AN AMERICAN ACCIDENT TABLE.

 \mathbf{BY}

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When the first workmen's compensation laws became effective and the insurance carriers faced the problem of establishing rates to employers for this form of coverage, it became necessary to establish some method for measuring the difference in costs between the varying benefit scales of state laws. For this purpose an industrial accident distribution according to the nature of injury was required and, due to an almost complete lack of American statistics, Dr. Rubinow compiled his Standard Accident Table from European data.

Since that time efforts have been made to obtain satisfactory American statistics, but the difficulty of coordinating the statistical records published by the various state accident commissions has made it practically impossible to combine results, and the statistics of a single state, no matter how carefully compiled, have been too limited for dependability. However, the various Boards and Bureaus which call for Schedule "Z" reports have realized the necessity of securing adequate accident data, and for the first time, in 1919, uniformly called upon the insurance carriers to report the number of death, permanent total, permanent partial, and temporary total cases upon which compensation had been paid. When the National Council took up its work of revising workmen's compensation rates for the various states, 1919 Schedule "Z" was available, and the accident distribution obtained therefrom was of sufficient volume to form a dependable basis for a new accident table. It was necessary for the National Council in its work to calculate the value of amendments to the state compensation laws, and it was desirable that such calculations should be based upon the latest available accident distribution. Therefore, the task of developing a new accident table was undertaken.

From Schedule "Z" for policy years 1916 and 1917 were obtained the total number of fatal, permanent total, permanent par-

tial, and temporary total cases compensated in all compensation states where stock and mutual companies were operating, with the exception of Maine, Massachusetts, California, and Pennsylvania. Maine and Massachusetts failed to report number of temporary total and permanent partial cases. Pennsylvania compensates as temporary total some minor dismemberment cases which, in other states, are compensated on a schedule basis and included in the reports as permanent partial disability. Massachusetts reported by nature of payment rather than nature of injury. That is, temporary total payments made in permanent partial cases were reported as temporary total instead of permanent partial as in other states. The California reports were not complete for 1916, the number of temporary total cases not having been given, hence only 1917 figures were used for this State. Four states, New York, New Jersey, Massachusetts, and Wisconsin, reported a small number of indeterminate cases, or injuries which had not yet developed sufficiently to enable a determination of their final outcome. These were distributed as follows: .1 to permanent total, .3 to permanent partial, .6 to temporary total, such distribution having been used in the making of coal mine rates from Pennsylvania experience. The combined results showed a total of 271,173 accidents for which compensation had been paid.

The first problem presenting itself was that of determining from the number of compensable cases reported, the number of tabulatable accidents, or those lasting beyond the day or shift in which the injury occurred. The waiting period varied from state to state, and in many cases had been changed at some time during the period covered by policy years 1916 and 1917. An assumption was made that the business, and therefore the number of accidents reported, was evenly distributed throughout the year, and an adjustment factor was determined by the use of a distribution of temporary total disability, which, when applied to the number of compensable temporary total cases, would produce the number of tabulatable accidents excluding permanent and fatal. purpose we used the ungraduated data obtained from state reports as described hereafter. For example, in California the number of temporary total cases reported was 12,048. The waiting period in 1916 was two weeks, but on January 1, 1918, was changed to ten days. One-half of the period covered by policy year 1917 was affected by the two weeks waiting period, and one-half by the ten

days waiting period. According to the distribution of temporary total disability (Table B), 32,793 cases out of a total of 95,388 last longer than two weeks. Therefore, the quotient of 95,388 divided by 32,793, or 2.9088, is the factor which must be applied to the number of cases lasting more than two weeks, to obtain the total number of tabulatable accidents. The factor obtained similarly to increase the number of cases lasting more than ten days, to number of tabulatable accidents, is 2.3128. Giving each of these factors a weight of one-half, the resultant factor is 2.6108, which, when applied to the 12,048 cases compensated, shows a total of 31,455 tabulatable temporary total cases. The material used for each state and the adjustment factors are given in detail in Table "A." With this adjustment made for all states, a grand total of 637,088 cases was obtained. Reduced to the basis of 100,000 accidents the results are as follows:

Fatal	762
Permanent Total	62
Permanent Partial	3,788
Temporary Total	95,388

A distribution was made for each of the four sections of the country—Eastern, Central, Western, and Southern states—and a comparison of results is interesting, although care should be exercised in the proper use of such figures. The distribution follows:

	Fatal.	Permanent Total.	Permanent Partial.	Temporary Total.
Eastern	728	63	4,154	95,055
	732	66	3,777	95,425
	1,035	46	2,601	96,318
	855	55	2,549	96,541

In the 1920 rate revision, country wide partial pure premiums were established, and exception pure premiums adopted for any state whose experience was of substantial volume and showed results at variance with those for the country as a whole. The accident table was used to compute the increase in cost due to amendments in the law, three amendment factors being calculated for each law, one for "D. and P. T. D." cost, one for "All Other," and one for "Medical." Thus the fact that the western states show a greater proportion of death cases was reflected in the pure pre-

miums established and the acident table was used only to compute amount of increase in cost.

Duration of Temporary Total Disability .- For the duration of temporary total disability, the only reports available were those of state industrial accident commissions. It was necessary to exercise considerable care in their use, since some states presenting good reports of this character had not compiled them on such a basis as would make it possible to combine results with those of For example, Massachusetts reported duration of other states. total disability in all non-fatal cases. Washington, California, and Ohio reported for temporary total cases only. Some states reported duration of disability by days; others reported it by weeks. In order to obtain as broad a spread as possible, the reports of all states showing a distribution for duration of disability in temporary total cases only was used, obtaining first a graduation by one week periods and later breaking this up by the use of the data for states showing such distribution by days. The first summation (see Table "B") showed the following distribution:

1	week or less	223,698
1	to 2 weeks	88,275
2	to 3 weeks	54,452
	to 4 weeks	
4	to 13 weeks	67,028
	and over	
		475,423

The next step was to break up the totals for one and two weeks to secure the distribution by days, since many states have a waiting period of ten days and one has a waiting period of three days only. This was accomplished by using the proportions shown by the California data. The period from four to thirteen weeks was broken up by means of statistics from six states, Washington, Ohio, California, West Virginia, Oregon, and Wisconsin. Four states, Washington, California, West Virginia, and Oregon, furnished data for the division of the period over thirteen weeks in duration. Finally the results were reduced to the basis of 95,388 tabulatable temporary total cases, the distribution was plotted and the curve showed decided irregularities at the ten-day, one week, two weeks, two, three, four, and five-month periods. It is reasonable to suppose that many men whose disabilities last approximately either

one or two weeks, return to work at the end of the weekly period rather than just before or just after its close. However, the same psychological reason does not hold for the ten-day period, and no satisfactory reason for an irregularity at this point has been suggested. It was therefore decided to ignore it. It is possible that the same cause assigned for the break at the end of one and two weeks is also felt at the end of two, three, four, and five months. No increase was evident at one month, however, and the statistics at this end of the curve were not of sufficient volume to prove that the irregularity was not due to chance. The distribution was therefore smoothed graphically throughout, except at the one and two week periods.

Very little material was available for a distribution of temporary total disability in permanent partial cases, only two states, Cali-

Duration.	Cal. '18, Ore. '15.	On Basis of 3,788 Total.	Smoothed Distribu- tion.	%.	% Standard Table.
Under 1 week	81	206	206	5.5	5.7
1- 2 weeks	67	171	171	4.5	5.6
2-3 "	106	270	270	7.1	5.9
3-4 "	142	362	362	9.5	6.5
4-5 "	149	380	380	10.0	7.8
5-6 "	127	324	324	8.6	7.5
6-7 "	107	273	273	7.2	7.0
7-8 "	71	181	224	5.9	6.6
8-9 "	ดก	229	193	5.1	6.9
9–10 "	\ 5 6	143	166	4.4	5.2
10-11 "	55	140	141	3.7	4.7
11-12 "	52	133	122	3.2	4.3
12-13 "	53	135	105	2.8	4.0
13–14 "	36	92	92	2.0	₹.0
14-15 "	21	53	71		
15–16 "	26	66	$5\overline{9}$		
16–17 "	20	51	51	i	
17-18 "	24	61	48		
18–19 "	14	36	$\frac{10}{45}$!	
19-20 "	14	36	41		
20-21 "	13	33	39		
21-22 "	14	36	37		
22–23 "	$1\overline{7}$	43	34		
23-24 "	12	31	33		
24-25 "	13	33	31		
$\begin{bmatrix} \frac{2}{25} - \frac{23}{26} & " & \dots \end{bmatrix}$	12	31	30		
6-7 months	31	79	79		
7-8 "	17	43	52		
8-9 "	20	51	39		
9-10 "	7	18	29		
10-11 "	9	$\frac{13}{23}$	$\overset{29}{22}$		ŀ
11-12 "	10	$\frac{25}{25}$	19		
	10	20	10	22.5	22.3
	1,486	3,788	3,788	100.0	100.0

fornia and Oregon, having presented such statistics and these for only one year each. However, the results followed very closely those obtained by Dr. Rubinow in the Standard Accident Table and it was felt that the data when smoothed was sufficiently reliable for the present purpose. The comparison with Dr. Rubinow's results obtained by the use of Russian statistics which is presented on the preceding page is interesting.

Permanent Partial Disability.—The best material available for a distribution of permanent partial disability was a report furnished by the Travelers Insurance Company covering their experience in all compensation states where the Company operated, from January 1, 1916, to June 30, 1919, developments being brought down to January 1, 1920. This tabulation which showed 9464 permanent partial injuries, distributed as to nature of injury, was a detailed one and distinguished between amputation, loss of use and partial loss of use of members. Some of the state reports consulted gave distributions for dismemberment, but included no data as to loss of use and failed to state the number of permanent partial cases not dismemberment. Most of the compensation laws at the present time state that total loss of use of any member shall be compensated the same as loss of such member. It was therefore deemed advisable to construct a table covering the combined loss rather than amputation alone. Wisconsin state reports from 1914 to 1918 have been compiled on the same basis as the Travelers' table, and the combined statistics showed a total of 12,923 cases, which, when reduced to the basis of 100,000 accidents showed the following division:

Dismemberment or total loss of use	2,754
Other permanent partial	1,034

For the dismemberment distribution it was possible to use Ohio and Nevada reports covering an additional 2,193 cases. (Table C.)

Few state laws make any distinction in the amount paid for injury to a major or minor member. It was felt that the figures available for such division were too limited to make results entirely dependable, and therefore such a partition was not warranted.

In compensating permanent partial disability other than dismemberment, many state laws specify that the amount paid for injury to any member shall be determined by the relation of that injury to total loss of the member. There are very few permanent

partial cases which cannot be related directly to some dismemberment in the schedule. Other states, however, specify that such injury shall be compensated on a basis of loss in earning capacity. and a maximum period for the duration of payments is specified. It is felt that in such cases the commissions in charge often fix the duration of compensation, so that the amount paid shall bear the proper relation to that paid for total loss of the same member. It was necessary, therefore, for the purpose of law differential calculations, to determine the relation which partial disability bears to total loss or loss of use. The Wisconsin and Oregon state reports showed a total of 1,102 cases of permanent partial not dismemberment, with an average disability of 44.0 per cent. of total loss, such reports being based on the degree of impairment of the member affected. In the tabulation of the Travelers Insurance Company 2,156 cases of permanent partial not dismemberment, including 25 per cent., 50 per cent., and 75 per cent. of loss of use of various members, showed an average of 43.5 per cent. of total loss of use. 354 cases of permanent partial could not be related to dismemberment and were distributed as follows:

No.	of Cases
Loss of one leg at the hip and injury to other	1
Loss of one leg at the ankle and injury to other	1
Tip of forefinger	77
Loss of one eye and injury to other	1
Permanent injury to head	49
Internal injuries	
Spinal trouble	38
Loss of movement at the knee	7
Loss of grasping power	16
50 per cent. loss of grasping power	3
Permanent partial—not otherwise classified	98

It will be noted that some of the injuries, especially multiple dismemberments, would probably result in a large degree of disability, while others, such as the 77 cases of loss of tip of fore-finger, would amount to very little and in many states might receive no compensation except during the period of total disability. On the whole, a safe assumption seemed to be that the average cost per case of a permanent partial disability, not dismemberment, would equal 55 per cent. of the average cost per case for total loss or loss of use.

Many of the states distinguish between major and minor permanent partial cases, and the National Council, in its "Instructions for the Preparation of Schedule 'Z'—1920," defines as major permanent partial

- (a) "Every permanent injury, not constituting permanent total disability, which involves the loss of sight of an eye or the loss of a hand, foot, arm, or leg;
- (b) "Every permanent injury involving the impairment to the extent of 50 per cent. or more of a hand, foot, arm or leg;
- (c) "Any permanent injury, whether enumerated above or not, which is compensated on the basis of 25 per cent. or more of permanent total disability (or 25 per cent. or more of the full benefit for permanent total disability allowed under the Act applicable thereto)."

The distribution furnished by the Travelers Insurance Company enabled us to make a division in accordance with these instructions.

Permanent Total.—Such a small proportion of industrial accidents result in permanent total disability that it was difficult to obtain any satisfactory statistics concerning them. However, the laws of a few states make it necessary to estimate the number of cases of loss of both legs, both arms, and both eyes. The following tabulation is a combination of such material as could be combined from the state reports of Wisconsin, 1915 to 1918; Ohio, 1914–1916; Washington, 1917–1918; the reports of the Travelers Insurance Company before referred to, and the individual reports sent to the National Council as a part of Schedule "Z":

Nature of Injury	No. Cases	Reduced Totals
Loss or loss of use of both feet	1	
Loss or loss of use of both legs	32	5
Loss or loss of use of both hands	11	2
Loss or loss of use of both arms	6	1
Loss or loss of use of both eyes	54	7
Paralysis	28	4
Injury to back or spine	. 64	8
Injury to head	. 69	9
Fracture of back	. 11	2
General mental deficiency	. 10	2
Insanity	. 5	
Not otherwise classified	. 163	22
	454	62

253 permanent total cases reported in Schedule "Z" states for policy years 1916 and 1917 showed an average age of 42 years.

Distribution of Dependents in Fatal Cases.—Schedule "Z" as reported for policy years 1916 and 1917 called for individual death reports stating the number and relationship of dependents. In many of the states, such as Connecticut, where the amount of compensation is not determined by the number of dependents, the companies evidently did not secure such information in all cases, so that the reports available for use in determining the distribution of dependents were largely based on accidents in those states* where the amount of compensation is determined by number and relationship of dependents. Our study was based on 5,877 actual fatal cases. The experience was punched on Hollerith cards which were then run through the tabulating machine and totals recorded as follows:

Total Distribution	No. Cases
No dependents	
Widow and no children	1,369
Widow and 1 child	608
Widow and 2 children	524
Widow and 3 children	361
Widow and 4 children	219
Widow and 5 children	133
Widow and 6 children	53
Widow and 7 children	39
Widow and 8 or 9 children	. 19
One orphan	. 99
Two orphans	. 45
Three orphans	. 22
Four orphans	17
Five orphans	. 8
Six or more orphans	7
One parent	. 509
Two parents	269
One brother or sister	. 54
Two brothers or sisters	18
Three brothers or sisters	. 3
Four brothers or sisters	. 3
Five brothers or sisters	. 2

^{*} States for which experience was available: New York, Connecticut, Maine, Massachusetts, New Jersey, Pennsylvania, Rhode Island, Vermont, Maryland, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Nebraska, South Dakota, Wisconsin, Colorado, Montana, New Mexico, Utah, Kentucky, Louisiana, Oklahoma, and Texas.

One parent and one brother or sister	36
One parent and two brothers or sisters	26
One parent and three brothers or sisters	8
One parent and four or more brothers or sisters	6
Two parents and one brother or sister	11
Two parents and two brothers or sisters	4
Two parents and three brothers or sisters	5
Two parents and four or more brothers and sisters	9
Widow and one parent	11
Widow, no child, other dependents	3
Widow, one child, other dependents	3
Widow, two children, other dependents	7
Widow, three children, other dependents	4
Other dependents (average number 3)	20
	$\overline{5,877}$

An investigation was also conducted to determine the average age of dependents and the following data shows conclusively that satisfactory results are not obtainable by assuming a single average in the case of either widows or parents.

	No. Cases.	Average Age.
Widow with no children	. 538	47.3
Widow with one child	. 317	36.3
Widow with two children	. 272	35,1
Widow with three children	. 167	35.6
All others	. 257	36.4
	1,551	39.8

The variation in the case of a widow with no children is accounted for by the fact that in the majority of these cases the children have reached an age beyond that specified in the law for the termination of dependency. Such an average is of course lowered by the cases of very young widows. The variation was so great that it seemed best to make a distinction in this case, and 47 was used as an average age for widows with no children and 36 for widows with children.

The 3638 children showed an average age of 8.0 years, and the 147 brothers and sisters, an average age of 10.9 years.

The average age of dependent parents showed a marked difference in cases where there were also brothers and sisters and cases where there were none. Fifty cases of parents with brothers and sisters show an average age of 50.3 years; 362 cases of parents with no brothers or sisters show an average age of 61.2 years. This difference is readily accounted for by the fact that where there are dependent brothers and sisters, the parents are probably of middle age, the family usually consisting of a widow with young children,

while in other cases the dependent parents are too old for self-support.

The results may be summarized in the following tabular form:

GENERAL DISTRIBUTION.

Fatal	
Permanent Total	62
Permanent Partial	3,788
Major Permanent Partial 924	
Minor Permanent Partial 2,864	
Temporary Total	95,388
	100 000

DURATION OF TEMPORARY TOTAL DISABILITY.

Temporary Total.		Permanent Partial.	
Duration.	No. of Cases.	Duration.	No. of Cases.
1 day. 2 days. 3 " 4 " 5 " 6 " 7 " 8 " 9 " 10 " 11 " 12 " 13 " 14 " 2 3 weeks. 3- 4 " 4- 5 " 5- 6 " 6- 7 " 7- 8 " 8- 9 " 9-10 " 10-11 " 11-12 " 12-13 " 13-14 " 14-15 " 15-16 " 16-17 " 17-18 " 18-19 " 19-20 " 20-21 " 21-22 " 22-23 " 23-24 " 24-25 " Over 25 weeks.	8,823 8,086 7,282 6,014 5,255 4,606 4,817 3,090 3,074 2,740 2,475 2,275 1,868 2,190 10,925 6,269 4,345 2,674 1,923 1,298 966 745 549 447 358 296 254 216 182 154 131 110 94 79 68 56 45 609	1 wk. or less 1- 2 weeks 2- 3 " 3- 4 " 4- 5 " 5- 6 " 6- 7 " 7- 8 " 8- 9 " 9-10 " 10-11 " 11-12 " 12-13 " 13-14 " 14-15 " 15-16 " 16-17 " 17-18 " 18-19 " 19-20 " 20-21 " 21-22 " 22-23 " 23-24 " 24-25 " 6- 7 months 7- 8 " 8- 9 " 9-10 " 10-11 " 11-12 "	206 171 270 362 380 324 273 224 193 166 141 122 105 92 71 59 51 48 45 41 39 37 34 33 31 30 79 52 39 29 29 21
	95,388		3,788

Permanent Partial Disability
Dismemberment or Loss of Use
Arm 61
Hand 86
Thumb 96
One phalange of thumb 152
Index finger 301
One phalange index finger 261
Second finger 147
One phalange second finger 172
Third finger 104
One phalange third finger
Fourth finger 119
One phalange fourth finger 65
Thumb or finger and loss of or injury to
other fingers 532
Leg 62
Foot 43
Great toe 37
One phalange great toe 16
One toe other than great toe 19
One phalange of toe, not great toe 11
One toe and loss of or injury to other toes. 35
Hearing, one ear
Hearing, both ears 1
Eye 290
Disfigurement 50
Other Permanent Partial
DISTRIBUTION OF FATAL CASES,
No dependents
Widow alone 177
Widow and children 253
Widow and one child 79
Widow and two children 68
Widow and three children 47
Widow and four children 28
Widow and five children 17
Widow and six or more* 14
Orphans 26
1 orphan
2 orphans 6
3 orphans 3
4 orphans 2
5 or moret orphans 2
* Average number of children, 7.
† Average number of orphans, 6.

Widow and other dependents 4
Widow and one parent 2
Widow and children* with other dependents 2
Parents and/or brothers or sisters
One parent 66
Two parents 35
One brother or sister 7
Two brothers or sisters 2
Three or more† brothers or sisters 1
One parent and one brother or sister 5
One parent and two brothers or sisters
One parent and three or more brothers or sisters 2
Two parents and brothers or sisters: 4
Other dependents 3
Total

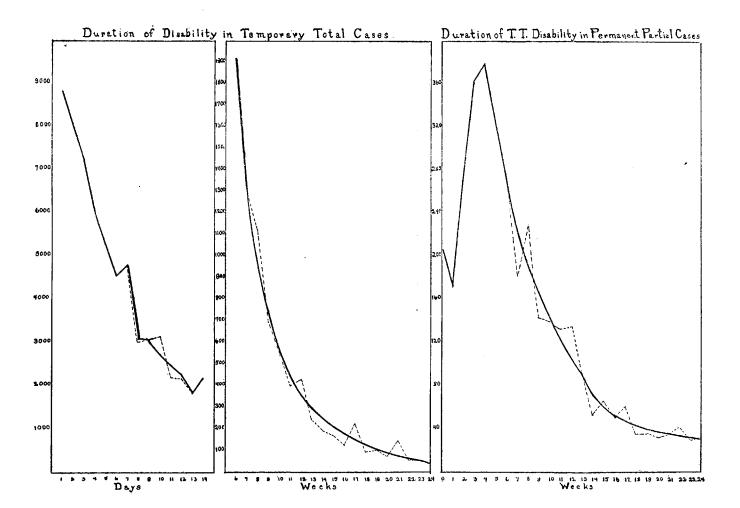
Comparison with Standard Accident Table.—The following comparison between the above tabulation based on American statistics and the Standard Accident Table based on European statistics is interesting:

• • • • •	Table.	Table.
Fatal	762	932
Permanent Total	62	110
Permanent Partial	3,788	4,765
Temporary Total	95,388	94,193

The new table shows a smaller number of serious accidents, yet the results are remarkably close, considering the wide difference in the basic material; in fact the difference is less than that shown between sections of the United States.

Probably the greatest divergence is shown in the dismemberment schedule, but it must be remembered that the Standard Table lists dismemberments while the figures of the American Table include total loss of use as well as amputation. This fact must also be remembered in comparing the 55 per cent. degree of disability adopted for permanent partial cases, not dismemberment, with the 70 per cent. formerly used in the calculation of law differentials. It is assumed that the 70 per cent. formerly used included total loss of use, which has now been included in the dismemberment schedule. Other interesting comparisons may be made, but the striking feature is the similarity between the two distributions.

- * Average number of children, 2.
- † Average number of brothers and sisters, 4.
- ‡ Average number of brothers and sisters, 3.
- 6 Average number of dependents, 3.
- || See Dr. I. M. Rubinow's "Theory and Practice of Law Differentials," Proceedings, Vol. IV.



Accidents Reported on Schedule Z, Policy Years 1916 and 1917.

State.	Fatal.	Perm. Total.	Perm. Part.	Temp. Total.	Waiting Period.	Adjustment Factor.	Modified T. T.	Total.
New York	1,534 193 460 45 49 136	161 12 24 6 2 4	8,721 1,075 3,060 235 207 488	75,170 11,354 16,085 2,708 1,577 4,707	2 weeks 10 days; 7-1-17, 1 wk. 2 weeks 2wk; 6-1-17, 2wk. retroactive at 4 2 weeks 2 weeks	2.9087 2.1007 2.9087 2.9087 2.9087 2.9087	218,647 23,851 46,786 7,877 4,587 13,691	
Total	2,417	209	13,786] 			315,439	331,851
Illinois Indiana Iowa. Kansas. Michigan Minnesota Nebraska	425 175 124 58 265 173 53	33 12 14 5 31 15 4	2,624 1,123 470 193 1,539 655 110	35,112 10,122 3,884 2,094 12,516 7,214 2,035	1 week 2 wks; 5-31-17, 1 wk. 2 weeks 2 wks; 5-26-17, 1 wk. 2 wks, retroactive at 8 2 wks; 4-17, 1 wk. 2 wks. retroactive at 8; 7-24-17, 1 wk. retroactive at 6	1.8887 2.3570 2.9087 2.3570 2.9087 2.2925	66,316 23,858 11,297 4,936 36,405 16,538 4,968	
South Dakota Wisconsin	$\begin{array}{c} 10 \\ 233 \end{array}$	$\begin{array}{c c} 0 \\ 22 \end{array}$	18 1,085	177 17,307	2 weeks, retroactive at 8 1 wk. retroactive at 4	2.9087 1.8887	515 32,688	
Total	1,516	136	7,817				197,521	206,990
California	$egin{array}{c} 291 \\ 125 \\ 23 \\ 6 \\ 27 \end{array}$	10 9 0 0 2	782 243 88 22 51	12,048 2,152 794 84 963	2 wks; 1-1-18, 10 days 3 wks; 4-23-17, 2 weeks 2 weeks 3 weeks 10 days	2.6108 3.5142 2.9087 4.3618 2.3127	31,455 7,563 2,310 366 2,227	-
Total	472	21	1,186				43,921	45,600
Kentucky Louisiana Oklahoma Texas	74 105 104 167	4 3 8 14	317 169 280 576	3,202 4,579 2,763 13,145	2 weeks 1 wk. retroactive at 6 2 weeks 1 week	2.9087 1.8887 2.9087 1.8887	9.314 8,648 8,037 24,827	
Total	450	29	1,342				50,826	52,647
Grand Total	4,855	395	24,131				607,707	637,088
Reduced to 100,000 Basis	762	62	3,788				95,388	100,000

TABLE B.

DURATION OF TEMPORARY TOTAL DISABILITY.

(1) Duration.	(2) Wash. '13 to '17.	(3) Ohio 1-1-'14 to 6-30-'15.	(4) Ohio 5-15-'15 to 5-15-'16.	(5) Calif. '15 to '18.	(6) W. Va. 10-1-'13 to 6-30-'14.	(7) Oregon 6-30-'15 to 6-30-'17.
1 day	12,313*	52,359	48,391	19,809 18,153 16,349 13,502 11,798 10,341 10,815 6,738 6,847 7,043 4,917 4,870	4,918	4,136
13 "	17,489 11,169 6,658 5,499 3,006 2,425 1,505 1,810 780 786 485 899	15,591 10,378 6,053	10,509 12,328 4,589 1,913 885 521 338 198 155 119 80 61	4,160 4,878 17,463 12,024 9,046 6,253 4,571 3,207 2,512 1,780 1,039 815	1,451 1,208 838 554 352 222 160 131 105 71 56 56	3,099 1,537 854 563 389 302 148 143 86 67 35
13-14 " 14-15 " 15-16 " 16-17 " 17-18 " 18-19 " 19-20 " 20-21 " 21-22 " 22-23 " 23-24 " 24-25 " Over 25	280 246 250 127 526 137 163 100 378 83 87 72 1,507	1,386	276	664 510 418 360 355 239 235 176 209 128 132 132 102 818	35 24 28 31 19 22 21 12 18 8 9	274
	68,780	96,891	80,363	204,535	10,543	11,689

^{*} Represents total for 1 week. Other totals are similarly inserted on the last line of the group which is summed.

TABLE B-(continued).

DURATION OF TEMPORARY TOTAL DISABILITY.

Duration.	(8) Oregon 1915.	(9) Wisconsin 7-1-'16 to 7-1-'18.	(10) Total (2) to (8) Inclusive.	(11) Total (2) and (4) to (9) Inclusive.	(12) Total (2) + (5) + (6) + (8).	(13) Total Reduced to 95,388.
1 day	814 683 369 230 180 84 61 32 36 20 17 11 23 6 6 6 4 9 2 2 2 3 3 1 5 6 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1	No data for first two weeks 6,919 3,870 2,700 1,616 950 722 451 352 266 188 159	223,698 88,275 54,452 31,246 67,028	20,455 12,585 9,052 6,112 5,281 3,278 2,585 1,894 2,066	999 797 698 519 921 397 422 299 602 232 229 185 2,488	8,823 8,086 7,282 6,014 5,255 4,606 4,817 3,025 3,074 3,162 2,207 2,186 1,868 2,190 10,925 6,269 4,345 2,674 1,923 1,298 1,122 439 245 195 171 127 226 97 103 73 147 57 56 609
	2,622		475,423			95,388

TABLE C.

DISMEMBERMENT OR TOTAL LOSS OF USE.

	Trav	elers.	Loss	or Loss of Use.		
Nature of Injury.	Ampu- tation.	Loss of Use.	Wisconsin '14 to '18.	Total.	Ohio Jan. '14 to July '15.	
Loss of arm. " " fore arm. " " arm. Loss of hand. " " thumb. " " 1 phalange of thumb. " " forefinger. " " phalange of forefinger. " " 2nd finger. " " phalange of 3rd finger. " " phalange of 3rd finger. " " thinger. " " phalange of 4th finger. " " thumb and fingers. " " thumb and fingers. " " 1 eg. " " leg. " " leg at or below knee. " " foot.	156 235 383 744 514 344 275 273 154 266 94 1,000 141 45 82	48 45 122 60 132 55 40 52 10 79 7 52 53 59	17 12 27 31 162 190 345 124 227 72 119 86 96 16 180 322 6 40	118 104 305 326 545 1,066 859 502 385 273 404 190 52 1,259 470 103 147 151	33 54 74 90 189 230 94 216 52 99 87 81 43 403 11	
" great toe" 1 phalange great toe 1 other toe 1 phalange other toe 1 phalange other toe 2 One toe and loss of or injury to	73 33 40 6	30	25 24 24 24 31	128 57 64 37	16 41	
other toes	84	10 3 792 183	36 1 2 196 26	120 11 5 988 209	28 6 0 216	
Sub TotalOther permanent partial		1,832 2,510	2,447 1,012	9,401 3,522	2,089	
Total	9,464		3,459	12,923		

TABLE C—(continued).

DISMEMBERMENT OR TOTAL LOSS OF USE.

	Los	Loss or Loss of Use.			
Nature of Injury.	Nevada July '13 to July '16.	Grand Total.	Reduced Total.		
Toss of arm " " forearm " " hand " " thumb " " 1 phalange of thumb " " forefinger " " phalange of forefinger " " 2nd finger " " phalange of 2nd finger " " 3rd finger " " phalange of 3rd finger	3 11 8 4 8	257 362 404 638 1,266 1,097 621 726 438 375	61 86 96 152 301 261 147 172 104 89		
" " phalange 4th finger. " " thumb and fingers. " " 2 or more fingers. " " fingers and injuries to others.	$\left. ight\}_{12}^{9}$	500 274 2,239	119 65 532		
" " leg " leg at or below knee " foot " great toe " I phalange great toe	$\left. ight\} \left. egin{array}{c} 2 \\ 3 \\ \end{array} ight]$	263 180	62 43		
" " 1 other toe	7	498	118 5		
" " 2 ears. " " sight in one eye. Disfigurement.	18	1,222 209	1 290 50		
Sub Total	104	11,594	2,754 1,034		
Total			3,788		

TABLE D.

DEGREE OF DISABILITY IN PERMANENT PARTIAL, NOT DISMEMBERMENT.

Degree of Disability.	No. of Cases.	Total No. Cases.	Total % Disa- bility.
Wisconsin 1914 .1125 .2640 .4160 .6180 .8199 Total	47 18 27 21 48	161	8,604.0
Wisconsin 1915 01634 .173314 .3450 .516634 .678314 .8499 Total	24 28 22 37 24 9	144	6,627.1
Wisconsin 1916 020 .2140 .4160 .6180 .8199 Total	45 61 87 31 8	232	9,609.5
Wisconsin 1917 010 .1120 .2130 .3140 .4150 .5160 .6170 .7180 .8190 .9199 Total	43 50 58 42 71 15 13 22 19 2	335	12,350.0
Oregon '16 & '17 020 .2140 .4160 .6180 .8199 Total	37 61 57 31 44	230	11,254.5
Grand Total		1,102	48,445.1

Average per cent. of disability = 44.0.

TABLE E.

Degree of Disability in Permanent Partial, not Dismemberment.

(Experience of Travelers' Insurance Co.)

	Degree of Disability.			
Nature of Injury.	25 %.	50 %.	75 %.	
Loss of use of arm at shoulder ""elbow hand thumb first finger second finger third finger leg at hip leg at knee foot ear both ears one finger and injury to others thumb and injury to fingers	39 13 43 103 118 —	32 38 107 82 73 49 23 28 34 54 65 5	16 35 70 19 33 11 8 5 25 32 44 1	
one eyefinger (unknown)	72	75 22	83 10	
	985	748	423	

Average degree of disability 43.5 per cent.