally behave in the opposite manner, increasing more rapidly for shorter elimination periods. The claim rate and claim cost for 7-day elimination period ages 20-29 (.037 and .039, respectively) were significantly affected by the 1962-63 experience of one large company (.019 and .024, respectively) which contributed approximately 50 per cent of the exposure in this cell.

MALE II.—For the 7-day elimination period, ratios of Male II to Male I claim rates, costs, and durations show a tendency to decrease with age until ages 60-69 where there is a sharp increase. These variations are more pronounced for claim costs.

Male II experience for other elimination periods is not very extensive. For the largest of these groups, 3-day sickness, Male II experience is more extensive than Male I and has lower claim rates. However, longer claim durations for the Male II group result in claim costs which are roughly comparable to Male I costs.

FEMALE I.—For 0-day, 3-day, and 7-day elimination periods, the ratios of Female I to Male I claim rates generally decrease with age. Claim duration ratios are erratic but exhibit a tendency to decrease with age except from ages 20-29 to 30-39. The resultant Female I claim costs are generally much higher than corresponding Male I costs under age 50. The ratios for 14-day and 30-day elimination periods are probably distorted due to small amounts of data, but a definite tendency for claim rate and claim costs ratios to decrease with age is evident.

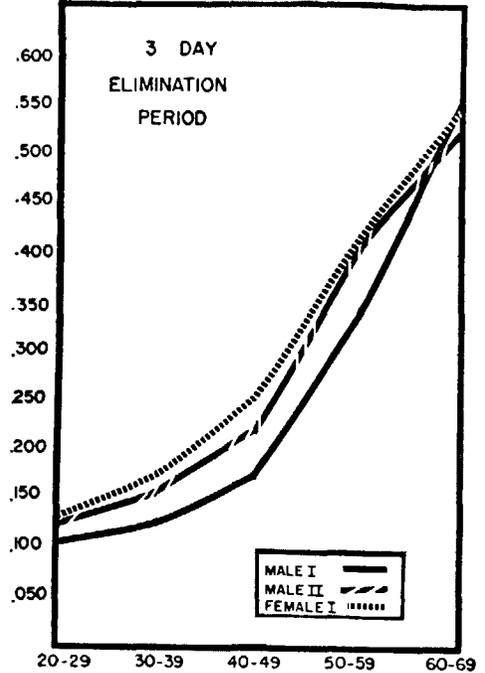
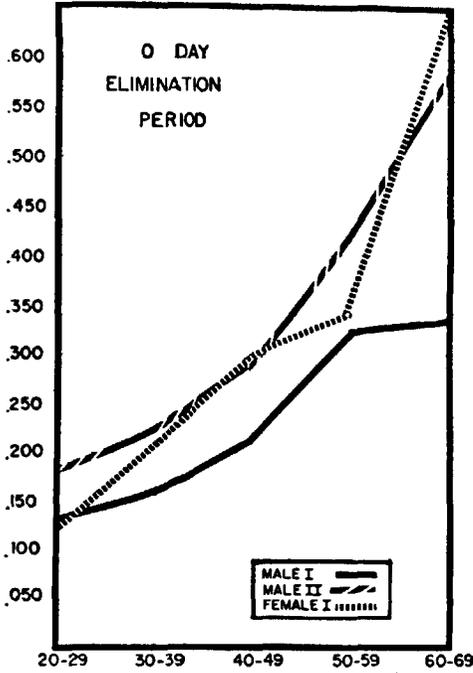
Total Disability (Table 5)

Total disability annual claim rates and annual claim costs as derived in this study are the sum of the annual claim rates and annual claim costs for accident disability and sickness disability. Since sickness disability annual claim rates and annual claim costs are generally much higher than corresponding rates and costs for accident disability, total disability claim rates and costs tend to follow the pattern of those for sickness disability. A graphic comparison of Male I, Male II, and Female I total disability annual claim costs is shown in Charts I and II.

CHART I

TOTAL DISABILITY LOSS-OF-TIME EXPERIENCE, 1960-63

ANNUAL CLAIM COSTS*

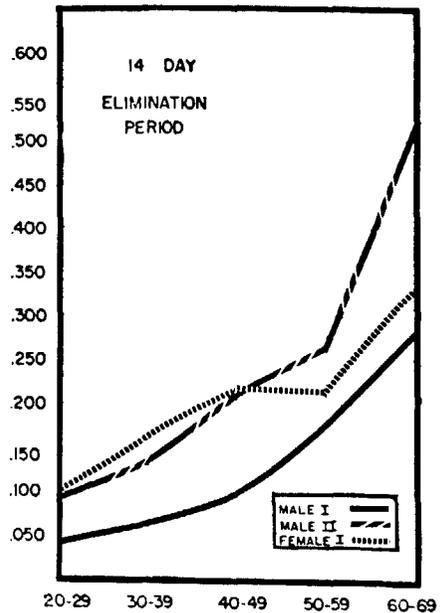
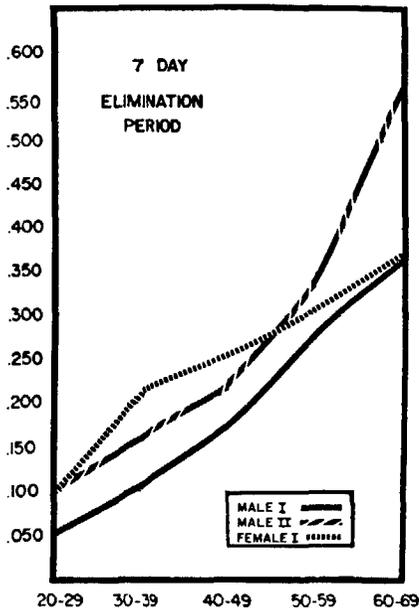


* Per \$1.00 of monthly income benefit.

CHART II

TOTAL DISABILITY LOSS-OF-TIME EXPERIENCE, 1960-63

ANNUAL CLAIM COSTS*



* Per \$1.00 of monthly income benefit.

TABLE 5
 TOTAL DISABILITY LOSS-OF-TIME EXPERIENCE, 1960-63
 LIMITED TO ONE-YEAR MAXIMUM BENEFIT PERIOD

ATTAINED AGE	MALE OCC. GROUP I			MALE OCC. GROUP II			FEMALE OCC. GROUP I		
	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*
0-Day Elimination Period									
20-29...	.198	.68	.134	.267	.69	.185	.239	.54	.128
30-39...	.204	.77	.157	.288	.77	.222	.250	.84	.211
40-49...	.216	.98	.212	.287	1.02	.294	.267	1.12	.299
50-59...	.239	1.35	.323	.308	1.37	.423	.291	1.17	.341
60-69...	.198	1.69	.335	.295	1.99	.588	.401	1.64	.658
3-Day Elimination Period									
20-29...	.111	.94	.104	.131	.96	.126	.139	.93	.129
30-39...	.146	.84	.123	.153	1.02	.156	.182	.96	.174
40-49...	.146	1.18	.172	.185	1.22	.226	.193	1.31	.253
50-59...	.218	1.54	.335	.254	1.58	.402	.284	1.44	.410
60-69...	.274	2.02	.553	.277	1.90	.527	.323	1.70	.549
7-Day Elimination Period									
20-29...	.053	1.09	.058	.098	1.16	.114	.084	1.13	.095
30-39...	.091	1.20	.109	.119	1.36	.162	.129	1.64	.212
40-49...	.114	1.52	.173	.139	1.58	.219	.159	1.60	.254
50-59...	.151	1.85	.280	.174	1.93	.335	.189	1.62	.306
60-69...	.155	2.32	.360	.215	2.60	.558	.193	1.91	.368
14-Day Elimination Period									
20-29...	.029	1.41	.041	.058	1.59	.092	.062	1.73	.107
30-39...	.042	1.52	.064	.075	1.81	.136	.081	2.00	.162
40-49...	.058	1.67	.097	.097	2.18	.211	.107	2.05	.219
50-59...	.089	1.99	.177	.115	2.27	.261	.097	2.18	.211
60-69...	.111	2.55	.283	.152	3.42	.520	.097	3.39	.329

* Per \$1.00 of monthly income benefit.

Ratios of Accident Disability to Total Disability (Table 6)

The accident and sickness components are based on data which were contributed by different groups of companies and which came from a wide variety of accident and sickness combinations. This could have a significant effect on the ratios and should be kept in mind in their interpretation. Table 6 is shown, however, so that some idea may be obtained as to the relationship of accident to total disability rates. Only ratios based on data for 0-day and 7-day elimination periods are shown because of the even greater limitations of data for the other elimination periods. Nearly all the ratios in this table follow very closely those of the corresponding table in the 1960-61 report.

TABLE 6
RATIOS OF ACCIDENT TO TOTAL DISABILITY LOSS-OF-TIME EXPERIENCE
1960-63

ATTAINED AGE	0-DAY ELIMINATION PERIOD			7-DAY ELIMINATION PERIOD		
	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost
Male I						
20-29.....	27.3%	131%	35.8%	30.2%	109%	32.8%
30-39.....	22.5	116	26.1	34.1	97	33.0
40-49.....	20.4	97	19.8	28.9	88	25.4
50-59.....	17.2	76	13.0	23.8	77	18.2
60-69.....	20.7	72	14.9	18.7	69	12.8
Male II						
20-29.....	40.1%	135%	54.1%	46.9%	101%	47.4%
30-39.....	32.3	134	43.2	41.2	105	43.2
40-49.....	30.0	114	34.0	34.5	92	32.0
50-59.....	25.3	94	23.9	28.2	77	21.8
60-69.....	24.7	75	18.5	26.5	66	17.6
Female I						
20-29.....	16.3%	152%	25.0%	14.3%	111%	15.8%
30-39.....	16.0	123	19.4	15.5	85	13.2
40-49.....	16.9	97	16.4	17.6	103	18.1
50-59.....	19.6	109	21.4	20.6	96	19.9
60-69.....	16.2	84	13.5	.....	.....	.....

The items of interest brought out by this table are as follows:

MALE I.—For both the 0-day and 7-day elimination periods, ratios of accident to total disability experience decrease by age. By referring to the 1955–59 results (*1961 Reports*, p. 110) for the 0-day elimination period, it can be seen that ratios of accident to total disability claim durations have changed little while accident annual claim rates have increased from about 15 per cent of the total disability rate in 1955–59 to about 20 per cent in 1960–63.

MALE II.—As would be expected, ratios of Male II accident to total disability experience generally exceed corresponding Male I ratios. Like the Male I experience, Male II ratios of accident to total disability experience decrease by age.

FEMALE I.—Ratios of accident to total disability annual claim rates and costs show no consistent variation by age. Annual claim cost ratios average about 15–20 per cent for both the 0-day and the 7-day elimination periods.

3. EFFECT OF LENGTH OF ELIMINATION PERIOD ON DISABILITY EXPERIENCE

Tables showing the effect of elimination period on disability experience were included in the Committee's report covering experience in calendar years 1955–59 (*1961 Reports*). The current report shows, in Table 7, the effect of elimination period on claim rates, durations, and costs for the Male I sickness data shown in Table 4. Due to fluctuations in the data, a similar table showing accident experience was eliminated from the current study. In interpreting the data, it is important to note that the experience for sickness policies with a 0-day actual elimination period is largely that of one company.

After adjusting claim rates, durations, and costs to derive the same synthetic elimination period for policies with different actual elimination periods, the experience shows that sickness claim rates and claim costs are highest for the shorter actual elimination periods. Conversely, claim durations under a particular synthetic elimination period are shorter for the shorter actual elimination period.

The higher costs of coverages with shorter elimination periods are due not only to benefits provided before coverage would be available under a longer elimination period contract but also to higher benefit costs after the expiration of the longer elimination period. This variation in experience under coverages with different elimination periods may be due to adverse selection at issue on policies with short elimination periods. On the other hand, the differences in claim persistency may result from a

tendency for certain claimants to remain out of work for a longer period if in receipt of income benefits. This may be due in part to the mechanics of terminating disability claims wherein the company often cannot terminate the claim at the precise time of recovery. Another possible cause of variations in experience under coverages with different elimination

TABLE 7

DERIVED SICKNESS DISABILITY LOSS-OF-TIME EXPERIENCE, 1960-63
 BASED ON EXPERIENCE AFTER SYNTHETIC ELIMINATION PERIOD
 MALE OCCUPATION GROUP I
 LIMITED TO ONE-YEAR MAXIMUM BENEFIT PERIOD

ATTAINED AGE	ANNUAL CLAIM RATE			CLAIM DURATION (MONTHS)			ANNUAL CLAIM COST*		
				Actual Elimination Period					
	None	7 Days	14 Days	None	7 Days	14 Days	None	7 Days	14 Days
Synthetic Elimination Period 7 Days									
20-29...	<i>.087</i>	<i>.037</i>	.....	<i>.63</i>	<i>1.05</i>	.....	<i>.055</i>	<i>.039</i>	.....
30-39...	<i>.109</i>	<i>.060</i>	.....	<i>.75</i>	<i>1.22</i>	.....	<i>.082</i>	<i>.073</i>	.....
40-49...	<i>.132</i>	<i>.081</i>	.....	<i>1.01</i>	<i>1.59</i>	.....	<i>.133</i>	<i>.129</i>	.....
50-59...	<i>.166</i>	<i>.115</i>	.....	<i>1.39</i>	<i>1.99</i>	.....	<i>.230</i>	<i>.229</i>	.....
60-69...	<i>.136</i>	<i>.126</i>	.....	<i>1.85</i>	<i>2.49</i>	.....	<i>.252</i>	<i>.314</i>	.....
Synthetic Elimination Period 14 Days									
20-29...	<i>.042</i>	<i>.030</i>	<i>.021</i>	<i>.88</i>	<i>1.03</i>	<i>1.29</i>	<i>.037</i>	<i>.031</i>	<i>.027</i>
30-39...	<i>.063</i>	<i>.051</i>	<i>.030</i>	<i>.97</i>	<i>1.18</i>	<i>1.43</i>	<i>.061</i>	<i>.060</i>	<i>.043</i>
40-49...	<i>.088</i>	<i>.072</i>	<i>.043</i>	<i>1.22</i>	<i>1.53</i>	<i>1.81</i>	<i>.107</i>	<i>.110</i>	<i>.078</i>
50-59...	<i>.121</i>	<i>.104</i>	<i>.071</i>	<i>1.64</i>	<i>1.94</i>	<i>2.13</i>	<i>.198</i>	<i>.202</i>	<i>.151</i>
60-69...	<i>.108</i>	<i>.115</i>	<i>.095</i>	<i>2.08</i>	<i>2.50</i>	<i>2.60</i>	<i>.225</i>	<i>.287</i>	<i>.247</i>

* Per \$1.00 of monthly income benefit.

NOTE.—Figures in italics were derived by omitting benefits paid during the synthetic elimination period.

periods may be the fact that the classes of risk according to occupation and renewal provision may differ widely in policies with different elimination periods.

4. TRENDS IN LOSS-OF-TIME EXPERIENCE

To ascertain whether any trends in disability experience were apparent from the 1955-59 study to the 1960-63 study, and also in the four-year period covered by the present study, Tables 8 and 9 were developed.

TABLE 8

RATIOS OF ACTUAL 1960-61 AND 1962-63 ANNUAL CLAIM COSTS TO EXPECTED ANNUAL CLAIM COSTS
 BASED ON 1960-63 DISABILITY LOSS-OF-TIME EXPERIENCE
 LIMITED TO ONE-YEAR MAXIMUM BENEFIT PERIOD

ATTAINED AGE	ACCIDENT						SICKNESS					
	Male Occ. I		Male Occ. II		Female Occ. I		Male Occ. I		Male Occ. II		Female Occ. I	
	1960-61	1962-63	1960-61	1962-63	1960-61	1962-63	1960-61	1962-63	1960-61	1962-63	1960-61	1962-63
0-Day Elimination Period												
20-29.....	81%	113%	94%	105%	84%	106%	109%	81%	129%	75%	125%	72%
30-39.....	90	107	90	109	68	120	98	103	116	89	109	88
40-49.....	100	102	93	104	84	108	102	98	109	95	98	102
50-59.....	98	102	95	104	103	97	98	103	97	102	97	104
60-69.....	102	100	111	94	75	115	96	103	112	96	67	154
Total.....	95%	102%	93%	106%	90%	107%	96%	105%	101%	99%	95%	105%
3-Day Elimination Period												
20-29.....	*	(114%)†	127%	85%	*	*	136%	78%	101%	99%	101%	100%
30-39.....	164%	57	108	96	(120%)†	(87%)†	124	80	111	90	146	70
40-49.....	119	84	82	114	144	67	109	92	97	103	120	85
50-59.....	84	119	91	111	105	94	95	105	94	106	83	123
60-69.....	67	143	85	127	85	131	79	124	72	129	78	147
Total.....	100%	100%	96%	103%	121%	81%	100%	100%	95%	104%	100%	99%

* Less than 10 claims.

† Rates in parentheses based on 10-24 claims, inclusive.

TABLE 8—Continued

ATTAINED AGE	ACCIDENT						SICKNESS					
	Male Occ. I		Male Occ. II		Female Occ. I		Male Occ. I		Male Occ. II		Female Occ. I	
	1960-61	1962-63	1960-61	1962-63	1960-61	1962-63	1960-61	1962-63	1960-61	1962-63	1960-61	1962-63
7-Day Elimination Period												
20-29.....	132%	74%	80%	109%	(33%)†	147%	123%	85%	98%	102%	108%	95%
30-39.....	106	97	87	111	114	86	95	104	93	105	76	121
40-49.....	95	105	86	116	93	102	93	104	96	104	95	104
50-59.....	92	104	99	104	85	111	95	103	102	98	95	104
60-69.....	72	115	91	112	.....	*	99	100	93	104	*	112
Total.....	95%	102%	91%	110%	91%	105%	93%	104%	97%	103%	90%	108%
14-Day Elimination Period												
20-29.....	(114%)†	100%	(63%)†	106%	.....	*	93%	104%	108%	100%	.....	118%
30-39.....	105	95	51	110	.....	(88%)†	98	100	48	114	.....	110
40-49.....	84	105	62	107	.....	98	96	101	84	103	.....	101
50-59.....	92	108	(49)†	107	.....	116	95	103	81	105	.....	96
60-69.....	(81)†	(111)†	*	(108)†	.....	*	84	109	(74)†	106	.....	114
Total.....	95%	100%	58%	110%	.....	105%	99%	101%	74%	108%	.....	103%
All elim. Periods..	98%	102%	91%	107%	92%	106%	100%	100%	97%	103%	95%	104%

TABLE 9
RATIOS OF 1960-63 TO 1955-59 ANNUAL CLAIM COSTS
LIMITED TO ONE-YEAR MAXIMUM BENEFIT PERIOD

ATTAINED AGE	ACCIDENT			SICKNESS		
	Male I	Male II	Female I	Male I	Male II	Female I
0-Day Elimination Period						
20-29.....	137%	115%	107%	69%	63%	45%
30-39.....	124	108	114	70	88	66
40-49.....	108	115	107	84	99	90
50-59.....	105	111	122	93	115	94
60-69.....	114	109	127	86	96	104
Total.....	114%	112%	119%	93%	92%	86%
3-Day Elimination Period						
20-29.....	*	74%	*	88%	85%	76%
30-39.....	78%	76	68%	99	92	68
40-49.....	103	113	86	94	100	88
50-59.....	88	181	129	132	123	139
60-69.....	241	177	102	122	101	149
Total.....	107%	118%	99%	120%	113%	110%
7-Day Elimination Period						
20-29.....	68%	98%	52%	72%	91%	75%
30-39.....	106	115	108	101	101	122
40-49.....	116	101	131	108	103	109
50-59.....	128	88	115	109	103	108
60-69.....	85	107	*	115	110	(266)†
Total.....	114%	103%	123%	118%	112%	113%
14-Day Elimination Period						
20-29.....	70%	141%	.....	100%	190%	.....
30-39.....	162	152	.....	116	197	.....
40-49.....	100	221	.....	98	204	.....
50-59.....	100	215	.....	109	117	.....
60-69.....	*	*	.....	112	(155)†	.....
Total.....	114%	185%	.....	108%	164%	.....
30-Day Elimination Period						
20-29.....	.....	.....	.....	113%	350%	.....
30-39.....	.....	.....	.....	113	110	.....
40-49.....	.....	.....	.....	124	105	.....
50-59.....	.....	.....	.....	121	164	.....
60-69.....	.....	.....	.....	161	*	.....
Total.....	.....	.....	.....	127%	130%	99%
All elim. periods..	112%	110%	115%	97%	105%	99%

* Less than 10 claims.

† Ratios in parentheses based on 10-24 claims, inclusive.

These two tables show ratios of 1960-61 and 1962-63 annual claim costs to 1960-63 annual claim costs (Table 8) and ratios of 1960-63 annual claim costs to 1955-59 annual claim costs (Table 9). Ratios have been included for all ages combined and for all elimination periods combined to show trends which may be obscured in the ungrouped data.

TABLE 10
SECOND-YEAR 1962 EXPERIENCE

ATTAINED AGE	0-DAY ACCIDENT			7-DAY SICKNESS		
	Monthly Ind. on Approved Claims	Claim Duration (Months)	Benefits Incurred	Monthly Ind. on Approved Claims	Claim Duration (Months)	Benefits Incurred
Male—Occupation Group I						
20-29.....	\$1,385	7.8	\$10,847	\$ 600	7.0	\$ 4,219
30-39.....	1,774	7.7	13,666	1,500	8.3	12,520
40-49.....	2,162	8.7	18,907	4,659	8.2	38,341
50-59.....	3,361	9.2	30,957	6,235	9.6	59,772
60-69.....	1,211	11.1	13,486	1,509	9.0	13,605
Male—Occupation Group II						
20-29.....	\$1,485	5.4	\$ 8,089	\$ 800	12.0	\$ 9,600
30-39.....	3,330	8.1	26,868	1,500	6.3	9,425
40-49.....	5,100	6.9	34,976	3,500	8.4	29,233
50-59.....	4,960	8.4	41,471	3,843	9.8	37,514
60-69.....	590	11.1	6,548	1,400	10.6	14,897
Male—Occupation Groups I and II Combined						
20-29.....	\$2,870	6.6	\$18,936	\$ 1,400	9.9	\$13,819
30-39.....	5,104	7.9	40,534	3,000	7.3	21,945
40-49.....	7,262	7.4	53,883	8,159	8.3	67,574
50-59.....	8,321	8.7	72,428	10,078	9.7	97,286
60-69.....	1,801	11.1	20,034	2,909	9.8	28,502

Table 8 shows that 0-day accident claim costs have increased during the 1960-63 period, with the largest increases at the younger ages. The claim costs for 7-day sickness have increased by about the same amount as 0-day accident, the increases being approximately 10 per cent over the previous study.

From the 1955-59 period to the 1960-63 period, 0-day accident and

7-day sickness claim costs increased between 10 and 20 per cent, as shown by Table 9. The 7-day sickness claim costs for ages 20-29 decreased significantly from the 1955-59 period to the 1960-63 period despite the overall increase for all ages combined.

It is clear from the changes from 1955-59 to 1960-63 and from 1960-61 to 1962-63 that claim costs have shown a definite increasing trend for both accident and sickness.

B. EXPERIENCE UNDER SECOND YEAR OF BENEFIT PERIOD

Ten companies contributed to this part of the study. The study traces claims incurred during calendar year 1962 through the second year of the benefit period. Experience on policies having maximum benefit periods of less than two years is omitted. The contributions were limited to experience under 0-day and 7-day accident policies and 7-day sickness policies, but, since the data for 7-day accident and for females were too sparse to be significant, this study is confined to 0-day accident and 7-day sickness and to Male I and Male II. In this study nearly 50 per cent of the experience was contributed by one company, while over 80 per cent of the experience studied was contributed by four companies.

Because of the sparsity of data, it was felt that the second-year claim rates and claim costs developed from these data would be unreliable. Average claim durations, on the other hand, seem to be more reliable, and consequently Table 10 shows monthly indemnity on approved claims, benefits incurred, and the resulting claim durations.

APPENDIX

TABLE A

ACCIDENT DISABILITY LOSS-OF-TIME EXPERIENCE, 1962-63
LIMITED TO ONE-YEAR MAXIMUM BENEFIT PERIOD

ATTAINED AGE	MALE OCC. GROUP I			MALE OCC. GROUP II			FEMALE OCC. GROUP I			RATIOS TO MALE OCC. GROUP I					
										Male Occ. Group II			Female Occ. Group I		
	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*
	0-Day Elimination Period														
20-29.....	.058	.93	.054	.112	.94	.105	.039	.87	.034	1.93	1.01	1.94	.67	.94	.63
30-39.....	.048	.92	.044	.097	1.08	.105	.045	1.09	.049	2.02	1.17	2.39	.94	1.18	1.11
40-49.....	.044	.98	.043	.086	1.21	.104	.045	1.18	.053	1.95	1.23	2.42	1.02	1.20	1.23
50-59.....	.041	1.05	.043	.080	1.31	.105	.060	1.18	.071	1.95	1.25	2.44	1.46	1.12	1.65
60-69.....	.040	1.25	.050	.072	1.42	.102	.073	1.40	.102	1.80	1.14	2.04	1.83	1.12	2.04
	3-Day Elimination Period														
20-29.....	(.023)†	(1.83)†	(.042)†	.043	1.09	.047	‡	‡	‡	1.87	.60	1.12	.....	.....	.....
30-39.....	.031	.52	.016	.045	1.07	.048	(.013)†	(1.00)†	(.013)†	1.45	2.06	3.00	.42	1.92	.81
40-49.....	.025	1.04	.026	.064	1.28	.082	.018	1.33	.024	2.56	1.23	3.15	.72	1.28	.92
50-59.....	.045	1.13	.051	.100	1.24	.124	.056	1.11	.062	2.22	1.10	2.43	1.24	.98	1.22
60-69.....	.051	2.29	.117	.121	1.30	.157	.078	1.47	.115	2.37	.57	1.34	1.53	.64	.98

* Per \$1.00 of monthly income benefit.

† Rates in parentheses based on 10-24 claims, inclusive.

‡ Less than 10 claims.

TABLE A—Continued

ATTAINED AGE	MALE OCC. GROUP I			MALE OCC. GROUP II			FEMALE OCC. GROUP I			RATIOS TO MALE OCC. GROUP I					
										Male Occ. Group II			Female Occ. Group I		
	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*
7-Day Elimination Period															
20-29.....	.012	1.17	.014	.049	1.20	.059	.015	1.47	.022	4.08	1.03	4.21	1.25	1.26	1.57
30-39.....	.029	1.21	.035	.054	1.44	.078	.021	1.14	.024	1.86	1.19	2.23	.72	.94	.69
40-49.....	.032	1.44	.046	.053	1.53	.081	.026	1.81	.047	1.66	1.06	1.76	.81	1.26	1.02
50-59.....	.036	1.47	.053	.049	1.55	.076	.040	1.70	.068	1.36	1.05	1.43	1.11	1.16	1.28
60-69.....	.031	1.71	.053	.061	1.80	.110	‡	‡	‡	1.97	1.05	2.08	.....	.....	.....
14-Day Elimination Period															
20-29.....	.008	1.75	.014	.031	1.77	.055	‡	‡	‡	3.88	1.01	3.93	.....	.....	.....
30-39.....	.013	1.54	.020	.039	1.90	.074	(.011)†	(1.91)†	(.021)†	3.00	1.23	3.70	.85	1.24	1.05
40-49.....	.016	1.25	.020	.041	2.49	.102	.017	2.29	.039	2.56	1.99	5.10	1.06	1.83	1.95
50-59.....	.017	1.65	.028	.036	2.11	.076	.021	2.76	.058	2.12	1.28	2.71	1.24	1.67	2.07
60-69.....	(.015)†	(2.67)†	(.040)†	(.047)†	(2.13)†	(.100)†	‡	‡	‡	3.13	.80	2.50	.....	.....	.....

* Per \$1.00 of monthly income benefit.

† Rates in parentheses based on 10-24 claims, inclusive.

‡ Less than 10 claims.

TABLE B

SICKNESS DISABILITY LOSS-OF-TIME EXPERIENCE 1962-63
LIMITED TO ONE-YEAR MAXIMUM BENEFIT PERIOD

ATTAINED AGE	MALE OCC. GROUP I			MALE OCC. GROUP II			FEMALE OCC. GROUP I			RATIOS TO MALE OCC. GROUP I					
										Male Occ. Group II			Female Occ. Group I		
	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*
0-Day Elimination Period															
20-29 . . . . .	.131	.53	.070	.124	.52	.064	.169	.41	.069	.95	.98	.91	1.29	.77	.99
30-39 . . . . .	.154	.77	.119	.171	.65	.112	.182	.82	.150	1.11	.84	.94	1.18	1.06	1.26
40-49 . . . . .	.166	1.00	.166	.176	1.05	.184	.198	1.29	.256	1.06	1.05	1.11	1.19	1.29	1.54
50-59 . . . . .	.200	1.45	.289	.217	1.51	.327	.255	1.09	.278	1.09	1.04	1.13	1.28	.75	.96
60-69 . . . . .	.161	1.83	.294	.205	2.23	.458	.485	1.80	.874	1.27	1.22	1.56	3.01	.98	2.97
3-Day Elimination Period															
20-29 . . . . .	.062	.84	.052	.068	1.03	.070	.110	1.09	.120	1.10	1.23	1.35	1.77	1.30	2.31
30-39 . . . . .	.091	.84	.076	.093	1.02	.095	.117	.96	.112	1.02	1.21	1.25	1.29	1.14	1.47
40-49 . . . . .	.098	1.33	.130	.112	1.41	.158	.127	1.45	.184	1.14	1.06	1.22	1.30	1.09	1.42
50-59 . . . . .	.185	1.66	.308	.183	1.68	.308	.258	1.64	.423	.99	1.01	1.00	.72	.99	1.37
60-69 . . . . .	.266	2.19	.582	.210	2.47	.518	.384	1.77	.678	.79	1.13	.89	1.44	.81	1.16

* Per \$1.00 of monthly income benefit.

TABLE B—Continued

ATTAINED AGE	MALE OCC. GROUP I			MALE OCC. GROUP II			FEMALE OCC. GROUP I			RATIOS TO MALE OCC. GROUP I					
										Male Occ. Group II			Female Occ. Group I		
	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*
	7-Day Elimination Period														
20-29.....	.031	1.06	.033	.056	1.09	.061	.073	1.04	.076	1.81	1.03	1.85	2.35	.98	2.30
30-39.....	.059	1.29	.076	.073	1.33	.097	.110	2.03	.223	1.24	1.03	1.28	1.86	1.57	2.93
40-49.....	.080	1.68	.134	.092	1.68	.155	.132	1.64	.217	1.15	1.00	1.16	1.65	.98	1.62
50-59.....	.116	2.03	.235	.123	2.10	.258	.150	1.69	.254	1.06	1.03	1.10	1.29	.83	1.08
60-69.....	.126	2.50	.315	.158	3.04	.480	.162	2.39	.387	1.25	1.22	1.52	1.29	.96	1.23
	14-Day Elimination Period														
20-29.....	.022	1.27	.028	.027	1.48	.040	.061	1.62	.099	1.23	1.17	1.43	2.77	1.28	3.54
30-39.....	.030	1.43	.043	.041	1.93	.079	.071	2.14	.152	1.37	1.35	1.84	2.37	1.50	3.53
40-49.....	.043	1.84	.079	.061	1.97	.120	.091	1.98	.180	1.42	1.07	1.52	2.12	1.08	2.28
50-59.....	.068	2.29	.156	.082	2.43	.199	.078	1.97	.154	1.21	1.06	1.28	1.15	.86	.99
60-69.....	.095	2.82	.268	.109	4.15	.452	.095	3.18	.302	1.15	1.47	1.69	1.00	1.13	1.13

* Per \$1.00 of monthly income benefit.

TABLE C
TOTAL DISABILITY LOSS-OF-TIME EXPERIENCE, 1962-63

ATTAINED AGE	MALE OCC. GROUP I			MALE OCC. GROUP II			FEMALE OCC. GROUP I		
	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*	Annual Claim Rate	Claim Duration (Months)	Annual Claim Cost*
0-Day Elimination Period									
20-29...	.189	.66	.124	.236	.72	.169	.208	.50	.103
30-39...	.202	.81	.163	.268	.81	.217	.227	.88	.199
40-49...	.210	1.00	.209	.262	1.10	.288	.243	1.27	.309
50-59...	.241	1.38	.332	.297	1.45	.432	.315	1.11	.349
60-69...	.201	1.71	.344	.277	2.02	.560	.558	1.75	.976
3-Day Elimination Period									
20-29...	.085	1.11	.094	.111	1.05	.117	.110	1.09	.120
30-39...	.122	.75	.092	.138	1.04	.143	.130	.96	.125
40-49...	.123	1.27	.156	.176	1.36	.240	.145	1.43	.208
50-59...	.230	1.56	.359	.283	1.53	.432	.314	1.54	.485
60-69...	.317	2.21	.699	.331	2.04	.675	.462	1.72	.793
7-Day Elimination Period									
20-29...	.043	1.09	.047	.105	1.14	.120	.088	1.11	.098
30-39...	.088	1.26	.111	.127	1.38	.175	.131	1.89	.247
40-49...	.112	1.61	.180	.145	1.63	.236	.158	1.67	.264
50-59...	.152	1.89	.288	.172	1.94	.334	.190	1.69	.322
60-69...	.157	2.34	.368	.219	2.69	.590	.199	2.07	.411
14-Day Elimination Period									
20-29...	.030	1.40	.042	.058	1.64	.095	.068	1.81	.123
30-39...	.043	1.47	.063	.080	1.91	.153	.082	2.11	.173
40-49...	.059	1.68	.099	.102	2.18	.222	.108	2.03	.219
50-59...	.085	2.16	.184	.118	2.33	.275	.099	2.14	.212
60-69...	.110	2.80	.308	.156	3.54	.552	.106	3.51	.372

* Per \$1.00 of monthly income benefit.

TABLE D
NUMBER OF CLAIMS BY COMPANY, 1962-63 EXPERIENCE

COMPANY	ACCIDENT				SICKNESS				
	Elimination Period (Days)				Elimination Period (Days)				
	0	3	7	14	0	3	7	14	30
Male Occupation Group I									
Metropolitan	12,215		3,527	294	9,322		9,897	1,000	169
Prudential	1,643		227				2,912		187
Pacific Mutual	1,597		134		6,547		422		69
Travelers	7,874		35	46			1,038	452	521
Loyal Protective	1,062		13		266	337	1,490	45	34
Business Men's Ass.	168	306	5	8	610	1,324	33	22	37
Monarch	950	38	237	220	205	173	1,915	651	222
Mutual, New York	808		21	23		97	527	207	228
New York Life	1,363						882	55	147
John Hancock	298			4			203	16	22
Union Mutual	491	1	10	17		42	538	80	180
Connecticut General	345		17	34			136	140	201
Continental Ass.	321		9	13			157	177	135
Guardian	203		8	15	6		177	49	44
Provident Mutual	80		2	5			68	27	57
Equitable, New York	77		16				142		33
Standard of Oregon	86		8				36	5	15
Total	29,581	345	4,269	679	16,956	1,973	20,573	2,926	2,301
Male Occupation Group II									
Metropolitan			2,357	277			5,053	463	55
Prudential	7,730		795				8,011		108
Pacific Mutual	525		112		1,214		230		16
Travelers	2,715		55	71			648	265	128
Loyal Protective	3,061		16		461	1,615	1,263		
Business Men's Ass.	616	753	8	9	865	1,513	14	16	20
Monarch	1,916	6	622	414	68	51	2,680	605	96
Mutual, New York	1,853		76	49		127	974	176	108
New York Life	1,197						533		17
John Hancock	1,666		1	15			683	26	4
Union Mutual	746	1	20	10		54	553	50	121
Connecticut General	127		7	18			47	38	47
Continental Ass.	158		14	18			100	39	20
Guardian	76		7	6			20	2	4
Provident Mutual	87		8	7			54	14	17
Equitable, New York	173		30				148		21
Standard of Oregon	127		16				51	3	6
Total	22,773	760	4,144	894	2,608	3,360	21,062	1,697	788

TABLE D—Continued

COMPANY	ACCIDENT				SICKNESS				
	Elimination Period (Days)				Elimination Period (Days)				
	0	3	7	14	0	3	7	14	30
Female Occupation Group I									
Metropolitan.....			513	8			2,448	51	
Prudential.....			137				634		40
Pacific Mutual.....	162		4		669		12		
Travelers.....	2,003		28	31			574	346	291
Loyal Protective.....	84						163		
Business Men's Ass....	143	277	1	3	718	1,531	23	12	14
Monarch.....	62		34	23			280	140	13
Mutual, New York....	133		4	7			246	59	32
New York Life.....	185						194		12
John Hancock.....			28				72		
Union Mutual.....	34		1	1			104	13	5
Connecticut General..	52		3	12			48	65	51
Continental Ass.....	11			1			17	8	9
Guardian.....	19		3	1			18	2	6
Provident Mutual.....	7			1			15	10	9
Equitable, New York..	8		1				25		15
Standard of Oregon...	16		3				20	5	6
Total.....	2,919	277	760	88	1,387	1,531	4,893	711	503