TRANSACTIONS OF SOCIETY OF ACTUARIES 1975 REPORTS

II. GROUP WEEKLY INDEMNITY INSURANCE

THIS is the twenty-eighth annual report on the continuing study of the morbidity experience of Group Weekly Indemnity insurance. In compiling this report, the Committee has included the available experience of employer/employee groups and has excluded the experience of trusteeships and association cases insuring employees of the member employers and the experience of union cases, whether or not insurance depends upon continued employment. The experience of plans written under State Cash Sickness Laws and the experience of insured groups outside the United States have been excluded.

RATIO OF ACTUAL TO TABULAR CLAIMS

Throughout this report experience is presented in the form of ratios of actual to tabular claims, based on the 1947–49 weekly indemnity tabulars, as reported in the 1962 Reports. Caution must be used in interpreting the data contained in this report because, among other reasons, the 1947–49 tabulars may not accurately reflect current claim patterns. The maternity tabulars do not reflect the substantial decline in birth rates in recent years, with the result that the actual-to-tabular ratios for maternity benefits are now down near the 40 per cent level, while the actual-to-tabular ratios for nonmaternity benefits are generally near 100 per cent or even higher; this wide difference is concealed and may create distortions when the experience for maternity and that for nonmaternity are combined. The tabulars also fail to reflect certain factors, such as age distribution, industry classification, or size of case, which may have a relevant effect on the experience results.

CONTRIBUTING COMPANIES

The Committee wishes to express its gratitude to the companies that generously contributed data to this study. The report contains experience for the years 1970, 1971, 1972, 1973, and 1974. Six companies contributed data for all five years. Two additional companies contributed data for the first four years. The results generally reflect the composite effect of variations in company practice in administration and claim procedures, as well as variations in experience among groups. It should be noted, however, that the contribution of one company has up until now represented a major portion of the total experience. That company was unable to contribute 1974 experience, with the result that there is some difficulty in comparing the results of this year's study with those of prior years. Because we use three-year totals of experience, the contribution of that company to the total results shown in this year's report is still much greater than that of any other company.

The majority of the companies contribute exposures and claims based upon policy years ending in the calendar year designated. If the renewal dates for all cases included in the study were distributed uniformly over the year, then the central point of the exposure for each policy year would be approximately January 1 of that year. However, this assumption may not be very precise because of a concentration of policy renewals in January and July.

The following companies contributed experience for the study, although not all of them contributed 1974 data:

Aetna Life Insurance Company Connecticut General Life Insurance Company Continental Assurance Company Equitable Life Assurance Society Metropolitan Life Insurance Company Occidental Life Insurance Company of California Prudential Insurance Company of America The Travelers Insurance Company

ANALYSIS OF EXPERIENCE

Table 1 shows the experience for the period 1972-74 for each of eight plans (four different elimination periods; two different maximum benefit periods), all of which provide a six-week maternity benefit. All size groups are included. The corresponding experience of nonjumbo groups only (units with less than 1,000 insured employees) is displayed in Table 2 for each of four plan combinations. For those nonjumbo units for which the data were available, Table 2 separates the combined experience into its nonmaternity and maternity segments. Also included in Table 2 for each of the four plan combinations is the nonjumbo experience for the period 1972-74 of plans that do not provide a maternity benefit. Table 3 is a five-year trend analysis of the Table 2 experience for each year 1970-74 inclusive. Since 1974 data do not include the contributions of two companies included in 1971-73, Table 3A reflects the experience for only those companies that contributed during 1974 and shows it for the vears 1972-74. Table 4 is an analysis of experience by size of experience unit. Results are shown separately for plans with and without maternity benefits. Table 5 analyzes the nonjumbo experience of plans with no maternity benefit by the female per cent composition of the experience units. Table 6 is an analysis of claim ratios by industry.

GROUP WEEKLY INDEMNITY

Table 1 shows results very slightly better than the results of a year ago. Actual-to-tabular ratios for twenty-six-week plans continue to run higher than those for thirteen-week plans. The ratios shown in Tables 2 and 3 confirm this relationship for plans with maternity benefits, but the ratios for thirteen-week plans are actually higher in 1972-74 than the ratios for twenty-six-week plans. Compared with those in the 1971-73 study, ratios for thirteen-week plans staved about the same, while ratios for twenty-six-week plans improved slightly.

TABLE 1

Plans with Six Weeks' Maternity Benefit All Size Groups Combined 1972-74 Policy Years' Experience, by Plan									
Plan	No. Experience Units	Weekly Indemnity Exposed (000)	Actual Claims Including Maternity (000)	Ratio of Actual to 1947-49 Weekly Indemnity Tabular					
1-4-13. 4-4-13. 1-8-13. 8-8-13.	413 195 1,720 309	3,067 934 11,815 2,406	2,062 375 8,356 1,664	93% 66 107 113					
Total, 13-week plans	2,637	18,222	12,457	103%					
	217 30 1,432 167	3,295 592 20,550 8,125	3,458 499 19,647 4,966	138% 109 128 80					
Total, 26-week plans	1,846	32,562	28,570	116%					
Total, all plans	4,483	50,784	41,027	11200					

GROUP WEEKLY INDEMNITY EXPERIENCE

Tables 2 and 3 show that the ratios for plans with no maternity benefit are lower than the ratios for the nonmaternity segment of plans with maternity benefits. Table 3 demonstrates that this result, which may be attributable to plan or exposure characteristics not reflected in the tabulars, has existed for several years.

An analysis of Table 2 over the past several years shows a gradual shift from maternity to nonmaternity plans in the exposure. This may be related to the gradual overall improvement shown in Table 1 over the past several years.

Because Table 3 showed some rather substantial changes from 1973

TABLE 2 - GROUP WEEKLY INDEMNITY EXPERIENCE GROUPS WITH LESS THAN 1,000 EMPLOYEES EXPOSED 1972-74 POLICY YEARS' EXPERIENCE, BY PLAN

	Nonmaternity and Maternity Combined Experience*			Normaturnity and Maternity Separate Experience*							
Plan		Weekly Indemnity	Actual	ual Ratio of Actual to 1947-49	No. Experience Units	Experience Indefinity -	Actual Claims		Ratio of Actual to 1947-49 Weekly Indemnity Tabular		
	Experience Units	Exposed (000)	Claims (000)	Weekly Indemnity Tabular			Non- maternity (000)	Maternity (000)	N <i>on-</i> maternity	Maternity	Combined
			۰ <u>ـــــ</u>	1	'lans with 6	Weeks' Mater	nity Benefit			·	
13-week: 4th-day sickness. 8th-day sickness.	601 1,995	3,066 12,054	1,892 8,351	89°7 107	381 1,197	$\frac{2}{7},\frac{133}{768}$	1,433 5,141	39 296	104% 114	29% 39	97% 103
Total	2,596	15,120	10,243	103%	1,578	0,901	6,574	335	111%	38%	102%
26-week: 4th-day sickness. 8th-day sickness.	238 1,546	2,911 17,889	2,699 15,412	123 116	182 917	1,853 9,863	1,709 9,233	24 296	117% 132	25% 42	111% 124
Total	1,784	20,800	18,111	117%	1,099	11.716	10.942	320	129%	40%	122%
				1	Plans with	No Maternity	Bencfit		. <u> </u>	1	
13-week: 4th-day sickness. 8th-day sickness.					318 4,625	1.933 22 842	1,344 13,427		109% 103		
Total			· · · ·		4,943	24.775	14,771		103%		g
26-week: 4th-day sickness. 8th-day sickness.		··· · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	340 5,734	3,474 33,576	2,799 24,174		100% 99	· · · · · · · · · · · ·	
Total					6,074	37-050	26,973		99°/0		

* The separate experience exposure is less than the combined experience exposure because ceparate experience is not available for all groups.

TABLE 3—GROUP WEEKLV INDEMNITY EXPERIENCEGROUPS WITH LESS THAN 1,000 EMPLOYEES EXPOSED1970-74 POLICY YEARS' EXPERIENCE, BY PLAN

Plan	RATIOS OF ACTUAL TO 1947-49 TABULAR FOR POLICY YEAR ENDING IN:							
	1970	1971	1972	1973	1974			
	Plans with 6 Weeks' Maternity Benefit							
Nonmaternity and maternity combined experience: 13-week:								
4th-day sickness	94% 112	92% 108	93 103	89% 104	70% 99			
Total	108%	105%	101%	101%	94%			
26-week: 4th-day sickness 8th-day sickness	11876 118	124% 122	110% 120	110% 107	127% 120			
Total	118%	122%	118%	108%	122%			
Nonmaternity and maternity separate experience:* Nonmaternity: 13-week:								
4th-day sickness 8th-day sickness	106% 121	99% 113	103% 113	104% 115	99% 117			
Total	117%	110%	111%	112%	113%			
26-week: 4th-day sickness 8th-day sickness	120% 127	134% 133	120% 133	115% 129	102% 150			
Total	125%	133%	131%	126%	143%			
Maternity (all plans)	51%	51%	40%	37%	42%			
Combined: 13-week: 4th-day sickness 8th-day sickness	100% 112	96% 106	·97% 102	97% 104	95% 109			
Total	109%	103%	101%	102%	106%			
26-week: 4th-day sickness 8th-day sickness	115% 120	128% 126	114% 125	109% 121	99% 138			
Total	119%	126%	123%	119%	133%			
•	Plans with No Maternity Benefit							
3-week: 4th-day sickness 8th-day sickness	$\frac{107\%}{105}$	102% 102	97% 99	105% 100	119% 106			
Total	106%	102%	995 <u>c</u>	100%	107%			
6-week: 4th-day sickness 8th-day sickness	91% 94	94% 105	87° c 104	105% 98	118% 101			
Total	94%	103%	102%	<u></u>	103			

* The nonmaternity and maternity separate experience is also included in the nonmaternity and maternity combined experience.

TABLE 3A

GROUP WEEKLY INDEMNITY EXPERIENCE GROUPS WITH LESS THAN 1,000 EMPLOYEES EXPOSED 1972-74 POLICY YEARS' EXPERIENCE, BY PLAN

PLAN	RATIOS OF ACTUAL TO 1947-49 TABULAR FOR POLICY YEAR ENDING IN:					
	1972	1973	1974			
	Plans with 6	Weeks' Materr	ity Benefit			
Nonmaternity and maternity combined experience: 13-week:						
4th-day sickness 8th-day sickness	775e 102	$rac{64}{104}$	70° č 99			
Total	97 <i>°</i> c	98° č	94°,			
26-week: 4th-day sickness 8th-day sickness	95°; 112	92C7 92	127° 2 120			
Total.	Hod	o <u>2</u> ",	12207			
Nonmaternity and maternity separate experience:* Nonmaternity: 13-week: 4th-day sickness.	887,	836	99 ⁷ ,			
8th-day sickness	107	109	117			
Total	$-\frac{104C_{e}}{-104C_{e}}$	104%	113' 0			
26-week: 4th-day sickness 8th-day sickness	10367 136	6857 98	$\frac{102}{6}$			
Total	130%	89°,	143%			
Maternity (all plans)	27 %	22°7	42%			
Combined: 13-week: 4th-day sickness	81° č 93	76°; 98	95°., 109			
Total	914	9517	106%			
26-week: 4th-day sickness 8th-day sickness	985 129	64() 92	99 <i>°</i> 138			
Total	124%	83%	1330			
	Plans with No Maternity Benefit					
13-week: 4th-day sickness 8th-day sickness	96% 102	1070a 100	119% 106			
Total	101%	101%	107%			
26-week: 4th-day sickness 8th-day sickness	91 89	109% 97	11897 101			
Total	8950	98 <u>%</u>	103%			

* The nonmaternity and maternity separate experience is also included in the nonmaternity and maternity combined experience.

experience to 1974 experience, we constructed Table 3A to see whether these changes represented a trend or whether they could be explained by the change in the exposure distribution caused by the inability of our largest contributor to provide 1974 experience. This analysis was not particularly conclusive. In certain cells, especially the thirteen-week nonmaternity and maternity combined, the Table 3A experience is fairly stable from year to year. Table 3A shows a great deal of variation from year to year in most of the other plan cells. This is difficult to explain,

TABLE 4

GROUP WEEKLY INDEMNITY EXPERIENCE ALL SIZE GROUPS COMBINED 1972-74 POLICY YEARS' EXPERIENCE, BY SIZE OF EXPERIENCE UNIT Ratio of Actual Weekly Actual to No. Claims 1947-49 Indemnity Size Experience Including Exposed Weekly Units Maternity (000) Indemnity (000)Tabular Plans with 6 Weeks' Maternity Benefit 1,334 1,950 $\substack{1\,,230\\2\,,775\\7\,,760}$ 93% < 50 lives 1,147 50-99 4,10099 100-249 1,151 112 9,784 250 - 49911.275 5078,830 110119 500-999. 241 8,811 7,759 Total <1,000..... 4,380 35,920 28,354 111%1,000 or more.... 103 14,864 12,673 115% Grand total..... 4,483 50,78441,027 $112^{c_{c}}$ Plans with No Maternity Benefit 90% 6 < 50 lives. 4,950 8.664 5,105 2,877 81 50-99. 11,414 6,760 100-249 18,815 2,217 13,035 107 250 - 499. 715 12,971 9,523 113 500-999. 2589,961 105 7,321 Total <1.000 11,017 61,825 41,744 100% 1,000 or more..... 97% 163 22,856 16,173

84,681

57.917

99°2

Grand total.....

11,180

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but the widest variations occur in cells with very small exposure. A great deal of caution should be used in attempting to draw conclusions about 1973–74 trends in weekly indemnity experience because the effect of the changing exposure base is not clear.

Table 4 appears virtually the same as in the 1971 73 study and continues to show that ratios tend to increase as the size of the group increases, except that jumbo experience for plans with no maternity benefits is slightly better than nonjumbo experience.

Table 5 shows that, for nonjumbo groups with no maternity benefit, with all benefit periods combined, and with more than 10 per cent female, there is a tendency for the ratios to increase as the female percentage increases. The table also shows a relatively higher ratio for groups with less than 11 per cent female. It is worth noting, however, that 40 per cent of the exposures fall in the "less than 11 per cent female" category. It is possible that this represents a coding maccuracy. If groups of unknown per cent female distribution have in error been coded as "less than 11 per cent female" when, in fact, a higher classification is applicable, the actual-to-tabular ratio for these cases would be high if normal experience prevailed. The actual claims would reflect the higher cost associated with

TABLE 5

GROUP WEEKLY INDEMNITY EXPERIENCE GROUPS WITH LESS THAN 1,000 EMPLOYEES EXPOSED 1972-74 POLICY YEARS' EXPERIENCE, BY FEMALE PER CENT PLANS WITH NO MATERNITY BENEFIT, ALL BENEFIT PERIODS COMBINED

Female Per Cent	No. Experience Units	Weekly Indemnity Exposed (000)	Actual Claims (000)	Ratio of Actual to 1947-49 Weekly Indemnity Tabular	
<11%	4,625	24,648	16,301	102%	
11-21%	1,967	10,368	5,900	90	
21-31	1,147	7,126	4,440	94	
31-4197	899	5,724	3,874	100	
41-51%	679	3,900	2,813	101	
51-61%	499	3,158	2,393	105	
61-719	416	2,530	2,223	116	
71-81%	330	1,886	1,606	108	
81-91%	321	1,877	1,698	113	
91–100 [°] / _t	134	608	496	122	
Total	11,017	61,825	41,744	100%	

TABLE 6

COMBINED 1970, 1971, 1972, 1973, AND 1974 POLICY YEARS' EXPERIENCE INDUSTRY ANALYSIS

		United States Group Weekly Indemnity Insurance							
In- dustry Code	INDUSTRY DESCRIPTION	EA	Experience Units with Less than 1,000 Lives Exposed						
		Number of Experi- ence Units	Actual Weekly Indemnity Exposed for Industry (000)	Ratio of Exposure for Ind. to Total Exposure	Actual to Tabular	Ratio of Ind. A/T to Aggre- gate A/T	Ratio of Ind. A/T to Aggre- gate A/T*		
Total	All industries	30,346	242,725	100 077	10767	100%	100%		
01 07 08 09	Agriculture, forestry, and fisheries: Agricultural production Agricultural services, hunting, trapping Forestry Fisheries	87 87 11 5	206 308 207 20	0.157 0.1 0.1	90°; 69 (430) (156)	8477 64 (402) (146)	86% 66 (410) (149)		
$ \begin{array}{c} 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ \end{array} $	Mining: Metal mining Anthracite mining Bituminous coal and lignite mining Crude petroleum and hatural gas Mining and quarrying of nonmetallic	87 310 137 152	1,284 2,182 610 654	0.5 0.9 0.3 0.3	149 130 85 79	139 122 79 74	97 84 81 66		
	minerals, except fuels Contract construction:	219	t,384	0.6	104	97	99		
15 16	Building construction—general contractors Construction other than building construction—general contractors	209 275	$1,536 \\ 1,296$	0.6 0.5	165 70	154 63	70 74		
17	Construction -special trade contractors Manufacturing:	534	2,385	1.0	90	84	86		
19 20 21 22	Ordnance and accessories Food and kindred products Tobacco manufactures Textile mill products	33 1,403 96 713	692 10,309 1,072 5,941	0.3 4.2 0.4 2.4	121 97 93 117	113 91 87 109	113 96 121 110		
23 24	Apparel and other finished products made from fabrics and similar materials Lumber and wood products, except	453 597	2,350	1.0 1.5	107 09	100 93	104 88		
25 26 27	furniture Furniture and fixtures Paper and allied products Printing, publishing, and allied industries	543 1,120 1,001	3,348 11,923 8,230	$1.4 \\ 4.9 \\ 3.4$	102 137 95	95 128 89	97 116 90		
28 29 30 31 32	Chemicals and allied products Petroleum refining and related industries Rubber and miscellaneous plastics products Leather and leather products Stone, clay, glass, and concrete products	660 131 523 286 824	12,429 725 3,998 2,153 5,506	$5.1 \\ 0.3 \\ 1.7 \\ 0.9 \\ 2.3$	86 87 131 120 143	80 81 122 112 134	94 88 124 111 116		
34	Primary metal industries Fabricated metal products, except ordnance, machinery, and transportation equipment	1,143 2,423	11,425 19,008	4.7 7.8	143 122	134 114	129 119		
35 36	Machinery, except electrical Electrical machinery, equipment, and supplies	2,690	26,746 22,429	$\begin{array}{c} 11 & 0 \\ -9 & 2 \end{array}$	116 117	108 109	104 101		
37 38	Transportation equipment Professional, scientific, and controlling instruments; photographic and optical goods; watches and clocks	829 414	$10,163 \\ 4,043$	4.2 1.7	130 96	122 90	121 99		
39	Miscellaneous manufacturing industries Transportation, communication, electric, gas, and sanitary services:	544	3,851	1.6	114	107	103		
40 41	Railroad transportation Local and suburban transit and interurban passenger transportation	21 245	120 1,814	0.1 0.8	(110) 107	(103) 100	(105) 110		
42	Motor freight transportation and ware- housing	461	2,342	1.0	69	64	74		
44	Water transportation	79	413	0.2	106	99	95		

* The aggregate A/T for smaller size groups is 105 per cent. Ratios for industries with less than 50 experience units and less than 0.3 per cent of total exposure are shown in parentheses.

		UNITED STATES GROUP WEEKLY INDEMNITY INSURANCE							
IN- DUSTRY INDUSTRY DESCRIPTION CODE	Industry Description	E: A	Experience Units with Less than 1,000 Lives Exposed						
	Number of Experi- ence Units	Actual Weekly Indemnity Exposed for Industry (000)	Ratio of Exposure for Ind. to Total Exposure		Ratio of Ind, A/T to Aggre- gate A/T	Ratio of Ind. A/T to Aggre- gate A/T*			
	Transportation, communication, electric, gas, and sanitary services- Continued								
45.	Transportation by air	63	371	0.2%	57.97	53%	5497		
40	Pipeline transportation	5	16		25/	(23)	(24)		
1. 1.	Transportation services Communication	71 131	384 758	$0.2 \\ 0.3$	100 - 63	93 50	95 60		
49	Electric, gas, and sanitary services	185	1,483	0.0	07	91	93		
	Wholesale and retail trybe:					-			
30	Wholesale trade Relibiting metodelic loss is an explored	$\frac{2.419}{255}$	10.774	4 J 1 N N	10 73	65	68		
1 ² - 1 - 1 - 1	Building materiais, hardware, and farm equipment dealers	200	1.00		1	fr. :	60		
53	Retail trade- general merchanoise	364	0.003	j 1 t	-1	6.5	85		
51	Food stores Automotive dealers and resoline service	402	1,854	0 8	101 81		89		
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	stations	1.170	3,400		. 01	1 75	13		
800	Apparel and accessory stores	207	1.623	0.7	77	7.2	8.1		
31	Furniture, home furnishings, and	230	90a	0.1	88	82	81		
38	equipment stores Eating and drinking places	278	934	C 4	110	103	101		
39	Miscellaneous retail stores	332	1.283	1.0.5	85	79	84		
	Finance, insurance, and real estate:	156	590	0.2	50	1 1. 14	10		
60 61	Banking Credit agencies other than banks	120	460	0.2	82	1 17	48		
62	Security and commodity brokers, dealers,	- 38	190	0.1	(65)	(61)	(62)		
	exchanges, and services	100	1.016		10.3				
63 64	Insurance carriers Insurance agents, brokers, and service	108 32	1,028	0.4	(-103) (-61)	96 (57)	91 (58)		
65	Real estate	158	553	0.2	91	85	87		
66	Combinations of real estate, insurance,	9	10		:52)	(49)	(50)		
67.	loans, and law offices Holding and other investment companies	-48	323	0.1	(100)	(93)	(95)		
	Services:	10							
70	Hotels, rooming houses, camps, and other	159	1,299	0.5	93	87	90		
72	lodging places Personal services	288	563	0.2	85	79	81		
73	Miscellaneous business services	438	1,788	0.7	70	65	64		
75	Automobile repair, automobile services,	108	574	0.2	106	- 99	101		
76	and garages Miscellancous repair services	105	420	0.2	147	137	117		
78	Motion pictures	23	511	0.2	(73)	:68)	71.		
79]	Amusement and recreation services, except		326	0.1	93	87	89		
80	motion pictures Medical and other health services	331	4.267	1.8	82	77	96		
81	Legal services	42	186	0.1	(75)	(70)	(71)		
82	Educational services	161	1,241	0.5	79	74	83		
84	Museums, art galleries, botanical and zoological gardens	11	65	1	(112)	(105)	(107)		
86	Nonprofit membership organizations	192	1,429	0.6	82	77	81		
88	Private households	3	8		(82)	(77)	(78)		
89	Miscellaneous services	217	1,056	0.4	68	64	65		
91	Government: Federal government	69	388	0.2	92	86	88		
92	State government	41	881	0.4	60	56	78		
93	Local government	497	2,468	1.0	92	86	83		
94	International government	18	54		(96)	(90)	(91)		
Total	All industries listed above	30,262	242,234	99-8/7	107 🕾	100 C_{r}^{\prime}	100%		

* The aggregate A T for smaller size groups is 105 per cent. Ratios for industries with less than 50 experience units and less than 0.3 per cent of total exposure are shown in parentheses.

female risks, and the tabular would erroneously reflect the more favorable experience expected for male risks.

This year we have compiled a study of actual-to-tabular claim ratios by industry based on the years 1970–74. This is published only once every five years. The industry experience analysis in Table 6 is shown by ratio of actual to tabular for all size groups and by industry actual-to-tabular ratios compared with aggregate actual-to-tabular ratios for nonjumbo experience units. Among industries represented by either at least fifty experience units or 0.3 per cent of the total exposure, the range of variation of experience ratios by industry for all size groups extends from a low of 50 per cent for banking to a high of 165 per cent for building construction- general contractors. For nonjumbo units, banking was again the lowest, with a ratio that was 48 per cent of the average, while primary metal industries ranked highest at 129 per cent.

Generally, among industries with either fifty experience units or 0.3 per cent of the total exposure, the ratios did not vary substantially from those found in the experience period 1965–69. There were a few exceptions. In the all-size-group study, bituminous coal and lignite mining and local and suburban transit and interurban passenger transportation showed large decreases since the last study. Building construction—general contractors, stone, clay, glass and concrete products, credit agencies other than banks, automobile repair, automobile services, and garages and miscellaneous repair services all showed higher ratios.

Nonjumbo experience did not appear to be as volatile, and, among industries that had 1 per cent or more of the total exposures, there were no variations of great magnitude.

Care should be exercised in the use of the analysis by industry, because the industry actual-to-tabular ratios do not take account of possible variations by plan or by age and sex.