

**UNITED STATES DEPARTMENT OF LABOR**

*Frances Perkins, Secretary*

**BUREAU OF LABOR STATISTICS**

*Isador Lubin, Commissioner (on leave)*

*A. F. Hinrichs, Acting Commissioner*

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# Work Injuries in the United States During 1943



*Bulletin No. 802*

[Reprinted from the *Monthly Labor Review*,  
November 1944, with additional data]

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## Letter of Transmittal

UNITED STATES DEPARTMENT OF LABOR,  
BUREAU OF LABOR STATISTICS,  
Washington, D. C., November 20, 1944.

The SECRETARY OF LABOR:

I have the honor to transmit herewith a report on industrial injuries in the United States during 1943. This information is based on reports from over 53,000 establishments.

This bulletin, a portion of which appeared in the November 1944 Monthly Labor Review, was prepared in the Bureau's Division of Industrial Hazards by Max D. Kossoris.

A. F. HINRICHS,  
*Acting Commissioner.*

Hon. FRANCES PERKINS,  
*Secretary of Labor.*

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## Work Injuries in the United States During 1943

### *Summary*

DURING 1943, approximately 2,414,000 workers were disabled because of work injuries. The actual time lost from production because of these injuries amounted to about 56,800,000 days. If allowance is made for future economic losses caused by the 18,400 deaths, 1,700 permanent total disabilities, and 108,000 permanent partial impairments, the time loss reaches 274,000,000 days, or a full year's work for about 914,000 workers. This entire economic loss can fairly be charged against 1943, because similar injuries deprived the Nation of the effectiveness during 1943 of workers killed or permanently impaired in earlier years.

The estimated injury total was about 6 percent greater during 1943 than during 1942, for which the estimate was 2,267,700. In comparison with the latter year, deaths increased by 300, permanent total disabilities decreased by 100, permanent partial impairments increased by 7,200, and temporary total disabilities rose by 138,900.

In sharp contrast to the experience during 1941 and 1942, the injury-frequency rate of the entire manufacturing group during 1943 showed very little change from that of the preceding year. Although the number of disabling injuries per million hours worked did not indicate any improvement over the average for 1942, it did not continue the upward trend noted during the last few years and remained practically at the 1942 level. For 1943 the frequency rate was 20.0—an increase of only a half of 1 percent over the 1942 rate (19.9). The reason for this stability was that the increase in injuries in manufacturing was matched by a similar increase in the number of total hours during which workers were exposed to the hazards of their jobs.

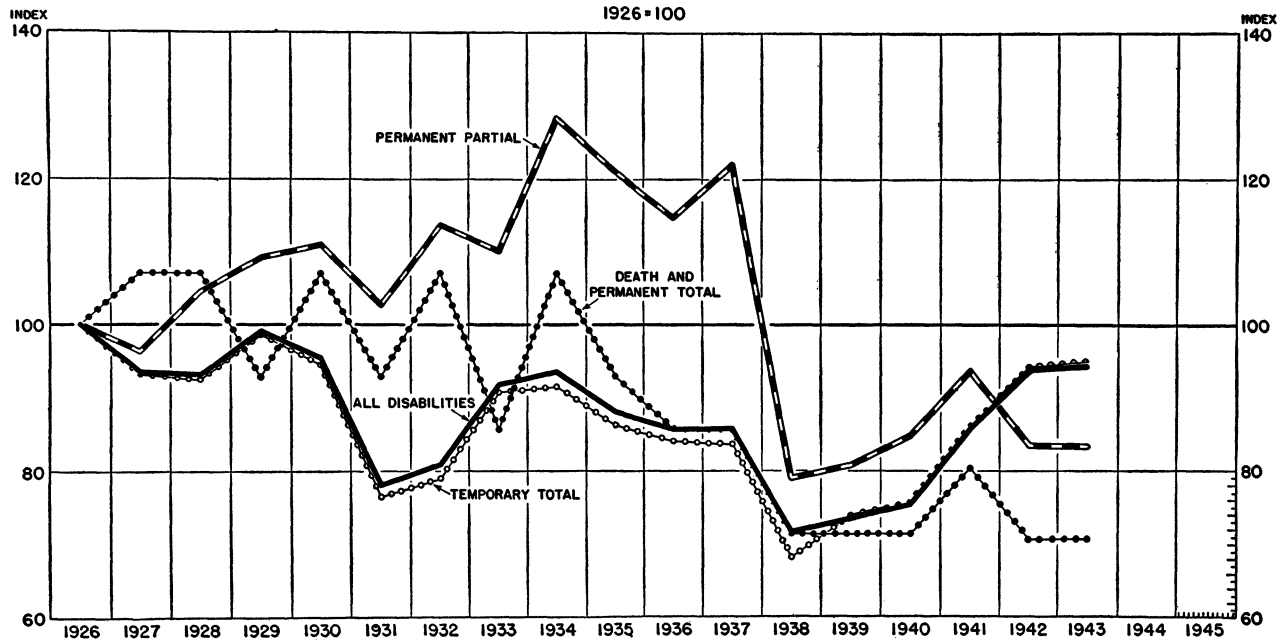
### *Injury-Frequency Rates*

The disability distribution of nearly 483,000 injuries reported by 35,853 manufacturing establishments—with about 11 million employees who worked a total of nearly 25 billion hours—remained essentially unchanged from that of 1942. Deaths and permanent total disabilities together accounted for 0.4 percent of all injuries, permanent partial impairments for 4.5 percent, and temporary total disabilities for 95.1 percent. In this group, the average time charge for permanent partial impairments was 884 days, and the average duration of temporary total disabilities was 16 days.

Logging, as in past years, had the highest frequency rate among manufacturing industries. Its rate of 82.2, nevertheless, indicated some improvement over the 1942 rate of 89.6. Sawmills, with 58.4 disabling injuries per million employee-hours of exposure, also showed a reduction from the 1942 rate of 61.7. Foundries experienced a

# INDUSTRIAL INJURY FREQUENCY RATES IN MANUFACTURING

BY TYPES OF DISABILITY  
1926=100



UNITED STATES DEPARTMENT OF LABOR  
BUREAU OF LABOR STATISTICS

Note: FREQUENCY RATE IS THE AVERAGE NUMBER OF DISABLING INDUSTRIAL INJURIES FOR EACH MILLION EMPLOYEES-HOURS WORKED.

10-43

decrease in accident frequency (from 49.7 to 43.4), as did the brick, tile, and terra cotta industry (from 47.1 to 42.9), the concrete, gypsum and plaster products industry (from 48.4 to 40.8), and the wooden-container industry (from 50.2 to 48.8).

On the other hand, a number of industries with high frequency rates in 1942 had still higher rates in 1943. The respective 1943 and 1942 rates for these industries were 47.6 and 44.8 for slaughtering and meat packing, 40.8 and 38.0 for iron and steel forgings, and 44.2 and 37.6 for planing mills.

The plate-fabrication and boiler-shop-products industry, with a high rate of 44.3 in 1943, was not shown separately in earlier years.

In the nonmanufacturing group of industries, stevedoring ranked highest with a frequency rate of 91.3. This industry was not surveyed in earlier years. There is reason to believe that the frequency rate, high though it is, is conservative and probably understates considerably the average experience of this industry.

Trucking and hauling, with a rate of 41.4, also showed a considerable increase in accident frequency, as the comparison with the 1942 rate of 34.8 indicates.

Among the manufacturing industries most closely associated with the war, shipbuilding had an average frequency rate of 31.5, aircraft 9.7, aircraft parts 11.7, guns 15.5, heavy ammunition 19.0, tanks 12.2, small arms 8.6, and small-arms ammunition 5.1. The entire ordnance group had a frequency rate of 13.4, one of the lowest group rates in the entire survey.

That extremely hazardous industries can be properly safeguarded is shown by the very low frequency rate of 5.3 for explosives.

### *Type and Severity of Injuries*

An indication of the severity of injuries is provided by the proportions of them which result in death or permanent impairment. It is noteworthy that some of the industries with high percentages of serious injuries nevertheless experienced low frequency rates; in other words, injuries occurred less often per million employee-hours, but among these injuries relatively high proportions were serious. Thus, the percentage of deaths and permanent disabilities in the explosives industry was 13.3 percent, as compared with the all-manufacturing average of 4.9 percent. High percentages in other industries were 11.3 for iron and steel, 10.0 for cement, 7.3 for hardware, 7.6 for ornamental metal work, 8.9 for plumbers' supplies, 7.9 for stamped and pressed metal products, and 8.7 for tin cans and other tinware.

The iron and steel industry also had the highest average duration per temporary disability, 36 days. The cement industry followed with 31 days. Both industries had low frequency rates, 10.0 and 8.2, respectively.

As in all previous years, hand and finger injuries accounted for more than three-quarters of all permanent impairments in manufacturing. That the specific percentage of such impairments remains fairly constant is indicated by the data for the last 3 years: 77 percent in 1941, 79 percent in 1942, and 78 percent in 1943. Foot or toe impairments were reported in 7 percent of all cases, leg and arm impairments each in 3 percent, and permanent eye injuries in 5 percent.

The relative distributions, of course, varied considerably in individual industries. Thus, 97 percent of all permanent impairments in

the furniture industry were to the hand or fingers. In the hardware and metal-stamping industries, this percentage was nearly as high, 96 percent. Outstanding for high percentages of arm and foot or toe impairments was the fertilizer industry, in which the specific percentages for these body parts were 13 and 16. In logging, with only 44 percent of impairments to the hand or fingers, legs were permanently injured in 20 percent of all impairment cases. As one would expect, industries with heavy products experienced large proportions of permanent foot and toe injuries: Breweries 18 percent, foundries 15 percent, steam fittings 15 percent, logging 11 percent, paper and pulp 15 percent, and engines and turbines 13 percent.

### *Estimates of Disabling Work Injuries*

The following table gives estimates of disabling injuries for major industrial groups. Footnotes permit an evaluation of the reliability of these estimates, some of which are based on broad, comprehensive data, while others necessarily had to be predicated on very sketchy and inadequate source material. In manufacturing, for example, the survey data covered about 64 percent of the total employment. Similarly, the mining and railroad estimates are based on adequate data. On the other hand, very little is known about accidents in the construction industry, and still less about those in agriculture.

The total estimate of 2,414,000 disabling injuries during 1943 represents an increase of about 6 percent over the 1942 total. Fatalities increased by about 300, to a total of 18,400. Permanent total disabilities remained nearly constant, at 1,700. Permanent partial impairments increased from 100,800 to about 108,000, and temporary total disabilities rose to 2,285,900 from an estimated 1942 total of 2,147,000.

As in 1942, manufacturing outranked every other major industrial group. It alone accounted for nearly 802,500 disabilities, of which 3,100 resulted in death and 34,400 in permanent impairments. Compared with the 1942 totals, injuries in manufacturing industries increased

*Estimated Number of Disabling Injuries During 1943, by Industry Groups*

Industry group	All disabilities		Fatalities		Permanent total disabilities		Permanent partial disabilities		Temporary total disabilities	
	Total	To employees	Total	To employees	Total	To employees	Total	To employees	Total	To employees
All industry groups.....	2,414,000	1,961,400	18,400	13,400	1,700	1,400	108,000	86,900	2,285,900	1,859,700
Agriculture <sup>1</sup> .....	311,900	75,400	4,800	1,200	400	100	15,600	3,700	291,100	70,400
Mining and quarrying <sup>2</sup> .....	96,400	91,100	2,000	1,900	200	200	4,200	4,000	90,000	85,000
Construction <sup>3</sup> .....	260,100	191,400	2,500	1,800	200	200	12,800	9,400	244,600	180,000
Manufacturing <sup>4</sup> .....	802,500	788,900	3,100	3,100	300	300	34,100	33,500	765,000	752,000
Public utilities.....	19,700	19,700	400	400	(5)	(5)	500	500	18,800	18,800
Trade <sup>5</sup> .....	268,400	215,100	1,100	900	100	100	6,600	5,300	260,600	208,800
Railroads <sup>6</sup> .....	85,400	85,400	1,300	1,300	200	200	5,900	5,900	78,000	78,000
Miscellaneous transportation <sup>7</sup> .....	146,000	125,400	1,300	1,100	100	100	4,100	3,500	140,500	120,700
Services, government, and miscellaneous industries <sup>8</sup> .....	423,600	369,000	1,900	1,700	200	200	24,200	21,100	397,300	346,000

<sup>1</sup> Based on fragmentary data.

<sup>2</sup> Based largely on Bureau of Mines data.

<sup>3</sup> Based on small sample studies.

<sup>4</sup> Based on comprehensive survey.

<sup>5</sup> Less than 50.

<sup>6</sup> Based on Interstate Commerce Commission data.

*Appendix Tables*

by 26 percent. As already noted, however, the incidence of work injuries showed practically no change from that of 1942, as indicated by the relative frequency rates of 19.9 and 20.0 for 1942 and 1943. The increase in injuries was matched by a proportionate increase in total hours worked, and the frequency rate thus remained constant.

The following tables provide the detailed data on which the preceding discussion was based.

Table A shows the frequency and severity rates for individual industries, as well as the weighted rates for major industry groups and for all manufacturing as a whole. The table also contains the disability distribution—i. e., the relative proportion of injuries which resulted in the various types of disabilities—which in earlier years was presented as a separate table.

Table B presents, by industry detail, the changes in employment, employee-hours worked, disabling injuries, and time lost. In cases of death or permanent impairment, economic time charges were used on the basis of the American standard. (See footnote 2 of table A.)

As in past years, estimates are given for the over-all injury experiences of individual industries. The industries listed in table C are those for which the coverage in the annual sample was considered sufficiently large to warrant the extension of the reported data to the industry as a whole. Because the method of estimating was conservative, the number of industries listed in table C is considerably less than the number listed in table A.

Table D gives a distribution of permanent impairments according to the body parts impaired. This table obviously does not reflect the importance of injuries to various body parts in temporary total disabilities, which comprise 95 percent of the total injuries reported in the survey.

Table E contains the data for the trend chart shown on page 2.

TABLE A.—Injury Rates and Injuries, by Extent of Disability, 1943

[All reporting establishments]

Industry	Number of establishments	Number of employees	Employee-hours worked (thousands)	Number of disabling injuries	Percent of disabling injuries <sup>1</sup> resulting in—			Average days lost per disability <sup>1</sup>		Injury rates <sup>2</sup>	
					Death and permanent total disability <sup>3</sup>	Permanent partial disability	Temporary total disability	Permanent partial disability	Temporary total disability	Frequency	Severity <sup>1</sup>
All industries.....	53, 199	12, 264, 995	27, 774, 206	523, 077	-----	-----	-----	-----	-----	-----	-----
<i>Manufacturing</i>											
Total, manufacturing.....	35, 853	10, 835, 662	24, 801, 955	482, 567	0. 4	4. 5	95. 1	884	16	4 20. 0	4 1. 4
Chemical products.....	2, 595	626, 669	1, 387, 596	20, 060	1. 3	4. 2	94. 5	1, 109	18	4 15. 1	4 1. 7
Drugs, toiletries, and insecticides.....	335	52, 733	115, 424	2, 135	2. 2	2. 4	97. 4	923	10	18. 5	1. 8
Explosives.....	118	87, 939	204, 323	1, 092	4. 6	8. 7	86. 7	1, 350	26	5. 3	1. 8
Fertilizers.....	303	17, 242	36, 464	1, 190	8. 8	2. 6	96. 6	1, 515	15	32. 6	3. 3
Paints and varnishes.....	454	34, 876	77, 295	1, 477	1. 4	3. 1	95. 5	1, 114	13	19. 0	2. 4
Petroleum refining <sup>4</sup> .....	213	126, 172	282, 570	3, 196	1. 5	3. 4	95. 1	519	20	11. 3	1. 5
Rayon and allied products.....	34	59, 306	125, 580	1, 316	3. 3	2. 7	97. 0	844	13	10. 5	1. 6
Soap and glycerin.....	92	21, 608	46, 443	530	8. 8	3. 8	95. 4	1, 308	20	11. 4	1. 5
Industrial chemicals.....	728	181, 147	394, 218	7, 230	1. 1	5. 5	93. 4	1, 163	17	18. 3	2. 3
Paving and roofing materials.....	21	3, 187	7, 356	191	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	16	26. 0	4. 0
Vegetable and animal oils.....	19	2, 670	6, 106	146	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	10	23. 9	1. 8
Not elsewhere classified.....	278	39, 789	91, 813	1, 567	1. 2	4. 5	94. 3	1, 344	19	17. 1	1. 6
Food products.....	3, 889	437, 424	942, 504	29, 885	3. 3	3. 0	96. 7	1, 006	14	4 29. 7	4 1. 7
Baking.....	732	61, 135	134, 556	2, 757	2. 2	4. 6	95. 2	943	15	20. 5	1. 4
Canning and preserving.....	478	87, 442	161, 601	3, 841	3. 3	3. 1	96. 6	1, 149	14	25. 3	1. 8
Confectionery.....	244	42, 030	90, 184	1, 754	2. 2	5. 6	94. 2	1, 202	14	19. 4	1. 8
Flour, feed, and other grain-mill products.....	559	43, 312	102, 208	3, 090	5. 2	2. 3	97. 2	1, 215	14	30. 2	2. 3
Slaughtering and meat packing <sup>7</sup> .....	758	102, 051	234, 962	11, 180	1. 1	2. 0	97. 9	928	12	47. 6	1. 8
Sugar refining.....	97	22, 009	48, 072	1, 438	3. 3	2. 9	96. 8	1, 529	15	29. 9	2. 3
Beverages.....	340	14, 549	31, 953	785	8. 8	1. 4	97. 8	859	11	24. 6	1. 7
Dairy products.....	208	10, 079	23, 385	801	2. 2	7. 7	99. 1	800	14	34. 3	1. 9
Breweries.....	219	33, 855	77, 953	2, 752	3. 3	6. 8	92. 9	1, 375	16	35. 3	4. 4
Not elsewhere classified.....	254	20, 962	47, 641	1, 487	3. 3	1. 7	98. 0	925	16	31. 2	1. 5
Iron and steel and their products.....	5, 042	1, 470, 411	3, 307, 345	78, 777	7. 7	6. 0	93. 3	902	22	4 24. 1	2. 0
Iron and steel.....	366	592, 143	1, 294, 651	13, 005	1. 7	9. 6	88. 7	977	36	10. 0	1. 9
Cutlery and edge tools.....	134	20, 288	47, 913	1, 239	5. 5	3. 6	95. 9	703	13	25. 9	1. 8
Enameling and galvanizing.....	81	10, 427	22, 931	827	2. 2	5. 4	94. 4	853	13	38. 1	2. 5
Fabricated structural steel.....	425	65, 139	148, 587	5, 153	6. 6	3. 9	95. 5	843	15	34. 7	2. 8
Forgings, iron and steel.....	235	67, 219	159, 256	6, 504	2. 2	4. 5	95. 3	847	18	40. 8	2. 3

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Foundries, iron and steel.....	1, 114	233, 195	506, 257
Hardware.....	176	31, 556	74, 095
Ornamental metalwork.....	77	7, 098	16, 549
Plumbers' supplies.....	83	25, 312	59, 858
Stamped and pressed metal products.....	450	59, 143	137, 928
Steam fittings and apparatus.....	283	60, 167	145, 235
Heating equipment, not elsewhere classified.....	240	35, 230	79, 699
Tin cans and other tinware.....	101	24, 794	59, 009
Tools, except edge tools.....	184	32, 724	77, 841
Wire and wire products.....	235	50, 272	111, 031
Plate fabrication and boiler-shop products.....	97	15, 932	37, 920
Screws and screw-machine products.....	52	8, 360	19, 798
Bolts, nuts, washers, and rivets.....	28	11, 674	26, 618
Not elsewhere classified.....	681	119, 738	282, 162
<b>Leather and its products.....</b>	<b>785</b>	<b>173, 659</b>	<b>366, 170</b>
Leather.....	190	34, 361	74, 396
Boots and shoes, other than rubber.....	471	128, 787	268, 216
Not elsewhere classified.....	124	10, 511	23, 557
<b>Lumber, lumber products, and furniture.....</b>	<b>3, 743</b>	<b>320, 075</b>	<b>707, 181</b>
Logging.....	196	16, 609	35, 371
Planing mills.....	857	56, 627	131, 302
Sawmills.....	776	66, 373	142, 726
Furniture, except metal.....	1, 026	100, 481	221, 694
Furniture, metal.....	85	10, 760	22, 863
Office, store, and restaurant fixtures.....	108	6, 676	14, 627
Morticians' supplies.....	45	2, 876	6, 230
Wooden containers.....	367	35, 779	78, 752
Not elsewhere classified.....	283	23, 894	53, 612
<b>Machinery (not transportation).....</b>	<b>5, 195</b>	<b>1, 636, 292</b>	<b>3, 944, 303</b>
Agricultural machinery and tractors.....	211	88, 818	209, 494
Construction and mining machinery.....	332	113, 820	268, 012
Electrical equipment and supplies.....	955	548, 497	1, 307, 493
Food-products machinery.....	114	14, 200	33, 980
Metalworking machinery.....	1, 272	265, 115	666, 979
Textile machinery.....	131	20, 345	49, 956
Special industry machinery, not elsewhere classified.....	384	60, 123	147, 491
General industrial machinery.....	1, 310	387, 570	922, 696
Commercial and household machines.....	123	35, 760	83, 289
General machine shops.....	270	16, 494	40, 428
Engines and turbines.....	83	85, 550	214, 481
<b>Paper and allied products.....</b>	<b>1, 282</b>	<b>233, 363</b>	<b>531, 219</b>
Pulp.....	36	7, 193	16, 696
Paper.....	336	79, 233	183, 719
Paper and pulp (integrated).....	115	70, 386	164, 696
Paper boxes and containers.....	522	38, 229	81, 502
Envelopes.....	68	6, 705	14, 678
Not elsewhere classified.....	205	31, 617	69, 924

See footnotes at end of table.

21,950	.3	2.8	96.9	1,104	15	43.4	3.2
1,498	.1	7.2	92.7	649	19	20.2	1.3
528	-----	7.6	92.4	843	15	31.9	2.4
1,310	.1	8.8	91.1	972	11	21.9	2.2
3,970	.3	7.6	92.1	684	15	28.8	2.3
4,434	.2	4.2	95.6	942	15	30.5	1.9
2,894	.1	3.0	96.9	746	12	36.3	1.4
1,023	-----	8.7	91.3	609	14	17.3	1.1
1,983	.3	5.0	94.7	687	12	25.5	1.7
2,371	.2	2.8	97.0	1,138	14	21.4	1.1
1,681	-----	2.0	98.0	750	12	44.3	1.1
380	-----	5.3	94.7	710	18	19.2	1.0
577	-----	3.3	96.7	671	15	21.7	.8
7,450	.2	4.1	95.7	766	16	26.4	1.7
5,884	.2	3.2	96.6	554	14	16.8	.7
2,188	.2	2.6	97.2	863	18	29.4	1.6
3,176	.1	2.9	97.0	383	12	11.8	.2
520	.3	4.3	95.4	808	15	22.1	1.4
30,107	.5	4.8	94.7	951	16	43.6	3.8
2,909	1.7	2.8	95.5	1,658	21	82.2	13.7
5,800	.3	4.5	95.2	930	16	44.2	3.1
8,339	.6	3.3	96.1	1,166	19	58.4	5.3
5,995	.1	6.6	93.3	835	14	27.0	2.0
701	.2	6.9	92.9	811	12	30.7	2.3
397	-----	7.2	92.8	942	15	27.1	2.3
133	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	18	21.3	1.8
3,846	.3	5.8	93.9	829	15	48.8	3.8
1,987	.5	5.2	94.3	605	13	37.1	2.7
72,112	.2	4.4	95.4	748	16	17.1	1.1
4,178	.2	9.9	89.9	792	13	19.9	1.9
7,906	.3	3.1	96.6	784	13	29.5	1.6
14,283	.1	4.7	95.2	634	19	10.9	.6
923	.2	2.4	97.4	1,110	12	27.2	1.6
12,839	.2	3.8	96.0	829	19	19.2	1.2
728	.6	3.5	95.9	605	17	14.6	1.2
3,635	.4	3.2	96.4	804	13	24.6	1.5
21,184	.2	3.6	96.2	753	15	23.0	1.2
1,502	.3	4.4	95.3	875	15	18.0	1.4
1,021	-----	4.6	95.4	631	12	25.3	1.0
3,913	.4	4.6	95.0	767	14	18.2	1.2
14,478	.3	4.2	95.5	896	18	26.3	1.8
544	.8	4.6	94.6	650	23	32.6	2.9
5,793	.6	3.5	95.9	1,175	16	31.5	2.7
4,199	.4	3.0	96.6	920	23	25.5	1.8
1,852	.2	4.7	95.1	850	15	22.7	1.4
212	-----	10.4	89.6	464	20	14.4	1.0
1,878	-----	4.5	95.5	973	13	26.9	1.5

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TABLE A.—Injury Rates and Injuries, by Extent of Disability, 1943—Continued

Industry	Number of establishments	Number of employees	Employee-hours worked (thousands)	Number of disabling injuries	Percent of disabling injuries <sup>1</sup> resulting in—			Average days lost per disability <sup>1</sup>		Injury rates <sup>1</sup>	
					Death and permanent total disability <sup>3</sup>	Permanent partial disability	Temporary total disability	Permanent partial disability	Temporary total disability	Frequency	Severity <sup>1</sup>
<i>Manufacturing—Continued</i>											
Printing and publishing.....	2, 583	152, 278	312, 929	2, 986	0.2	5.0	94.8	1, 167	16	49.8	40.8
Book and job.....	1, 728	77, 996	161, 863	1, 700	.2	5.9	93.9	1, 204	14	10.5	1.0
News and periodical.....	816	72, 050	146, 194	1, 220	.2	4.1	95.7	1, 274	17	8.3	.7
Bookbinding.....	39	2, 232	4, 870	66	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	19	13.6	.3
Rubber and its products.....	310	194, 650	440, 190	7, 061	.2	3.7	96.1	1, 027	18	15.8	1.1
Rubber tires.....	58	89, 026	206, 743	2, 994	.3	3.8	95.9	896	20	14.5	1.1
Rubber hoots and shoes.....	28	26, 871	59, 248	636	.2	4.1	95.7	1, 375	16	10.7	1.0
Not elsewhere classified.....	224	78, 753	174, 198	3, 431	( <sup>4</sup> )	3.5	96.5	1, 112	16	19.7	1.1
Stone, clay, and glass products.....	1, 437	229, 474	483, 551	11, 457	.7	3.4	95.9	1, 109	17	24.1	2.2
Brick, tile, and terra cotta.....	443	34, 772	70, 619	3, 030	.5	2.1	97.4	1, 000	16	42.9	3.0
Cement.....	138	22, 784	45, 802	377	3.0	7.0	90.0	1, 454	31	8.2	2.4
Glass.....	216	87, 748	182, 918	3, 695	.4	3.6	96.0	900	14	20.2	1.4
Pottery.....	98	28, 870	57, 867	1, 130	1.0	1.7	97.3	1, 050	16	19.5	1.3
Concrete, gypsum, and plaster products.....	247	14, 691	32, 112	1, 310	1.0	2.1	96.9	1, 646	17	40.8	4.4
Cut stone and cut-stone products.....	114	3, 338	6, 764	223	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	12	33.0	3.9
Not elsewhere classified.....	181	37, 271	87, 407	1, 692	.3	3.7	96.0	1, 197	17	19.3	2.1
Textiles and textile-mill products.....	3, 925	865, 339	1, 804, 892	26, 396	.2	2.7	97.1	1, 003	14	14.0	1.8
Carpets and rugs.....	68	25, 786	54, 595	936	.7	7.4	91.9	1, 104	15	17.1	2.4
Clothing, men's.....	755	107, 655	210, 357	1, 597	.2	.6	99.2	990	11	7.6	.2
Clothing, women's.....	692	57, 911	115, 955	530	.7	1.4	97.9	1, 017	11	4.6	.1
Cotton goods.....	541	298, 147	646, 013	10, 800	.2	3.5	96.3	894	15	16.7	1.0
Dyeing and finishing.....	175	30, 251	64, 966	1, 534	.2	3.7	96.1	1, 401	18	23.6	1.9
Knit goods.....	617	116, 258	234, 402	1, 937	.1	2.3	97.6	1, 208	12	8.3	.4
Silk and rayon products, not elsewhere classified.....	178	42, 179	89, 949	1, 249	-----	1.3	98.7	534	15	13.9	.3
Woolen goods.....	352	122, 865	260, 274	5, 166	.1	3.8	96.1	1, 097	19	19.8	1.3
Not elsewhere classified.....	547	84, 237	163, 376	2, 647	.1	3.8	96.1	1, 095	14	20.6	1.1
Transportation equipment.....	1, 475	2, 861, 134	6, 714, 942	129, 492	.3	4.1	95.6	794	14	20.2	1.2
Motor vehicles.....	243	245, 625	581, 666	7, 901	.2	6.8	93.0	827	18	13.6	1.1
Shipbuilding.....	327	1, 043, 607	2, 476, 637	78, 123	.4	3.4	96.2	573	14	31.5	1.6
Railroad equipment.....	72	69, 008	143, 816	3, 592	.4	5.7	93.9	1, 231	20	25.0	2.9
Aircraft.....	136	804, 490	1, 833, 210	17, 744	.4	4.0	95.6	812	15	9.7	.7
Motor-vehicle parts.....	119	86, 249	197, 825	4, 361	( <sup>4</sup> )	6.6	93.4	827	14	22.0	1.0
Aircraft parts.....	518	615, 064	1, 464, 239	17, 144	.2	5.9	93.9	819	14	11.7	.8
Not elsewhere classified.....	60	7, 091	17, 547	627	-----	9.8	90.2	889	13	28.5	3.4

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Miscellaneous manufacturing.....	2,207	564,823	1,311,108
Tobacco products.....	188	49,225	100,461
Radios and phonographs.....	325	205,443	473,248
Smelting and refining (nonferrous): <sup>8</sup>			
Copper.....	22	15,884	44,545
Silver, lead, and zinc.....	37	14,060	39,091
Nonferrous metal products.....	549	71,470	164,659
Brushes.....	53	5,001	10,698
Brooms.....	39	1,695	3,681
Coke ovens.....	55	9,575	21,521
Sheet-metal work.....	49	4,748	9,928
Not elsewhere classified.....	890	187,722	443,273
Ordnance and accessories.....	1,385	1,070,071	2,548,019
Guns and related equipment.....	275	210,481	518,740
Ammunition, except for small arms.....	654	386,725	884,028
Tanks, military.....	46	56,277	132,384
Sighting and fire-control equipment.....	71	66,462	170,468
Small arms.....	100	129,076	308,563
Ammunition, small-arms.....	51	129,120	306,435
Tank parts, military.....	119	59,141	144,244
Not elsewhere classified.....	69	32,789	83,154
<i>Nonmanufacturing</i>			
Construction <sup>10</sup> .....	2,316	197,971	368,561
Building <sup>10</sup> .....	1,738	101,084	185,765
Heavy engineering <sup>10</sup> .....	167	66,169	121,871
Highway <sup>10</sup> .....	297	24,270	46,948
Not elsewhere classified <sup>10</sup> .....	108	6,295	13,657
Communication <sup>10</sup> .....	582	365,248	720,040
Telephone (wire and radio) <sup>10</sup> .....	109	352,517	693,650
Radio broadcasting and television.....	472	12,717	26,361
Transportation <sup>10</sup> .....	1,020	188,453	442,801
Stevedoring <sup>10</sup> .....	108	31,546	42,780
Streetcar <sup>10</sup> .....	38	19,518	50,088
Bus <sup>10</sup> .....	286	37,309	94,248
Both streetcar and bus <sup>10</sup> .....	47	80,356	208,888
Trucking and hauling <sup>10</sup> .....	434	10,641	25,307
Warehousing and storage <sup>10</sup> .....	73	2,884	6,117
Not elsewhere classified <sup>10</sup> .....	33	1,355	3,881
Heat, light, and power <sup>10</sup> .....	446	207,978	436,736
Electric light and power <sup>10</sup> .....	287	165,887	347,954
Gas <sup>10</sup> .....	144	41,709	87,918
Waterworks <sup>10</sup> .....	140	2,808	5,859
Personal services.....	3,707	142,190	308,421
Dry cleaning.....	636	17,765	39,525
Laundries.....	765	39,310	86,892
Laundry and dry cleaning combined.....	456	87,303	85,417

See footnotes at end of table.

18,107	.2	4.5	95.3	721	13	16.8	4.9
924	.2	3.5	96.3	556	12	9.2	.4
3,729	.1	4.1	95.8	720	14	7.9	.4
805	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	18.1	( <sup>9</sup> )
1,141	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	29.2	( <sup>9</sup> )
4,120	.2	4.8	95.0	831	12	25.0	1.6
249	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	18	23.3	1.4
107	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	8	29.1	2.5
479	1.0	2.9	98.1	1,071	15	22.3	1.8
263	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	19	26.5	1.0
6,290	.1	3.3	96.6	664	13	14.2	.6
35,765	.3	7.1	92.6	775	17	13.4	1.1
8,026	.2	6.1	93.7	912	15	15.5	1.2
16,799	.6	6.0	93.4	910	18	19.0	1.8
1,618	.0	3.7	96.3	459	20	12.2	.3
1,589	.1	8.2	91.7	1,014	13	9.3	1.5
2,667	.1	7.9	92.0	654	23	8.0	.6
1,562	.3	12.4	87.3	645	15	5.1	.4
2,342	.3	4.8	94.9	602	15	16.2	.7
1,162	.7	5.3	94.0	634	15	14.0	1.2
9,602	1.2	3.6	95.2	1,336	19	26.1	3.6
4,727	.8	3.9	95.3	1,485	17	25.4	3.2
2,990	1.4	3.1	95.5	1,079	24	24.5	3.4
1,495	2.3	3.4	94.3	1,416	15	31.8	6.5
339	.6	5.0	94.4	856	17	24.8	2.3
2,231	.8	.4	98.8	1,433	14	3.1	.2
2,205	.8	.4	98.8	1,433	14	3.2	.2
26	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	16	1.0	.2
12,259	.6	2.2	97.2	1,620	18	27.7	2.5
3,905	.7	3.6	95.7	1,740	25	91.3	12.0
1,325	.7	.5	98.8	2,550	14	26.5	1.8
1,772	.4	3.0	96.6	1,190	13	18.8	1.3
3,783	.6	1.5	97.9	1,746	17	18.1	1.5
1,048	.7	.5	98.8	520	12	41.4	2.3
197	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	10	32.2	.3
71	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	15	18.3	.3
5,508	2.0	2.1	95.9	1,195	22	12.6	2.1
4,062	2.3	2.1	95.6	1,122	19	11.8	2.1
1,407	.9	2.1	97.0	1,412	31	16.0	1.8
80	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	20	13.7	.4
2,702	.3	2.6	97.1	1,724	15	8.8	.7
197	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	16	5.0	.5
863	.2	3.0	96.8	1,950	13	9.9	.9
777	.4	3.6	96.0	1,729	14	9.1	.9

TABLE A.—Injury Rates and Injuries, by Extent of Disability, 1943—Continued

Industry	Number of establishments	Number of employees	Employee-hours worked (thousands)	Number of disabling injuries	Percent of disabling injuries <sup>1</sup> resulting in—			Average days lost per disability <sup>1</sup>		Injury rates: <sup>2</sup>	
					Death and permanent total disability <sup>3</sup>	Permanent partial disability	Temporary total disability	Permanent partial disability	Temporary total disability	Frequency	Severity <sup>4</sup>
<i>Nonmanufacturing—Continued</i>											
<i>Personal services—Continued.</i>											
Amusements and related services.....	406	11,224	19,572	136	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	19	6.9	0.9
Hotels, and eating and drinking places.....	998	26,016	53,691	619	-----	0.8	99.2	390	17	11.5	.2
Medical and other professional services.....	252	8,224	18,544	98	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	16	5.3	.6
Miscellaneous personal services.....	194	2,348	4,776	12	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	23	2.5	.1
<i>Business services.....</i>	<i>2,201</i>	<i>114,451</i>	<i>235,348</i>	<i>2,236</i>	<i>0.3</i>	<i>3.3</i>	<i>96.4</i>	<i>1,268</i>	<i>16</i>	<i>9.5</i>	<i>.7</i>
Banks and other financial agencies.....	788	42,878	86,020	232	.4	5.2	94.4	1,950	14	2.7	.4
Insurance.....	309	22,452	44,962	121	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	23	2.7	.3
Real estate.....	277	5,601	11,644	104	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	23	8.9	.7
Miscellaneous business services.....	322	18,938	34,850	379	.3	2.4	97.3	364	18	10.9	.4
Automobile repair services and garages.....	273	3,035	7,236	154	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	13	21.3	.5
Miscellaneous repair services.....	225	4,070	9,153	247	.4	5.3	94.3	681	14	27.0	2.0
Airplane modification.....	7	17,477	41,480	999	.2	3.3	96.5	1,421	15	24.1	1.8
<i>Educational services.....</i>	<i>71</i>	<i>2,007</i>	<i>3,449</i>	<i>58</i>	<i>(<sup>5</sup>)</i>	<i>(<sup>5</sup>)</i>	<i>(<sup>5</sup>)</i>	<i>(<sup>5</sup>)</i>	<i>13</i>	<i>16.8</i>	<i>3.7</i>
<i>Trade.....</i>	<i>6,856</i>	<i>207,735</i>	<i>450,060</i>	<i>5,823</i>	<i>.3</i>	<i>1.8</i>	<i>97.9</i>	<i>1,162</i>	<i>14</i>	<i>13.7</i>	<i>4.8</i>
Wholesale distributors.....	2,027	47,482	103,424	1,785	.3	2.4	97.3	1,183	14	17.3	1.0
Retail, general merchandise.....	444	55,948	112,511	670	-----	.9	99.1	983	15	6.0	.1
Retail, food.....	709	27,478	64,159	902	.2	1.1	98.7	540	11	14.1	.4
Wholesale and retail dairy products.....	258	10,608	26,303	480	1.0	.6	98.4	400	14	18.2	1.4
Retail, automobiles.....	565	7,227	17,203	215	-----	2.3	97.7	1,850	13	12.5	.7
Filling stations.....	210	1,852	4,570	35	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	24	7.7	.2
Retail, apparel and accessories.....	565	17,977	35,768	234	.4	1.3	98.3	2,833	13	6.5	.5
Miscellaneous retail stores.....	1,621	29,533	65,070	1,014	.6	2.6	96.8	1,260	16	15.6	1.3
Wholesale and retail trade combined.....	457	9,630	21,048	488	.4	.8	98.8	825	17	23.2	1.1

<sup>1</sup> Based on reports which furnished details regarding the resulting disabilities, constituting approximately 75 percent of the total sample.

<sup>2</sup> The frequency rate is the average number of disabling injuries for each million employee-hours worked. The severity rate is the average number of days lost for each thousand employing-hours worked. The standard time-loss ratings for fatalities and permanent disabilities are given in Method of Compiling Industrial Injury Rates, approved by the American Standards Association, 1937.

<sup>3</sup> Each death or permanent total disability is charged with a time loss of 6,000 days in the computation of severity rates.

<sup>4</sup> Weighted by Bureau of Labor Statistics employment data. <sup>5</sup> Compiled by the Bureau of Mines, U. S. Department of Interior.

<sup>6</sup> Disability distribution and average time charges not given because of small number of injuries for which details were reported.

<sup>7</sup> A more comprehensive special study of the slaughtering and meat-packing industry is now in progress. Figures shown above for this industry are subject to revision on the basis of this special industry study.

<sup>8</sup> Less than a tenth of 1 percent.

<sup>9</sup> Not available.

<sup>10</sup> Primarily reported by company instead of by establishment.

**TABLE B.—Changes in Exposure, Disabling Injuries, and Injury Rates, for 32,618 Identical Establishments, 1942 to 1943**

Industry	Number of establishments	Percent of change in—					
		Em- ployees	Em- ployee- hours work- ed	Dis- abling in- juries	Total time lost	Fre- quen- cy rate	Sever- ity rate
<i>Manufacturing</i>							
Total, manufacturing.....	20,048	+10	+14	+12	+8	+1	+0
Chemical products.....	1,352	+ <sup>(?)</sup>	+7	+22	+23	+10	+16
Drugs, toiletries, and insecticides.....	244	+12	+21	+38	-22	+14	-36
Explosives.....	35	+1	+1	-23	-45	-28	-46
Fertilizers.....	267	+5	+13	+23	+90	+8	+42
Paints and varnishes.....	337	-7	-2	+13	+5	+15	+5
Rayon and allied products.....	11	- <sup>(?)</sup>	+4	+8	+117	+31	+125
Soap and glycerin.....	74	-3	+5	+12	+18	+18	+25
Industrial chemicals.....	232	-2	+5	+18	+49	+12	+39
Paving and roofing materials.....	11	-15	-12	-30	-24	-21	-13
Vegetable and animal oils.....	13	- <sup>(?)</sup>	+12	+21	-72	+8	-74
Not elsewhere classified.....	128	+3	+11	+29	+63	+16	+50
Food products.....	2,675	+ <sup>(?)</sup>	+6	+10	+3	+7	+0
Baking.....	622	-5	+2	+23	-3	+26	-6
Canning and preserving.....	338	-1	-2	-7	+7	-6	+6
Confectionery.....	205	+4	+9	+14	+53	+6	+43
Flour, feed, and other grain-mill products.....	487	+11	+17	+39	+69	+20	+43
Slaughtering and meat packing.....	137	-9	+2	+4	-11	+2	-14
Sugar refining.....	94	-4	+1	-4	-39	-5	-38
Beverages.....	308	-9	+1	+1	+82	+29	+90
Dairy products.....	123	-2	-1	-5	-47	-6	-50
Breweries.....	213	+18	+28	+14	-1	-11	-23
Not elsewhere classified.....	148	+4	+6	+20	+46	+13	+42
Iron and steel and their products.....	2,365	+3	+7	+2	+4	+2	+10
Iron and steel.....	159	+ <sup>(?)</sup>	+6	+6	-2	0	-5
Cutlery and edge tools.....	91	-3	+ <sup>(?)</sup>	+12	+9	+12	+5
Enameling and galvanizing.....	45	-5	-3	+34	+24	+38	+26
Fabricated structural steel.....	240	+2	+6	-12	+12	-17	+7
Forgings, iron and steel.....	71	+17	+19	+18	+40	- <sup>(?)</sup>	+11
Foundries, iron and steel.....	648	+6	-1	-8	+8	-7	+9
Hardware.....	119	-9	-6	-25	-15	-20	-12
Ornamental metalwork.....	51	+1	+5	+12	+120	+7	+108
Plumbers' supplies.....	59	+ <sup>(?)</sup>	+5	+8	+115	+3	+109
Stamped and pressed metal products.....	148	+5	+8	+25	+29	+20	+5
Steam fittings and apparatus.....	165	+5	+10	-12	+8	-19	-5
Heating equipment, not elsewhere classified.....	149	+5	+11	+17	-37	+6	-44
Tin cans and other tinware.....	57	-4	+11	-12	-9	-21	-21
Tools, except edge tools.....	113	+10	+31	+17	+10	-11	0
Wire and wire products.....	74	+4	+12	+24	+26	+11	+20
Plate fabrication and boiler-shop products.....	10	-4	+7	+8	-25	-2	-31
Screws and screw-machine products.....	39	+4	+ <sup>(?)</sup>	-2	-41	-2	-44
Bolts, nuts, washers, and rivets.....	18	+69	+69	+70	+45	+1	-13
Not elsewhere classified.....	109	+13	+13	+34	+19	+18	+6
Leather and its products.....	514	-10	-5	-4	-34	+3	+14
Leather.....	136	-13	-10	-9	-44	+2	-38
Boots and shoes, other than rubber.....	308	-10	-3	+1	-28	+3	-35
Not elsewhere classified.....	70	-7	-4	+1	+168	+5	+183
Lumber, lumber products, and furniture.....	2,777	-8	-5	-1	-6	+4	+3
Logging.....	125	-2	+5	-7	-12	-12	-17
Planing mills.....	680	-12	-5	+6	+11	+11	+16
Sawmills.....	553	-7	-5	-12	-11	-7	-7
Furniture, except metal.....	796	-8	-7	+10	-8	+18	0
Furniture, metal.....	49	-5	-1	-4	+13	-2	+17
Office, store, and restaurant fixtures.....	79	+6	+6	+48	+78	+39	+71
Morticians' supplies.....	37	-5	-2	+8	+459	+10	+567
Wooden containers.....	270	-6	-3	-7	-11	-5	-7
Not elsewhere classified.....	188	-9	-5	+15	+2	+21	+8
Machinery (not transportation).....	1,606	+13	+13	+15	+27	+4	+0
Agricultural machinery and tractors.....	135	+16	+21	+21	+21	-1	0
Construction and mining machinery.....	188	+9	+8	+13	+30	+9	+19
Electrical equipment and supplies.....	172	+20	+19	+21	-1	+1	-17
Food-products machinery.....	73	+12	+10	+44	+69	+30	+56
Metalworking machinery.....	236	+2	+1	-6	+16	-5	+9
Textile machinery.....	98	-7	-5	-27	+20	-24	+30

See footnotes at end of table.

TABLE B.—Changes in Exposure, Disabling Injuries, and Injury Rates, for 32,618 Identical Establishments, 1942 to 1943—Continued

Industry	Number of establishments	Percent of change in—					Severity rate
		Em- ploy- ees	Em- ploe- hours work- ed	Dis- abling in- juries	Total time lost	Fre- quen- cy rate	
<i>Manufacturing—Continued</i>							
<b>Machinery (not transportation)—Continued.</b>							
Special industry machinery, not elsewhere classified	220	+4	+5	+17	+43	+12	+38
General industrial machinery	384	+16	+15	+19	+32	+3	+8
Commercial and household machines	57	+1	+3	+23	-15	+16	-18
General machine shops	37	+7	+8	+20	-10	+11	-11
Engines and turbines	6	+30	+45	+34	+308	-3	+240
<b>Paper and allied products</b>	897	+ <sup>(2)</sup>	+5	+18	+24	+13	0
Pulp	21	-11	-3	-15	-32	-12	-47
Paper	214	-4	+1	+14	+44	+13	+47
Paper and pulp (integrated)	69	+6	+12	+20	+13	+7	-5
Paper boxes and containers	357	+1	+3	+17	+9	+14	+7
Envelopes	59	+7	+13	+25	+64	+10	+43
Not elsewhere classified	177	+3	+7	+36	+56	+26	+45
<b>Printing and publishing</b>	2,289	+ <sup>(2)</sup>	+3	+5	+18	+2	0
Book and job	1,524	+3	+4	+9	+32	+5	+29
News and periodical	737	-1	+2	- <sup>(2)</sup>	+6	-2	0
Bookbinding	28	-7	-3	0	-83	+4	-80
<b>Rubber and its products</b>	160	+17	+25	+53	+24	+23	0
Rubber tires	30	+20	+30	+50	+17	+15	-8
Rubber boots and shoes	18	+17	+19	+26	+63	+5	+25
Not elsewhere classified	112	+14	+19	+66	+23	+39	+9
<b>Stone, clay, and glass products</b>	983	-6	-2	-6	-2	-1	-4
Brick, tile, and terra cotta	385	-23	-19	-22	-31	-3	-15
Cement	15	-27	-28	+1	-31	+40	+4
Glass	163	+4	+9	+10	+61	+1	+50
Pottery	84	-7	-5	+16	-8	+23	0
Concrete, gypsum, and plaster products	173	-6	-3	-22	+46	-20	+55
Cut stone and cut-stone products	104	-18	-22	-19	-48	+3	-34
Not elsewhere classified	59	+2	+8	+5	-19	-3	-27
<b>Textile and textile-mill products</b>	2,823	-6	-3	+1	+10	+6	+33
Carpets and rugs	52	-7	+1	+11	+3	+10	0
Clothing, men's	447	-11	-5	-14	-20	-10	0
Clothing, women's	392	-7	-1	+1	+44	0	0
Cotton goods	489	-5	-3	-3	+1	-1	+11
Dyeing and finishing	153	-2	-3	+6	+20	+9	+28
Knit goods	530	-3	+ <sup>(2)</sup>	+8	+81	+8	+100
Silk and rayon products, not elsewhere classified	153	-4	-4	+10	-5	+14	0
Woolen goods	316	-8	-5	+4	+10	+9	+9
Not elsewhere classified	291	-4	-5	+12	+44	+17	+50
<b>Transportation equipment</b>	367	+43	+48	+28	+16	-16	-14
Motor vehicles	63	+16	+29	+22	+21	-5	-8
Shipbuilding	142	+49	+64	+35	+38	-18	-15
Railroad equipment	38	+ <sup>(2)</sup>	+4	+32	+10	+27	+8
Aircraft	27	+41	+37	+12	+58	-18	+25
Motor vehicle parts	24	+19	+16	+46	+116	-54	+75
Boatbuilding	7	+27	+31	+76	-16	+34	-36
Aircraft parts	53	+57	+48	+28	-15	-14	-44
Not elsewhere classified	13	+2	+12	+30	-34	+16	-36
<b>Miscellaneous manufacturing</b>	1,076	+13	+14	+29	-5	+17	-11
Tobacco products	174	+8	+11	+45	+7	+31	0
Radios and phonographs	63	+40	+37	+61	+33	+16	0
Nonferrous-metal products	459	+1	+4	+22	-26	+17	-27
Brushes	39	+6	+6	+8	+69	+2	+60
Brooms	36	+1	+ <sup>(2)</sup>	+35	+89	+34	+50
Coke ovens	17	-6	+1	+6	+28	+5	+27
Not elsewhere classified	298	-3	-2	+18	-38	+20	-22
<b>Ordnance and accessories<sup>1</sup></b>	164	+20	+20	+14	+13	-2	0
Guns and related equipment	89	+19	+23	+26	+99	+3	+63
Ammunition, except for small arms	58	+14	+10	+4	-6	-5	-17
Tanks, military	10	+8	+7	-11	-71	-16	-78
Sighting and fire-control equipment	11	+10	+11	+68	+52	+51	+40
Small arms	20	+57	+38	-4	-55	-30	-67

See footnotes at end of table.

TABLE B.—Changes in Exposure, Disabling Injuries, and Injury Rates, for 32,618 Identical Establishments, 1942 to 1943—Continued

Industry	Number of establishments	Percent of change in—					
		Em- ploy- ees	Em- ployee- hours work- ed	Dis- abling in- juries	Total time lost	Fre- quen- cy rate	Sever- ity rate
<b>Manufacturing—Continued</b>							
<b>Ordnance and accessories—Continued.</b>							
Tank parts, military.....	12	+28	+36	+82	-25	+34	-44
Not elsewhere classified.....	13	+7	+27	-16	+116	-34	+67
<b>Nonmanufacturing</b>							
<b>Construction</b> <sup>1</sup> .....	1,288	-29	-21	-31	-24	-12	-3
Building.....	1,053	-26	-16	-33	-39	-20	-26
Heavy engineering.....	71	-42	-36	-39	-30	-5	+8
Highway.....	102	-22	-19	-15	+64	+5	+103
Not elsewhere classified.....	57	-11	-1	-18	-45	-17	-45
<b>Communication: Telephone</b> <sup>4</sup> .....	69	+4	+6	+16	+25	+10	0
<b>Transportation</b> <sup>3,4</sup> .....	634	+17	+19	+30	+12	+10	-7
Stevedoring.....	90	+100	+56	+26	+22	-19	-22
Streetcar.....	19	+6	+15	+39	+13	+21	-6
Bus.....	135	+4	+6	+44	-30	+36	-33
Both streetcar and bus.....	35	+11	+22	+35	+20	+10	0
Trucking and hauling.....	284	-3	+ <sup>(?)</sup>	+25	+19	+25	+15
Warehousing and storage.....	43	+12	+23	-15	-82	-31	-86
Not elsewhere classified.....	27	+10	+18	-3	-11	-17	-25
<b>Heat, light, and power</b> <sup>4</sup> .....	346	-17	-28	-15	-19	+18	+13
Electric light and power.....	240	-18	-31	-15	-23	+22	+12
Gas.....	95	-12	-9	-14	+19	-5	+36
<b>Waterworks</b> <sup>4</sup> .....	117	-12	-40	-23	+55	+20	+100
<b>Personal services</b> .....	2,823	-2	-3	-11	+19	-9	+40
Dry cleaning.....	534	+1	+1	-4	+57	-5	+33
Laundries.....	638	-8	-9	-14	+53	-5	+80
Laundry and dry cleaning combined.....	387	+2	+ <sup>(?)</sup>	-12	- <sup>(?)</sup>	-12	0
Amusements and related services.....	279	-4	-3	-2	-2	+1	0
Hotels and eating and drinking places.....	633	-1	- <sup>(?)</sup>	-11	-31	-11	-33
Medical and other professional services.....	207	+7	+8	-8	+54	-14	0
Miscellaneous personal services.....	150	+1	+2	0	+37	0	0
<b>Business services</b> .....	4,810	-6	-4	-7	+7	-2	0
Banks and other financial agencies.....	691	-5	-4	-26	+306	-22	+300
Insurance.....	269	-9	-7	+14	-59	+22	-60
Real estate.....	239	-9	-6	-12	+153	-6	+167
Miscellaneous business services.....	241	-6	-2	-18	-10	-16	-14
Automobile repair services and garages.....	208	-8	-8	+23	-78	+34	-73
Miscellaneous repair services.....	162	+8	+5	+12	-50	+7	-52
<b>Educational services</b> .....	48	-3	-7	-2	+36	+5	0
<b>Trade</b> .....	5,430	-4	-4	-1	+21	+5	+14
Wholesale distributors.....	1,657	-9	-6	+4	+41	+10	+57
Retail, general merchandise.....	371	-3	-4	-10	-47	-6	-67
Retail, food.....	539	-4	-5	+ <sup>(?)</sup>	-14	+5	0
Wholesale and retail dairy products.....	151	-1	+5	-17	+87	-20	+50
Retail, automobiles.....	477	-10	-11	-23	-19	-14	0
Filling stations.....	166	-17	-19	-9	-33	+13	-33
Retail, apparel and accessories.....	442	+8	+3	+45	+220	+41	+200
Miscellaneous retail stores.....	1,258	+1	+1	+1	+42	0	+40
Wholesale and retail trade combined.....	369	-7	-6	+6	-35	+13	-33

<sup>1</sup> Weighted by Bureau of Labor Statistics employment data.

<sup>2</sup> Less than half of 1 percent.

<sup>3</sup> Totals include figures for industries not shown separately.

<sup>4</sup> Primarily reported by company instead of by establishment.

TABLE C.—Estimates of Disabilities, by Extent, for Manufacturing Industries, 1943

Industry	All reporting establishments				Estimates for entire industry				
	Number of establishments	Number of employees (thousands)	Employee hours worked (thousands)	Number of disabling injuries	All disabling injuries	Death and permanent total disability	Permanent partial disability	Temporary total disability	Total days lost (thousands)
<b>Chemical products</b> <sup>1</sup> .....	2, 595	626	1, 387, 596	20, 060	30, 800	390	1, 340	29, 070	4, 237
Drugs, toiletries, and insecticides.....	335	52	115, 424	2, 135	3, 100	10	80	3, 010	148
Explosives.....	118	88	204, 323	1, 092	1, 700	80	150	1, 470	724
Fertilizers.....	303	17	36, 464	1, 190	2, 200	20	60	2, 120	226
Paints and varnishes.....	454	34	77, 295	1, 467	1, 800	30	60	1, 710	233
Petroleum refining <sup>1</sup> .....	213	126	282, 570	3, 196	3, 500	55	120	3, 325	459
Rayon and allied products.....	34	59	125, 680	1, 316	1, 500	10	40	1, 450	82
Soap and glycerin.....	92	21	46, 443	530	600	5	20	575	71
Industrial chemicals.....	728	181	394, 218	7, 230	8, 000	90	440	7, 470	1, 166
<b>Food products</b> <sup>1</sup> .....	3, 889	437	942, 504	29, 885	88, 000	225	2, 440	85, 335	5, 149
Canning and preserving.....	478	87	151, 601	3, 841	7, 200	20	220	6, 960	475
Confectionery.....	224	42	90, 184	1, 754	2, 700	5	150	2, 545	248
Flour, feed, and other grain-mill products.....	559	43	102, 208	3, 090	5, 700	30	130	5, 540	425
Slaughtering and meat packing.....	758	102	234, 962	11, 180	19, 400	30	400	18, 970	779
Sugar refining.....	97	22	48, 072	1, 438	1, 600	5	50	1, 545	125
Breweries.....	219	33	77, 935	2, 752	4, 600	10	810	4, 280	566
<b>Iron and steel and their products</b> <sup>1</sup> .....	5, 042	1, 470	3, 307, 345	78, 777	105, 800	455	5, 060	100, 285	8, 962
Iron and steel.....	366	592	1, 204, 651	13, 005	14, 000	240	1, 340	12, 420	3, 188
Cutlery and edge tools.....	134	20	47, 913	1, 239	1, 400	5	50	1, 345	94
Stampings and enameled ware.....	531	69	160, 860	4, 797	6, 600	10	470	6, 120	485
Fabricated structural steel.....	425	65	148, 587	5, 153	6, 400	40	250	6, 150	533
Forgings.....	235	67	159, 256	6, 504	7, 200	15	320	6, 865	482
Foundries.....	1, 114	233	506, 257	21, 950	23, 200	75	640	22, 485	1, 491
Hardware.....	176	31	74, 095	1, 498	2, 000	-----	140	1, 860	140
Ornamental metalwork.....	77	7	16, 549	528	600	-----	50	550	47
Plumbers' supplies.....	83	25	59, 858	1, 310	1, 400	-----	110	1, 290	125
Steam fittings and apparatus.....	283	60	145, 235	4, 434	4, 600	10	190	4, 400	301
Heating equipment, not elsewhere classified.....	240	35	79, 699	2, 894	3, 000	5	90	2, 905	120
Tin cans and other tinware.....	101	24	59, 009	1, 023	1, 600	-----	140	1, 460	102
Tools, except edge tools.....	184	32	77, 841	1, 983	2, 000	5	100	1, 895	127
Bolts, nuts, washers, and rivets.....	28	11	26, 618	577	1, 100	-----	40	1, 060	40
<b>Leather and its products</b> <sup>1</sup> .....	785	173	360, 170	5, 884	12, 800	25	430	12, 345	612
Leather.....	190	34	74, 398	2, 188	3, 400	5	90	3, 305	178
Boots and shoes.....	471	128	268, 216	3, 176	5, 300	5	160	5, 135	146
<b>Lumber, lumber products, and furniture</b> <sup>1</sup> .....	3, 743	320	707, 181	30, 107	91, 600	520	4, 100	86, 980	8, 234
Planing mills.....	857	56	131, 302	5, 800	9, 300	25	420	8, 855	691
Furniture, metal and wood.....	1, 219	117	259, 185	7, 093	12, 900	15	860	12, 025	975
Wooden containers.....	367	35	78, 752	3, 846	4, 300	15	250	4, 035	345
<b>Machinery (not transportation)</b> <sup>1</sup> .....	5, 195	1, 636	3, 044, 303	72, 112	85, 600	185	3, 710	81, 705	5, 190
Agricultural machinery and tractors.....	211	88	209, 494	4, 178	5, 000	10	500	4, 490	510
General and special industry machinery <sup>1</sup> .....	2, 410	592	1, 412, 608	34, 669	37, 000	75	1, 330	35, 595	1, 980
Electrical equipment and supplies.....	955	548	1, 307, 493	14, 283	16, 000	15	750	15, 235	862
Metalworking machinery.....	1, 272	265	666, 979	12, 839	14, 000	30	530	13, 440	864
Textile machinery.....	131	20	49, 956	728	800	5	30	765	60
Engines and turbines.....	88	85	214, 481	3, 913	4, 200	15	190	3, 995	305
<b>Paper and allied products</b> <sup>1</sup> .....	1, 282	233	531, 219	14, 478	21, 600	65	880	20, 655	1, 560
Paper and pulp.....	487	156	365, 113	10, 536	11, 300	55	380	10, 865	939
Envelopes.....	68	6	14, 678	212	400	-----	40	360	25
<b>Printing and publishing</b> <sup>1</sup> .....	2, 583	152	312, 929	2, 986	10, 100	20	520	9, 560	862
<b>Rubber and its products</b> <sup>1</sup> .....	310	194	440, 190	7, 061	7, 700	10	280	7, 410	501
Rubber tires.....	58	89	206, 743	2, 994	3, 700	10	140	3, 550	262
Rubber boots and shoes.....	28	26	59, 248	636	800	-----	30	770	69

See footnotes at end of table.

TABLE C.—*Estimates of Disabilities, by Extent, for Manufacturing Industries, 1943—*  
Continued

Industry	All reporting establishments				Estimates for entire industry				
	Number of establishments	Number of employees (thousands)	Employee hours worked (thousands)	Number of disabling injuries	All disabling injuries	Death and permanent total disability	Permanent partial disability	Temporary total disability	Total days lost (thousands)
<b>Stone, clay, and glass products</b> <sup>1</sup> .....	1,437	229	483,551	11,457	21,100	135	640	20,325	1,803
Brick, tile, and terra cotta.....	443	34	70,619	3,030	5,100	30	110	4,960	355
Cement.....	138	22	45,802	377	500	15	30	455	146
Glass.....	216	87	182,918	3,695	4,900	20	180	4,700	333
Pottery.....	98	28	57,867	1,130	1,900	20	30	1,850	169
Concrete, gypsum, and plaster products.....	247	14	32,112	1,310	2,100	20	40	2,040	237
<b>Textile and textile-mill products</b> <sup>1</sup> .....	3,925	865	1,804,892	26,396	63,300	125	2,050	61,125	3,719
Carpets and rugs.....	68	25	54,595	936	1,000	5	70	925	132
Cotton goods.....	541	298	646,013	10,800	19,800	40	700	19,060	1,138
Knit goods.....	617	116	234,402	1,937	3,900	5	90	3,805	177
Silk and rayon products, not elsewhere classified.....	178	42	89,949	1,249	3,100	-----	40	3,060	67
Woolen goods.....	352	122	260,274	5,166	7,700	10	290	7,400	513
<b>Transportation equipment</b> <sup>1</sup> .....	1,475	2,861	6,714,942	129,492	172,400	590	7,030	164,780	11,102
Motor vehicles and parts.....	362	331	779,491	12,262	14,000	30	950	13,020	1,189
Shipbuilding and boatbuilding <sup>4</sup> .....	362	1,046	2,482,732	78,476	102,100	415	3,470	98,215	6,027
Railroad equipment.....	72	59	143,816	3,592	4,100	15	230	3,855	461
Aircraft.....	136	804	1,833,210	17,744	21,500	90	890	20,550	1,531
Aircraft parts.....	518	615	1,464,239	17,144	21,000	40	1,240	19,720	1,542
<b>Miscellaneous manufacturing</b> <sup>1</sup> .....	2,207	564	1,311,108	18,107	47,600	135	2,370	45,095	3,320
Tobacco products.....	188	49	100,461	924	1,900	5	70	1,825	83
Radios and phonographs.....	325	205	473,248	3,729	4,000	5	160	3,835	195
<b>Ordnance and accessories</b> <sup>1</sup> .....	1,385	1,070	2,548,019	35,765	61,000	210	3,870	56,920	5,407
Guns and related equipment.....	275	210	518,740	8,026	11,500	25	700	10,775	937
Ammunition, except for small arms.....	654	386	884,028	16,799	24,700	140	1,480	23,080	2,602
Small arms.....	100	129	308,563	2,667	4,300	-----	330	3,970	321

<sup>1</sup> Includes data for industries not shown separately because of insufficient coverage upon which to base industry estimates.

<sup>2</sup> Based on data furnished by the Bureau of Mines, U. S. Department of the Interior.

<sup>3</sup> This classification includes construction, mining, and food-products machinery

<sup>4</sup> Does not include United States navy yards.

TABLE D.—Percentage Distribution of All Reported Injuries Resulting in Permanent Partial Disability, According to Part of Body Affected, by Industry, 1943

Industry	Total	Percent of permanent partial disability cases involving the loss, or loss of use of—						Other
		An arm	A hand or fingers	A leg	A foot or toes	An eye	One or both ears (hearing)	
<b>Manufacturing</b>								
Total, manufacturing.....	100	3	78	3	7	5	(1)	4
Chemical products.....	100	7	69	4	6	4	1	9
Drugs, toiletries, and insecticides.....	100	3	84	0	8	0	0	5
Explosives.....	100	7	67	7	3	6	3	7
Fertilizers.....	100	13	56	6	16	3	0	6
Paints and varnishes.....	100	6	67	6	0	0	0	21
Rayon and allied products.....	100	0	88	0	3	6	0	3
Industrial chemicals.....	100	5	68	4	6	3	(1)	14
Not elsewhere classified.....	100	11	67	2	11	7	2	0
Food products.....	100	6	72	5	8	3	(1)	6
Baking.....	100	2	84	1	10	0	0	3
Canning and preserving.....	100	6	77	6	2	4	0	5
Confectionery.....	100	3	77	6	7	0	0	7
Flour, feed, and other grain-mill products.....	100	7	73	6	10	1	0	3
Slaughtering and meat packing.....	100	4	80	4	3	2	0	6
Sugar refining.....	100	8	62	11	11	3	0	5
Breweries.....	100	9	46	9	18	5	1	12
Iron and steel and their products.....	100	1	81	3	8	6	(1)	1
Iron and steel.....	100	2	77	5	7	8	0	1
Cutlery and edge tools.....	100	0	97	3	0	0	0	0
Enameling and galvanizing.....	100	0	91	6	0	3	0	0
Fabricated structural steel.....	100	2	79	1	12	4	0	2
Forgings, iron and steel.....	100	0	71	2	12	14	0	1
Foundries, iron and steel.....	100	2	71	4	15	7	0	1
Hardware.....	100	2	96	0	1	1	0	0
Ornamental metalwork.....	100	0	74	3	17	3	0	3
Plumbers' supplies.....	100	1	80	3	9	5	0	2
Stamped and pressed metal products.....	100	0	96	0	1	3	0	0
Steam fittings and apparatus.....	100	1	79	3	15	1	0	1
Heating equipment, not elsewhere classified.....	100	0	87	3	3	5	2	0
Tin cans and other tinware.....	100	0	89	0	2	2	0	7
Tools, except edge tools.....	100	0	93	0	6	1	0	0
Screws and screw-machine products.....	100	5	90	0	0	5	0	0
Not elsewhere classified.....	100	1	90	1	4	4	0	0
Leather and its products.....	100	2	91	1	2	2	0	2
Leather.....	100	4	88	2	2	2	0	4
Boots and shoes.....	100	0	97	0	3	0	0	0
Lumber, lumber products, and furniture.....	100	3	84	4	2	5	0	2
Logging.....	100	4	44	20	11	9	0	12
Planing mills.....	100	5	86	2	2	4	0	1
Sawmills.....	100	3	80	7	3	5	0	2
Furniture, except metal.....	100	3	90	1	1	5	0	0
Furniture, metal.....	100	0	87	3	0	0	0	0
Office, store, and restaurant fixtures.....	100	0	84	0	0	8	0	0
Wooden containers.....	100	3	85	2	3	4	0	3
Not elsewhere classified.....	100	0	90	1	3	3	0	3
Machinery (not transportation).....	100	2	81	2	8	4	(1)	3
Agricultural machinery and tractors.....	100	2	86	3	6	2	0	1
Construction and mining machinery.....	100	1	76	3	12	6	0	2
Electrical equipment and supplies.....	100	0	85	1	10	2	0	2
Metalworking machinery.....	100	0	74	4	10	8	0	4
Special industry machinery, not elsewhere classified.....	100	3	76	0	8	10	0	3
General industrial machinery.....	100	3	78	1	6	5	1	6
Commercial and household machines.....	100	5	88	2	5	0	0	0
Engines and turbines.....	100	1	78	1	13	6	0	1
Paper and allied products.....	100	4	84	2	7	2	0	1
Paper.....	100	9	80	4	6	0	0	1
Paper and pulp (integrated).....	100	5	74	0	15	6	0	0
Paper boxes and containers.....	100	0	87	3	6	2	0	2
Envelopes.....	100	0	91	0	9	0	0	0
Not elsewhere classified.....	100	1	94	1	1	2	0	1

<sup>1</sup> Less than half of 1 percent.

TABLE D.—Percentage Distribution of All Reported Injuries Resulting in Permanent Partial Disability, According to Part of Body Affected, by Industry, 1943—Continued

Industry	Total	Percent of permanent partial disability cases involving the loss, or loss of use of—						Other
		An arm	A hand or fingers	A leg	A foot or toes	An eye	One or both ears (hearing)	
<i>Manufacturing—Continued</i>								
Printing and publishing.....	100	5	65	3	23	0	1	3
Book and job.....	100	4	67	4	22	0	0	3
News and periodical.....	100	6	62	0	26	0	2	4
Rubber and its products.....	100	3	92	0	3	1	0	1
Rubber tires.....	100	3	94	0	1	1	0	1
Not elsewhere classified.....	100	2	92	0	4	2	0	0
Stone, clay, and glass products.....	100	3	72	4	4	9	(1)	8
Brick, tile, and terra cotta.....	100	3	81	3	5	5	0	3
Cement.....	100	4	68	8	4	12	0	4
Glass.....	100	2	69	5	4	6	1	13
Textiles and textile-mill products.....	100	6	78	2	7	3	(1)	4
Carpets and rugs.....	100	12	53	5	30	0	0	0
Cotton goods.....	100	4	85	1	4	3	0	3
Dyeing and finishing.....	100	14	46	4	18	4	0	14
Knit goods.....	100	9	69	4	2	7	0	9
Woolen goods.....	100	5	79	3	6	1	0	6
Not elsewhere classified.....	100	4	84	4	0	4	0	4
Transportation equipment.....	100	2	80	2	6	6	0	4
Motor vehicles.....	100	0	76	2	6	6	0	10
Shipbuilding.....	100	1	84	1	5	7	0	2
Railroad equipment.....	100	1	81	5	10	3	0	0
Aircraft.....	100	2	82	1	5	9	0	1
Motor-vehicle parts.....	100	3	85	0	1	11	0	0
Aircraft parts.....	100	2	79	2	7	5	0	5
Not elsewhere classified.....	100	6	57	6	28	3	0	0
Miscellaneous manufacturing.....	100	1	81	1	7	4	0	6
Tobacco products.....	100	3	97	0	0	0	0	0
Radios and phonographs.....	100	0	84	0	9	4	0	3
Nonferrous-metal products.....	100	1	74	2	7	3	0	13
Not elsewhere classified.....	100	0	90	0	5	5	0	0
Ordinance and accessories.....	100	3	80	2	6	5	(1)	4
Guns and related equipment.....	100	4	74	3	10	4	0	5
Ammunition, except for small arms.....	100	4	78	2	5	5	1	5
Sighting and fire-control equipment.....	100	1	60	3	14	13	0	9
Small arms.....	100	2	91	1	3	2	0	1
Ammunition, small-arms.....	100	0	93	1	2	3	0	1
Tank parts, military.....	100	0	84	2	8	6	0	0
Not elsewhere classified.....	100	0	88	2	2	6	0	2
<i>Nonmanufacturing</i>								
Construction.....	100	6	58	6	12	10	(1)	8
Building.....	100	7	52	5	16	11	1	8
Heavy engineering.....	100	2	61	7	8	13	0	9
Highway.....	100	10	62	8	14	4	0	2
Transportation.....	100	6	50	15	17	5	1	6
Stevedoring.....	100	7	44	16	28	3	1	1
Bus.....	100	2	60	11	6	4	2	15
Both streetcar and bus.....	100	10	47	16	3	14	0	10
Heat, light, and power.....	100	6	63	5	12	8	0	6
Electric light and power.....	100	6	68	5	6	8	0	7
Gas.....	100	7	45	7	31	7	0	3
Personal services.....	100	11	69	7	6	3	0	4
Laundries.....	100	15	61	8	8	3	0	0
Laundry and dry cleaning.....	100	7	71	7	4	0	0	11
Business services.....	100	4	62	6	12	6	6	4
Airplane modification.....	100	0	61	12	9	6	12	0
Trade.....	100	3	70	8	7	7	0	5
Wholesale distributors.....	100	5	70	5	10	5	0	5
Miscellaneous retail stores.....	100	0	76	12	4	8	0	0

<sup>1</sup> Less than half of 1 percent.

**TABLE E.—Indexes of Injury-Frequency Rates in Manufacturing, 1926–43, by Extent of Disability<sup>1</sup>**

[1926=100]

Year	All injuries	Death and permanent total	Permanent partial	Temporary total
1926	100.0	100.0	100.0	100.0
1927	93.6	107.1	96.3	93.3
1928	93.2	107.1	104.6	92.5
1929	99.2	92.9	109.2	98.7
1930	95.5	107.1	111.0	94.6
1931	78.0	92.9	102.8	76.5
1932	80.9	107.1	113.8	78.9
1933	91.8	85.7	110.1	90.8
1934	93.6	107.1	128.4	91.6
1935	88.1	92.9	121.1	86.2
1936	85.7	85.7	114.7	84.1
1937	85.8	85.7	122.0	83.7
1938	71.7	71.4	78.9	68.1
1939	73.4	71.4	80.7	73.9
1940	75.3	71.4	84.8	75.6
1941	85.8	80.3	93.7	86.3
1942	93.5	70.7	83.4	94.1
1943	94.4	70.7	83.4	95.0

<sup>1</sup> Beginning with 1937, the indexes are based on the percent of change of the frequency rates of identical establishments in each pair of successive years.