UNITED STATES DEPARTMENT OF LABOR WOMEN'S BUREAU Bulletin No. 129

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# INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931 COMPARED WITH INJURIES TO MEN

Pamphlet



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# UNITED STATES DEPARTMENT OF LABOR FRANCES PERKINS, Secretary

WOMEN'S BUREAU MARY ANDERSON, Director

BULLETIN OF THE WOMEN'S BUREAU, No. 129

# INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931 COMPARED WITH INJURIES TO MEN

By MARGARET T. METTERT



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### LETTER OF TRANSMITTAL

# UNITED STATES DEPARTMENT OF LABOR,

MADAM: I have the honor to transmit the third report issued by the Women's Bureau in its series dealing with industrial injuries to women.

The period covered in this bulletin is the 2 years 1930 and 1931. Data for 16 States were available for these years. Though the important States of Pennsylvania and Illinois had temporarily abandoned their publication, they supplied figures for this report.

A comparison of 1931 data with those of 1929 for the 12 States reporting in these years shows that injuries to women increased in 4 States, though injuries to men decreased in all 12. Unemployment in such industries as construction, iron and steel, and mining un-doubtedly is largely responsible for this difference.

The cooperation of State officials and other persons in making these figures available to the Women's Bureau is gratefully acknowledged.

Much of the research for this report was done by Marie Correll. The text has been written by Margaret T. Mettert, also of the Division of Research.

Respectfully submitted.

Hon. FRANCES PERKINS, Secretary of Labor.

IV

WOMEN'S BUREAU, Washington, January 18, 1935.

MARY ANDERSON, Director.

V



PLATE I. STATES REPORTING NUMBER OF WOMEN INJURED, 1930 AND 1931

# INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931 COMPARED WITH IN-JURIES TO MEN

### INTRODUCTION

This study continues the series of Women's Bureau reports on ndustrial injuries to men and women. The series was initiated by Industrial Accidents to Men and Women (Bul. 81), an analysis of the facts on this subject available in State reports for 1927 or the most recent previous years since 1919. Following this, Industrial Injuries to Women in 1928 and 1929 Compared with Injuries to Men (Bul. 102) was published. The present study covers the State data available for the years 1930 and 1931.

The significant developments of 1930 and 1931 in the reports of injuries classified by sex (see chart I) are that South Dakota and North Carolina appear in the list for the first time; Minnesota, that had not classified its data by sex since 1924, does so for 1931; and New Jersey, that failed to classify its data by sex in 1929, does so for 1930 and 1931. Unfortunately, Georgia and Michigan, that published such data in 1928 or 1929, failed to do so in 1930 and 1931; and Illinois data for both years, and Pennsylvania data for 1931, were not published.

### SUMMARY

Data on injuries classified by sex for one or both of the years 1930 and 1931 are given for the following 16 States: Colorado, Idaho, Illinois, Indiana, Iowa, Kentucky, Maryland, Massachusetts, Minnesota, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, South Dakota, and Wisconsin. As these data cover the accident experience of several industrially important States, the facts regarding the injury experience of women are significant.

### Number of injuries

The number of injuries decreased in this period, the decline being especially marked in 1931. In general, women's injuries decreased less than did men's. In one State they showed an increase in 1931 over 1930 and in four an increase over 1929. While injuries to women are still absolutely and relatively fewer than those of men, they are an increasing proportion of total injuries. In 1931 there were only 2 States of 15 where women's injuries were less than 5 percent of the total. In 1930 there were 6 of 15 States where this was true. In 1931 each of 7 States reported over 1,500 injuries to women, 3 of them reporting over 4,500 such injuries.

### Severity of injuries

Fatal and permanent total injuries to women were not so much as 0.5 percent of all injuries reported in any State, and not more than 1.8 percent of injuries to men in any State. Small as the figures are, each such case deserves particular attention from State authorities to prevent repetition. The difference in proportion that permanent partial injuries were of men's and of women's cases was slight. In 1930 and 1931 there were increases in this severe type of injury for both men and women in several States. Data from Illinois as to time lost are evidence that temporary total injuries are about as severe for women as for men.

### Nature of injuries

In the case of both men and women (1) cuts and lacerations and (2) bruises, contusions, and abrasions were the most frequent injuries. A much larger proportion of women than of men suffered from infections. In Indiana and Illinois, the only States with location reported, injuries to fingers, hands, and arms occurred most frequently. More of women's than of men's injuries were to these parts of the body, due largely to women's employment as machine operators. Other parts of the body were injured more commonly in men's than in women's accidents.

### Age of injured persons

A much greater proportion of injuries to women than to men are to persons 20 years of age or under. In each State the women under 21 years had more injuries than any other woman's age group. The proportion of injuries to these young women is greater than can be accounted for by their number among all gainfully occupied women. On the other hand, women over 45 years of age, from these statistics, seem to be particularly good accident risks. Data as to disability and age show that young persons' injuries are likely to be as severe as those of older persons. Falls are the most frequent source of injury to women over 21, while machinery causes most of the accidents to girls under 21. Handling of objects or tools is the most frequent injury to both the younger and older male worker.

### Marital status and number of children

Illinois and North Carolina are the only States reporting on marital status by sex. In Illinois married women had more than their share of industrial injuries, and in North Carolina this was the case for both married and single women. Available data seem to show occupational differences to be the causal factor.

Of the married women injured in Illinois almost half had children and over 10 percent had 3 or more children.

### Industries in which injuries occurred

Manufacturing outranked other industries in number of injuries both to women and to men, and generally had a larger proportion of women's accidents than of men's. Clerical, professional, and other service were important groups in number of women's injuries; construction and mining (particularly in Pennsylvania, Illinois, and Indiana) were important in men's injuries. Girls under 21 had a higher proportion of their injuries in manufacturing than had older women, and the latter had a higher proportion of their injuries in the clerical, professional, and other service groups than had girls under 21.

### Cause

Falls and machinery caused most of women's accidents. Handling of objects and falls ranked high as causes of men's accidents. Falling objects and vehicles also were important factors to men's injuries, minor in the case of women.

### Wages and compensation

As would be expected, the women injured were receiving much less wages than were men at time of injury. The great majority earned under \$20 a week, while only a small percent of the men earned so little. Chiefly due to their smaller wages, even for comparable disability women received much less in compensation than did men.

### SOURCE AND SCOPE OF DATA

The available information on injuries to women in the United States is that given in the reports of certain State agencies, usually those administering compensation laws. In a few cases this information is for female workers only, but most of the reports cited give information for each sex. Chart I is a record of all data published by the States on injuries to women in the period 1920 to 1931. Only data classified by sex are listed in the body of the chart, footnote references being given to special reports on female workers.

Only published State reports were used in the two earlier bulletins, but economy measures in 1930 and 1931 having restricted the amount of published material in some cases, the present report includes unpublished information from Illinois and Pennsylvania, States that had published data by sex throughout the period 1920 to 1929.

In the period 1920 to 1931, 24 States published some facts on in-juries classified by sex. North Carolina and South Dakota did so for the first time in 1930. Data are available for every year in the period in the 8 States following:1 Colorado, Idaho, Illinois, Indiana, Kentucky, Massachusetts, New York, and Pennsylvania.

The incomplete and inadequate character of the data has been fully discussed in the first and second reports of this series. The present study, using the data available for 1930 and 1931, emphasizes more recent practice.

Colorado, Kentucky, and South Dakota classify by sex only the numbers of injuries in the 2 years. For one or both of the years data by sex are available for more than 1 State on cause (4 States), industry (5), wage (3),<sup>2</sup> extent of disability (9), nature of injury (3), and marital status (2). Seven States-Illinois, Maryland, Massachusetts, Minnesota, New Jersey, New York, and Wisconsin-give extent of disability by age. Nature and location of injury are cross classified in Illinois and Indiana and age and industry in New Jersey and Illinois. These are the only correlations made by more than one State. The following list summarizes the nature of the available data.

Published information about the number of industrial injuries to men and women during one or both years of this period is available in only 15 States. (See chart I.) Unpublished data can be secured in only a few other instances. This means that in most States it is impossible to get any accurate indication of the number of women injured in industry.

<sup>&</sup>lt;sup>1</sup> Maryland excluded because published data incomplete for 1922 to 1924 <sup>2</sup> Indiana reports wage data for women only.

<sup>111876°-35-2</sup> 

CHART I.-Extent of information on injuries to women for the period 1920 to 1931 in State reports giving the same information for men 1

4

57

[Asterisk (\*) indicates States for which data are published for 1930 or 1931. Reports are those available July 1, 1933]

Type of information <sup>2</sup>	Number of States publish- ing <sup>3</sup>	State 4	Period covered by published reports <sup>5</sup>	Source	INDUST
Number injured	24	Alabama	1920 to 1922	First quadrennial report of Workmen's Compensation Commission, 1919–1922.	"RI
	を 影 き	California	1920 and 1921	Annual reports of Industrial Accident Commission, years ended June 30, 1921 and	F
		*Colorado	1919–20 to 1930–31	Annual and biennial reports of Industrial Commission, fourth to twelfth, periods	IJ
		Georgia	1927-1928	Seventh and eighth annual reports of Industrial Commission, 1927 and 1928.	S
	States I	*Idaho	1919-20 to 1921-22 · 1922-1924 to 1930-1932_	Biennial reports of Industrial Accident Board, second to eighth, periods ended Oct.	G
		Illinois 3	1920 to 1929 <sup>3</sup>	31, 1920 to 1932. Annual report of Industrial Commission, year ended June 30, 1921; annual reports of	RIE
	The second		· · · · · · · · · · · · · · · · · · ·	Labor Bulletin of Department of Labor, vol. VII, no. 12, June 1928.	SC
	1. H. M.	*Indiana	1919–20 to 1930–31	Annual reports of Industrial Board, years ended Sept. 30, 1920 to 1931.	H
	A. 17	*10wa	1925–26 and 1927–28;1 928–1930 and 1930–	Biennial report of Bureau of Labor Statistics, period ended June 30, 1926; biennial	0
	The second second	*Kentucky	1932. 1919–20 to 1930–31	Annual reports of Workmen's Compensation Board years ended June 30, 1920 to	-
	20 B 3 4	and the state of the state		1931.	A.
		*Maryland	1919–20 to 1930–31 (1922 to 1924, incomplete periods).	Annual reports of Industrial Accident Commission, sixth to seventeenth, years ended Oct. 31, 1920 to 1931.	DMI
	是 是 是 !	*Massachusetts_	1919–20 to 1930–31	Annual reports of Department of Industrial Accidents, years ended June 30, 1920 to	E
		Michigan	1928-29	Labor and Industry quarterly bulletin of Department of Labor and Industry vol I	
	and the second	Berrie		no. 1, December 1930.	H
		*Minnesota	1919–20 to 1923–24; 1930–1932	Seventeenth biennial report of Department of Labor and Industries, period ended June 30, 1920; biennial reports of Industrial Commission, first and second, periods	4
	All Parts			ended June 30, 1922 and 1924, sixth, period ended June 30, 1932 (in twenty-third	61
	11 12 12 I	Missouri	1027 (poriod in complete)	biennial report of Department of Labor and Industry).	30
A-5-2	清 江市。	Nebraska	1927 (period incomplete)	Biennial report of Department of Labor 1096-1027	
	Start Start	*New Jersey	1927, 1928, 1930, 1931	Industrial Bulletin of Department of Labor: Vol. 2, no. 9, September 1928: vol. 3.	A
			S.C. S. H. S. M. S. M. C. N. S.	no. 9, September 1929; vol. 5, no. 9, September 1931; and Industrial Accident Report	H
The Frank in the		*Now Vork	1010 90 to 1090 90 6 1090 and 1091	(mimeographed), year ended Dec. 31, 1931.	U
医下颌 医子宫 医外		New TOIK	1919-20 to 1929-30, 1930 and 1931	special pulletins of Department of Labor: No. 126, September 1924, Analysis of Work- men's compensation cases closed July 1 1092 to June 30 1023; pp. 142 March 1026	-
		1 3 4 5 G 4 8		Compensation awards year ended June 30, 1924; Compensated accidents, July 1914.	93
21. 1 2 2				to June 1922; no. 144, June 1926, Some recent figures on accidents to women and	H
		a star in the second		minors; no. 146, July 1926, Accidents compensated in year ended June 30, 1925, Cost	
第一部署 田 西 二 元	the and the second		「「「「「「「「「」」」」」」」」」	of compensation; no. 148, January 1927, Compensation of statistics year ended	
	the set the			ended June 30, 1920, no. 157, August 1927, Causes of compensation statistics year ended June	
			the first fact that the second	30, 1927: no. 160, June 1929, Cost of compensation year ended June 30, 1928: no. 170	•

	*North Carolina *Pennsylvania <sup>3</sup> -	1929-30 1920 to 1930 <sup>3</sup>	[June 1931], Cost of compensation 2 years ended June 30, 1930; no. 178, [June 1932], Cost of compensation 2 years, 1930 and 1931; and Industrial Bulletin of Department of Labor, vol. 6, no. 7, April 1927; and vol. 7, no. 9, June 1928. First annual report of Industrial Commission, 1929–30. Report of Bureau of Workmen's Compensation, 1920; special bulletin of Department of Labor and Industry, no. 17, 1926, an analysis of compensated accidents to minors for the year 1924; Labor and Industry, monthly bulletin of Department of Labor and Industry, vol. I, no. 7, November 1922; vol. XIII, no. 12, December 1926; vol. XVIII no. 6, June 1931	INDU
	*Rhode Island	1926–27 to 1930–31	Reports of Commissioner of Labor for the years 1927 to 1931.	SI
	*South Dakota	1929-30 and 1930-31	June 30, 1930 and 1931.	TR
	Tennessee Virginia	1919-20	Eighth annual report of Bureau of Workshop and Factory Inspection, 1920. Annual reports of Industrial Commission, second and third, periods ended Sept. 30, 1920 and 1921; biennial reports of Industrial Commission, periods ended Sept. 30, 1923 and 1925.	IAL INJ
	*Wisconsin	1923 to 1931 (1923, 1924, 1925 cover in- juries by machinery only).	Labor Statistics, vol. II, nos. 1 and 2, January-February 1924; vol. III, nos. 1 and 2, January-February 1925; vol. IV, nos. 4 and 5, April-May 1926; no. 25, Mar. 14, 1930; no. 28, July 28, 1930; no. 31, Sept. 25, 1930; no. 35, July 10, 1931; no. 36, Dec. 28, 1931; no. 41, July 31, 1932; and no. 42, June 14, 1932.	URIES
1	Pennsylvania	1924	Special bulletin of Department of Labor and Industry, no. 17, 1926, An analysis of compensated accidents to minors for the year 1924.	TO
9	California Illinois <sup>3</sup>	1920 and 1921 1928 and 1929 <sup>3</sup>	Same as for number injured. Annual reports of Department of Labor, twelfth and thirteenth, years ended June 30, 1929 and 1930	WO
	*Indiana Kentucky *New Jersey Now York	1919-20, 1920-21, 1925-26 to 1930-31 1919-20. 1927, 1928, 1930, 1931 1924, 95 to 1926, 97	Annual reports of Industrial Board, years ended Sept. 30, 1920, 1921, and 1926 to 1931. Annual report of Workmen's Compensation Board, year ended June 30, 1920. Same as for number injured. Special bulleting of Department of Labor: No. 144 June 1926, Some recent figures.	MEN
	New TOLK	1041-40 00 1340-41	on accidents to women and minors; no. 146, July 1926, Accidents compensated in year ended June 30, 1925, cost of compensation; no. 148, January 1927, Compensation statistics year ended June 30, 1926; and Industrial Bulletin, vol. 6, no. 7, April 1927, and 1028	IN 11
	Pennsylvania 3	1920 to 1930 <sup>3</sup>	Report of Bureau of Workmen's Compensation, 1920; Labor and Industry, vol. XIII,	930
	Tennessee	1919–20	Same as for number injured.	5
	*Wisconsin	1926 to 1931	Labor Statistics, no 28, July 28, 1930; no. 31, Sept. 25, 1930; no. 41, July 31, 1932; and no. 42, June 14, 1932.	IND
		1		1
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		statistics year ended June 30, 1926; and Industrial Bulletin, vol. 6, no. 7, April 1927,
		and vol. 7, no. 9, June 1928.
Pennsylvania 3	1920 to 1930 <sup>3</sup>	Report of Bureau of Workmen's Compensation, 1920; Labor and Industry, vol. XIII,
		no. 12, December 1926, and vol. XVIII, no. 6, June 1931.
Tennessee	1919–20	Same as for number injured.
*Wisconsin	1926 to 1931	Labor Statistics, no 28, July 28, 1930; no. 31, Sept. 25, 1930; no. 41, July 31, 1932; and
	and the second se	no. 42, June 14, 1932.

•

See footnotes at end of chart.

Frequency rate.....

Industry\_\_\_\_\_

CHART I.-Extent of information on injuries to women for the period 1920 to 1931 in State reports giving the same information for men-Contd.

Type of information	Number of States publish- ing	State	Period covered by published reports	Source
Cause	7	Illinois <sup>3</sup> *Indiana *Iowa Michigan *New Jersey New York Pennsylvania	1928 and 1929 <sup>3</sup> 1919–20, 1920–21, 1925–26 to 1930–31 1925–26 and 1927–28; 1928–1930 and 1930– 1932. 1928–29 1927, 1928, 1930, 1931 1924–25 to 1926–27 1924.	Same as for industry. Do. Same as for number injured. Do. Do. Special bulletins of Department of Labor: No. 144, June 1926, Some recent figures on accidents to women and minors; no. 152, August 1927, Causes of accidents 2 years ended June 30, 1926; and Industrial Bulletins, vol. 6, no. 7, April 1927 and vol. 7, no. 9, June 1928. Labor and Industry, vol. XIII, no. 12, December 1926.
Nature of injury 5 Illinois <sup>3</sup> *Indiana Nebraska Pennsylvania		1928 and 1929 <sup>3</sup> 1919–20, 1920–21, 1925–26 to 1930–31 1927–28; 1928–1930 and 1930–1932 1927 1920 and 1924	Same as for industry. Do. Biennial reports of Bureau of Labor, periods ended June 30, 1928 to 1932. Same as for number injured. Report of Bureau of Workmen's Compensation, 1920; Labor and Industry, vol. XII, no. 5, May 1925.	
Location of injury	2	Illinois <sup>3</sup> *Indiana	1928 and 1929 <sup>3</sup> 1919–20, 1920–21, 1925–26 to 1930–31	Same as for industry. Annual reports of Industrial Board, years ended Sept. 30, 1920, 1921, 1926 to 1931.
Extent of disability	13	Alabama. *Idaho Illinois <sup>3</sup> iowa *Maryland *Massachusetts. Michigan *Minnesota *New Jersey *New York *Pennsylvania <sup>3</sup> .	1920 to 1922 1919-20 to 1921-22; 1922-1924 to 1930- 1932. 1920 to 1929 <sup>3</sup> 1925-26 and 1927-28 1919-20 to 1930-31 (1922 to 1924, incom- plete periods). 1919-20 to 1930-31 1928-29 1919-20; 1930-1932 1927, 1928, 1930, and 1931 1919-20 to 1929-30; <sup>6</sup> 1930 and 1931 1920 to 1930 <sup>3</sup>	<ul> <li>Same as for number injured. Do.</li> <li>Same as for number injured with the exception of tenth annual report of Department of Labor, year ended June 30, 1927. Biennial report of Bureau of Labor Statistics, period ended June 30, 1926; biennial report of Bureau of Labor, period ended June 30, 1928.</li> <li>Same as for number injured.</li> <li>Do. Do.</li> <li>Seventeenth biennial report of Department of Labor and Industries, period ended June 30, 1920, and sixth biennial report of Industrial Commission (in twenty-third biennial report of Department of Labor and Industry), period ended June 30, 1932.</li> <li>Same as for number injured.</li> <li>Same as for num</li></ul>

and a state and a state of the	LENDY T	Virginia	1919-20 and 1920-21; 1921-23 and 1923-	Same as for number injured.	
dente cines to be for		*TET	25.	Tabox Statistics no. 49 Juna 14, 1039	
A REAL PROPERTY AND A REAL PROPERTY.		* Wisconsin	1930 and 1931	L'abor Statistics, 10. 42, 5 010 14, 1952.	
Time lost	. 4	Alabama	1920 to 1922	Same as for number injured.	
1 1110 1030	CT . C. MINERS	Illinois 3	1925 3	Ninth annual report of Department of Labor, year ended June 30, 1926.	-
The second and the second second	STS SALLAS	New York	1926-27	Industrial Bulletin, vol. 7, no. 9, June 1928.	Z
Florendia, Franka, Londowski	is general	Virginia	1921-1923 and 1923-1925	Biennial report of Industrial Commission, periods ended Sept. 30, 1923 and 1925.	A
1	19	Alabama	1920 to 1922	Same as for number injured.	BD
Ago	14	Georgia	1927-1928	Do.	Ĥ
There is a second of the first of the	Support St. 1	Illinois 3	1920 to 1929 3	Same as for number injured with the exception of the Labor Bulletin.	H
	in a change	*Indiana	1919-20, 1920-21, 1925-26 to 1930-31	Same as for industry.	E
A REPORT A REPORT OF	STREET ATE	*Maryland	1923, 1924, 1924-25 to 1930-31 (1923 and	Annual reports of Industrial Accident Commission, ninth to seventeenth, years	L
the state of the state of the state			1924 incomplete periods).	ended Oct. 31, 1923 to 1931.	5
with a strand and a stranger and		*Massachusetts	1919-20 to 1930-31	Same as for number injured.	H
the state of the s		*Minnesota	1919-20 to 1923-24; 1930-1932	Do.	Z
The second second second	a stanting and it	*New Jersey	1927, 1928, 1930, 1931	Do.	L
-the line the second with the	and the factor of	*New York	1919-20 to 1929-30; <sup>6</sup> 1930 and 1931	Same as for the number injured, with the exception of special bulletin 144 and the	g
「日本語語」「「日本」「日本」「日本」「日本」			1001	Provide bulleting of Department of Labor and Industry no 17 1026 An analysis of	II
AR CANAD TRADAMAN SALE TAND TO A		Pennsylvania	1924	compensated accidents to minors for the year 1924.	E
		*Rhode Island	1926-27 to 1930-31	Same as for number injured.	<b>UI</b>
		*Wisconsin	1926 to 1931	Labor Statistics, no. 25, Mar. 14, 1930; no. 28, July 28, 1930; no. 36, Dec. 28, 1931; and	FI
A STREET STREET		11 100010111111111		no. 42, June 14, 1932.	Ó
in program wings of a	in a disease in	Georgia	1007 00	Same as for number injured	-
Marital status	8	Georgia	1927-28	Thirteenth annual report of Department of Labor year ended June 30, 1930.	X
CARRY THEY		Manuland	1010-90 to 1091-99	Annual reports of Industrial Accident Commission, sixth to eighth, years ended	0
THEN RACEAUCAUCAUCAUCAUCAUCAUCAUCAUCAUCAUCAUCAUCA		Maryland		Oct. 31, 1920 to 1922.	A
a second and here and		Missouri	1927 (period incomplete)	Same as for number injured.	E
The second state of the second state		Nebraska	1927	Do.	4
The second second second second		*North Carolina	1929-30	Do.	
		Pennsylvania	1920	Report of Bureau of Workmen's Compensation, 1920.	5



CHART I.-Extent of information on injuries to women for the period 1920 to 1931 in State reports giving the same information for men-Contd. 00

Type of information	Number of States publish- ing	State	Period covered by published reports	Source
Wage	5	Illinois <sup>3</sup>	1920 to 1924, 1926, 1928, 1929 <sup>3</sup>	Annual report of Industrial Commission, year ended June 30, 1921; annual reports of Department of Labor, fifth to eighth, tenth, twelfth, and thirteenth, years ended June 30, 1922 to 1925, 1927, 1929, and 1930.
Machanalan Gue lookapasa at ami d		*New York	1919-20 to 1930-31 ' 1927 1919-20 to 1929-30; <sup>6</sup> 1930 and 1931 1926 to 1931	Same as for number injured. Do. Same as for number injured, with the exception of special bulletin 144 and the indus- trial bulletins. Labor Statistics, no. 28, July 28, 1930; no. 35, July 10, 1931; and no. 42, June 14, 1932.

<sup>1</sup> This chart does not include the following published data on women injured:

A. Compensation per disability for eye, arm, hand, foot, and leg losses. In report of Workmen's Compensation Bureau, Pennsylvania, 1920.
B. Machine accidents analyzed according to cities and counties in the State. Wisconsin Labor Statistics, vol. 11, nos. 1 and 2, January-February 1924; vol. 111, nos. 1 and 2, January-February 1925; vol. 1V, nos. 4 and 5, April 1926. Analysis of temporary disability cases to females, 1926, 1927, 1928, in Wisconsin Labor Statistics, no. 25, Mar. 14, 1930.
C. Fatal accidents classified by industry, conjugal condition, and part of body injured; also blood-poison cases. In report of Workmen's Compensation Bureau, Pennsylvania, 1920.
Fatal accidents by industry, cause, and nature of injury, 1924; in Labor and Industry, monthly bulletin of Pennsylvania Department of Labor and Industry, vol. XII, no. 5,

May 1925.

D. Fatal cases classified by marital status and number of dependents, 1919-20. In second annual report of Industrial Commission of Virginia, 1920.

E. Special study of 102 accidents to women classified by industry and cause of injury, 1924. In fifth annual report of Court of Industrial Relations, Kansas, year ended Dec. 31, 1924. F. Special reports-New York Department of Labor: Some social and economic effects of work accidents to women. A study of 500 women compensated for permanent partial

injuries, 1918-20. Classified according to age, wage, occupation, industry, nature of injury, location of injury, cause of accident, manner of occurrence of machine accidents, extent of disability, degree of impairment, proportion of infections, present earning capacity, ability to speak English, schooling, change of employer, experience on machines, and length of time machine operators had been on accident job. Special Bulletin 127, November 1924. An analysis of 100 accidents on power punch presses, 1923-24. Classified by number of establishments, product of plant, and nature and location of injury. Special Bulletin 131. New York food-canning accidents, July 1, 1928, to June 30, 1929, cases closed, classified by age and extent of disability, in New York Industrial Bulletin, vol. 9, no. 7, April 1930. Compensated back injuries among women, year ended June 30, 1930, in New York Industrial Bulletin, vol. 10, no. 7, April 1931.

G. Special study-Cases of anthrax, by industry and extent of disability, 1922 to 1926. In Labor and Industry, monthly bulletin of Pennsylvania Department of Labor and Industry, vol. XIV, no. 6, June 1927.

H. Illinois tables for 1929 classified by sex and the place where accidents occurred (county, city); number of children under 16 years of age that injured person had; and total and average amount of compensation paid; in thirteenth annual report of Department of Labor, year ended June 30, 1930.

<sup>2</sup> Type of injuries tabulated varies in different States and in some States from year to year.

<sup>3</sup> Unpublished information has been used for Illinois, 1930 and 1931, and Pennsylvania, 1931. Illinois unpublished tables classified by sex cover: In 1930, number injured, industry, cause, nature of injury, location of injury, extent of disability, time lost, age, marital status, number of children under 16, place where accident occurred (county, city), wage, total and average amount of compensation paid, and days lost in temporary disability cases; in 1931, number injured, industry, cause, extent of disability, time lost, age, and wage. The Pennsylvania unpublished tables classified by sex cover numbers injured, industry, and extent of disability (fatals and nonfatals).

4 It should be noted that since 1919 the following 24 States and the District of Columbia have not published any accident data by sex: Arizona, Arkansas, Connecticut, Delaware, Florida, Kansas, Louisiana, Maine, Mississippi, Montana, Nevada, New Hampshire, New Mexico, North Dakota, Ohio, Oklahoma, Oregon, South Carolina, Texas, Utah, Vermont, Washington, West Virginia, Wyoming; and the following additional States did not publish <sup>3</sup> such data in 1930 or 1931: Alabama, California, Georgia, Illinois, Michigan, Missouri, Nebraska, Tennessee, and Virginia. Arkansas, Florida, Mississippi, and South Carolina have no compensation laws. <sup>5</sup> The following examples illustrate the system used in indicating periods covered: 1920—calendar year; 1920–21—other than calendar year; 1927–1928—2 calendar years combined

in biennial report; 1927–1929–2 years other than calendar years combined in biennial report. <sup>6</sup> Both calendar-year and fiscal-year reports were published for industrial injuries in New York, 1930. Since the State plans to tabulate figures for the calendar year in succeeding reports, these have been used by the Women's Bureau for 1930, and no further reference is made to the report of the fiscal year.

<sup>7</sup> Wage for men not given.

CHART II .- Injuries tabulated, minimum period of disability, and employments covered by law, in the 16 States that reported the sex of injured persons in 1930 or 1931, or both

[Source: State laws and reports; U. S. Bureau of Labor Statistics, series of reports of compensation laws, Bulletins 272, 332, 379, 423, and 496; and Monthly Labor Review, March 1930, December 1930, and January 1932]

1	Devied compared by figures		Minimum period of dis-	Employments covered 1 by accident-reporting law (marked *) or compensation law (where only		
State	tabulated	Injuries tabulated	ability of injuries tabulated	Private	Public	(where only injuries under law are tabulated)
Colorado	Years ended Nov. 30, 1927 to 1931.	Compensation claims	More than 10 days	All except those having regularly less than 4 employees, farm and ranch labor, private domestic service, and casual employees not in the usual course of employer's business. Voluntary as to excepted employments.	All except elective officials, National Guard, and members of volunteer fire departments. <sup>1</sup>	Election presumed in absence of written notice. <sup>2</sup> Compulsory as to public employees.
Idaho	2-year periods ended Oct. 31, 1928, 1930, and 1932.	Closed compensable cases	More than 1 week	All except agricultural pursuits, domestic service, outworkers, casual employment, crews of aircraft while under way, employment not carried on by the employer for pecuniary gain, <sup>1</sup> and charitable institutions. Voluntary as to excepted employments	All except judges of election, clerks of election, and jurors.	Compulsory.
Illinois	1927 to 1931	do.3	do	"Extrahazardous" employments as enumerated, <sup>4</sup> totally blind persons, members of fire patrols (of any board of underwriters). <sup>1</sup> Farm labor and persons not in usual course of employer's business excepted. Voluntary as to excepted employments.	All except officials and duly appointed members of fire departments in cities of 200,000 or more.	Do.
Indiana	Years ended Sept. 30, 1927 to 1931.	Cases reported	More than 1 day	*All	*All	
Iowa	Year ended June 30, 1928; 2-year periods ended June 30, 1930	do	2 days	*All except mines and railway train service 5	*do	A the second sec
Kentucky	and 1932. Years ended June 30, 1927 to 1931	do. <sup>6 7</sup>	More than 1 day	All except those having less than 3 employees, agriculture, domestic service, and common carriers engaged in interstate commerce. Threshing and hulling grains and seeds are within the act. Voluntary as to excepted employments.	All municipal corporations having 3 or more employees. Voluntary as to others.	Election in writing by employer and employee. <sup>2</sup>
Maryland	Years ended Oct. 31, 1927 to 1931	Compensation claims allowed.	More than 3 days	"Extrahazardous" employments as enumerated. <sup>4</sup> Casual employees, farm labor, domestic serv- ice, country blacksmiths, wheelwrights, or similar rural employments excepted. Voluntary as to works not extrahazardous.	All workmen employed for wages and engaged in extrahazardous employments, including the State police force and guards of penal insti- tutions. Voluntary as to other employments.	Compulsory.
Massachusetts	Years ended June 30, 1927 to 1931	Tabulatable injuries 8	1 day or 1 shift	*All	*All	
Minnesota	2-year period ended June 30, 1932_	Closed cases 6 9	More than remainder of day, shift, or turn. <sup>10</sup>	All including commercial threshing and balling, except steam railroads, domestic servants, farm laborers, or casual employees not in usual course of employer's business. Voluntary for farm labor.	All except officials	Election presumed in absence of written notice. <sup>2</sup>
New Jersey	1927, 1928, 1930, 1931	Closed compensable cases 9	More than 1 week	All except casual employees	All except elective officials and those retired	Election presumed in absence of written notice. <sup>10</sup>
New York	Years ended June 30, 1927 to	do.9do.9	do	All enumerated "hazardous" employments, <sup>4</sup> and all others having 4 or more workmen. <sup>1</sup> Farm	on pensions. <sup>1</sup> All employees	Compulsory as to public employments. Compulsory.
North Carolina	1929; calendar years 1930, 1931. Year ended June 30, 1930	All involving time lost with medical or compensation costs.	More than 3 days	All except those having regularly less than 5 employees, agriculture, domestic service, railroads, casual employees not in usual course of employer's business, and persons selling agricultural products for the producer. Voluntary as to excepted employment.	All employees of the State and its subdivisions except elective officials and appointees of the Governor. Federal Government employees and State and county prisoners are also ex- cepted	Election presumed in absence of written notice. <sup>2</sup> Compulsory as to public employees.
Pennsylvania	1927 to 1931	Cases reported	2 days	*All except casual employments	*All	
Rhode Island	Years ended Sept. 30, 1927 to 1931.	Closed compensable cases	More than 1 week	All except those having less than 6 employees, farm labor, domestic service, casual employees, and employees receiving over \$3,000 a year. Voluntary as to excepted employments.	All employees of State, cities, and towns, except fire and police departments.	Election in writing by employer, <sup>2</sup> and presumed in absence of written notice by employee.
South Dakota	Years ended June 30, 1930 and 1931.	Cases reported <sup>6</sup>	None	All except farm and domestic service and employees not in usual course of employer's business; employees in interstate and foreign commerce excepted if United States laws provide for their compensation. Compulsory for operation, for profit, of threshing machines, grain combines, corn shellers, corn huskers, shredders, slage cutters, and seed hullers, including traction engines used therewith. Voluntary as to excepted employments.	All except officials	Election presumed in absence of written notice. <sup>2</sup> Compulsory as to public employees.
Wisconsin	1927 to 1931	Closed compensable cases. <sup>11</sup>	More than 3 days after Apr. 24, 1931; more than 1 week previously.	All except those usually employing less than 3 employees, domestic service, farmers or farm labor, and employees not in usual course of employer's business. <sup>1</sup> Voluntary as to excepted employments.	do	Compulsory. <sup>1</sup> <sup>13</sup>

<sup>1</sup> Changes in features of laws given in chart II are as follows: A—1927 to 1929. Colorado—Members of volunteer fire departments excepted by session law 1927, ch. 197, sec. 2, effective May 1, 1927. Idaho—Judges of election, clerks of election, and jurors excepted by session law 1927, ch. 106, sec. 1, effective Mar. 2, 1927; crews of aircraft while under way excepted by session law 1929, ch. 88, sec. 1, effective May 7, 1929. New York— Employments not conducted for pecuniary gain included by session law 1928, ch. 755, sec. 1, effective Oct. 1, 1928. Wisconsin—Domestic service specifically excepted; voluntary election provided for employees not in usual course of employer's business; session laws 1929, ch. 453, sec. 3, effective Sept. 3, 1929. B—1930 and 1931. Colorado—Defined employees to include sheriffs, deputy sheriffs regularly employed and any person called to serve upon any posse, session laws 1931, ch. 175, effective July 25, 1931. Idaho—Agricultural pursuits defined to include care taking and handling of livestock on enclosed lands and public ranges; exclusion of employments not carried on by the employer for the sake of pecuniary gain from the compulsory application of the act clarified; session laws 1931, ch. 222, secs. 1 and 2, effective Jule 5, 1931. New Jersey—Volunteer firemen were added to coverage of the law by Session Laws 1930, ch. 60, effective Apr. 21, 1931; public employees ratire added to coverage of the law by Session Laws 1930, ch. 60, effective Oct. 1, 1931; private chauffeurs in cities of 2,000,000 or more include under coverage of act free to pensions were excluded, Session Laws 1931, ch. 355, effective July 4, 1931. New York—Additional occupational diseases made compensable, Session Laws 1930, ch. 60, effective QCt. 1, 1931; private chauffeurs in cities of 2,000,000 or more include under coverage of act, Session Laws 1931, ch. 30, ch. 60, effective Apr. 24, 1931. Act made compulsory for private employees who usually employ three or more employees, except farmers or farm labor, domest

<sup>2</sup> Inducement to election is offered by abrogation of common-law defenses where employer rejects the law.
<sup>3</sup> Also reports compensable cases occurring in 1928, 1929, 1930, and 1931. Type of injury tabulated is indicated, for this State, on each table in this report. Includes occupational diseases in certain occupations.
<sup>4</sup> The principal industrial employments are included.
<sup>5</sup> Reports of accidents to workers in mines or in railway service are not received by the bureau of labor. All industrial accidents are reported, however, to the compensation commissioner. <sup>5</sup> Reports of accidents to workers in mines or in railway service are not received by the bureau of labor. All industrial accidents are reported, however, to the compensation commissioner.
<sup>6</sup> Only employers subject to compensation act are required to report.
<sup>7</sup> Includes injury from gas or smoke in mines or from any gas.
<sup>8</sup> Occupational diseases included by court decision.
<sup>9</sup> Designated occupational diseases included.
<sup>10</sup> "Nondisabling cases", presumably with no time lost but with medical and hospital costs reported, are included in the tabulation.
<sup>11</sup> Includes occupational diseases.
<sup>12</sup> Common-law defenses abrogated for employers covered by compulsory features of law. Employers of fewer than 3 persons lose defense of assumed risk if they do not elect law.

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Data on injuries classified by sex published by States for 1930 and 1931 1

[Calendar years or fiscal years ending in 1930 or 1931]

			States rep	orting inju	ries by sex	and—	ant ent	Ho uoi	
Number	Industry	Cause	Nature of injury	Location of injury	Extent of disability	Age	Nation- ality	Wage	Marita status
ie deses	dahoqi	T	an nai	1930		tr at t	dullar 1	araili a	PONE FONE
Colo Idaho Ind Iowa	 Ind	Ind Iowa	Ind Iowa	Ind	Idaho	Ind		Ind. <sup>2</sup>	
Ку Md Mass N. J N. Y.	 N. J	N. J	<u></u>		Md Mass N. J. <sup>3</sup> N. Y	Md Mass N. J N. Y		N. Y	
N. Č Pa R. I	Pa				Pa.4	R. I	N. C		N. C.
S. Dak Wis	Wis				Wis.5	Wis		Wis	8 ad

Colo Idaho Ind Iowa	Ind	Ind Iowa	Ind Iowa	Ind	Idaho	Ind	 Ind. <sup>2</sup>
Ky Md Mass Minn N. J		 N. J			Md Mass Minn N. J	Md Mass Minn N. J	 
N. Y R. I S. Dak Wis	 Wis				N. Y Wis. <sup>5</sup>	N. Y R. I Wis	 N. Y Wis

<sup>1</sup> On account of their unbroken series of reports, 1920 to 1929, unpublished figures for Illinois in 1930 and 1931 and for Pennsylvania in 1931 were accepted for the present study. (See footnote 3 of chart I.)
<sup>2</sup> Comparable data for men not available.
<sup>3</sup> Fatals and permanent totals only.
<sup>4</sup> Fatals and nonfatals only.

<sup>s</sup> Permanent partials only.

Illinois, not included in the foregoing lists because its 1930 and 1931 data had not been published, classified by sex several more types of information than did any other State. This is clear from chart I. Indiana ranked second in this respect. Colorado, Kentucky, and South Dakota reported by sex only the total number of injuries.

In addition to the problem of analyzing scattering and incomplete reports, lack of uniformity and resulting noncomparability of data have made close analysis of available statistics difficult in each of the bulletins of the accident series. In the interest of accident prevention it cannot be emphasized too strongly that States should at least be guided in their collecting, classifying, analyzing, and publishing of statistics by the standard methods advocated by the International Association of Industrial Accident Boards and Commissions.<sup>3</sup>

<sup>3</sup> U. S. Bureau of Labor Statistics. Standardization of Industrial Accident Statistics. Bul. 276. 1920. The revision of this bulletin has not been completed.

### CHARACTER OF DATA

Study of chart II will bring out distinctions in the definition of tabulated cases that must be taken into consideration in any interpretation of the tables in this report. These distinctions have been carefully described in the two earlier reports, but it may be well to give them again before taking up an analysis of statistics.

The most important difference lies between States reporting all cases without regard to their compensation status-reportable cases and tabulatable injuries (8 States)-and States reporting only cases that have been or are eligible for compensation-compensation claims allowed and closed compensable cases (8 States). Of the latter, 7 States report the number of injuries that have been paid or will be paid compensation (1, Illinois, reports compensable cases occurring, also), and the other reports the number of compensation claims.

Another distinction closely connected with this one is the difference in minimum period of disability of tabulated injuries. In all but 1 of the 8 States in the first group just mentioned all cases are tabulated in which the time lost is as much as 1 day or shift to more than 3 days. In the remaining State all accidents were to be reported. For all the 8 States in the group reporting compensable cases, from 3 to 10 days must have been lost from work for an injury to be included.

A further limitation upon comparability follows from differences in employments covered by the State reports. These vary from all employments in Massachusetts and Indiana to enumerated "extrahazardous" employments in Illinois. The other States make various exceptions. In some States employers may elect to come under these reporting requirements, in others it is compulsory.

A minor difference lies in reporting periods. Some States report for calendar-year periods, some for fiscal-year periods. Where figures cover a 2-year period they have been divided by 2 to give an estimate for 1 year for the present study.

These variations must be clearly understood to arrive at valid conclusions, but it will be evident that, if used with care, the figures are comparable. The data for any one State for the 5 years 1927 to 1931 are reasonably comparable, as most of the changes made in the phases of the compensation laws analyzed here are minor ones. The only exception is Wisconsin, where the reduction of the waiting period from 1 week to 3 days in 1931 undoubtedly brought many more injuries under the law.

While it is essential to be cautious in their use, the value of the data available should not be underestimated. Several of the States furnishing the most complete data are important industrially, and analysis of the injury experience of even a sampling of women workers will suggest trends significant in an understanding of the character, cause, and means of prevention of accidents in industry.

### DATA AS TO INJURIES

### Changes in number of injuries, 1927 to 1931

Table 1 is a compilation of the data on industrial injuries occurring to women and to men in the 5-year period 1927 to 1931. The tabulation shows for each State a substantial decrease from 1930 to 1931 in the total number of accidents. The percentage decrease was greater for men than for women in 8 of the 12 States that can be compared. In one State-Idaho-the number of women's injuries reported increased by almost 9 percent, while men's injuries decreased by about 19 percent. A substantial decline in 1931 in accident frequency shows in the annual survey by the United States Bureau of Labor Statistics of accidents in manufacturing industries<sup>4</sup> and in the rates published by the National Safety Council.<sup>5</sup> Probably the basic cause of the decline in numbers noted in this study is the decrease in exposure to industrial hazards resulting from unemployment. That this was not the only factor is evidenced by the Bureau of Labor Statistics and National Safety Council studies. In these studies hours of exposure are available and the frequency rates based on these show considerable decline. It seems logical to conclude, therefore, a measure of progress made in safety. This conclusion is borne out by a survey of the trend of accidents over the 5-year period. Eight of the ten States<sup>6</sup> with comparable data for 1927-29 reported a decrease in number of accidents in 1928, before the onset of the depression, though 8 of the 10 showed some increase in 1929.

It has been stated that the decrease in women's accidents from 1930 to 1931 was somewhat different from that of men. This difference is evident throughout the 5 years.

Plate II presents a graphic comparison of the years 1929 to 1931 with 1928, a time of comparatively normal employment, for the 11 States reporting.<sup>6</sup> The trend from 1928 to 1929 is uneven. Women's injuries increased more than men's increased in 5 of the 10 States reporting, and advanced while men's declined in 1. Men's injuries, on the other hand, increased while women's decreased in 2 States. Declines in number were reported for both sexes in 1 State, somewhat greater for women than for men. One State had a slight advance for each sex. The decrease in women's injuries was very marked in 1 State.

The picture is quite different for 1930, presumably due to the unemployment of men. Women's injuries increased in all but 1 State and there the decrease was slight and was less than for men. The number of accidents to men fell off in 8 States and in the other 3 the increase was considerably less than in the case of women. For the significance of these figures to be clear it would be necessary to compare them with the numbers of the two sexes employed.

Just as marked is the difference in trend of men's and women's cases from 1928 to 1931. In this period men's accidents declined

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<sup>&</sup>lt;sup>4</sup>U. S. Bureau of Labor Statistics. Monthly Labor Review, April 1933, p. 780 ff. <sup>5</sup>National Safety Council. Accident Facts, 1932 edition, Chicago, p. 19. <sup>6</sup>For Idaho and Iowa, where biennial reports combine the figures for 2 years (divided by 2 to arrive at yearly average for the present report), no comparison of numbers injured in first and second year of the period is possible.

TABLE 1.—Industrial injuries tabulated by sex in 1927, 1928, 1929, 1930, and 1931, in States reporting this information for 1930 or 1931,<sup>1</sup> 12 by State

State	ar le laout	1927			1928			1929			1930			1931		Perce: crease to 1	nt de- 9, 1930 1931	Per- cent of women among per- sons gain- fully occu- piad	Per- cent in factur- ing of all women gain- fully occu-	Percer wom amo perso emplo in ma factur and mecha indus	nt of len ng ons yyed nu- ring d nical tries
	Total	Male	Fe- male	Total	Male	Fe- male	Total	Male	Fe- male	Total	Male	Fe- male	Total	Male	Fe- male	Male	Fe- male	in 1930 <sup>2</sup>	pied in 1930 <sup>3</sup>	1930 3	19204
	an pro-	2.5							NUMI	BER ⁵									その	Total Contraction	
Colorado Idaho Indiana Iowa Kentucky Maryland Maryland Maryland Maryland Maryland Mew Jersey New York New York North Carolina_ Pennsylvania Rhode Island South Dakota Wisconsin	5,751 67,594 53,983 40,539 26,021 14,251 64,167 25,865 98,984 160,743 3,985 20,473	5,5667,413(9)38,74525,52413,68658,21724,05391,585154,9033,479-19,657	185 181 (*) 1, 794 497 835 5, 950 1, 812 7, 399 5, 840 506 816	5, 312 6 7, 594 54, 750 37, 714 7, 897 23, 395 13, 902 60, 330 93, 565 152, 498 3, 831 -21, 818	$\begin{array}{c} 5,090\\ 7,413\\ 52,655\\ 35,913\\ 7,554\\ 23,132\\ 13,166\\ 54,744\\ \hline \\ 24,139\\ 86,545\\ \hline \\ 146,489\\ 3,362\\ \hline \\ 21,045\\ \end{array}$	222 181 2,095 1,801 343 263 736 5,586 1,841 7,020 6,009 469 	5, 467 6 7, 840 56, 167 40, 931 6 7, 195 19, 365 14, 147 60, 195 100, 462 166, 657 4, 207 22, 630	5, 281 7, 544 54, 845 38, 787 6, 881 19, 154 13, 410 54, 460  92, 371 159, 728 3, 671 21, 728	$\begin{array}{c} 186\\ 296\\ 1,322\\ 2,144\\ 2,14\\ 314\\ 211\\ 737\\ 5,735\\ \hline \\ 8,091\\ \hline \\ 6,929\\ 536\\ \hline \\ 902\\ \end{array}$	$5, 150 \\ 6, 7, 839 \\ 42, 336 \\ 31, 818 \\ 6, 7, 195 \\ 20, 758 \\ 13, 406 \\ 61, 741 \\ \hline 27, 583 \\ 107, 312 \\ 34, 031 \\ 144, 679 \\ 3, 748 \\ 11, 6, 120 \\ 20, 070 \\ \hline \end{cases}$	$\begin{array}{c} 4,898\\7,544\\39,928\\30,003\\6,880\\20,471\\12,517\\55,906\\\hline\hline\\25,525\\97,733\\31,689\\138,423\\3,281\\5,656\\19,143\\\end{array}$	$\begin{array}{c} 252\\ 295\\ 2,408\\ 1,815\\ 315\\ 287\\ 889\\ 5,835\\ \hline 2,058\\ 9,579\\ 2,342\\ 6,256\\ 467\\ 464\\ 927\\ \end{array}$	$\begin{array}{c} 4,502\\ {}^{6}6,117\\ {}^{3}3,167\\ {}^{2}2,843\\ {}^{10}5,315\\ {}^{14},575\\ {}^{10},401\\ {}^{5}0,006\\ {}^{6}29,825\\ {}^{2}3,208\\ {}^{9}8,424\\ {}^{111},458\\ {}^{2}2,794\\ {}^{5},888\\ {}^{16},943\\ {}^{16},943\\ {}^{11}\end{array}$	4, 303 5, 796 30, 926 21, 264 5, 045 14, 377 9, 705 45, 180 27, 189 21, 229 89, 033 105, 928 2, 440 5, 570 16, 067	$\begin{array}{r} 199\\ 321\\ 2,241\\ 1,579\\ 270\\ 198\\ 6,826\\ 2,636\\ 1,979\\ 9,391\\ \hline 5,530\\ 354\\ 318\\ 876\\ \end{array}$	$12, 14 \\ 18, 92 \\ 22, 55 \\ 25, 79 \\ 22, 74 \\ 29, 77 \\ 16, 91 \\ 19, 19 \\ 16, 83 \\ 8, 90 \\ \hline 23, 48 \\ 25, 63 \\ 1, 52 \\ 16, 07 \\ \hline $	$\begin{array}{c} 21.\ 00\\ 7\ 8.\ 81\\ 6.\ 94\\ 13.\ 00\\ 14.\ 29\\ 31.\ 01\\ 21.\ 70\\ 17.\ 29\\ \hline 3.\ 83\\ 1.\ 96\\ \hline 11.\ 60\\ 24.\ 19\\ 31.\ 46\\ 5.\ 50\\ \end{array}$	20. 1 13. 7 22. 5 18. 8 17. 9 16. 2 23. 4 29. 2 20. 2 24. 3 25. 6 23. 9 21. 6 29. 6 29. 6 29. 6 29. 6 15. 1 19. 1	$\begin{array}{c} 7.4\\ 5.5\\ 17.5\\ 21.0\\ 9.1\\ 14.3\\ 22.0\\ 31.2\\ 10.2\\ 26.1\\ 1.1\\ 25.2\\ 26.5\\ 45.4\\ 4.7\\ 19.1 \end{array}$	$\begin{array}{c} 7.8\\ 4.6\\ 12.1\\ 11.4\\ 8.6\\ 12.9\\ 15.5\\ 21.3\\ 10.0\\ 15.8\\ 16.0\\ 23.7\\ 15.0\\ 26.3\\ 6.3\\ 11.3 \end{array}$	$\begin{array}{c} 8.5\\ 5.3\\ 14.0\\ 12.1\\ 10.4\\ 17.5\\ 24.7\\ 11.5\\ 20.0\\ 22.1\\ 15.6\\ 27.9\\ 7.6\\ 13.4\end{array}$
							i		PERC	ENT 8									2 5 1		
Colorado Idaho Illinois <sup>8</sup> Indiana Iowa.	100.0 6 100.0 100.0 100.0	96. 8 97. 6 ( <sup>9</sup> ) 95. 6	$ \begin{array}{c} 3.2\\ 2.4\\ (^{9})\\ 4.4 \end{array} $	100. 0 6 100. 0 100. 0 100. 0 100. 0	95. 8 97. 6 96. 2 95. 2 95. 7	4.2 2.4 3.8 4.8 4.3	100. 0 6 100. 0 100. 0 100. 0 6 100. 0	96. 6 96. 2 97. 6 94. 8 95. 6	$\begin{array}{c} 3.4\\ 3.8\\ 2.4\\ 5.2\\ 4.4 \end{array}$	100. 0 <sup>6</sup> 100. 0 100. 0 100. 0 <sup>6</sup> 100. 0	95. 1 96. 2 94. 3 94. 3 95. 6	4.9 3.8 5.7 5.7 4.4	100.0 6 100.0 100.0 100.0 10 100.0	95. 6 94. 8 93. 2 93. 1 94. 9	4.4 5.2 6.8 6.9 5.1		2				

[For sources of information, see appendix]

Kentucky	100.0	98.1	1.9	100.0	98.9	1.1	100.0	98.9	1.1	100.0	98.6	1.4	100.0	98.6	1.4				 	
Maryland	100.0	94.2	5.8	100.0	94.7	5.3	100.0	94.8	5.2	100.0	93.4	6.6	100.0	93.3	6.7					
Massachusetts	100.0	90.7	9.3	100.0	90.7	9.3	100.0	90.5	9.5	100.0	90.5	9.5	100.0	90.3	9.7		Section of the state	and the second second		
Minnesota													6 100.0	91.2	8.8					
New Jersey	100.0	93.0	7.0	100.0	92.9	7.1				100.0	92.5	7.5	100.0	91.5	8.5					
New York	100.0	92.5	7.5	100.0	92.5	7.5	100.0	91.9	8.1	100.0	91.1	8.9	100.0	90.5	9.5				A CONTRACT	
North Carolina_										100.0	93.1	6.9					Jane Barris			
Pennsylvania	100.0	96.4	3.6	100.0	96.1	3.9	100.0	95.8	4.2	100.0	95.7	4.3	100.0	95.0	5.0					
Rhode Island	100.0	87.3	12.7	100.0	87.8	12.2	100.0	87.3	12.7	100.0	87.5	12.5	100.0	87.3	12.7					
South Dakota										11 100. 0	92.4	7.6	100.0	94.6	5.4					
Wisconsin	100.0	96.0	4.0	100.0	96.5	3.5	100.0	96.0	4.0	100.0	95.4	4.6	100.0	94.8	5.2					
	A CONTRACTOR		Section 2.		1	· Jan Barris										Section Press	and the second second			

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<sup>1</sup> For similar information for 1927, 1928, or 1929 from States not reporting injuries classified by sex in period 1930-31, see Women's Bureau Buls. 81 and 102.
<sup>2</sup> U. S. Bureau of the Census. Fifteenth Census, 1930: Population, Occupations, vol. V, p. 57.
<sup>3</sup> Ibid., p. 61.
<sup>4</sup> Ibid. Fourteenth Census, 1920: Population, Occupations, vol. IV, p. 51.
<sup>5</sup> For period covered and injuries tabulated see chart II, facing p. 9.
<sup>6</sup> The numbers reported for a 2-year period have been divided by 2.
<sup>7</sup> Increase.
<sup>8</sup> For this table figures showing compensable cases occurring have been used. The cases closed show an increase for women from 1930 to 1931 of 10.83 percent and a decrease for men of 28.93 percent.
<sup>9</sup> Only closed cases were tabulated by sex for 1927.
<sup>10</sup> Excludes 203 cases reported for 2-year period not classified by sex.
<sup>11</sup> Includes 11 public accidents.

INDUSTRIAL INJURIES TO WOMEN

INDUSTRIAL INJURIES

TO WOMEN

IN

1930 AND





PLATE II. INJURIES TO MEN AND WOMEN, 1929-1931: PERCENT INCREASE OR **DECREASE FROM 1928** 

### INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

considerably in all but 1 State, and there the advance was slight. On the other hand, the number of women's injuries increased in 4 Statesin 1 of them greatly—and in the other 7 the decline was less than in the case of men.

Comparing 1931 statistics with 1929, the prosperous business year, accidents to males decreased in every one of 12 States reporting, while accidents to females actually increased in 4 States, Colorado, Idaho, Illinois, and New York.

These facts may be summed up in this statement: While the trend throughout the period is downward for both males and females, it is less marked for females than for males.

Unemployment figures help to explain this situation. Unemployment has not been proportionately so high in woman-employing industries as in certain heavy industries employing only men, for example, construction, steel, mining. A slighter decrease in exposure to hazards has kept women's accident rates from so consistent a decline.

### Proportion women form of all injured persons

Corresponding to the slighter decrease in number of women's injuries than of men's, there appear for 1931 only 2 States in 14 in which the proportion of accidents that were injuries to women was less than 5 percent, though in 1930 the proportion was less than 5 percent in 7 of the 14 States. Women's accidents formed a slighter highly percentage of all accidents in 1931 than in 1930 in 11 of the 14 States in which such a comparison is possible.

Ranking the States according to the proportion women formed of injured persons in 1931 and in each other year of the 5-year period, there is little variation in their position. Rhode Island, Massachusetts, and New York had the highest proportions in each year. The point to be noted is the relation of this ranking to the proportion women formed of all persons gainfully employed, or those in manufacturing and mechanical industries, in 1930. Giving due consideration to the lack of uniformity of reports there can be no doubt of the validity of the correlation shown.

In Industrial Accidents to Men and Women (Bul 81), covering the years 1920 to 1927, the same tendency was apparent from a comparison of those data with statistics from the census of 1920. Since 1930 census data are available, this comparison for 1927-31 is useful as corroboration. The tendency may be stated simply as follows:

Generally speaking, the proportions of accidents to women in the accidents reported are greater where women constitute more considerable proportions of the gainfully occupied and of those in manufacturing and mechanical industries.

A survey of table 1 shows Rhode Island, Massachusetts, and New York to have the highest proportions of accidents to women in each of the 5 years. These 3 States also had in 1930 the largest proportions of women among those gainfully occupied and, with one exception (North Carolina), among those occupied in manufacturing and mechanical industries.

Probably the basic explanation of the low proportion of women in all accidents in Kentucky, Colorado, and Pennsylvania compared to the percentage women were of the gainfully employed in these States lies in the greater extent of employment of men in hazardous occupations. In Pennsylvania the iron and steel industry and mining con-

stitute the great employers of men, and women are entirely excluded from their most hazardous phases. In Kentucky and Colorado, too, mining is one of the principal hazardous industries, and in the latter State it is one from which women are excluded by law.

Though it has been mentioned in connection with chart II, it may be well to emphasize here that in excluding accidents to household employees from the reports of most States one of the largest groups of employed women is omitted and a considerable number of women's injuries are left out of consideration. Even with this important omission injuries to women are by no means of small importance. In 1931 each of 3 States reported over 4,800 injuries to women and each of 7 States reported 1,500 or more injuries to women. As far as the proportion women's injuries are of the total is concerned, the omission of household employees is offset by the omission of agricultural employees, an important group from the standpoint of men's injuries.

### Extent of disability

As in the earlier studies, death and permanent total disablement form a very small part of all injuries and a smaller part of women's injuries than of men's. Combined they amount to less than 0.5 percent of all injuries to women in each of the 8 States<sup>7</sup> reporting for 1930 or 1931. For men they range from 0.6 percent to 1.8 percent of all injuries.

These percentages may make the problem of deaths in industry seem slighter than is actually the case. Fifty-seven women in the 7 States reporting in 1930, and 53 women in the 8 States in 1931, lost their lives in the course of gainful employment.

While by far the largest group of injuries, both to men and to women, were temporary, a considerable number left some permanent impairment. The fact that New York reported over 1,500 such serious disabilities to women in both years, New Jersey reported over 500 in 1931, and Illinois almost 400 in 1930, almost 500 in 1931, emphasizes the need for analysis of women's injuries and the formulation of a definite program for prevention.

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<sup>7</sup> Pennsylvania included, though only fatal cases reported.

		7			Numb	per 1									Perc	ent 1				
Chata			Male					Female	,				Male	,				Female		
State	Total	Fatal	Per- ma- nent total	Perma- nent partial	Tempo- rary	Total	Fatal	Per- ma- nent total	Perma- nent partial	Tempo- rary	Total	Fatal	Per- ma- nent total	Perma- nent partial	Tempo- rary	Total	Fatal	Per- ma- nent total	Perma- nent partial	Tem- porary
									1930						Arran I					
Idaho Illinois 4 Maryland Massachusetts New Jersey New York Pennsylvania Wisconsin	<sup>2</sup> 7, 544 <sup>5</sup> 44, 000 12, 517 55, 906 25, 525 97, 733 138, 423 19, 143	$\begin{array}{c} 63\\ 683\\ 107\\ 340\\ 339\\ 1, 301\\ 1, 745\\ (^{10})\end{array}$	$ \begin{array}{c c} 1 \\ 38 \\ 1 \\ 7 \\ 12 \\ 50 \\ (^{10}) \\ (^{10}) \end{array} $	$\begin{array}{r} 343\\ {}^612,840\\ 578\\ 1,072\\ ({}^{10})\\ 21,300\\ ({}^{10})\\ 2,164\end{array}$	7, 137 7 30, 439 11, 831 54, 487 (10) 75, 082 (10) (10) (10)	<sup>2</sup> 295 <sup>8</sup> 1, 882 889 5, 835 2, 058 9, 579 6, 256 927	$   \begin{array}{r}     2 \\     2 \\     4 \\     5 \\     27 \\     17 \\     (10)   \end{array} $	1 1 (10) (10)	$9 \\ {}^{6} 383 \\ 34 \\ 107 \\ (^{10}) \\ 1,647 \\ (^{10}) \\ 100 \\ 100 \\$	$286 \\9 1, 497 \\852 \\5, 724 \\(^{10}) \\7, 905 \\(^{10}) \\(^{10}) \\(^{10})$	$\begin{array}{c} {}^2 100. \ 0 \\ {}^5 100. \ 0 \\ 100. \ 0 \\ 100. \ 0 \\ 100. \ 0 \\ 100. \ 0 \\ 100. \ 0 \\ 100. \ 0 \\ 100. \ 0 \end{array}$	$\begin{array}{c} 0.8\\ 1.6\\ .9\\ .6\\ 1.3\\ 1.3\\ 1.3\\ (^{10})\end{array}$		$\begin{array}{c} 4.5\\ 6\ 29.2\\ 4.6\\ 1.9\\ (^{10})\\ 21.8\\ (^{10})\\ 11.3\end{array}$	94. 6 7 69. 2 94. 5 97. 5 $\binom{10}{76.8}$ $\binom{10}{(10)}$	<sup>2</sup> 100. 0 <sup>8</sup> 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0	$\begin{array}{c} 0.1 \\ .2 \\ .1 \\ .2 \\ .3 \\ .3 \\ (^{10}) \end{array}$	0.1 (3) (10) (10)	3.1 <sup>6</sup> 20.4 3.8 1.8 ( <sup>10</sup> ) 17.2 ( <sup>10</sup> ) 10.8	96. 9 9 79. 5 95. 8 98. 1 ( <sup>10</sup> ) 82. 5 ( <sup>10</sup> ) ( <sup>10</sup> )
									1931					1						
Idaho Maryland Massachusetts Minnesota New Jersey New York Pennsylvania Wisconsin	2 5,796 11 31,266 9,705 45,180 212 18,779 21,229 89,033 105,928 16,067	$\begin{array}{c c} 47\\547\\77\\278\\202\\287\\1,143\\1,476\\(^{10})\end{array}$	$ \begin{array}{c c} 3 \\ 31 \\ 3 \\ 5 \\ 16 \\ 64 \\ (10) \\ (10) \end{array} $	277 <sup>6</sup> 9, 165 469 959 1, 393 6, 795 18, 302 ( <sup>10</sup> ) 1, 601	$\begin{array}{c} 5, 469\\ 21, 523\\ 9, 156\\ 43, 938\\ 17, 179\\ 14, 131\\ 69, 524\\ (^{10})\\ (^{10})\end{array}$	<sup>2</sup> 321 2, 087 696 4, 826 <sup>3</sup> 13 1, 795 1, 979 9, 391 5, 530 876	3 4 4 2 34 6 ( <sup>10</sup> )	1 (10) (10)	$9 \\ 6 \\ 474 \\ 35 \\ 72 \\ 79 \\ 504 \\ 1,503 \\ (^{10}) \\ 78 $	$\begin{array}{c} 312\\ 1, 610\\ 661\\ 4, 750\\ 1, 711\\ 1, 473\\ 7, 850\\ (^{10})\\ (^{10})\end{array}$	<sup>2</sup> 100. 0 <sup>11</sup> 100. 0 100. 0 <sup>2</sup> 1 <sup>2</sup> 100, 0 <sup>2</sup> 1 <sup>2</sup> 100, 0 100. 0 100. 0 100. 0	$\begin{array}{c} 0.8\\ 1.7\\ .8\\ .6\\ 1.1\\ 1.4\\ 1.3\\ 1.4\\ (^{10}) \end{array}$	$\begin{array}{c} 0.1\\ .1\\ (^3)\\ (^3)\\ .1\\ .1\\ (^{10})\\ (^{10})\\ \end{array}$	$\begin{array}{c} 4.8\\6\ 29.3\\4.8\\2.1\\7.4\\32.0\\20.6\\(^{10})\\10.0\end{array}$	$\begin{array}{c} 94.\ 4\\ 68.\ 8\\ 94.\ 3\\ 97.\ 3\\ 91.\ 5\\ 66.\ 6\\ 78.\ 1\\ \begin{pmatrix} 10\\ 10\end{pmatrix} \end{pmatrix}$	<sup>2</sup> 100. 0 100. 0 100. 0 <sup>2</sup> 13100. 0 100. 0 100. 0 100. 0 100. 0	$ \begin{array}{c}     0.1 \\     .1 \\     .2 \\     .1 \\     .4 \\     .1 \\     (10) \end{array} $	0. 1 (3) (10) (10)	$\begin{array}{c} 2.8\\ {}^{6}22.7\\ 5.0\\ 1.5\\ 4.4\\ 25.5\\ 16.0\\ (^{10})\\ 8.9\end{array}$	$\begin{array}{c} 97.2\\ 77.1\\ 95.0\\ 98.4\\ 95.3\\ 74.4\\ 83.6\\ (^{10})\\ (^{10})\end{array}$

### TABLE 2.—Distribution of injuries to male and female employees by extent of disability, 1930 and 1931

[For sources of information, see appendix]

<sup>1</sup> For period covered and injuries tabulated see chart II, facing p. 9.
<sup>2</sup> The numbers reported for a 2-year period have been divided by 2.
<sup>3</sup> Less than 0.05 percent.
<sup>4</sup> Closed compensable cases.
<sup>5</sup> 38, with extent of disability not reported, excluded.
<sup>6</sup> Includes disfigurement.
<sup>7</sup> Includes 534 with combinations of some kind of disability.

<sup>8</sup> 1, with extent of disability not reported, excluded.
<sup>9</sup> Includes 17 with combinations of some kind of disability.
<sup>10</sup> Not reported.
<sup>11</sup> 34, with extent of disability not reported, excluded.
<sup>12</sup> Excludes 8,410 nondisabling cases.
<sup>13</sup> Excludes 841 nondisabling cases.

INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

### 18 INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

Six States reported comparable data on permanent partial disabilities, 5 States on temporary disabilities, in both 1930 and 1931, and for 4 of these a comparison with 1929 is possible.

Comparison of these States indicates that severity of injury, especially in the case of men, has not yielded to preventive methods and decrease in exposure to the same extent as has frequency of injury.

In two States, Illinois and Maryland, the percentage of men suffering permanent partial disability increased throughout the 3-year period. In Massachusetts there was a slight decrease in 1930; the percentage in 1931 was higher than in 1930 but lower than in 1929. In New York there was considerable increase in 1930 followed by a decrease in 1931, the 1931 percentage remaining higher than the figure for 1929. Wisconsin, reporting only for 1930 and 1931, shows a decrease in this proportion.

In the case of women's permanent partial injuries, the proportion decreased throughout the 3-year period reported for Massachusetts and the 2 years reported for Wisconsin. In Maryland there was a drop in 1930, but the 1931 percentage was the same as for 1929. In Illinois the proportion decreased in 1930 but increased in 1931. In New York the proportion increased in 1930 and decreased in 1931 but the 1931 proportion was higher than that for 1929.

Table 3 following indicates that in one State at least permanent partial injuries were almost as serious for women as for men from the standpoint of time lost from work.

# **TABLE 3.**—Number of days lost on account of temporary and permanent partial disability cases, by extent of disability and sex—Illinois <sup>1</sup>

Extent of disability	Numbe	er of inju s lost rep	ries with orted	Num	ber of days	s lost	Average	number t per inju	r of days 1ry
	Total	Male	Female	Total	Male	Female	Total	Male	Female
				1930					
Total temporary and permanent partial cases <sup>2</sup>	41, 864	40, 057	1,807	1, 651, 917	) 1, 593, 322	58, 595	39.4	39.8	32. 4
Permanent partial Temporary total Temporary partial	10, 622 31, 165 77	10, 280 29, 707 70	342 1, 458 7	751, 603 898, 328 1, 986	731, 937 859, 472 1, 913	19, 666 38, 856 73	70. 8 28. 8 25. 8	71. 2 28. 9 27. 3	$57.5 \\ 26.7 \\ 10.4$
				1931					
Total temporary and permanent partial cases	32, 772	30, 688	2, 084	1, 270, 967	1, 205, 217	65, 750	38.8	39. 3	31. 5
Permanent partial Temporary total Temporary partial	9, 639 22, 965 168	9, 165 21, 370 153	474 1, 595 15	603, 803 667, 164	578, 793 626, 424	25, 010 40, 740	62. 6 29. 1	63. 2 29. 3	52. 8 25. 5

[For sources of information, see appendix]

<sup>1</sup> Closed compensable cases.

<sup>2</sup> Excludes the group "not otherwise classified", a combination of temporary total and temporary partial cases. There were 499 so classed, 484 men averaging 89 days lost and 15 women averaging 69.8 days lost.

Women lost an average of slightly over 8 weeks per injury in 1930. men about 10 weeks;  $7\frac{1}{2}$  weeks per injury was the average for women in 1931, and 9 weeks for men. Of these permanent injuries in 1930, 11.4 percent of the women's and 6.3 percent of the men's were disfigurements; in 1931 the figures were respectively 11.8 percent and 10.2 percent. In 1930 women lost an average of 28.5 days, men an average of 32.4 days, by the injuries whose permanent effect was disfigurement; in 1931 the average was practically the same for women (28.6 days), but men's average dropped to 16.8 days.

Turning to the most important group of injuries in point of number affected, it should be remembered that the severity of temporary injuries reported varies from State to State. In Idaho, Illinois, New Jersey, New York, and Wisconsin until April 24, 1931, only temporary injuries that disabled for over 1 week are included. Massachusetts, Minnesota, Maryland, Pennsylvania, and Wisconsin since April 24, 1931, have included injuries causing disability varying by State from 1 shift to over 3 days.

Some data as to the actual severity of these injuries in terms of the number of days lost on account of disability have been made available for Illinois, 1930 and 1931 (table 3). In this State the average of days lost per injury is much greater than the minimum required for reporting. For the largest group of injuries to both men and women, the temporary total disabilities, injuries to men were only slightly more severe than those to women. Women averaged 26.7 days lost from work in 1930, 25.5 days in 1931, and men averaged 28.9 days in 1930, 29.3 days in 1931. From this discussion the conclusion may be drawn that while the frequency of injury is much greater for men than for women, differences in severity in other than fatal injuries are slight.

### Nature of injury

Considered by the nature of injury, the differences as between men and women were slight. Cuts and lacerations were the type of injury most common with women and usually next to the most common with men; bruises, contusions, or abrasions generally rank first with men and second with women. For each sex these two groups combined were from about two-fifths to almost one-half of all injuries. In each State more than 10 percent of men's cases were fractures, as were more than 10 percent of women's injuries in one State in 1930. The most striking difference between men's and women's injuries

in this classification is in the proportion of infections. In Illinois in 1930 the proportion of women's injuries that were infections was not far from twice the proportion of men's. In Iowa in both 1930 and 1931 women had about 2% times as high a proportion as men had. In the latter State infections ranked second in women's injuries in both years. This is a type of injury almost completely preventable and one that may have the most serious results. Woman-employing industries might conduct an intensive educational campaign to reduce the number of infections.

Two significant points in connection with infections stated by Dr. Mayers <sup>8</sup> may properly be emphasized here: (1) A small, jagged, and irregular wound is much more dangerous from the standpoint of infection than is a clean-cut one, no matter how large and dangerous looking the latter may be; (2) when the wound is large and the injury is a dramatic one, medical care usually is sought, but workers need educating as to the dangers of infection and the need for early treatment of even minor injuries.

<sup>8</sup>New York. Department of Labor. Industrial Bulletin, June 1932, p. 282. Infection, by May R. Mayers, M. D.

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					Numb	er 1			NAME OF T						Percent	t 1				
			1930	)				193	1				19	30				19	31	
Nature of injury	Illino	ois 2	India	ana	Iow	a <sup>3</sup>	India	ana	İow	a 3	Illin	ois <sup>2</sup>	Indi	ana	Iow	ra <sup>3</sup>	Indi	ana	Iov	va <sup>3</sup>
	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male
Total	44, 038	1, 883	30, 003	1, 815	6, 880	315	21, 264	1, 579	5, 045	270									·	
Not reported and indefinite Potal reported	562 43, 476	33 1, 850	616 29, 387	43 1, 772	6, 880	315	491 20, 773	44 1, 535	5, 045	270	100.0	100. 0	100. 0	100.0	100.00	100.0	100. 0	100.0	100. 0	100. 0
mputation	1,609	66 1	521	15	125	3	388	14	80	4	3.7	3.6	1.8	.8	1.8	1.0	1.9	.9	1.6	1.5
Burn or scald	10, 137 4 2, 094 59	381 4 124 5	$     \begin{array}{r}       6,275 \\       1,599 \\       20 \\       20     \end{array} $	322 127 3	1,457 351 20	$\begin{array}{c} 52\\21\\1\end{array}$	4,295 1,039 15	$\begin{array}{c} 285\\ 106\\ 1\\ \end{array}$	$960 \\ 242 \\ 12$	39 11 1	23.3 44.8 .1	20.6 46.7 .3	21.4 5.4 .1	18.2 7.2 .2	21.2 $5.1$ $.3$	$ \begin{array}{c} 16.5 \\ 6.7 \\ .3 \end{array} $	20.7 5.0 .1	$     \begin{array}{r}       18.6 \\       6.9 \\       .1 \\       5     \end{array} $	19.0 4.8 .2	14.4 4.1 .4
rushing 'ut or laceration Dislocation prowning	8,955 369 6	416 19	381 5,770 ( <sup>6</sup> ) 3	14 486 ( <sup>6</sup> )	<sup>5</sup> 1, 693 48	<sup>5</sup> 99 3		439 ( <sup>6</sup> )	1, 138 61	79 2	20.6 (7)	22.5 1.0	$ \begin{array}{c} 1.3 \\ 19.6 \\ (6) \\ (7) \end{array} $	27.4 (6)	<sup>5</sup> 24. 6 . 7	<sup>5</sup> 31.4 1.0	1. 4 19. 9 ( <sup>6</sup> )	28.6 ( <sup>6</sup> )	$\begin{array}{c} 22.\ 6\\ 1.\ 2\end{array}$	29.3 .7
llectric shock Poreign substance in eye Practure	67 7, 557	2 201	3, 322	87	$\begin{array}{r}24\\342\\804\end{array}$	5 19	2, 253	85	$\begin{array}{r}14\\205\\530\end{array}$	$\begin{array}{c}1\\3\\11\end{array}$	.2	.1 10.9	11. 3	4.9	$     \begin{array}{r}       .3 \\       5.0 \\       11.7 \\       1       1       7       $	$1.6 \\ 6.0$	10.8	5.5	.3 4.1 10.5	.4 1.1 4.1
reezing las fumes nfection flowmation	88 3, 371 600	240			$\begin{vmatrix} 7\\17\\620 \end{vmatrix}$	66			$\begin{array}{c}13\\549\end{array}$	72	.2 7.8 1.4	13.0 1.8			$     \begin{array}{c}             .1 \\             .2 \\             9.0 \\             \end{array}     $	21.0			.3 10.9	26.7
nternal injury Puncture	896 278	61	60	7	10 (8)	( <sup>8</sup> )	37	2	11		2.1	3.3	.2	.4	.1 (8)	.3 ( <sup>8</sup> )	. 2	.1	. 2	
prain or strain Multiple injuries Jot otherwise classified	<sup>9</sup> 6, 932	9 280	<sup>10</sup> 4, 875 6, 561	<sup>10</sup> 217 494	<sup>9</sup> 1, 083 213 66	9 33 5 7	<sup>10</sup> 3, 812 4, 520	<sup>10</sup> 198 397	<sup>9</sup> 934 296	<sup>9</sup> 38 9	<sup>9</sup> 15. 9	<sup>9</sup> 15. 1	<sup>10</sup> 16. 6 22. 3	<sup>10</sup> 12. 2. 27. 9	<sup>9</sup> 15.7 3.1 1.0	<sup>9</sup> 10.5 1.6 2.2	<sup>10</sup> 18.4 21.8	<sup>10</sup> 12.9 25.9	9 18. 5 5. 9	<sup>9</sup> 14. 1 3. 3

## TABLE 4.—Distribution of injuries to male and female employees by nature of injury, 1930 and 1931

[For sources of information, see appendix]

For period covered and injuries tabulated see chart II, facing p. 9.
 Closed compensable cases.
 Some classifying done by Women's Bureau. The numbers reported for a 2-year period have been divided by 2.
 Includes blisters not otherwise classified.
 Includes punctures.

<sup>6</sup> Included in sprain or strain.
<sup>7</sup> Less than 0.05 percent.
<sup>8</sup> Included in cut or laceration.
<sup>9</sup> Includes cases of hernia.
<sup>10</sup> Includes dislocations and cases of hernia.

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INDUSTRIAL INJURIES TO

WOMEN

H

1930 AND 1931

Sewing-machine needle injuries are a kind of punctured wound that in many cases becomes infected, and there are thousands of such injuries.<sup>9</sup> There were 912 sewing-machine needle injuries compensated in New York State in 1931—45 percent of all injuries in the textile industries of the State. They cost in compensation \$64,350. An average of about 40 needle injuries a day are reported in New York City alone. These amount to about 12,000 injuries in 1 year and about 20 percent are infected. Most of the injuries do not involve a loss of time of more than a week, so they are not compensated, but each one is a potential infection hazard.

Another large group of injuries to both men and women are sprains and strains. This class constituted over 15 percent of men's injuries and over 10 percent of women's injuries in both years.

### Location of injury

Illinois for 1930 and Indiana for 1930 and 1931 give a more detailed analysis showing, by nature of injury, the part of the body injured. This is shown in tables 5 and 6, which include percentage distribution according to nature and to location. About 60 percent of women's injuries in each State were to the upper extremities. This was also the principal part of the body affected in men's injuries but in a less proportion (about 40 percent) of all men's injuries. Lower extremities were second in rank, being involved in over one-fifth of women's injuries and about three-tenths of men's. Injuries to the trunk were twice as common among men's injuries as among women's. In Illinois the largest proportion of the injuries to upper extremities was cuts or lacerations, infections ranking second with women and fractures with men. Contusions ranked second with both men and women in Indiana.

<sup>9</sup> Ibid., p. 283. Needle Accidents in the Clothing Trades, by Robert B. Northrup.

# TABLE 5.—Nature and location of injuries to male and female employees, Illinois,<sup>1</sup> 1930

[For source of information, see appendix]

								L	ocation	of injur	У							2.2
Nature of injury	Total r	umber	Not re	ported	Total re	eported	Head other class	l (not rwise ified)	Face ne	and ck	Tr	unk	Uppe trem	er ex- ities	Low tren	er ex- nities	Othe not sif	r and clas- ied
	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male
		1.100				NUN	ABER					4						10 H
Total	39, 928	2,408	193	8	39, 735	2, 400	2, 376	112	1, 277	59	6, 924	221	16, 573	1,400	11, 530	565	1, 055	43
Not reported Total reported	720 39, 208	61 2, 347	$\begin{array}{c} 170\\23\end{array}$	7 1	550 39, 185	54 2, 346	103 2, 273	10 102	12 1, 265	59	134 6, 790	$\begin{array}{r}12\\209\end{array}$	$\begin{array}{r}142\\16,431\end{array}$	19 1, 381	143 11, 387	$\begin{array}{c}13\\552\end{array}$	16 1, 039	43
Amputation or enucleation Asphyxiation (except drowning)	1, 227 27	87 2			1, 227 27	87 2	39				$\frac{2}{4}$		1, 106	87	80		23	2
Bruise, contusion, or abrasion Burn or scald	$8,953 \\ 1,904 \\ 61 \\ 61$		5	1	8, 948 1, 904 61	6 457 144 9		29 9	1 136 188	12 11	$\begin{array}{c} 1,788\\ 35\\ 3\end{array}$	92 5	$     \begin{array}{r}       15 \\       2,533 \\       713 \\       1     \end{array} $	6 150 88	5 3, 768 581	157 31	$\begin{array}{c} 239\\ 240\\ 1\end{array}$	17 9
Crushing Cut or laceration Dislocation Drowning	$     \begin{array}{r}       106 \\       8,030 \\       319 \\       5     \end{array}   $	$540\\26$	$\frac{1}{2}$		$     \begin{array}{r}       105 \\       8,028 \\       319 \\       5     \end{array}   $	540 $26$	17 821	36	765	26	$35 \\ 140 \\ 31$	2 4	5, 184 206	426 18	1,040 82	46 4	53 78	4
Electric shock Fracture Freezing Infection (septia)	57 7, 200 64	2 293	1 1		56 7, 199 64	2 293	$\begin{array}{c}2\\218\\1\end{array}$	6	98 1	4	$2 \\ 923 \\ 1$	24	2 2, 830 45	177	$\begin{array}{r} & 1\\ 3,080\\ 15\end{array}$	82	49 50 1	2
Inflammation Puncture Sickness (general)	3, 126 518 781 282	$\begin{array}{r} 322\\ 42\\ 65\\ 4\end{array}$	2 3 1		3, 124 515 781 281	322 42 65	$     \begin{array}{r}       142 \\       265 \\       45 \\       1     \end{array} $	5 11 1	33 8 5	2 1	33 38 30	3	2,366 116 299	280 20 53	$538 \\ 75 \\ 402 \\ 0$	32 8 11	12 13	2
Sprain or strain (including hernia) Not otherwise classified	6, 290 237	329 18	4 3		6, 286 234	329 18	35	5	20 10	3	3, 628 75	74 5	$968 \\ 46$	742	1, 663 55	175 5	255 7 13	3 1

### PERCENT DISTRIBUTION BY NATURE OF INJURY

	 	, ,					In the contract of the	Constant of the local division of the local		and and a second second		100 - 100 March		The sold the	Institute a state	
Total reported	 		100.0	100.0	100.0	100.0	100.0	100. 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	(2)
Amputation or enucleation	 		3.1	3.7	1.7				(3)		6.7	6.3	.7		2.2	
Asphyxiation (except drowning) Blister, not otherwise classified Bruise, contusion, or abrasion	   		$\begin{array}{c} & 1 \\ & 1 \\ 22.8 \end{array}$	.3 19.5	21.3	28.4	.1 10.8	20.3	26.3	44.0	.1 15.4	.4	$\binom{(3)}{33.1}$	28.4	23.0	
Burn or scald Concussion	 		4.9	6.2 .4	6.5 2.5	8.8	14.9	18.0	(3)		(3)	0.4			.1	
Crushing Cut or laceration Dislocation	 		20.5	$23.0 \\ 1.1$	36.1	35.3	60.5	44.1	2.1	1.0 $1.9$	$\begin{array}{c} 31.\ 6\\ 1.\ 3\end{array}$	30. 8 1. 3	9.1 .7	8.3 .7	7.5	
Drowning Electric shock Fracture	 		.1 18.4	.1 12.5	.1 9.6 (3)	5.9	7.7	6.8	(3) 13.6 (3)	11.5	(3) 17.2 .3	12.8	(3) 27.0 .1	14.9	4.7 4.8 .1	
Freezing Infection (septic) Inflammation Puncture	 		$ \begin{array}{c c} 8.0 \\ 1.3 \\ 2.0 \\ 7 \end{array} $	$     \begin{array}{r}       13.7 \\       1.8 \\       2.8 \\       2     \end{array} $	$ \begin{array}{c c} 6.2 \\ 11.7 \\ 2.0 \\ (3) \end{array} $	4.9 10.8 1.0	2. 6 . 6 . 4	3.4 1.7	.5	1.4	14.4 .7 1.8 (3)	$20.3 \\ 1.4 \\ 3.8$	$ \begin{array}{c c} 4.7 \\ .7 \\ 3.5 \\ (3) \end{array} $	5.8 1.4 2.0	1.2 1.3 24.5	
Sickness (general) Sprain or strain (including hernia) Not otherwise classified	 		16.0 .6	14.0 .8	1.5	4.9	1.6	5.1	53.4	34. 5 2. 4	5.9	5.4	14.6	31.7	.7 1.3	 
- 3411 (11) - 14	PERCE	NT DI	STRIBU	UTION	BYL	OCAT	ION O	F INJU	JRY		111			100		
Total reported	 		100.0	100.0	5.8	4.3	3.2	2.5	17.3	8.9	41.9	58.9	29.1	23.5	2.7	1.8
Amputation or enucleation	 		100.0	100.0	3.2				.2		90.1	100.0	6.5			
Blister, not otherwise classified	 		(2) 100.0	(2) 100.0	5.4	6.3	1.5	2.6	20.0	20.1	28.3	32.8	42.1	34.4	2.7	3.7

INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

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Burn or scald				 100.0	100.0	7.7		9.9	7.6	1.8	3.5	37.4	61.1	30.5	21.5	12.6	6.2	-
Concussion				 100.0	(2)	91.8				4.9		1.0				50.5		6
Crushing				 100.0	100.0	16.2	67			33. 3		64 6	78.9	13.0	8.5	1.0	.7	30
Cut or laceration			0000005	 100.0	(2)	10. 2	0.7	9.0	1.0	9.7		64.6		25.7				0
Dislocation				 (2)	()													A
Drowning				 100.0	(2)	3.6				3.6		3.6		1.8		87.5		Z
Fracture	<u></u>			 100.0	100.0	3.0	2.0	1.4	1.4	12.8	8.2	39.3	60.4	42.8	28.0	16		P
Freezing				 100.0		1.6		1.6	6	1.0	0	70.3	87.0	17 2	99	1.0		-
Infection (septic)				 100.0	100.0	4.0	1.0	1.1	.0	$\frac{1.1}{74}$	. 0	22.5	01.0	14.6		2.5		9
Inflammation				 100.0	100 0	5.8	1.5	1.0		3.8		38.3	81.5	51.5	16.9			0
Puncture				 100.0	(2)	.4				7.8		.4		.7		90.7		
Sprain or strain (including hernia)				 100.0	100.0			.3	.9	57.7	22.5	15.4	22.5	26.5	53.2	.1	. 9	
Not otherwise classified				 100.0	(2)	15.0		4.3		32.1		19.7		25.0		0.0		
		and the second of					Sandar and the	1 Carlos and	1 States and				1					h.

<sup>1</sup> Compensable cases occurring.

<sup>2</sup> Not computed; base less than 50.

<sup>3</sup> Less than 0.05 percent.

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INDUSTRIAL INJURIES TO WOMEN IN

# TABLE 6.—Nature and location of injuries to male and female employees, Indiana, 1930 and 1931

							Location	of injury					10	
Nature of injury	To repo	tal rted	H	ead	Face a	nd neck	Tru	ınk	Up extre	per mities	Lo <sup>.</sup> extre	wer mities	Not ot	herwise sified
iejowejsa Ni oz jaowejsa	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	' Male	Female
				NUM	BER 1 II	N 1930	6 N I							
Total	29, 999	1, 815	2, 951	106	783	25	5, 059	152	11, 738	1, 090	8, 849	399	619	43
Not reported Fotal reported	612 29, 387	43 1, 772	2, 951	106	783	25	5, 059	152	11, 738	1,090	8, 849	399	612 7	43
Amputation Burn and scald Concussion	$521 \\ 1, 599 \\ 20$	$\begin{array}{r}15\\127\\3\end{array}$	233 20	53	249	11	84	3	478 609	14 79	43 422	1 29	2	
Contusions Drushing Duts and lacerations	6, 275 381 5, 770	$\begin{array}{c} 322\\14\\486\end{array}$	$163 \\ 7 \\ 629$	10 	$74\\1\\250$	2 7	$\begin{array}{r} 642\\ 40\\ 43\end{array}$	35 1	2, 494 220 4, 069	$175\\13\\407$	2, 901 113 779	$100 \\ 1 \\ 43$	1	
hernia) Fracture Not otherwise classified	<sup>2</sup> 4, 875 3, 322 3 6, 624	<sup>2</sup> 217 87 3 501	68 1, 831	60	32 72 105	1 4	<sup>2</sup> 2, 713 550 3 987	<sup>2</sup> 44 15 3 54	860 1, 246 1, 762	77 48 277	1, 270 1, 386 1, 935	95 24 106	4	

[For sources of information, see appendix]

# INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

### PERCENT DISTRIBUTION 1 BY NATURE OF INJURY IN 1930

	di se a se	Shire and the second						1				Charles you want	and a second second	
Total reported	100.0	100.0	100. 0	100. 0	100. 0	(4)	100. 0	100.0	100. 0	100. 0	100. 0	100. 0	(4)	(4)
Amputation	1.8	. 8 7. 2	7.9	4.7	31.8		1.7	2.0	4.1 5.2	$1.3 \\ 7.2$	.5 4.8	. 3 7. 3		
Concussions	.1 21, 4 1 3	$\begin{array}{r} 2\\ 18.2\\ 8\end{array}$	.7 5.5 2	2.8 9.4	9.5 .1		12.7	23.0	21.3 1.9	16. 1 1. 2	32.8 1.3	25. 1 . 3		
Cuts and lacerations. Dislocations, sprains, strains (including	19.6	27.4	21, 3	26.4	31.9		.8 253.6	.7 228.9	34.7 7.3	37. 3 7. 1	8.8 14.4	10. 8 23. 8		
hernia) Fracture Not otherwise classified	<sup>2</sup> 10. 0 11. 3 3 22. 5	4.9 3 28.3	$\begin{array}{c} 2.3\\ 62.0\end{array}$	56.6	9. 2 13. 4		10. 9 3 19. 5	9.9 3 35.5	10. 6 15. 0	4. 4 25. 4	15.7 21.9	$     \begin{array}{r}       6.0 \\       26.6     \end{array} $		
	PER	CENT I		UTION	BY LO	CATION	OF INJ	URY IN	1930 39.9	61.5	30.1	22.5	(5)	
Total reported	100.0	100.0	10.0	0.0	2.1				91.7		8.3			
Amputation Burn and scald	100.0 100.0	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	14.6	3.9	15.6	8.7	5.3	2.4	38.1	62.2	26.4	22.8	0.1	
Concussion Contusions	100. 0	100.0	2.6 1.8	3.1	1.2 .3	.6	$   \begin{array}{r}     10.2 \\     10.5   \end{array} $	10.9	39.7 57.7	54.3	46. 2 29. 7	31.1	(5)	
Cuts and lacerations Dislocations, sprains, strains (including	100.0	100.0	10.9	5.8	4.3	1.4	2 55 7	2 20.3	17.6	35, 5	26, 1	43.8		
hernia) Fracture	<sup>2</sup> 100. 0 100. 0 3 100. 0	<sup>2</sup> 100. 0 100. 0 3 100. 0	2.0 27.6	12.0	2.2 1.6		16. 6 3 14. 9	17.2 3 10.8	37.5 26.6	55. 2 55. 3	41. 7 29. 2	27.6 21.2	.1	

INDUSTRIAL INJURIES TO WOMEN IN



							Location	of injury						
Nature of injury	To	otal orted	H	ead	Face a	nd neck	Tri	unk	UI extre	oper mities	Lo extre:	wer mities	Not ot class	herwise sified
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
				NUM	BER 1 II	N 1931				<u>,                                     </u>		, I		
Total	21, 264	1, 579	1, 936	96	542	25	3, 960	144	8, 348	919	5, 975	348	503	47
Not reported Total reported	491 20, 773	44 1, 535	1, 936		542	25	3, 960	144	8, 348	919	5, 975	348	491	44
Amputation Burn and scald Concussion	388 1,039 15	14 106	141	8	160	9	54	4	362 415	14 63	26 266	21	3	
Contusions Crushing Cuts and lacerations	$\begin{array}{r} 4,295\\290\\4,124\end{array}$	285 8 439	132 132 4 430	10	·38 2 188	2	500 34 22	39	1, 741 171	141 7	1, 881 79	92 1	3	1
Dislocations, sprains, strains, (including hernia) Fracture	3, 812 2, 253	198 85			100 24	4 1	23	47	2, 963 602	371 54	520 953	40 96		
Not otherwise classified	6 4, 557	6 399	1, 166	49	57 73	2 7	6 735	6 41	812 1, 282	45 224	951 1, 299	21 77	4 2	1

# TABLE 6.—Nature and location of injuries to male and female employees, Indiana, 1930 and 1931—Continued

PERCENT DISTRIBUTION 1 BY NATURE OF INJURY IN 1931

			and the second second	and the part of the second second	and the second s									
Total reported	100. 0	100. 0	100. 0	100. 0	100. 0	(4)	100.0	100. 0	100. 0	100.0	100.0	100.0	(4)	(4)
Amputation Burn and scald Concussion	1.9 5.0 .1	.9 6.9 .1	7.3	8.3 1.0	29.5		1.4	2.8	4. 3 5. 0	1.5 6.9	.4 4.5	6.0		
Contusions Crushing Cuts and lacerations	20.7 1.4 19.9	18.6 .5 28.6	6.8 .2 22.2	10. 4 25. 0	7.0 .4 34.7		12.6 .9 .6	27.1	20. 9 2. 0 35. 5	15.3 .8 40.4	31.5 1.3 8.7	26.4 .3 11.5		
Fracture Not otherwise classified	18.4 10.8 6 21.9	12.9 5.5 6 26.0	2.5 60.2	4.2 51.0	4.4 10.5 13.5		56.4 9.6 6 18.6	32.6 9.0 6 28.5	7.2 9.7 15.4	5.9 4.9 24.4	15.9 15.9 21.7	27.6 6.0 22.1		
Total reported	PER	CENT I	DISTRIB	UTION 1	BY LO	CATION	OF INJ	URY IN	1931					
A montation	100.0	100.0	9.3	6.3	2.6	1.6	19.1	9.4	40. 2	59.9	28.8	22.7	0.1	0.2
Burn and scald	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	100. 0 (4)	13. 6	7.5	15.4	8.5	5. 2	3.8	93. 3 39. 9	59.4	$     \begin{array}{c}       6.7 \\       25.6     \end{array} $	19.8	.3	. 9
Contustons Crushing Cuts and lacerations	100.0 100.0	100.0 (4) 100.0	3.1 1.4	3.5	.9	.7	11.6 11.7	13.7	40. 5 59. 0	49.5	43.8 27.2	32, 3	.1	. 4
Dislocations, sprains, strains (including hernia)	100.0	100.0	10. 4	0.0	4.0	.9	.6	23.7	71.8	84.5	12.6	9.1		
Fracture Not otherwise classified	100. 0 6 100. 0	100. 0 6 100. 0	$\begin{array}{c} 2.1\\ 25.6\end{array}$	4.7 12.3	2.5 1.6	2.4 1.8	16.9 6 16.1	15.3 6 10.3	36. 0 28. 1	52.9 56.1	42. 2 28. 5	48. 5 24. 7 19. 3	.2	

INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

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For period covered and injuries tabulated, see chart II facing p. 9.
 Includes 645 male and 7 female "hernias."
 Includes 60 male and 7 female internal injuries and 3 male drownings.
 Not computed; base less than 50.
 Less than 0.05 percent.
 Includes 37 male and 2 female internal injuries.

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Considered by principal type of injury, it will be noted that over three-fourths of cuts and lacerations suffered by women in Illinois, over four-fifths in Indiana, and about two-thirds of those by men in each State, were to the upper extremities. The largest proportion of bruises, contusions, or abrasions affected the lower extremities, except for women in Indiana, where upper extremities ranked first. Upper extremities received high proportions for both men and women in other cases, too. Of infections among women in Illinois, not far from nine-tenths were of injuries to the hands, arms, or fingers.

Though complete data as to nature or location of injury have not been available for New York State, a special analysis of back injuries among women was made for 1930.<sup>10</sup> During the 12 months ended June 30, 1930, there were 7,683 persons compensated for back injuries in this State. Of these, 428 were to women, 5.6 percent of all women's compensated injuries. These do not include fractures and dislocated vertebrae resulting from very serious accidents. Most of them were strains, bruises, or lacerations. None of the women died or were permanently disabled. Notwithstanding the fact that they were the common back injuries, the average length of disability for women was 8.4 weeks.

About 70 percent of these women were injured by falls-on stairs and steps, from elevations such as chairs, boxes, and ladders, or on level surfaces. Many falls on stairs were attributed to shoe heels catching on stair treads. Though the reports were not complete on this point, a number of restaurant workers gave slipping on wet floors as the cause of injury.

About one-sixth of the 428 women suffered strains from handling heavy objects. In 8 of the 72 cases disability lasted from 7 to 13 weeks. Nine other workers were even more seriously injured. In two instances the combined total disability amounted to 2351/3 weeks. The analysis concluded that women should be warned against the strain of lifting something not ordinarily handled by them.

Over half of these back injuries were to employees in clerical and personal service. Hotels and clubs had the largest number of injured. Most of these were waitresses, maids, cooks, cleaners, and helpers. Those employed in the care of apartments and offices were the next largest group. Almost all these were janitresses, cleaners, and maids. Clerical service-principally telephone operators and clerks-had 42 back injuries, the most frequent cause being falls on stairs.

Over one-fourth of women's back injuries occurred in manufacturing, the largest number in any single industry being in the manufacture of clothing. The group of industries making metal products and machinery ranked second, a considerable number of injuries being caused by lifting heavy material.

Commercial industries reported 70 back injuries. Saleswomen were the principal group affected.

These back injuries occurred to a somewhat older group than did compensated injuries in New York in general. The largest number of back injuries were to persons of 25 to 29 years, whereas total injuries were most numerous to those of 20 to 24.

10 New York. Department of Labor. Industrial Bulletin, April 1931, pp. 222 and 224.

### INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

### DATA AS TO INJURED PERSONS

### Age

In 1930 and 1931, as in earlier years, the most striking difference between men's and women's injuries is the age of the victims. In each of the 6 States reporting this in 1930 and the 7 in 1931 (shown in table 7), the largest group of women were 16 to 20 years old. In no State were the men of such ages a large proportion. Though a larger proportion of all employed women than of all employed men are in this age group, there is evidence to show that youth and its characteristic inexperience are factors in accident frequency.

	Illi	nois 1	Indi	ana	Mar	yland	Massac	husetts	New	Jersey	New	York	Rhode	Island	Wisc	onsin
Age	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
						NUM	BER 2 I	N 1930								
Total	44, 038	1, 883	30, 003	1, 815	12, 517	889	55, 906	5, 835	25, 525	2, 058	97, 733	9, 579	3, 281	467	19, 143	927
Total reported	43, 490	1, 855	29, 540	1, 774	12, 213	856	55, 906	5, 835	25, 525	2,058	90, 197	8,654	3, 218	464	18, 784	903
Under 16 years	69 3, 237 5 4, 878 5 6, 065 5 6, 000 5 6, 183 5 5, 525 5 4, 478 5 7, 055	$ \begin{array}{r} 3\\ 440\\ ^{5} 290\\ ^{5} 239\\ ^{5} 209\\ ^{5} 234\\ ^{5} 175\\ ^{5} 105\\ ^{5} 160\\ \end{array} $	4 1, 885 4 9, 765 4 7, 617 4 5, 668 4 4, 605	4 350 4 674 4 363 4 237 4 150	40 1, 396 2, 126 1, 979 1, 565 1, 497 1, 156 939 1, 515	$\begin{array}{c} 26\\ 261\\ 142\\ 112\\ 94\\ 69\\ 67\\ 36\\ 49\\ \end{array}$	413 6, 168 9, 084 7, 924 7, 183 7, 189 5, 272 4, 529 8, 144	85 1, 344 1, 149 712 668 591 481 373 432	89 2, 199 6 23, 237	32 458 6 1, 568	207 7, 767 13, 809 13, 882 12, 515 12, 717 9, 697 7, 802 11, 801	60 1, 954 1, 556 1, 194 940 982 672 591 705	15 459 454 426 412 372 319 254 507	$5 \\ 145 \\ 89 \\ 45 \\ 47 \\ 40 \\ 30 \\ 28 \\ 35$	<sup>3</sup> 238 <sup>3</sup> 2, 728 <sup>3</sup> 2, 728 <sup>3</sup> 2, 838 <sup>3</sup> 2, 426 <sup>3</sup> 2, 200 <sup>3</sup> 2, 233 <sup>3</sup> 1, 821 <sup>3</sup> 1, 511 <sup>3</sup> 2, 789	<sup>3</sup> 34 <sup>3</sup> 258 <sup>3</sup> 143 <sup>3</sup> 75 <sup>3</sup> 86 <sup>3</sup> 94 <sup>3</sup> 66 <sup>3</sup> 52 <sup>3</sup> 95
						PERC	ENT 2 I	N 1930								
Fotal reported	100. 0	100.0	100. 0	100. 0	100. 0	100.0	100. 0	100. 0	100. 0	100. 0	100. 0	100. 0	100. 0	100. 0	100. 0	100.0
Jnder 16 years         6 to 20 years         10 to 25 years         16 to 30 years         16 to 35 years         16 to 45 years         16 to 50 years         16 to 50 years         19 years and over	$\begin{array}{c} & .2 \\ & 7.4 \\ {}^{5}11.2 \\ {}^{5}13.9 \\ {}^{5}13.8 \\ {}^{5}14.2 \\ {}^{5}12.7 \\ {}^{5}10.3 \\ {}^{5}16.2 \end{array}$	$\begin{array}{c} & 2\\ 23.7\\ {}^{5}15.6\\ {}^{5}12.9\\ {}^{5}11.3\\ {}^{5}12.6\\ {}^{5}9.4\\ {}^{5}5.7\\ {}^{5}8.6\end{array}$	4 6. 4 4 33. 1 4 25. 8 4 19. 2 4 15. 6	4 19.7 4 38.0 4 20.5 4 13.4 4 8.5	$\begin{array}{r} .3\\ 11.4\\ 17.4\\ 16.2\\ 12.8\\ 12.3\\ 9.5\\ 7.7\\ 12.4 \end{array}$	$\begin{array}{r} 3.0\\ 30.5\\ 16.6\\ 13.1\\ 11.0\\ 8.1\\ 7.8\\ 4.2\\ 5.7 \end{array}$	$\begin{array}{r} .7\\ 11.0\\ 16.2\\ 14.2\\ 12.8\\ 12.9\\ 9.4\\ 8.1\\ 14.6\end{array}$	$\begin{array}{c} 1.5\\ 23.0\\ 19.7\\ 12.2\\ 11.4\\ 10.1\\ 8.2\\ 6.4\\ 7.4 \end{array}$	.3 8.6 691.0	1. 6 22. 3 6 76. 2	$\begin{array}{r} .2\\ 8.6\\ 15.3\\ 15.4\\ 13.9\\ 14.1\\ 10.8\\ 8.6\\ 13.1\end{array}$	$\begin{array}{r} .7\\ 22.\ 6\\ 18.\ 0\\ 13.\ 8\\ 10.\ 9\\ 11.\ 3\\ 7.\ 8\\ 6.\ 8\\ 8.\ 1\end{array}$	$\begin{array}{r} .5\\ 14.3\\ 14.1\\ 13.2\\ 12.8\\ 11.6\\ 9.9\\ 7.9\\ 15.8\end{array}$	$\begin{array}{c} 1.1\\ 31.2\\ 19.2\\ 9.7\\ 10.1\\ 8.6\\ 6.5\\ 6.0\\ 7.5\\ \end{array}$	<sup>3</sup> 1. 3 <sup>3</sup> 14. 5 <sup>3</sup> 15. 1 <sup>3</sup> 12. 9 <sup>3</sup> 11. 7 <sup>3</sup> 11. 9 <sup>3</sup> 9. 7 <sup>3</sup> 8. 0 <sup>3</sup> 14. 8	<sup>3</sup> 3. 8 <sup>3</sup> 28. 6 <sup>3</sup> 15. 8 <sup>3</sup> 8. 3 <sup>3</sup> 9. 5 <sup>3</sup> 10. 4 <sup>3</sup> 7. 3 <sup>3</sup> 5. 8 <sup>3</sup> 10. 5

### TABLE 7.—Distribution of injuries to male and female employees by age of injured, 1930 and 1931 [For sources of information, see appendix]

	Illin	ois 1	Ind	iana	Mar	yland	Massac	husetts	Minr	nesota	New	Jersey	New	York	Rhode	Island	Wisc	onsin
Age	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	31, 300	2,087	21, 264	1, 579	9, 705	696	45, 180	4, 826	7 27,189	7 2, 636	21, 229	1, 979	89, 033	9, 391	2, 440	354	16, 067	876
Total reported	31,074	2,069	21,022	1, 552	9, 466	671	45, 180	4,826	24, 718	2, 308	19,040	1, 781	82, 053	8, 426	2, 356	343	15, 745	854
Under 16 years	45 1,827 <sup>5</sup> 3,302 <sup>5</sup> 4,243 <sup>5</sup> 4,243 <sup>5</sup> 4,328 <sup>5</sup> 4,328 <sup>5</sup> 4,727 <sup>5</sup> 4,078 <sup>5</sup> 3,293 <sup>5</sup> 5,231	$\begin{array}{c} 3 \\ 475 \\ {}^{5} 301 \\ {}^{5} 292 \\ {}^{5} 242 \\ {}^{5} 267 \\ {}^{5} 182 \\ {}^{5} 125 \\ {}^{5} 182 \end{array}$	4 1, 011 4 6, 760 4 5, 561 4 4, 321 4 3, 369	4 266 4 585 4 338 4 224 4 139	29 940 1, 640 1, 498 1, 313 1, 191 890 724 1, 241	$ \begin{array}{c} 12\\ 186\\ 124\\ 80\\ 64\\ 72\\ 44\\ 36\\ 53\\ \end{array} $	$\begin{array}{c} 176\\ 4,352\\ 7,127\\ 6,726\\ 5,926\\ 5,831\\ 4,676\\ 3,773\\ 6,593\\ \end{array}$	$\begin{array}{r} 35\\ 1,160\\ 996\\ 606\\ 498\\ 551\\ 350\\ 285\\ 345\\ \end{array}$	44 2, 199 4, 402 4, 082 3, 472 3, 283 2, 444 1, 839 2, 953	$\begin{array}{c} 1 \\ 574 \\ 567 \\ 324 \\ 227 \\ 215 \\ 155 \\ 115 \\ 130 \end{array}$	$\begin{array}{c} 59\\ 1, 661\\ {}^{5}2, 154\\ {}^{5}2, 666\\ {}^{5}2, 758\\ {}^{5}2, 762\\ {}^{5}2, 330\\ {}^{5}1, 784\\ {}^{5}2, 866\\ \end{array}$	7 475 5279 5195 5178 5183 5183 5136 5132 5196	$\begin{array}{c} 115\\ 6,367\\ 12,485\\ 12,859\\ 11,736\\ 11,790\\ 9,004\\ 7,189\\ 10,508\\ \end{array}$	$\begin{array}{r} 29\\ 1,718\\ 1,603\\ 1,113\\ 877\\ 968\\ 712\\ 632\\ 774\\ \end{array}$	6 273 331 296 304 294 247 219 386	2 98 69 46 40 37 20 111 20	<sup>3</sup> 149 <sup>3</sup> 2, 014 <sup>3</sup> 2, 443 <sup>3</sup> 2, 166 <sup>3</sup> 1, 991 <sup>3</sup> 1, 950 <sup>3</sup> 1, 597 <sup>3</sup> 1, 317 <sup>3</sup> 2, 118	<sup>3</sup> 25 <sup>3</sup> 242 <sup>3</sup> 136 <sup>3</sup> 95 <sup>3</sup> 85 <sup>3</sup> 87 <sup>3</sup> 75 <sup>3</sup> 46 <sup>3</sup> 63
							PERC	ENT 2 I	N 1931									2 3
Total reported	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	7 100. 0	7 100. 0	100. 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 16 years 16 to 20 years 21 to 25 years 26 to 30 years 31 to 35 years	$ \begin{array}{c}         .1 \\         5.9 \\         ^{5}10.6 \\         ^{5}13.7 \\         ^{5}13.9 \\     \end{array} $	$\begin{array}{c} .1\\ 23.0\\ {}^{5}14.5\\ {}^{5}14.1\\ {}^{5}11.7\end{array}$	4 4.8	4 17. 1 4 37. 7		$ \begin{array}{c} 1.8\\ 27.7\\ 18.5\\ 11.9\\ 9.5 \end{array} $	$ \begin{array}{r} .4\\ 9.6\\ 15.8\\ 14.9\\ 13.1\\ \end{array} $	$\begin{array}{r} .7\\ 24.0\\ 20.6\\ 12.6\\ 10.3\end{array}$	$ \begin{array}{r} .2\\ 8.9\\ 17.8\\ 16.5\\ 14.0\\ \end{array} $	$ \begin{array}{c} (^8)\\ 24.9\\ 24.6\\ 14.0\\ 9.8\\ 0 \end{array} $	.3 8.7 5 11.3 5 14.0 5 14.5	$\begin{array}{c} .4\\ 26.7\\ $^{5}15.7\\ $^{5}10.9\\ $^{5}10.0\\ $^{5}$	.1 7.8 15.2 15.7 14.3	$ \begin{array}{c c} .3\\ 20.4\\ 19.0\\ 13.2\\ 10.4\\ 11.5\\ \end{array} $	$ \begin{array}{c c} .3\\ 11.6\\ 14.0\\ 12.6\\ 12.9\\ 12.5 \end{array} $	$     \begin{array}{r}         .6 \\         28.6 \\         20.1 \\         13.4 \\         11.7 \\         10.8 \\         \end{array} $	<sup>3</sup> .9 <sup>3</sup> 12.8 <sup>3</sup> 15.5 <sup>3</sup> 13.8 <sup>3</sup> 12.6 <sup>3</sup> 12.4	32.9 328.3 315.9 311.1 310.0 310.2

NUMBER 2 IN 1931

INDUSTRIAL INJURIES TO WOMEN IN

1931

31

30

51 years and over	<sup>5</sup> 16. 8	\$ 8. 8	4 16.0	4 9.0	13. 1	. 1.9	14.0	""	11. 9	0.0	10.1	11.0	,						AND
41 to 45 years 46 to 50 years	<sup>5</sup> 13. 1 <sup>5</sup> 10. 6	<sup>5</sup> 8.8 <sup>5</sup> 6.0	4 20.6	4 14.4	9.4 7.6	$\begin{array}{c c} 6.6 \\ 5.4 \\ 7.0 \end{array}$	10.3 8.4	7.3	9.9 7.4	5.0 5.6	<sup>o</sup> 12. 2 <sup>b</sup> 9. 4 <sup>b</sup> 15 1	57.4 511.0	8.8 12.8	7.5 9.2	9.3 16.4	3.2 5.8	<sup>3</sup> 8.4 <sup>3</sup> 13.5	<sup>3</sup> 5. 4 <sup>3</sup> 7. 4	)30
31 to 35 years 36 to 40 years	<sup>5</sup> 13.9 <sup>5</sup> 15.2	<sup>5</sup> 11.7 <sup>5</sup> 12.9	4 26.5	4 21.8	13.9 $12.6$	9.5 10.7	13. 1 12. 9	10.3	14.0	9.8	5 14.5	5 10.3	14.4	11.5	12.5	10.8	<sup>3</sup> 12. 4 3 10 1	<sup>3</sup> 10. 2 <sup>3</sup> 8 8	10

Closed compensable cases.
 For period covered and injuries tabulated see chart II, facing p. 9.
 Age groups are 17 and under, 18 and under 23, 23 and under 28, and in 5-year groups to 53 and over.
 Age groupings are under 20, 20 and under 30, and in 10-year groups to 50 and over.
 Age groupings are 21 to 24, 25 to 29, and in 5-year groups.
 21 and over.
 The numbers reported for a 2-year period have been divided by 2.
 Less than 0.05 percent.

For this period comparison is possible with data from the census of 1930, similar to that made with census data of 1920 in the first bulletin in this series on accidents. The following tabulation lists the 9 States with the proportion of women injured who were 16 and under 21 years of age and the proportion women 16 and under 20 formed of all gainfully employed women. Though the census data do not include the age 20, the proportion injured is so much higher in every case that youth undoubtedly is a factor in the incidence of accidents to women. Too much attention cannot be given to the hazards of employment surrounding young persons, especially girls.

TABLE 8.—Accident	frequency	among	girls	and	older	women,	by	State
-------------------	-----------	-------	-------	-----	-------	--------	----	-------

State	Percent of women 16 21 years of	of injured 5 and under 1d <sup>1</sup>	Percent of all gainfully occupied women 16 and under	Percent o women 4 years old	f injured 6 or more	Percent of all gainfully occupied women 45 or more
	1930	1931	20 years old <sup>2</sup>	1930	1931	years old <sup>2</sup>
Illinois Indiana Maryland Massachusetts Minnesota New Jersey New York Rhode Island Wisconsin	23. 7 4 19. 7 30. 5 23. 0 22. 3 22. 6 31. 2 6 28. 6	$\begin{array}{c} 23.\ 0\\ 4\ 17.\ 1\\ 27.\ 7\\ 24.\ 0\\ 24.\ 9\\ 26.\ 7\\ 20.\ 4\\ 28.\ 6\\ 6\ 28.\ 3\end{array}$	14. 9 4 12. 8 13. 9 12. 7 12. 7 18. 7 15. 0 17. 5 7 36. 2	<sup>8</sup> 14. 3 <sup>5</sup> 21. 8 9. 9 13. 8 	$     \begin{array}{r}       3 14.8 \\       5 23.4 \\       13.3 \\       13.1 \\       10.6 \\       3 18.4 \\       16.7 \\       9.0 \\       8 12.8 \\     \end{array} $	$17.5 \\ {}^{5}31.8 \\ 22.0 \\ 22.5 \\ 18.7 \\ 16.7 \\ 17.9 \\ 19.6 \\ 19.2$

<sup>1</sup> From table 7. <sup>2</sup> U. S. Bureau of the Census. Fifteenth Census: 1930, vol. IV, Population, Occupations, table 8.

<sup>3</sup> Includes all 45 or more. <sup>4</sup> Includes all under 20.

<sup>5</sup> Includes all 40 or more. <sup>6</sup> 18 and under 23.

7 18 and under 25. 8 Includes all 43 or more.

This conclusion is supported by the fact that women 46 years of age and over had considerably fewer accidents than their number among the gainfully employed would indicate. Census figures shown are for women of 45 and more, and figures available for the injured women were in most cases for women of 46 and more. But even in 2 States where the age grouping was the same and in 2 where the grouping of the injured was more inclusive, the percent of women injured remained smaller than the percent women of these ages formed of all gainfully employed women. This was true in Indiana also, where the group 40 years and older is considerably smaller than the comparable group reported by the census as gainfully occupied. This is true in spite of the fact, generally conceded, that older persons recover from injuries more slowly than do girls and boys, and so more of their accidents would be reportable to compensation authorities. Differences in exposure undoubtedly are a partial explanation of the small proportion of injuries to older women, but the steadying influences of age and experience also are factors of importance. This is especially important to bear in mind at a time when industries are refusing employment on the basis of age at 40 years or even younger.

### INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

### Age and extent of disability

While it is established that young women have a disproportionate number of injuries, the evidence presented in table 9 with regard to seriousness of injury by age is not so definite. Leaving for the moment the two worst classes of injury, analysis of permanent partial cases in 1930 seems to show younger women at least as liable as older women to such disabilities. In every State but New York in 1930 the younger women had a higher proportion of such injuries than had the older women, more injuries to older women than to the younger ones being temporary. The evidence is not clear in 1931, the proportion that permanent partial injuries formed of all injuries being less in the case of women under 21 than of the older women in 4 of the 6 States reporting.

					Number	1			-						Perc	ent <sup>1</sup>				
			Male					Female	1.575			77	Male					Female	Э	
State and age group	Total	Fatal	Per- ma- nent total	Per- ma- nent par- tial	Tem- po- rary	Total	Fatal	Per- ma- nent total	Per- ma- nent par- tial	Tem- po- rary	Total	Fatal	Per- ma- nent total	Per- ma- nent par- tial	Tem- po- rary	Total	Fatal	Per- ma- nent total	Per- ma- nent par- tial	Tem- po- rary
								19	30											
Illinois: <sup>2</sup> Under 21 years 21 years and over Maryland: Under 21 years 21 years and over Massachusetts: Under 21 years 21 years and over New Jersey: Under 21 years 21 years and over New York: Under 21 years 21 years and over Wiseonsin:	3, 306 40, 151 1, 436 10, 777 6, 581 49, 325 2, 288 23, 237 7, 974 82, 223	32 601 6 91 13 327 25 314 71 1,202	1 30 	<sup>3</sup> 921 <sup>3</sup> 11, 733 57 509 119 953 <sup>(9)</sup> <sup>(9)</sup> 1, 344 18, 808	4 2, 352 7 27, 787 1, 373 10, 176 6, 449 48, 038 ( <sup>9</sup> ) ( <sup>9</sup> ) 6, 559 62, 165	443 1, 411 287 569 1, 429 4, 406 490 1, 568 2, 014 6, 640	2 2 2 4 5 21	  1	<sup>3</sup> 114 <sup>3</sup> 261 17 15 41 66 ( <sup>9</sup> ) ( <sup>9</sup> ) ( <sup>9</sup> ) 250 1, 286	<sup>5</sup> 329 <sup>8</sup> 1, 148 270 552 1, 388 4, 336 ( <sup>9</sup> ) ( <sup>9</sup> ) 1, 759 5, 333	100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0	1.0 1.5 .4 .8 .4 .8 1.1 1.4 .9 1.5	(6) 0.1 (6) (7) (6) (6) (7) (7)	3 27.9 3 29.2 4.0 4.7 4.0 4.7 ( <sup>9</sup> ) ( <sup>9</sup> ) ( <sup>9</sup> ) 16.9 22.9	4 71. 1 7 69. 2 95. 6 94. 4 95. 6 94. 4 ( <sup>9</sup> ) ( <sup>9</sup> ) ( <sup>9</sup> ) 82. 3 75. 6	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0			3 25.7 3 18.5 5.9 2.6 5.9 2.6 ( <sup>9</sup> ) ( <sup>9</sup> ) 12.4 19.4	5 74. 8 81. 94. 97. 94. 97. ( <sup>9</sup> ) ( <sup>9</sup> ) ( <sup>9</sup> ) 87. 80.
Under 21 years 21 years and over	<sup>10</sup> 2, 966 <sup>10</sup> 15, 818	(9) (9)	(9) (9)	<sup>10</sup> 300 <sup>10</sup> 1, 843	(9) (9)	10 292 10 611	(9) (9)	(9) (9)	10 39 10 61	(9) (9)	<sup>10</sup> 100. 0 <sup>10</sup> 100. 0	(9) (9)	(9) (9)	<sup>10</sup> 10. 1 <sup>10</sup> 11. 7	(9) (9)	<sup>10</sup> 100. 0 <sup>10</sup> 100. 0	(9) (9)	(9) (9)	<sup>10</sup> 13. 4 <sup>10</sup> 10. 0	(9) (9)

LABLE	9.—Distributio	n o	f injuries to	male and	femal	e employees	by extent of	f disability	y and	age group.	1930	and	1931
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[For sources of information, see appendix]

										1200				and the second second				Contraction of the second	7-1	
	[	al marks	1		and the second	in Thypeire a													a series	
Maryland: Under 21 years 21 years and over	969 8, 497	$2 \\ 69$	3	58 402	909 8, 023	198 473			10 24	188 449	100. 0 100. 0	0.2 .8	(6)	6.0 4.7	93. 8 94. 4	100. 0 100. 0			$5.1 \\ 5.1$	94. 9 94. 9
Massachusetts: Under 21 years	4, 528 40, 652	17     261	5	84 875	4, 427 39, 511	1, 195 3, 631	$\frac{1}{3}$		21 51	1, 173 3, 577	100. 0 100. 0	.4 .6	(6)	1.9 2.2	97. 8 97. 2	100. 0 100. 0	0.1 .1	>	1.8 1.4	98. 2 98. 5
Minnesota: Under 21 years	<sup>11</sup> 1, 529 <sup>11</sup> 15, 570	9 168	4	88 1, 169	1, 432 14, 229	<sup>11</sup> 381 <sup>11</sup> 1, 192	1	1	16 53	364 1, 137	<sup>11</sup> 100. 0 <sup>11</sup> 100. 0	.6 1.1	(6)	5.8 7.5	93.7 91.4	<sup>11</sup> 100. 0 <sup>11</sup> 100. 0	.3 .1	0.1	4.2 4.4	95. 5 95. 4
New Jersey: Under 21 years	12, 307 12, 17, 733	12 12 12 12 12 250	(12) 12 16	12 313 12 5,833	<sup>12</sup> 982 12 11, 634	<sup>12</sup> 398 <sup>12</sup> 1, 383	$\binom{(12)}{12}$	$\binom{(12)}{(12)}$	<sup>12</sup> 94 <sup>12</sup> 361	<sup>12</sup> 304 <sup>12</sup> 1, 020	$     \begin{array}{r}       12 \ 100. \ 0 \\       12 \ 100. \ 0     \end{array} $	<sup>12</sup> .9 1 <sup>2</sup> 1.4	$\binom{(12)}{120.1}$	$     \begin{array}{c}       1^{12} \ 23. \ 9 \\       1^{12} \ 32. \ 9     \end{array}     $	$   \begin{array}{c}     12 \\     75.1 \\     12 \\     65.6   \end{array} $	$     \begin{array}{c}       12 \\       12 \\       100. 0     \end{array}     $	$\binom{(12)}{12.1}$	$\binom{(12)}{(12)}$	$     \begin{array}{c}       12 \\       23.6 \\       12 \\       26.1     \end{array} $	<sup>12</sup> 76. 4 <sup>12</sup> 73. 8
New York: Under 21 years	6, 482 75, 571	51 1.067	2 60	967 16. 337	5, 462 58, 107	1, 747 6, 679	3 31	4	181 1, 205	1, 563 5, 439	100. 0 100. 0	.8 1.4	(6) .1	14.9 21.6	84.3 76.9	100. 0 100. 0	.2 .5	.1	10. 4 18. 0	89.5 81.4
Wisconsin: Under 21 years	<sup>10</sup> 2, 163 <sup>10</sup> 13, 582	(9) (9)	(9)	<sup>10</sup> 189 <sup>10</sup> 1, 395	(9) (9)	<sup>10</sup> 267 10 587	(9) (9)	(9) (9)	10 23 10 53	(9) (9)	<sup>10</sup> 100. 0 <sup>10</sup> 100. 0	(9) (9)	(9) (9)	<sup>10</sup> 8.7 <sup>10</sup> 10.3	(9) (9)	<sup>10</sup> 100. 0 <sup>10</sup> 100. 0	(9) (9)	(9) (9)	<sup>10</sup> 8. 6 10 9. 0	(9) (9)
<ol> <li>For period coveres</li> <li>Closed compensa</li> <li>Includes disfigure</li> <li>Includes 38 with</li> <li>Includes 4 with c</li> <li>Less than 0.05 pe</li> <li>Includes 478 with</li> <li>Includes 478 with</li> <li>Includes 12 with</li> <li>Not reported.</li> <li>Age groups are u</li> <li>The numbers rep</li> <li>Age groupings ar</li> </ol>	ed and inj ble cases. ement. combination rcent. a combination combinat combinat nder 23, a ported for e under 20	uries ta ions of ons of s tions of ions of nd 23 y a 2-yea O years,	bulated some ki some kin some ki some ki ears and r period and 20	see chart nds of dis ds of disa ind of disa nd of disa 1 over. have bee years and	ability. bility. bility. ability. bility. bility. n divided over. F	g p. 9. g p. 9. by 2; no atals and	ondisabl 1 perma	ling acci	dents a tals wer	re excluc e also gi	led. ven by t	he age	groupii	ngs, und	er 21 ye	ars, and	21 year	rs and (	over, as	follows:

1931

INDUSTRIAL INJURIES TO WOMEN R

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INDUSTRIAL INJURIES TO WOMEN IN 1930 AND

1931

		Males			Female	3
Age group	Total	Fatal	Permanent total	Total	Fatal	Permanent total
Under 21 years 21 years and over	1, 720 17, 320	18 244	1 15	482 1, 299	2	

35

1930 AND 1931

Of the 87 fatal and permanent total cases to women in the 2 years, 10 occurred to women under 21. This is somewhat higher than their proportion among the gainfully employed, but the figures are too small for the drawing of conclusions.

### Age and cause of injury

In each year New Jersey has reported statistics on the cause of disability by age groups that have considerable importance in planning a prevention program. The data for 1930 and 1931, shown in table 10, corroborate further the conclusions made in the bulletin covering the years 1928 and 1929. These are restated briefly here, omitting the discussion.

There are very decided differences in the cause of disability between younger and older women and between men and women of each age class. In each year considerably over one-third of the injuries to women under 21 were caused by machinery. A similar proportion of the injuries to women 21 years and over were caused by falls. Twice as high a percentage of young women as of women 21 and over had accidents with machinery, and the older women had more than twice the percentage shown by younger women of injuries caused by falls. While younger men had a higher share of injuries from machinery and older men from falls, the differences in proportion were not great. Both classes of men suffered most disabilities from the handling of objects and hand tools, which also ranked high as a cause of women's injuries. By age, the difference in proportions of injuries from this cause was comparatively slight for either men or women. A considerable part of male injuries were by vehicles, and an appreciably larger part of accidents to boys under 21 than to older men were so caused.

# INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

TABLE 10.—Distribution of injuries to male and female employees by cause and age group, New Jersey

IF an approve of information see appendix]

[F01 50		miormat					harde fillede de	
1		19	30			19	31	
Cause of injury	M	ale	Fen	nale	M	ale	Fen	nale
Cause of injury	Under 21 years	21 years and over	Under 21 years	21 years and over	Under 21 years	21 years and over	Under 21 years	21 years and over
	a gana	NUMB	ER 1				1949 P	
Total	2, 288	23, 237	490	1, 568	1, 720	219, 509	482	<sup>3</sup> 1, 497
Machinery_ Falls of persons_ Handling of objects and hand tools Stepping on or striking against objects_ Explosions, electricity, heat, etc Falling objects Vehicles Harmful substances and occupational disease Miscellaneous and indefinite	469 247 800 163 107 75 275 33 119	2, 465 3, 955 8, 280 1, 513 1, 111 1, 617 2, 253 646 1, 397	$ \begin{array}{r} 187\\92\\112\\33\\19\\7\\6\\6\\28\end{array} $	308 583 282 127 81 45 30 20 92	312 189 582 127 78 56 232 40 104	$\begin{array}{c} 1,924\\ 3,486\\ 7,131\\ 1,149\\ 899\\ 1,135\\ 1,944\\ 603\\ 1,238\\ \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	284 522 311 102 77 44 38 16 10
		PERCE	NT 1	line			- 1	61.13
Total	. 100.0	100.0	100.0	100.0	100.0	2 100. 0	100. 0	<sup>3</sup> 100.
Machinery	20.5	10.6	38.2	19.6	18.1	9.9	37.8	19.

$\begin{array}{c c c c c c c c c c c c c c c c c c c $		and the state		ATTAC AND AND A	Self- Self- Self-	and all all and	a de la della d		Carlos and Carlos
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Total	100.0	100. 0	100. 0	100.0	100.0	<sup>2</sup> 100. 0	100. 0	<sup>3</sup> 100. 0
41scellaneous and indefinite 0, 2 0, 0 0, 0, 1 0, 0 0, 0 0, 0 0, 0 0	Iachinery	$20.5 \\ 10.8 \\ 35.0 \\ 7.1 \\ 4.7 \\ 3.3 \\ 12.0 \\ 1.4 \\ 5.2$	10. 6 17. 0 35. 6 6. 5 4. 8 7. 0 9. 7 2. 8 6. 0	38. 2 18. 8 22. 9 6. 7 3. 9 1. 4 1. 2 1. 2 5. 7	19.6 37.2 18.0 8.1 5.2 2.9 1.9 1.3 5.9	$     18.1 \\     11.0 \\     33.8 \\     7.4 \\     4.5 \\     3.3 \\     13.5 \\     2.3 \\     6.0 $	9.917.936.65.94.65.810.0 $3.16.3$	$37.8 \\ 14.3 \\ 27.0 \\ .9.8 \\ 3.9 \\ 1.2 \\ 1.5 \\ .2 \\ 4.4$	$     \begin{array}{r}       19.0 \\       34.9 \\       20.8 \\       6.8 \\       5.1 \\       2.5 \\       2.5 \\       1.1 \\       6.9 \\     \end{array} $

For period covered and injuries tabulated see chart II, facing p. 9. <sup>2</sup> Includes 2,189 cases for which age was not stated
<sup>3</sup> Includes 198 cases for which age was not stated.

The influence of youth in the causation of accidents seems fairly well established, and certainly from this standpoint the demand for young girls rather than older women as machine operators is unfortunate. Study of individual industries probably would point to the necessity for prohibiting the work of young girls and boys on certain machines and for further safeguarding their employment on others.

### Age and wage

The serious aspect of injuries to youths lies not only in their frequency and severity but in the low compensation received, due to the lower wage of young persons. The only statistics available to show this are those for permanent partial disability cases in Wisconsin, 1930 and 1931 (see table 11). In 1931 the average weekly wage for all injured women was \$19.22, but of the 14 girls under 21 who were injured, 13 averaged \$14.62 a week and 1 earned \$9. In both years women reached the peak of their earning capacity at 36 to 40 years. It is especially unfortunate that young girls living on a wage that allows little or no saving for emergencies, and who must receive even a lower compensation because of the low wage, should be faced with some disability permanently impairing their earning power.

TABLE 11.—Distribution of permanent partial disability cases in Wisconsin, 1930 and 1931, by age, sex, and wage

[For sources of information, see appendix]

			19	30					19	931		
Age	. See	Male	and a		Femal	в		Male	Э	1.5075	Fem	ale
	Num- ber	Per- cent distri- bution	Aver- age weekly wage	Num- ber	Per- cent distri- bution	Aver- age weekly wage	Num- ber	Per- cent distri- bution	Aver- age weekly wage	Num- ber	Per- cent distri- bution	Aver- age weekly wage
Total	2, 164		\$30. 68	100		\$17.83	1, 601		\$29.51	78		\$19.22
Not reported Total reported	21 2, 143	100. 0		100	100. 0		17 1, 584	100. 0		$\frac{2}{76}$	100. 0	
14 to 15 years         16 to 20 years         21 to 25 years         26 to 30 years         31 to 35 years         36 to 40 years         41 to 45 years         51 to 55 years         56 to 60 years         51 to 55 years         56 to 70 years         66 to 70 years	1 171 324 308 270 275 195 207 132 113 81 48 18	(1) 8.0 15.1 14.4 12.6 12.8 9.1 9.7 6.2 5.3 3.8 2.2 .8	$\begin{array}{c} 27,\ 00\\ 21,\ 69\\ 28,\ 46\\ 31,\ 73\\ 33,\ 88\\ 33,\ 81\\ 32,\ 88\\ 31,\ 15\\ 30,\ 27\\ 31,\ 04\\ 29,\ 36\\ 28,\ 33\\ 27,\ 17\\ \end{array}$	$ \begin{array}{c} 1\\ 30\\ 13\\ 14\\ 13\\ 8\\ 7\\ 4\\ 5\\ 3\\ 1\\ 1\\ 1 \end{array} $	$\begin{array}{c} 1.0\\ 30.0\\ 13.0\\ 14.0\\ 13.0\\ 4.0\\ 5.0\\ \hline \\ 3.0\\ 1.0\\ 1.0\\ 1.0\\ \hline \end{array}$	$\begin{array}{c} 17,\ 00\\ 16,\ 53\\ 16,\ 00\\ 18,\ 50\\ 19,\ 38\\ 21,\ 50\\ 18,\ 86\\ 14,\ 75\\ 18,\ 80\\ \hline 20,\ 00\\ 19,\ 00\\ 15,\ 00\\ \end{array}$	$\begin{array}{c} 1\\ 104\\ 194\\ 206\\ 210\\ 203\\ 172\\ 148\\ 116\\ 101\\ 75\\ 31\\ 19\\ 4\end{array}$	$\begin{array}{c} 0.1\\ 6.6\\ 12.2\\ 13.0\\ 13.3\\ 12.8\\ 10.9\\ 9.3\\ 7.3\\ 6.4\\ 4.7\\ 2.0\\ 1.2\\ .3\\ \end{array}$	$\begin{array}{c} 22.\ 00\\ 19.\ 54\\ 26.\ 73\\ 30.\ 42\\ 32.\ 73\\ 32.\ 61\\ 30.\ 02\\ 30.\ 68\\ 30.\ 55\\ 27.\ 89\\ 31.\ 05\\ 25.\ 23\\ 25.\ 47\\ 32.\ 25\\ \end{array}$	1 13 13 8 9 6 10 4 5 2 3 2 3 2	$\begin{array}{c} 1.3\\ 17.1\\ 17.1\\ 10.5\\ 11.8\\ 7.9\\ 13.2\\ 5.3\\ 6.6\\ 2.6\\ 3.9\\ 2.6\\ \end{array}$	9.00 14.62 16.69 17.50 22.22 28.83 17.80 19.75 24.60 26.00 23.67 15.50

<sup>1</sup> Less than 0.05 percent.

### Marital status and number of dependents

There are few data as to marital status of injured persons and the only States compiling such data by sex are Illinois and North Carolina (see tables 12 and 13). It is strikingly apparent in Illinois that married women are exposed to greater hazards than are single women. While married women are little over one-fourth (26.7 percent) of all gainfully occupied women in this State, they sustained over twofifths of all injuries to women in 1930, nearly as many as single women, who constitute not far from three-fifths of the gainfully employed women. These data were available also for 1929 and the relative proportions were very similar. This is even more remarkable considered in relation to age data. In Illinois as in other States the largest proportion of injured women were 16 to 20 years of age, a group including, without doubt, a greater proportion of single women than the older groups.

The explanation of this preponderance of married women among the injured is to be found in differences of occupation. Table 14 lists the largest proportions of accidents to women in Illinois in the following industrial groups: Manufacturing, under which the main groups reporting injury were food, beverages, and tobacco; metals and metal goods, including machinery and vehicles; textiles, including clothing; and clerical, professional, and personal service, under which hotel and restaurant employees were the largest group of injured. Correspondingly, the census reports a larger proportion of married women in each of these industries than the married women were of all gainfully occupied. Of all women in manufacturing, 30.8 percent were married; of laborers in food and allied products, 37.3 percent; of slaughtering and meat packing employees, 40.7 percent; of iron, and

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steel, machinery and vehicle employees, 31 percent; in the suit, coat, and overall industry, 37.7 percent; in knit goods, 30.4 percent; of all domestic and personal service employees, 33.9 percent; and of the waitress group, 37.6 percent.

TABLE 12.-Marital status of injured women and number of their children under 16, by average weekly wage, Illinois, 19301

[For source of information, see appendix]

		Num-	Total	with	Wome	n whose a wage v	average v vas—	weekly
Marital status and number of children under 16	Num- ber of women injured	ber with wage not re-	wage re	ported	Less th	nan \$15	\$40 an	d over
and the second states in the		ported	Num- ber	Percent	Num- ber	Percent	Num- ber	Percent
Total	2, 408	- 7.	2, 401	100. 0	655	27.3	85	3.5
Marital status not reported <sup>2</sup> Total with marital status reported	31 2, 377	$\frac{1}{6}$	30 2, 371	100.0	4 651	27.5	1 84	3.5
Single Married No children 1 or 2 children 3 or more children Number of children not reported	$ \begin{array}{r} 1, 105 \\ 977 \\ 517 \\ 341 \\ 111 \\ 8 \\ \end{array} $	3 1 	$ \begin{array}{r} 1, 102 \\ 976 \\ 517 \\ 340 \\ 111 \\ 8 \end{array} $	100. 0 100. 0 100. 0 100. 0 100. 0	$293 \\ 296 \\ 135 \\ 116 \\ 42 \\ 3$	26. 6 30. 3 26. 1 34. 1 37. 8	$50 \\ 21 \\ 16 \\ 3 \\ 2$	4.5 2.2 3.1 .9 1.8
Widowed or divorced No children 1 or 2 children 3 or more children Number of children not reported_	295 187 86 13 9	2 2	293 185 86 13 9	100. 0 100. 0 100. 0	$     \begin{array}{r}       62 \\       38 \\       21 \\       2 \\       1     \end{array} $	21. 2 20. 5 24. 4	13 10 3	4. 4 5. 4 3. 5

<sup>1</sup> Compensable cases occurring. Percents not computed where base less than 50. <sup>2</sup> Some of these had children under 16.

On the other hand, single women were between 70 and 80 percent of all telephone operators, clerical employees, and professional persons, and were practically half (49.7 percent) of all saleswomen. Over a third (34.7 percent) of the gainfully employed single women were in clerical occupations and just over 17 percent (17.1) were in profes-sional work. These occupational differences explain the greater accident frequency of married women, and they add proof that married women are working through necessity and not choice or they would not be so largely in the less attractive and more hazardous industries.

The situation in North Carolina, as shown in table 13, is somewhat different. Both single and married women have a larger proportion of injuries, and the widowed and divorced have a smaller proportion, than their distribution among the gainfully occupied would indicate. Again the explanation lies in difference of occupation. Almost 75 percent of all the gainfully employed widows in North Carolina were in agriculture and domestic service, two industries where reporting of accidents is not required. Just over 21 percent of the widows, as compared to about 14 percent of the single women and 17 percent of those married, were servants. This concentration where accidents are not compensable probably is the explanation for the low proportion of injuries occurring to the widowed. On the other hand, over 30 percent of married women and just over 25 percent of single women

were in manufacturing, where the hazards of machinery are greatest and reporting is likely to be most complete.

TABLE	13.—Marital	status og	f injured	women,	North	Carolina,	1930
			and the second				

Marital status	Number	Percent	Marital status of all gainfully occupied women <sup>1</sup>	
Total	2, 297	100. 0	100. 0	
Single Married Widowed and divorced	1, 173 917 207	51. 1 39. 9 9. 0	47. 2 35. 5 17. 2	

[For source of information see appendix]

<sup>1</sup>U.S. Bureau of the Census. Fifteenth Census: 1930, vol. IV, Population, Occupations, p. 75. Census includes "status unknown" with single women in computing percents.

Several other facts presented in table 12 are of interest in a study of the costs to society of industrial injury. The first of these is the number of married women who had children at least partially dependent upon their earnings. This is not, by any means, a complete picture of family responsibility, as many single women have dependents and many a married woman has other relatives besides her children dependent on her earnings.

Of the married women 46.6 percent had children, 11.5 percent having 3 or more. Of the widowed and divorced women, 34.6 percent had children.

Whatever the cause—age or occupation or both—the figures show clearly a lower wage status for women with children under 16 than for those who had no children. For example, 34.1 percent of the married women with 1 or 2 children and 37.8 percent of those with 3 or more had weekly wages of less than \$15, in contrast to 26.1 percent of the married women who had no children under 16. Of the widowed or divorced women who had children, 23.2 percent had earnings of less than \$15, in contrast to 20.5 percent of those without children. At the opposite extreme as regards wages-\$40 or more a week-were 3.1 percent of the married women and 5.4 percent of the widowed or divorced women without children, but only 1.1 percent of the married women and 3 percent of the widowed and divorced who had children. Thus the mothers of children had less compensation than had childless women, instead of more, during the disability caused by industrial injury. The inequities of the much lower wages of women than of men are another story and one that need not be repeated here. (See pages 54-56.)

### **INDUSTRIES IN WHICH INJURIES OCCURRED**

Five States reported injury by industry and by sex in 1930 and 1931. While these data are not complete for each State, they furnish valuable information on the source of injury. (See table 14 and plate III.)

Naturally there is considerable difference between the industries showing a high proportion of men's accidents and those showing a high proportion of women's accidents. Manufacturing was the principal

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source of injury both to men and to women in all States but Pennsylvania, where injuries to men in mining and related industries outranked all other groups. In 3 States in 1930 the proportion of women's injuries that were in manufacturing exceeded 50 percent of all women's injuries. Domestic and personal service generally ranked second for women, hotels and restaurants figuring most largely in this.

Only 3 States in 1930, 2 in 1931, reported subgroups under manufacturing. Food, beverages, and tobacco ranked first in number of injuries to women in Indiana and Wisconsin in both years, metals, metal goods, machinery and vehicles in Illinois in 1930. Food, beverages, and tobacco ranked second in Illinois; clothing had the second largest number in Indiana; metals, metal goods, and machinery in Wisconsin. In each of these States the manufacturing of metals and metal goods (machinery included in Wisconsin and machinery and vehicles in Illinois) accounted for the largest group of men injured. Wood and wood products manufacture ranked second for men in each State except Illinois in 1930, where the food group was the second largest.

Of the other main industry groups, the clerical, professional, and personal-service groups ranked second in proportion of women's injuries except in Pennsylvania, where the tabulating of domestic and personal service in the residual group "other" changes the rank. Clerical, professional, and personal service is relatively unimportant in the total of men's injuries, which are caused instead by construction, metallurgy, quarrying, and transportation, with comparatively few injuries to women. Trade accounts for a larger part of women's than of men's accidents in all States and both years, excepting only New Jersey in 1931, where the figures are alike.

The importance of knowing the industry in which the accident occurred, as an aid in formulating prevention policies, cannot be overestimated. Yet only 9 of the 24 States reporting by sex the number of accidents report also the industries in which they occurred. (See chart I.) The usefulness of this information would be increased considerably by knowledge of the man hours of exposure involved, but even without this it is apparent that certain industries need special attention. Of all gainfully occupied women in these 5 States from 17.5 percent to 26.5 percent were in manufacturing, but manufacturing was the source of about half of all women's injuries. Two percent or less of all employed women were in the food, beverages, and tobacco group, but they suffered 11 to 14 percent of women's injuries in the 3 States reporting. Only 5.2 percent of all employed women in Indiana were in the manufacture of clothing, but twice as high a proportion were injured. In each of the 3 States reporting, considerably more women were injured in metal and metal goods manufacture than their proportion of all women employed would indicate. The information available shows what industries are the most hazardous woman employers in these States.

# TABLE 14.—Industrial distribution of injuries to male and female employees, 1930 and 1931

[For sources of information, see appendix]

					19	30								A O A	193	1	All To	C.S.		
Industry	Illino	ois 1	India	ana 1	New J	ersey	Pennsy	lvania	Wiscor	nsin 1	Illin	ois	India	ana 1	New J	ersey	Pennsy	lvania	Wiscor	nsin <sup>1</sup>
	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male
							NUM	BER	2											
Total reported	3 43, 934	41,878	30, 003	1, 815	25, 525	2, 058	138, 423	6, 256	<sup>5</sup> 19, 137	927	<sup>6</sup> 31, 259	7 2, 086	21, 264	1, 579	21, 229	1, 979	105, 928	5, 530	<sup>8</sup> 16, 063	876
Manufacturing. Food, beverages, and tobacco_ Clothing	$\begin{array}{c} 18,543\\3,536\\(^9)\\10&345\\11&9,788\\(^{13})\\382\\363\\545\\746\\1,373\\694\\389\\382\\2,684\\1,460\\756\\281\\187\\469\\281\\2,684\\1,460\\756\\281\\281\\281\\281\\281\\281\\281\\281\\281\\281$	$\begin{array}{c} 941\\225\\(^{9})\\1^{0}138\\1^{1}244\\(^{13})\\96\\34\\42\\55\\46\\13\\24\\24\\24\\556\\46\\13\\24\\24\\268\\33\\3\\6\\6\\209\\268\\33\\3\end{array}$	16, 051 2, 013 96 110 4, 347 2, 474 166 339 295 211 2, 528 1, 549 1, 102 821 706 204 241 138 23	$\begin{array}{c} 1,172\\257\\189\\58\\125\\56\\73\\82\\24\\37\\108\\41\\20\\102\\330\\66\\197\\55\\12\\12\end{array}$	10, 530	1, 055	42, 376	2,814	9,705 1,212 ( <sup>9</sup> ) <sup>10</sup> 112 <sup>12</sup> 3,676 <sup>14</sup> 579 ( <sup>15</sup> ) 296 687 ( <sup>15</sup> ) 2,632 223 75 213 868	440 107 ( <sup>9</sup> ) <sup>10</sup> 61 <sup>12</sup> 101 <sup>13</sup> 103 ( <sup>15</sup> ) 43 43 ( <sup>15</sup> ) 33  	11, 817	902	$\begin{array}{c} \hline 10,721\\ 1,665\\ 66\\ 85\\ 2,666\\ 1,740\\ 80\\ 254\\ 213\\ 160\\ 1,684\\ 674\\ 793\\ 641\\ 544\\ 173\\ 221\\ 126\\ 24\\ \end{array}$	$\begin{array}{c}$	7, 885	985	29, 185	2, 457	7, 141 1, 249 (9) 101 1 <sup>2</sup> 2, 310 1 <sup>4</sup> 413 ( <sup>15</sup> ) 260 582 ( <sup>15</sup> ) 1, 755 206 89 89 176 936	371 100 ( <sup>9</sup> ) 55 1 <sup>2</sup> 66 ( <sup>14</sup> ) ( <sup>15</sup> ) 40 31 ( <sup>15</sup> ) 25 35 46 337
Transportation and public utilities Construction Agriculture Mining, metallurgy, and quarrying Other industries	4, 329 4, 297 6, 911 199 6, 971	319 94 5 3	$1,872 \\ 2,732 \\ 4,882 \\ 283 \\ 3,336 \\ 141$	265 37 7 2 	<sup>21</sup> 2, 140 3, 546 5, 822 461 653 16 1, 537	<sup>21</sup> 188 48 5 7 16 454	8, 074 7, 231 20, 667 48, 469 6, 863	1, 161 112 42 	1, 925 2, 016 3, 823 492 308	107 14  25	<sup>22</sup> 3, 423 <sup>23</sup> 2, 285 5, 085 196 4, 875	<sup>22</sup> 348 <sup>23</sup> 78 1 8	$1, 679 \\ 2, 217 \\ 2, 882 \\ 246 \\ 2, 792 \\ 183$	259 24 1 2 	<sup>21</sup> 2, 035 3, 267 4, 597 556 440 16 1, 565	<sup>21</sup> 189 43 7 10 16 447	7, 516 4, 786 13, 244 39, 545 6, 293	934 92 27 3 1, 762	1,9252,0193,388442212	124 12 5 27

### PERCENT 2

Total reported	3 100. 0	4 100. O	100.0	100. 0	100. 0	100. 0	100. 0	100. 0	<sup>8</sup> 100. 0	100. 0	6 100. 0	7 100. 0	100. 0	100. 0	100.0	100.0	100.0	100. 0	<sup>8</sup> 100. (	100. 0
Manufacturing	42.2	50.1	53.5	64.6	41.3	51.3	30.6	45.0	50.7	47.5	37.8	43. 2	50.4	62.3	37.1	49.8	27.6	44.4	44.5	42.4
Food, beverages, and tobacco	8.0	12.0	6.7	14.2					0.3	11.0			1.0	10.9					(9)	(9)
Clothing	(%)	(9)	. 3	10.4					10 6	10 6 6			.0	2 1					, f	6.3
Textiles	11 00 0	10 7. 3	14 5	3.2					12 10 9	12 10 0			12 5	6.0					12 14. 4	12 7. 5
Metals and metal goods	11 22. 3	(12)	14.0	0.9					14 3 0	14 3			8 2	2.9					14 2. 6	(14)
Machinery and vehicles	(10)	(10)	0.2	0.1					(15)	(15)			4	3.6					(15)	(15)
Laundries and cleaning and dyeing_	.9	0.1	1 1 1	4.0					1.5	4 6			1.2	3.0					1.6	4.6
Leather, rubber and composition	.0	1.0	1 1 0	1 2					3.6	4 6			1.0	. 9					3.6	3.5
Paper, pulp, and paper goods	1.4	2.2	1.0	2.0					(15)	(15)			.8	1.5					(15)	(15)
Printing	1.1	2. 3	84	6.0					13.8	3.6			7.9	6.3					10. 9	2.9
Wood and wood products	1 6	2.3	5 2	2.3					1.2				3.2	2.8					1.8	.3
Stone, clay, and glass products	1.0	1 3	3.7	11					.4	.1			3.7	1.8					. (	6 .6
Other manufacturing	9	1.3	2.7	5.6					1.1	5.2			3.0	6.2					1. 1	5.3
Clorical professional and personal		1.0	P. State							and the second	and the second		Sec. 1	in the second						
corvice	6.1	27.5	2.4	18.2	16 3. 3	16 14.2	17 3.4	17 4.0	4.5	36.8	18 11. 4	18 35. 9	2.6	19.3	16 4. 2	16 15. 1	17 5.1	17 4. 6	5.8	38.5
Clericel and professional	3.3	11.1	.7	3.6							19 1. (	195.2	.8	4.9						
Hotels and restaurants	1.7	1 14.3	.8	10.9									1.0	10.9						
Care and custody of buildings	.6	1.8	.5	3.0									.6	2.5						
Miscellaneous, including domestic		Contraction of the second				The second second			a state of the second	1.1.1.1.1.1				1	and the	and the second	The second			and the second
service	.4	.3	.1	.7							20 8. 3	3 20 30. 5	.1	1.0				16 0	19	14 9
Trade	9.9	17.0	6.2	14.6	21 8.4	21 9.1	5.8	18.6	10.1	11.5	22 11. (	22 10. 7	1.9	10.4	15.0	1 9.0	1.1	10.9	12.	14.4
Transportation and public utilities	9.8	5.0	9.1	2.0	13.9	2.3	5.2	1.8	10.5	1. 5	10 1.0	(94)	10.4	1.0	10.4	4.4	19 5	1.	21	1.1
Construction	15.7		16.3	.4	22.8	.4	14.9	.7	20.0		10. 0		13.0	1	21.1	.4	. 12.0		2	3 1
Agriculture	.5	.2	.9	.1	1.8	.2			2.0	2.1	15		12 1	.1	2.0		37 3	1	1	3
Mining, metallurgy, and quarrying	15.9		11.1		2.6	.3	35.0	.1	1.0		10. (		10.1	3	1674	16 22 6	5.9	31.9		
Other industries			5	.1	10 6. 0	10 22. 1	5.0	29.9			*******						0.0	1		
	1	1	1					<u> </u>	and the second		-			-	-	Charles -	A CONTRACT	10		

Some classifying done by Women's Bureau.
 For period covered and injuries tabulated see chart II, facing p. 9. Closed pensable cases shown for Illinois.
 Excludes 104 not reporting industry.
 Excludes 6 not reporting industry.
 Excludes 4 not reporting industry.
 Excludes 1 not reporting industry.
 Excludes 4 not reporting industry.
 Excludes 4 not reporting industry.
 Is classified with textiles.
 Includes clothing.
 Includes machinery and vehicles.
 Includes machinery.

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<sup>13</sup> Is classified with metals and metal goods.
<sup>14</sup> Is vehicles only. Machinery is classified with metal and metal goods.
<sup>15</sup> Not obtainable. Laundries, cleaning and dyeing, and printing are combined in
<sup>16</sup> Obmestic and personal service is included in "other industries."
<sup>17</sup> State and municipal government.
<sup>18</sup> Includes "governmental", 675 males and 4 females.
<sup>19</sup> Professional only.
<sup>20</sup> Set vices not otherwise classified.
<sup>21</sup> Includes garages.
<sup>22</sup> Trade and finance.
<sup>23</sup> Transportation, storage, and communication.
<sup>24</sup> Less than 0.05 percent.

### PLATE III. INDUSTRIAL DISTRIBUTION OF INJURIES TO WOMEN IN 5 STATES, 1931

(Industries in which over 5 per cent of all injuries reported in the State were to women. For period covered and injuries tabulated see chart II)



		Illinois	s—1930	A CLA	and a	New Jer	sey—1930			New Jers	sey—1931	SAN
Indusiry	M	ale	Fer	nale	M	ale	Fen	nale	M	ale	Fen	nåle
	Under 21 years	21 years and over	Under 21 years	21 years and over	Under 21 years	21 years and over	Under 21 years	21 years and over	Under 21 years	21 years and over	Under 21 years	21 years and over
			N	UMBER	1	WE.					H & H	10
Total	2, 683	36, 738	549	1,808	2, 288	23, 237	490	1, 568	1, 720	2 19, 509	482	3 1, 497
Manufacturing	1, 388 4 266 6 359 121 279 17 253	14, 351 4 3, 911 6 3, 672 2, 676 6, 036 175 5, 917	348 4 78 6 92 27 1 3	681 4 724 6 319 75 3 6	1, 164 <sup>5</sup> 79 <sup>7</sup> 311 245 289 59 24 <sup>8</sup> 117	9,366 5757 71,829 3,301 5,533 402 629 81,420	347 <sup>5</sup> 25 <sup>7</sup> 51 21 1 3 <sup>8</sup> 42	708 <sup>5</sup> 268 <sup>7</sup> 137 27 8 4 4 <sup>8</sup> 412	781 <sup>5</sup> 67 7264 232 189 63 19 <sup>8</sup> 105	7, 104 <sup>5</sup> 817 <sup>7</sup> 1, 771 3, 035 4, 408 493 421 <sup>8</sup> 1, 460	346 <sup>5</sup> 23 <sup>7</sup> 50 14  <sup>8</sup> 49	639 <sup>5</sup> 275 <sup>7</sup> 139 29 7 10 <sup>8</sup> 398
12	and and a		P	ERCENT	1						3 3 4	Contraction of the
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100. 0	2 100. 0	100. 0	3 100. 0
Manufacturing	51.7 49.9 613.4 4.5 10.4 .6 9.4	39. 1 4 10. 6 6 10. 0 7. 3 16. 4 .5 16. 1	63. 4 4 14. 2 6 16. 8 4. 9 . 2 . 5	37. 7 4 40. 0 6 17. 6 4. 1 . 2 . 3	$50.9 \\ {}^{b} 3.5 \\ {}^{7} 13.6 \\ 10.7 \\ 12.6 \\ 2.6 \\ 1.0 \\ {}^{8} 5.1 \\ \end{array}$	$\begin{array}{c} 40.3\\ {}^{\delta}3.3\\ 7.9\\ 14.2\\ 23.8\\ 1.7\\ 2.7\\ {}^{8}6.1\end{array}$	$   \begin{array}{r}     70.8 \\     ^{5} 5.1 \\     7 10.4 \\     4.3 \\     \hline     \hline     2 \\     .6 \\     8 8.6 \\   \end{array} $	45. 2 <sup>5</sup> 17. 1 <sup>7</sup> 8. 7 1. 7 .5 .3 <sup>8</sup> 26. 3	45.4 <sup>5</sup> 3.9 <sup>7</sup> 15.3 13.5 11.0 3.7 1.1 <sup>8</sup> 6.1	$\begin{array}{c} 36.4\\ {}^{\delta}4.2\\ 79.1\\ 15.6\\ 22.6\\ 2.5\\ 2.2\\ {}^{8}7.5\end{array}$	71.8 <sup>5</sup> 4.8 <sup>7</sup> 10.4 2.9  <sup>8</sup> 10.2	42.7 <sup>5</sup> 18.4 <sup>7</sup> 9.3 1.9 .5 .7 <sup>8</sup> 26.6

### TABLE 15.—Distribution of injuries to male and female employees, by industry and age group, 1930 and 1931 [For sources of information, see appendix]

<sup>1</sup> For period covered and injuries tabulated see chart II, facing p. 9. Compensable cases occurring are shown for Illinois.
 <sup>2</sup> Includes 2,189 cases for which age was not stated.
 <sup>3</sup> Includes 198 cases for which age was not stated.
 <sup>4</sup> Service not otherwise classified, professional service, and governmental service.
 <sup>5</sup> Includes clerical and professional service.
 <sup>6</sup> Includes garages.
 <sup>8</sup> Includes domestic and personal service.

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### Industry and age of the injured

New Jersey and Illinois correlate industry and age for the chief industrial groups. (See table 15.) This information further corroborates conclusions drawn from statistics as to cause of injury. In Illinois almost two-thirds and in New Jersey over two-thirds of the younger women's injuries were incurred in manufacturing, while less than half the older women injured were in manufacturing. On the other hand, women 21 and over in New Jersey had a higher proportion of injuries in clerical and professional than had the younger women. This is true also of the corresponding group in Illinois, which includes professional service, governmental service, and service not otherwise classified. Since a large part of the older group were injured by falls probably many of them were janitresses and cleaners.

More of the young men injured than of the older men were in manufacturing, but the difference was not so great as between the two groups of women. A much higher proportion of the older men injured than of those younger were in construction.

### CAUSE OF INJURY

Some consideration already has been given to the causes of accidents in connection with age for one State. This and three other States have data as to cause by sex. These are listed in table 16.

As might be expected from the analysis of industry, a large part of women's accidents are caused by falls or by machinery. In the two large industrial States here reported, New Jersey and Illinois, these caused higher proportions of women's injuries than in Indiana and Iowa. In each State falls caused the largest number of women's injuries. In most cases the proportion from falls was not appreciably greater than that from machinery, but in Iowa in 1931 falls caused more than twice as many as did machinery, and here accidents caused by hand tools were greater than those caused by machinery. The difference in hazard according to occupation is attested further by the very small proportion of injuries in Iowa resulting from handling of objects, an important cause in large industrial States. Since Iowa gives no data by industry the figures do not of themselves explain the high proportion of accidents to women from hand tools, but the slaughtering and meat-packing industry, an important one in this State, is known to have a disproportionate number of knife injuries, which may account for these figures. The State has a correspondingly high rate of injuries with infections.

Stepping on or striking against objects resulted in about 10 percent of women's injuries in Illinois and almost 20 percent in Indiana. In the latter State this cause ranked higher in 1931 than did machinery.

In Iowa, in both years, men as well as women suffered most disabilities from falls, the wet floors in the slaughtering industry undoubtedly contributing largely to this. In the other States handling of objects caused most accidents to men. Falls ranked second in Illinois and New Jersey. In Indiana both stepping on or striking against objects, and falling objects, caused more injuries to men than did falls. The importance of construction and mining industries in frequency of injury to men is reflected in the much greater proportion of injuries to men than to women caused by falling objects.

		2		193	80							193	1			
Cause of injury	Illin	ois 1	Indi	ana 1	Iov	7a 1	New .	Jersey	Illin	iois	Indi	ana 1	Iov	va 1	New J	Versey
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
an the same	in the				N	UMBEI	<b>č</b> 2							- Aler		
Total	3 43, 122	<b>▲</b> 1, 851	30, 003	1, 815	5 6, 880	\$ 315	25, 525	2, 058	<sup>6</sup> 30, 793	7 2, 056	21, 264	1, 579	5 5, 045	<sup>5</sup> 270	21, 229	1, 979
Machinery Falls of persons Handling of objects Stepping on or striking against objects Hand tools Explosions, electricity, heat, etc Falling objects Vehicles Harmful substances Animals Miscellaneous and indefinite	$\begin{array}{c} 6,443\\ 6,761\\ 9,472\\ 4,408\\ 2,654\\ 1,970\\ 4,240\\ 4,852\\ 718\\ 316\\ 1,288\\ \end{array}$	$\begin{array}{r} 443\\ 556\\ 285\\ 197\\ 59\\ 90\\ 67\\ 47\\ 39\\ 2\\ 66\end{array}$	2, 851 4, 389 4, 734 4, 585 1, 224 1, 582 4, 482 2, 122 2, 122 346 180 3, 508	$\begin{array}{r} 390\\ 423\\ 161\\ 335\\ 121\\ 108\\ 66\\ 32\\ 21\\ 3\\ 155\\ \end{array}$	1,0481,1374653827551301,0699055121,737	52 61 6 8 46 3 13 1 5 	2, 934 4, 202 8 9, 080 1, 676 (8) 1, 218 1, 692 2, 528 9 679 ( <sup>10</sup> ) 1, 516	495 675 8 394 160 ( <sup>8</sup> ) 100 52 36 9 26 ( <sup>10</sup> ) 120	$\begin{array}{c} 4, 127\\ 4, 873\\ 6, 959\\ 2, 222\\ 1, 827\\ 1, 408\\ 3, 087\\ 3, 764\\ 341\\ 247\\ 1, 938\\ \end{array}$	$\begin{array}{r} 458 \\ 611 \\ 339 \\ 199 \\ 74 \\ 125 \\ 60 \\ 44 \\ 16 \\ 4 \\ 126 \end{array}$	$\begin{array}{c} 1, 931\\ 3, 076\\ 3, 657\\ 3, 284\\ 897\\ 1, 030\\ 3, 099\\ 1, 501\\ 260\\ 143\\ 2, 386\end{array}$	$\begin{array}{c} 282\\ 360\\ 179\\ 309\\ 98\\ 90\\ 82\\ 22\\ 22\\ 31\\ 3\\ 123\\ \end{array}$	681 936 490 307 536 116 683 33 	25 61 9 7 42 3 14 	2, 236 3, 675 8 7, 713 1, 276 ( <sup>8</sup> ) 977 1, 191 2, 176 9 643 ( <sup>10</sup> ) 1, 342	466 591 8 441 149 (*) 96 50 45 9 17 (10) 124
					PI	ERCEN'	Γ2							A		
Total	3 100. 0	4 100.0	100.0	100.0	<sup>5</sup> 100. 0	5 100.0	100.0	100.0	<sup>6</sup> 100. 0	7 100.0	100.0	100.0	5 100.0	5 100.0	100.0	100.0
Machinery	$\begin{array}{c} 14.9\\ 15.7\\ 22.0\\ 10.2\\ 6.2\\ 4.6\\ 9.8\\ 11.3\\ 1.7\\ .7\\ 3.0\\ \end{array}$	23.9 30.0 15.4 10.6 3.2 4.9 3.6 2.5 2.1 .1 3.6	9.5 14.6 15.8 15.3 4.1 5.3 14.9 7.1 1.2 .6 11.7	$\begin{array}{c} 21.5\\ 23.3\\ 8.9\\ 18.5\\ 6.7\\ 6.0\\ 3.6\\ 1.8\\ 1.2\\ .2\\ 8.5\\ \end{array}$	$\begin{array}{c} 15.\ 2\\ 16.\ 5\\ 6.\ 8\\ 5.\ 6\\ 11.\ 0\\ 1.\ 9\\ 15.\ 5\\ 1.\ 3\\ .\ 2\\ 25.\ 2\end{array}$	$16.5 \\ 19.4 \\ 1.9 \\ 2.5 \\ 14.6 \\ 1.0 \\ 4.1 \\ .3 \\ 1.6 \\ \hline 38.1$	$ \begin{array}{c} 11.5\\ 16.5\\ 835.6\\ (8)\\ 4.8\\ 6.6\\ 9.9\\ 92.7\\ (^{10})\\ 5.9 \end{array} $	24. 1 32. 8 8 19. 1 7. 8 ( <sup>8</sup> ) 4. 9 2. 5 1. 7 9 1. 3 ( <sup>10</sup> ) 5. 8	$\begin{array}{c} 13.4\\ 15.8\\ 22.6\\ 7.2\\ 5.9\\ 4.6\\ 10.0\\ 12.2\\ 1.1\\ .8\\ 6.3\end{array}$	$\begin{array}{c} 22.3\\ 29.7\\ 16.5\\ 9.7\\ 3.6\\ 6.1\\ 2.9\\ 2.1\\ .8\\ .2\\ 6.1 \end{array}$	$\begin{array}{c} 9.1\\ 14.5\\ 17.2\\ 15.4\\ 4.2\\ 4.8\\ 14.6\\ 7.1\\ 1.2\\ .7\\ 11.2 \end{array}$	$\begin{array}{c} 17.9\\ 22.8\\ 11.3\\ 19.6\\ 6.2\\ 5.7\\ 5.2\\ 1.4\\ 2.0\\ .2\\ 7.8 \end{array}$	$ \begin{array}{r} 13.5\\ 18.6\\ 9.7\\ 6.1\\ 10.6\\ 2.3\\ 13.5\\ .7\\ 25.0\\ \end{array} $	9.3 22.6 3.3 2.6 15.6 1.1 5.2  40.4	$ \begin{array}{c} 10.5 \\ 17.3 \\ ^{8} 36.3 \\ 6.0 \\ (^{8}) \\ 4.6 \\ 5.6 \\ 10.3 \\ ^{9} 3.0 \\ (^{10}) \\ 6.3 \\ \end{array} $	23.529.98 22.37.5(8)4.92.52.39.9(10)6.3

### TABLE 16.—Distribution of injuries to male and female employees by cause, 1930 and 1931

[For sources of information, see appendix]

Some classifying done by Women's Bureau.
 For period covered and injuries tabulated see chart II, facing p. 9. Closed compensable cases shown for Illinois.
 Excludes 916 not reporting cause.
 Excludes 32 not reporting cause.
 The numbers reported for a 2-year period have been divided by 2.

<sup>6</sup> Excludes 507 not reporting cause.
<sup>7</sup> Excludes 31 not reporting cause.
<sup>8</sup> Hand tools are included in handling of objects.
<sup>9</sup> Includes occupational disease.
<sup>10</sup> Included in miscellaneous and indefinite.

INDUSTRIAL INJURIES TO WOMEN R 1930 AND 1931

# TABLE 17.— Cause of injuries to male and female employees, Illinois, 1930, by industry group

the new second of the second of	all startes					1. 1.1.1		an Sunn	,	appone										
A new providence of the providence of the						ast.	*	Tan	I	ndustr	y group						1		9	
Сацяе	Total re	eported	Agrica and e tive i tri	ulture xtrac- ndus- ies	Manu	factur- 1g	Constr	ruction	Trans	porta- )n	Comm	unica- on	Trad fina	e and ince	Profes	ssional vice	Govern tal se	nmen- rvice	Service other classi	es not wise fied
	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male
							NU	MBE	R 1		(									
Total	<sup>2</sup> 39, 010	2 2, 359	6, 343	9	15, 515	1,024	6, 222	5	2, 608	10	192	90	3, 991	402	371	137	712	8	3, 056	674
Machinery Falls of persons Handling objects Stapping on or striking against	5, 238 6, 150 8, 734	556 727 361	469 431 989	$\begin{array}{c}1\\2\\2\end{array}$	3, 558 2, 021 3, 882	$\begin{array}{r} 426 \\ 174 \\ 166 \end{array}$	475 1, 580 1, 278	3	$     \begin{array}{r}       130 \\       356 \\       741     \end{array} $	1 1 3	$\begin{array}{r}3\\58\\19\end{array}$	2 49 3	$310 \\ 706 \\ 1,048$	$29 \\ 166 \\ 85$	$\begin{array}{r} 31\\132\\69\end{array}$	$\begin{array}{r}10\\68\\16\end{array}$	18     160     102	1 6	$\begin{array}{r} 244\\706\\606\end{array}$	86 258 86
objects objects Hand tools Explosions, electricity, heat, etc Falling objects Vehicles	3, 067 2, 370 1, 800 3, 952 4, 553	209 78 109 84 59	$\begin{array}{c} 374 \\ 471 \\ 157 \\ 1,729 \\ 1,282 \end{array}$	 1 	1, 272 811 970 1, 017 898	90 43 20 31 10	$\begin{array}{r} 623 \\ 415 \\ 172 \\ 682 \\ 424 \end{array}$	1	$159 \\ 143 \\ 52 \\ 122 \\ 677$		$     \begin{array}{r}       19 \\       15 \\       9 \\       5 \\       41     \end{array} $	7 4 1 3 10	$324 \\ 273 \\ 109 \\ 172 \\ 709$	$33 \\ 8 \\ 10 \\ 21 \\ 19$	$26 \\ 16 \\ 14 \\ 16 \\ 37$	$     \begin{array}{c}       10 \\       4 \\       10 \\       3 \\       2     \end{array} $	$     49 \\     36 \\     26 \\     95 \\     156   $		$221 \\ 190 \\ 291 \\ 114 \\ 329$	69 18 67 26 13
trial poisoning Poisonous and corrosive sub- stances Animals	310 376 299	30 16 4	3 12 87		212 147 67	8 7 1	61 144 28		3 8 29	1	 2 1	1	14 15 37	6	3 4 4	1 3	 10 8		14 34 38	13 6 2
Miscellaneous	2, 161	126	339		660	48	340	1	188	3	20	10	274	24	19	10	52		269	30

### [For source of information, see appendix]

PERCENT DISTRIBUTION BY CAUSE OF INJURY

Total	100.0	100.0	100.0	(3)	100.0	100.0	100.0	(3)	100.0	(3)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	(3)	100.0	100.0
Machinery	13. 4	23.6	7.4		22.9	41.6	7.6		5.0		1.6	2.2	7.8	7.2	8.4	7.3	2.5		8.0	12.8
Falls of persons	15.8	30.8	6.8		13.0	17.0	25.4		13.7		30.2	54.4	17.7	41.3	35.6	49.6	22.5		23.1	38.3
Handling objects	22.4	15.3	15.6		25.0	16.2	20.5		28.4		9.9	3.3	26.3	21.1	18.6	11.7	14.3		19.8	12.8
Stepping on or striking against					Here is				1	-			and the second		And the second		and the second		下 选择 :	
objects	7.9	8.9	5.9		8.2	8.8	10.0		6.1		9.9	7.8	8.1	8.2	7.0	7.3	6.9		7.2	10.2
Hand tools	6.1	3.3	7.4		5.2	4.2	6.7		5.5		7.8	4.4	6.8	2.0	4.3	2.9	5.1		6.2	2.7
Explosions, electricity, heat, etc	4.6	4.6	2.5		6.3	2.0	2.8		2.0		4.7	1.1	2.7	2.5	3.8	7.3	3.7		9.5	9.9
Falling objects	10.1	3.6	27.3		6.6	3.0	11.0		4.7		2.6	3.3	4.3	5.2	4.3	2.2	13.3		3.7	3.9
Vehicles	11.7	2.5	20.2		5.8	1.0	6.8		26.0		21.4	11.1	17.8	4.7	10.0	1.5	21.9		10.8	1.9
Occupational disease and indus-								and the second					the second	1. 186		and the		2	The start	
trial poisoning	.8	1.3	(4)		1.4	.8	1.0		.1			1.1	.4	1.5	.8	.7			.5	1.9
Poisonous and corrosive sub-									a family	104	1					1. 251	Sha Jihi		and the second of	
stances	1.0	.7	.2		. 9	.7	2.3		.3		1.0		.4		1.1	2.2	1.4		1.1	.9
Animals	.8	.2	1.4		. 4	.1	.5		1.1		. 5		.9	.2	1.1		1.1		1.2	. 3
Miscellaneous	5.5	5.3	5.3		4.3	4.7	5.5		7.2		10.4	11.1	6.9	6.0	5.1	7.3	7.3		8.8	4.5
								4 23		And the		10.5		and the second sec	215	and the	126 13		The the st	
				0		Charles Cont	12 12	The Mary	and the second	1440	Den an Ma		22-14	-	a year soon		1		No. 18 1	1
					PERCI	ENT D	ISTRI	BUTI	ON BY	IND	USTR	Y								

											1 10 10	The second		and the second	a state	and the second	-	1.1.1.1.1.1			P
Total	100. 0	100.0	16.3	0.4	39.8	43. 4	15.9	0.2	6. 7	0.4	0.5	3. 8	10. 2	17.0	1. 0	5. 8	1.8	0.3	7.8	28.6	M O
Machinery Falls of persons Handling objects	100. 0 100. 0 .100. 0	100.0 100.0 100.0	9.0 7.0 11.3	$     \begin{array}{r}         2 \\         .3 \\         .6         $	67. 9 32. 9 44. 4	76. 623. 946. 0	9. 1 25. 7 14. 6	.4	2.5 5.8 8.5	.2 .1 .8	.1 .9 .2	.4 6.7 .8	5.9 11.5 12.0	5.2 22.8 23.5	.6 2.1 .8	1.8 9.4 4.4	. 3 2. 6 1. 2	.2 .8	$ \begin{array}{r} 4.7\\ 11.5\\ 6.9 \end{array} $	$     15.5 \\     35.5 \\     23.8 $	IOME.
Stepping on or striking against objects Hand tools. Explosions, electricity, heat, etc. Falling objects	100. 0 100. 0 100. 0 100. 0	100.0 100.0 100.0 100.0	12. 219. 98. 743. 7	1.0	$\begin{array}{c} 41.5\\ 34.2\\ 53.9\\ 25.7\\ 10.7\end{array}$	$\begin{array}{c} 43.\ 1\\ 55.\ 1\\ 18.\ 3\\ 36.\ 9\\ 16.\ 0\end{array}$	$20.3 \\ 17.5 \\ 9.6 \\ 17.3 \\ 0.2 \\ 0$	1.3	5.2 6.0 2.9 3.1		.6     .6     .5     .1	3.3 5.1 1.0 3.6 16.0	$10.6 \\ 11.5 \\ 6.1 \\ 4.4 \\ 15.6 \\ 15$	$     15.8 \\     10.3 \\     9.2 \\     25.0 \\     22.2 \\     25.0 \\     22.2 \\      22.2 \\     22.2$	.8 .7 .8 .4	4.8 5.1 9.2 3.6	$     \begin{array}{r}       1.6 \\       1.5 \\       1.4 \\       2.4 \\       2.4     \end{array} $		7.28.016.22.97.2	$\begin{array}{c} 33.\ 0\\ 23.\ 1\\ 61.\ 5\\ 31.\ 0\\ 22.\ 0\end{array}$	N IN 1
Occupational disease and indus- trial poisoning Poisonous and corrosive sub-	100.0	(3)	1.0	5.0	19. 7 68. 4		9.3		14.9	1. /	.9		4.5		1.0			1. 1	4.5		930
stances Animals Miscellaneous	100. 0 100. 0 100. 0	(3) (3) 100.0	$\begin{array}{c} 3.2 \\ 29.1 \\ 15.7 \end{array}$		39. 1 22. 4 30. 5	38.1	38.3 9.4 15.7		$2.1 \\ 9.7 \\ 8.7$	2.4	.5 .3 .9	7.9	4.0 12.4 12.7	19.0	1.1 1.3 .9	7.9	2.7 2.7 2.4		9.0 12.7 12.4	23.8	AND.

INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

48

INDUSTRIAL INJURIES T

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<sup>1</sup> Compensable cases occurring.
 <sup>2</sup> Excludes 918 injuries to males and 49 to females for which one or both of these factors was not reported.
 <sup>3</sup> Not computed; base less than 50.
 <sup>4</sup> Less than 0.05 percent.

49

### Cause according to industry

Table 17 makes possible a further analysis within each industry of the immediate causes of injury in Illinois. Falls, causing the largest number of women's injuries and the second largest number of men's, were principally in manufacturing for men and in services for women. Over one-third of women's falls occurred in services; about one-fourth were in manufacturing and almost as many in trade and finance.

Machinery caused almost one-fourth of women's injuries as compared to slightly more than one-eighth of men's. This difference is due in part to the larger proportion of women's injuries than of men's that are in manufacturing and in part to the heavier work done by men. Handling objects caused more injuries to men in manufacturing than did machinery. Manufacturing accounted for over three-fourths of the disabilities to women from machinery, about two-thirds of those to men.

Handling objects, chief in importance to men, ranked third with women. The greatest number of all injuries from this cause was in manufacturing, though almost a fourth to women were in trade and finance and about another fourth were in services. A considerable number (more than one-tenth) of men's accidents from this cause were in construction and in trade and finance.

Vehicles and falling objects, each causing over 10 percent of men's injuries, were of principal importance in the extractive industries.

### WAGES AND COMPENSATION

Table 18 and plates IV and V show how much less adequate are women's wages than men's to meet an emergency caused by incapacity for work for any length of time. Compensation is based in each State on a certain percentage of the weekly wage received by the injured, with minimum and maximum limits. In Illinois in 1930, 65 percent of the women injured earned less than \$20 a week, while only 11 percent of the men earned so little; in New York 60 percent of the women but only 20 percent of the men received \$20 a week or less. In Wisconsin almost three-fourths of the women in contrast to one-sixth of the men earned under \$20.





### PLATE V. AVERAGE AMOUNT OF COMPENSATION PAID MEN AND WOMEN, BY EXTENT OF DISABILITY, ILLINOIS, 1930

		[1 OI D		normation	, bee upper		and the second		and the second	10 10 M	198	10 Mar.								
	1930 1										1931 1									
Weekly wage	Illii	nois	New	York	Wisc	onsin	Illin	nois	New	York	Wisc	onsin								
	Male Female		Male	Male Female		Female	Male	Female	Male	Female	Male	Female								
NUMBER 2																				
Total	39, 928	2,408	97, 733	9, 579	19, 143	927	30, 926	2, 241	89, 033	9, 391	16,067	876								
Wages not reported Total reported	<sup>3</sup> 151 39, 777	7 2,401	2, 760 94, 973	334 9, 245	13 19, 130	927	82 30, 844	4 2, 237	2, 185 86, 848	316 9, 075	8 16, 059	876								
Less than \$10	$\begin{array}{c} 225\\ 949\\ 3,211\\ 7,539\\ 6,771\\ 7,211\\ 4,256\\ 3,702\\ 1,680\\ 1,395\\ 657\\ 2,181\\ \end{array}$	$\begin{array}{c} 106\\ 549\\ 908\\ 366\\ 212\\ 212\\ 118\\ 57\\ 25\\ 15\\ 15\\ 17\\ 3\\ 25\\ \end{array}$	$\begin{array}{r} 4 520 \\ 4 2,733 \\ 4 7,885 \\ 4 16,885 \\ 4 20,335 \\ 4 14,817 \\ 4 9,953 \\ 4 6,129 \\ 4 5,725 \\ 4 2,564 \\ 4 2,282 \\ 4 5,645 \end{array}$	<sup>4</sup> 661 <sup>4</sup> 2, 734 <sup>4</sup> 2, 139 <sup>4</sup> 1, 511 <sup>4</sup> 934 <sup>4</sup> 549 <sup>4</sup> 331 <sup>4</sup> 149 <sup>4</sup> 130 <sup>4</sup> 29 <sup>4</sup> 38 <sup>4</sup> 40	77 469 2, 525 4, 715 3, 311 3, 607 1, 945 1, 088 546 382 182 283	38 318 326 139 50 31 14 6 \$5	$\begin{array}{r} 369\\ 1,370\\ 3,397\\ 6,486\\ 4,718\\ 4,676\\ 3,042\\ 2,540\\ 1,186\\ 1,068\\ 404\\ 1,588\end{array}$	$\begin{array}{c} 163\\ 683\\ 718\\ 331\\ 156\\ 97\\ 43\\ 14\\ 10\\ 12\\ 3\\ 7\end{array}$	$\begin{array}{r} 797\\ 4,059\\ 8,941\\ 15,690\\ 16,594\\ 11,766\\ 9,818\\ 4,527\\ 5,339\\ 2,093\\ 1,908\\ 5,316\end{array}$	$\begin{array}{r} 834\\ 2,786\\ 1,941\\ 1,458\\ 901\\ 556\\ 286\\ 114\\ 118\\ 22\\ 24\\ 35\\ \end{array}$	$105 \\ 975 \\ 2,562 \\ 3,957 \\ 2,754 \\ 2,700 \\ 1,386 \\ 686 \\ 363 \\ 267 \\ 100 \\ 204$	$ \begin{array}{r}     43 \\     330 \\     270 \\     120 \\     45 \\     28 \\     19 \\     9 \\     \delta 12 \\   \end{array} $								
	1		Pr	LRCENT		100.0	100.0	100.01	100.0	100.01	100.0	100.0								
Less than \$10. \$10 and less than \$15 \$15 and less than \$25 \$20 and less than \$25 \$25 and less than \$30 \$30 and less than \$35 \$35 and less than \$40 \$40 and less than \$45 \$45 and less than \$55 \$50 and less than \$60 \$60 and exert	$\begin{array}{c} 100.0\\ \hline & .6\\ 2.4\\ 8.1\\ 19.0\\ 17.0\\ 18.1\\ 10.7\\ 9.3\\ 4.2\\ 3.5\\ 1.7\\ 5.5\end{array}$	$   \begin{array}{r}     100.0 \\     4.4 \\     22.9 \\     37.8 \\     15.2 \\     8.8 \\     4.9 \\     2.4 \\     1.0 \\     .6 \\     .7 \\     .1 \\     1.0 \\   \end{array} $	$\begin{array}{r} 100.0\\ \hline 4.5\\ 42.9\\ 47.8\\ 417.8\\ 421.4\\ 415.6\\ 410.5\\ 46.5\\ 46.5\\ 46.0\\ 42.7\\ 42.4\\ 45.6\end{array}$	$\begin{array}{r} 100.0\\ \hline 47.1\\ 429.6\\ 423.1\\ 416.3\\ 410.1\\ 45.9\\ 43.6\\ 41.6\\ 41.4\\ 4.3\\ 4.4\\ 4.4\end{array}$	$\begin{array}{c}$	$     \begin{array}{r}       4.1 \\       34.3 \\       35.2 \\       15.0 \\       5.4 \\       3.3 \\       1.5 \\       .6 \\             5.5 \\       \hline       \end{array} $	$   \begin{array}{r}     1.000 \\     1.2 \\     4.4 \\     11.0 \\     21.0 \\     15.3 \\     15.2 \\     9.9 \\     8.2 \\     3.8 \\     3.5 \\     1.3 \\     5.1 \\   \end{array} $	$   \begin{array}{r}     7.3 \\     7.3 \\     30.5 \\     32.1 \\     14.8 \\     7.0 \\     4.3 \\     1.9 \\     .6 \\     .4 \\     .5 \\     .1 \\     3   \end{array} $	$\begin{array}{r} .9\\ .9\\ 4.7\\ 10.3\\ 18.1\\ 19.1\\ 13.5\\ 5.2\\ 6.1\\ 2.4\\ 2.2\\ 6.1\end{array}$	$\begin{array}{r} 100.0 \\ \hline 9.2 \\ 30.7 \\ 21.4 \\ 16.1 \\ 9.9 \\ 6.1 \\ 3.2 \\ 1.3 \\ 1.3 \\ 1.3 \\ .2 \\ .3 \\ .4 \end{array}$	$\begin{array}{c} 100.0\\ & .7\\ & .6\\ 1116.0\\ 24.6\\ 17.1\\ 16.8\\ 8.6\\ 4.3\\ 2.3\\ 1.7\\ & .6\\ 1.3\end{array}$	4.9 37.7 30.8 13.7 5.1 3.2 2.2 1.0 ⁵ 1.4								

### TABLE 18.—Distribution of injuries to male and female employees by weekly wages, 1930 and 1931 [For sources of information see annendix]

<sup>1</sup> In addition Indiana reported the average weekly wage for females as \$13.90 in 1930 and \$13.27 in 1931.
 <sup>2</sup> For Illinois, compensable cases occurring, calendar year; New York and Wisconsin, closed compensable cases, calendar year.
 <sup>3</sup> Includes 1 receiving no wage.
 <sup>4</sup> Wage groups are \$10 and under, over \$10 and including \$15, over \$15 and including \$20, and in \$5 groups to over \$60.
 <sup>4</sup> \$45 and over.

INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

In 1930, from about 1 percent to 4 percent of the women, in contrast to from 13 to 25 percent of the men, made as much as \$40 a week. The relative proportions in 1931 are quite similar.

In the table following is the amount of compensation received by men and women in Illinois for injuries of specified seriousness. The last column shows the percent by which average compensation for women was lower than that for men. The lower compensation to women indicates the lower wages on which compensation is based. Even in fatal cases the compensation to dependents of women averaged less than half as much as the compensation to dependents of men. Though the loss in income to the family usually is not so great when a woman is injured, the real loss may be even greater than when a man is injured. An extraordinary proportion of injured women are married and have children. Injury to a woman often means loss of the home maker as well as loss of earnings, and compensation should take this into account.

### TABLE 19.—Total and average amount of compensation paid in Illinois <sup>1</sup> in 1930. by sex and extent of disability

		Amount of co pai	Percent by which average for			
Sex and extent of disability	accidents	Total	Average per acci- dent	females is lower than that for males		
All accidents Males Females	45, 921 44, 038 1, 883	\$10, 774, 609 10, 556, 923 187, 686	\$234 240 100	58.3		
Fatal Males Females	685 683 2	1, 869, 651 1, 867, 344 2, 307	2, 729 2, 734 1, 154	57.8		
Permanent total Males Females	38 38	165, 381 165, 381	4, 352 4, 352			
Permanent partial Males Females	11, 853 11, 519 334	6, 540, 026 6, 415, 719 124, 307	552 557 372	33. 2		
Disfigurement Males Females	1, 370 1, 321 49	152, 395 148, 122 4, 273	111 112 87	22, 3		
Temporary total Males Females	31, 203 29, 739 1, 464	$\begin{array}{c} 1,574,834\\ 1,524,218\\ 50,616 \end{array}$	50 51 35	31.4		
Temporary partial. Males. Females.	$182 \\ 166 \\ 16$	13, 235 12, 930 305	73 78 19	75.6		
Not otherwise classified Males Females	551 534 17	418, 051 412, 173 5, 878	759 772 346	55. 2		
Extent of disability not reported Males Females	39 38 1	11, 036 11, 036	283 290			

[For source of information, see appendix]

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### <sup>1</sup> Closed compensable cases.

State	Source	Page references for table—																		
		1	2	3	4	5	6	7	81	9	10	11	12	13	14	15	16	17	18	19
Colorado	Biennial reports of Industrial Com- mission, periods ended Nov. 30, 1928, 1930, 1932. (Tenth, eleventh, and	22, 10, 8																		
Idaho	Biennial reports of industrial Accident Board, period ended Oct. 31: 1928 (sixth report)	139 121	121																	
Illinois	Annual reports of Department of Labor, years ended June 30: 1928 (eleventh report)	87	87																	
Indiana	1929 (twelfth report) 1930 (thirteenth report) Unpublished data for 1930 <sup>2</sup> Unpublished data for 1931 <sup>2</sup> Annuel reports of Industrial Roard	74 148 ( <sup>2</sup> ) ( <sup>2</sup> )	(2) (2)	(2) (2)	(2)	(2)		(2) (2)		(2)	·		 (2)		(2) (2)	(2)	(2) (2)	 (2)	(2) (2)	(2)
Indiana	Annual reports of industrial Board, years ended Sept. 30: 1927	2, 3 28, 63 26, 61																		
Addition of the product of	1930 1931	4, 50 3, 50				19, 57 16, 56	19, 57	28, 62 25, 61							8, 50 6, 50		14, 54 12, 53			
Iowa	Biennial reports of Bureau of Labor, periods ended June 30: 1928 (twenty-third report)	8.9	8					1												
Kentucky	1930 (twenty-fourth report) 1932 (twenty-fifth report) Annual reports of Workmen's Com- pensation Board, years ended June	9, 11 9, 12			9, 11 9, 12												9, 11 9, 12			
	30: 1927 (eleventh report) 1928 (twelfth report) 1929 (thirteenth report) 1930 (fourteenth report)	5 5 5 5 5																		

### Page references in State reports classifying accident statistics by sex, 1927 to 1931, used in tables 1 to 19

APPENDIX

See footnotes at end of list;

INDUSTRIAL INJURIES TO WOMEN IN 1930 AND 1931

State	Source	Page references for table—																		
	esting	1	2	3	4	5	6	7	81	9	10	11	12	13	14	15	16	17	18	19
Maryland	Annual reports of Industrial Accident				1.										lan New		-			
	Commission, years ended Oct. 31:	24			30 TR.	le se se		all and												Section 2.
	1928 (fourteenth report)	24																		
	1929 (fifteenth report)	26																		
	1930 (sixteenth report)	23	23					23		23										
	1931 (seventeenth report)	23	23	1				23		23										
Massachusetts_	Annual reports of Department of In-	1																		
	dustrial Accidents, years ended	and the	Sec. Sec.	1												1. 1 A 1				
	June 30:	Service 1				an and	and a second		1.28			and the								
	1927 (fifteenth report)	34																		
	1928 (Sixteenth report)	34																		
	1929 (Seventeenth report)	30																		
	1031 (nineteenth report)	24	24					34		34										
Minnesota	Biennial report Department of Labor	117	117					04 117		34										
11111105000	and Industry (twenty-third report	111	111					117		117										
	1931-32) contains biennial report of				7.5					-										
	Industrial Commission (sixth re-											1.000								3 6 1
	port) 2 years ending June 30, 1932.		138361			1.20						14.								
New Jersey	Industrial Bulletin of Department of	a la calita	1			2.72 St. 1														
	Labor:		1								a the state		S. C.S.					(Lase 1)		
	September 1928	43, 45																		
	September 1929	27,35																		
	September 1931	16,40	16,46					16,46		16,46	16, 47				17, 46	17,46	16, 47			
	Report for color wear 1021	12	12					6, 12		6, 12	2, 6, 12				4, 7	5, 7, 12	2,6			
New York	Special bulleting of Department of											See.								
NOW TOIR	Labor.		1								•					No. Contraction				Same for
	No. 157. Compensation Statistics	56	1																	
	vear ended June 30, 1927.	00															3			
	No. 160, Cost of Compensation.	32, 33																		
	year ended June 30, 1928.	1 Area		N. A	1.1.1.1							14 1		1 the						
	No. 170, Cost of Compensation, 2	127																		
	years ended June 30, 1930.									1. S.										7
	No. 178, Cost of Compensation, 2			- Secold						and the second			5 200							
	years:	07	00	and a	and the second	Salar Lord		00		00				1.1		Sec. 1		and the second		
	1930	21	89					89		89									84	
North Carolina	First Appuel Report of Industrial	12/	91					91		91									87	
Torth Caronna_	Commission year ended June 20	49												43						
	1030				1	The level of														

Page references in State reports classifying accident statistics by sex, 1927 to 1931, used in tables 1 to 19-Continued

Pennsylvania	Labor and Industry, Bulletin of De- partment of Labor and Industry, vol. XVIII, no. 6, June:																		
	1931	9	9						 					9		 			
DI 1 T. 1	1931 2	(1)	(1)						 					(1)		 			
Rhode Island	Reports of Commissioner of Labor for											The second							F
	years:	10										5	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		1.1.1.1.1.1.1				H
	1092	12							 							 			Ľ
	1920	10							 							 			TO
	1030	12						12	 							 			H
	1931	25						25	 							 			R
South Dakota	Annual reports of Industrial Commis-																		I
	sioner, years ended June 30:															Carlo			H
	1930 (thirteenth)	8							 							 			-
	1931 (fourteenth)	10							 							 			H
Wisconsin	Wisconsin Labor Statistics:				12.00						1 2 3	1.75							Z
	Bulletin No. 28, July 28, 1930	4, 11							 							 			L
	Bulletin No. 35, July 10, 1931							3	 3							 			JI
	Bulletin No. 41, July 31, 1932								 					1		 	9 4 7		RI
	Bulletin No. 42, June 14, 1932	1,9	1,9					4, 8	 4, 0, 8		9			8		 	0, 4, 1		E
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<sup>1</sup> Table footnoted for source. <sup>2</sup> Illinois data for 1930 and 1931 and Pennsylvania data for 1931 from unpublished tables.

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