UNITED STATES DEPARTMENT OF LABOR WOMEN'S BUREAU

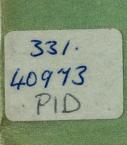
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Bulletin No. 159

TRENDS IN THE EMPLOYMENT OF WOMEN, 1928–36



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TRENDS IN THE EMPLOYMENT OF WOMEN, 1928-36

MARY ELIZABETH PIDGEON

By



Bulletin of the Women's Bureau, No. 159

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CONTENTS

| | Page |
|--|------|
| Letter of transmittal | 1 |
| Introduction | 1 |
| Sources of information on the employment of women | |
| Method of analysis | 2 |
| General summary | 3 |
| Employment in all occupations | 3 |
| Comparison of employment in 1930 and most recent year reported | 3 |
| Proportions women formed of all employees, 1930 and most recent | |
| year reported | 4 |
| Employment in manufacturing industries | 4 |
| Direction of employment trend for women and for men in most recent | |
| year reported | 7 |
| Proportions women formed of all manufacturing employees in 1930 | |
| and most recent year reported | 7 |
| Manufacturing employment in the various States | 8 |
| Employment in particular manufacturing industries | 13 |
| Industries with high and with low employment levels | 14 |
| Employment in the textile industries | 17 |
| Employment in the clothing industries | 22 |
| Employment in the shoe industry | 22 |
| Employment in the food industries | 25 |
| Employment in the paper and printing industries | 27 |
| Employment in electrical manufacturing | 27 |
| Employment in glass making | 30 |
| Employment in the rubber industry | 30 |
| Employment in certain metal industries | 31 |
| Employment in chemical industries | 31 |
| Employment in nonmanufacturing industries | 31 |
| Employment in service industries | 32 |
| Employment in telegraph and telephone operation | 32 |
| Employment in stores | 33 |
| Employment in clerical occupations | 33 |
| Appendix ATypes of data reported and method of handling material | 35 |
| The use of index numbers in analyzing trends in women's employment_ | 35 |
| Data available on woman employment | 35 |
| Industry titles (for groups or details) as used in Women's Bureau dis- | |
| cussion and titles corresponding most closely as used in State | |
| reports | 38 |
| Appendix B.—General tables | 42 |

TEXT TABLE

| Indexes of | employment | of | wage | earners | in | manufacturing | industries in | |
|------------|------------|----|------|---------|----|---------------|---------------|--|
| five State | es | | | | | | | |

111

CONTENTS

GENERAL TABLES

Indexes of employment of women and men in important woman-employing industries:

| Illinois | 4 |
|---------------|---|
| Massachusetts | 4 |
| Ohio | 4 |
| Virginia | 4 |
| New York | |

CHARTS

Employment trends for women and men, by State:

| All manufacturing | 6 |
|-----------------------------------|----|
| Bakery products | 12 |
| Textiles (total) | 18 |
| Knit goods | 19 |
| Women's clothing | 20 |
| Men's clothing | 21 |
| Boots and shoes | 23 |
| Confectionery | 24 |
| Tobacco manufactures | 26 |
| Printing and publishing | 28 |
| Electrical machinery and supplies | 29 |
| Rubber products | 30 |
| | |

LETTER OF TRANSMITTAL

UNITED STATES DEPARTMENT OF LABOR, WOMEN'S BUREAU, Washington, April 21, 1938.

MADAM: I have the honor to transmit to you a report on Trends in

the Employment of Women, 1928–36. Among the various demands for information of this type, which in the past has existed to such a meager extent, are those that come to us from persons interested in placing the unemployed and in advising women as to types of occupations that they may effectively seek or prepare themselves to enter.

With the material on employment and pay rolls by sex that is now being obtained semiannually by the Women's Bureau through the cooperation of the Bureau of Labor Statistics, it is hoped that this type of information can be much more fully developed in the future and can be put in such form as to be of continuous use in formulating policies and plans that will be to the advantage of employed women.

I greatly appreciate the cooperation of the various State agencies whose material has been made available to the Women's Bureau, much of it in unpublished form, for this analysis.

The study is the work of Mary Elizabeth Pidgeon, Chief of the Division of Research.

Respectfully submitted.

MARY ANDERSON, Director.

Hon. FRANCES PERKINS, Secretary of Labor.

IV

TRENDS IN THE EMPLOYMENT OF WOMEN, 1928-36

INTRODUCTION

Many requests come to the Women's Bureau of the United States Department of Labor for information as to woman employment since the latest decennial census year, 1930. While at the present time no data are available on this subject for the entire United States,¹ there are scattering sources of material that give some indications as to the more general trends. Certain of these have been discussed in earlier bulletins of this Bureau, the latest of which sought to bring together information as to what was happening to employed women as a result of the general economic depression.² At present, when recovery from the worst depressed period has been experienced, it is of importance to examine the extent to which increases in employment have affected women, especially as compared to their level of employment in 1930 or the peak of 1929; and to ascertain to what extent women are advancing or receding as a proportion of all employed persons.

Though the Women's Bureau never has had facilities for preparing monthly reports as to women's employment and wages, and this information has not been provided by any other agency except in a very few States, there is now being initiated, through the cooperation of the United States Department of Labor and various State labor departments, a semiannual reporting of sample data that will give some idea of the current trends in women's employment and wages such as are reported periodically by the Bureau of Labor Statistics for the two sexes combined. The present bulletin, taken in connection with the earlier Women's Bureau publications on employment trends, will form a background from which this material can be developed as it becomes currently available.

SOURCES OF INFORMATION ON THE EMPLOYMENT OF WOMEN

Employment data from eight States are used in the present publication. In some cases the material is from an annual census, or a special census, in others from employment figures regularly reported or indexes constructed from such figures to show trends. The eight States represented employed, at the time of the United States Census

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UNITED STATES DEPARTMENT OF LABOR W

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Washington, MpHil 21, 1938.

DAM: I have the bonor to transmit to you a report of Trends in

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> Division of Research. Respectfully submitted.

MARY ANDERSON, Director.

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Scorebary of Labor

¹ The Census of Manufactures, taken biennially, reports only total number of wage earners and gives infor mation by sex only once in 10 years. The Census of Distribution reports some data by sex for certain non manufacturing groups, but since the figures are given only for reporting firms there is no adequate method of checking with 1930 data.

^a Women's Bureau Bull. 73, Variations in Employment Trends of Women and Men (deals with Ohio figures), 1930; and Bull. 113, Employment Fluctuations and Unemployment of Women, 1928–31 (deals with periodic employment data on women from three States), 1933.

TRENDS IN EMPLOYMENT OF WOMEN, 1928-36

2

of 1930, nearly 55 percent of all the women engaged in manufacturing and mechanical industries in the entire United States. The list follows:

| Illinois. Massachusetts. Michigan. | New York. Ohio. Pennsylvania. | Rhode Island. Virginia. |
|--|-------------------------------------|----------------------------|
| | | vingillia. |

Some detail is shown in appendix A as to the types of reports available from these various States and the way in which they have been prepared for use here.

The analysis made in this report is based primarily on the indexes of employment of men and women in September of each year from New York, Illinois, and Ohio, and similar indexes constructed from figures reported by the Massachusetts annual census, which are given by sex in even years, and from the annual reports of the Virginia Department of Labor and Industry. These indexes are found in tables I to V in appendix B.³

In addition to use of the indexes mentioned, the proportions women constitute of all employees have been ascertained for several States. In Massachusetts, Ohio, and Virginia these are obtained from the figures on which the indexes were constructed. In Michigan, Rhode Island, and Pennsylvania they are based on a State census in a recent year and on the 1930 United States Census where the classifications are sufficiently alike in the two sources.⁴

METHOD OF ANALYSIS

The general trend of employment for each sex is measured by indexes wherever available. In particular, effort is made to relate the condition at the latest date to that prevailing in 1930 and at the 1929 peak, and to show the movement within recent years since the lowest point of the depression.⁵

In addition, in a few cases where actual figures enable such a comparison, the percentage change in the employment of women and men from 1930 to the latest report year available is shown and discussed. In these instances, and also in some others where the figures that can be supplied are not fully comparable from period to period, consideration is given to the proportions women form of the entire number employed in 1930 and at the latest time reported.

Since the public as a whole is interested particularly in the general situation and movement of employment, figures are discussed first for all occupations combined and for all manufacturing taken together. Thereafter, the particular States, and special groups and individual industries important in woman employment, are considered separately. Finally, the nonmanufacturing occupations of women are discussed.

GENERAL SUMMARY

The employment situation of women varies widely from industry to industry, and also differs considerably from State to State. This is true of changes in numbers of women employed, and of changes in the proportions of women and men as well.

The usual picture shown from the various sources examined is that the manufacturing employment of both sexes has increased since the depression low, in some cases markedly. Though it has not always reached a level as high as in 1930, in some instances it has surpassed even the high point of 1929. In a few industries employment has continued to decline, and in the nonmanufacturing groups the advances usually have been small or there have been declines.

In the later years, women form a slightly larger proportion of all persons employed than they did in 1930, though there are many cases of particular industries in which women form a part of the workers smaller than formerly, notably in some of the textile and food groups, which have been among the largest employers of women.

On the whole, the general direction of employment change in an industry in any one State has been similar for the two sexes, though sometimes more extreme for one than for the other. However, there are a number of industries in which the employment movement differed for the two sexes. In these cases employment usually was declining for women though advancing for men in every State reported but New York.

EMPLOYMENT IN ALL OCCUPATIONS

All available indications show that the employment of each sex has increased markedly since the depression low. This is true in the States from which indexes or other figures can be obtained, and also is the case in all but a very few separate industries.

Comparison of Employment in 1930 and Most Recent Year Reported.

The fairly complete employment figures from Ohio and data from three other important industrial States in which a census has been taken-Michigan, Pennsylvania, and Rhode Island-show that in the most recent year reported (1934, 1935, or 1936, as the case may be) the employment of the two sexes combined was less than in 1930, a period before the lowest point of depression had been reached.

On the whole, women seem to have fared better than men in this particular comparison, since men's employment was less than in 1930 in each of the States mentioned, and women's employment, except in Rhode Island, either was above the 1930 level or was not so far below as men's. In Illinois, however, the 1936 indexes of employment based on the samples taken show a considerable decrease from 1930 for women and a slight increase for men. Also, as will be shown later on, there were some particular industries in which employment for men showed increase well beyond 1930, while that of women at the same time was less than in 1930. The summary following gives the extent to which employment in the most recent year reported was above or below that in the census year of 1930, prior to the lowest depression point.6

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 ³ September has been used as the base month because ordinarily it represents normal fall activity, less likely than many other months to characterize an extreme peak or a very low point, except for a few industries, such as fruit and vegetable canning, in which case this factor can be taken especially into account. Moreover, in making the analysis, consideration also has been given in some cases to the indexes for other months in these years, though these could not be published here in full.
 ⁴ Since the Pennsylvania census reports primarily an occupation rather than an industry classification, and includes those seeking work for the first time, comparisons with 1930 can be made only for total employment. For the basis of Michigan and Rhode Island comparisons, see appendix A, pp. 36-37.
 ⁴ Since the purpose of this study is to ascertain the general trends of employment and the employment situation, primarily of women, and not to test nor expound any phase of statistical method, familiarity with the use of index numbers is assumed. However, a brief explanation as to their use may be found on p. 35 in appendix A.

⁶ The comparisons given along these lines include persons who are or have been employed, omitting those never yet employed. This is done here, though certain of the State census figures include these new employees in their totals.

Percentage change in employment from 1930 to

| | and the second of | latest year report | ed |
|--|-------------------|--------------------|---------|
| City and the second sec | All em- | die incomol | ann all |
| State and latest year reported | ployees | Men | Women |
| Michigan, 1935 | -6.9 | -8.0 | -1.9 |
| Ohio, 1935 | -1.8 | -1.9 | -1.4 |
| Pennsylvania, 1934 | -6.2 | -8.3 | +.8 |
| Rhode Island, 1936 | -5.8 | -5.4 | -6.6 |

Though some of these figures might seem to indicate that men were being replaced by women, a closer examination of the data reveal that this was not the case, since the major declines for men ordinarily were not within the area of woman employment. For example, in Michigan and Pennsylvania, where the movement differed most strikingly between the two sexes, the heaviest declines for men occurred in industries in which women usually are not engaged to any important extent, such as mining, heavy metal work, and the building trades, while in some of the other industries declines had been greater for women than for men.

Proportions Women Formed of All Employees, 1930 and Most Recent Year Reported.

Another method of measuring the relative employment standing of the two sexes is to note the proportion women formed of all persons in gainful work in 1930 and again in the latest year reported. Such data usually show women in a slightly better employment situation in the latest year reported than was the case in 1930. The figures are as follows:

| The section of the se | | men were of all ployees |
|--|----------------|----------------------------|
| State and latest year reported Michigan, 1935 | 1930 18.7 | Latest year 19. 7 |
| Ohio, 1935 | 24. 8 | 24. 9 |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 22. 9 29. 6 | $24.6 \\ 29.3$ |

EMPLOYMENT IN MANUFACTURING INDUSTRIES

In the manufacturing industries taken together, the indexes show that the employment of both sexes has advanced markedly, and in most cases continuously, since the depression low. Figures from the States that regularly have presented such data by sex illustrate this and are shown in the following table.

Contrary to the showing of decreased employment in all occupations combined, the employment of both men and women in manufacturing in the latest year available surpassed the level of 1930 in more than half the cases reported. However, there are certain particular manufacturing industries in which this did not occur, and it was not true in the totals for men in New York, for women in Illinois, for either sex in Massachusetts, nor for Negro women in Virginia.

Of the few States with comparable data, in no case did the latest available index figures for manufacturing as a whole show the employment of either sex to be so great as at the peak of 1929, though there were a number of particular industries in which employment, especially for men, was greater than in 1929. Though the decline from 1929 to the low point in employment was greater in each case for men than for women, so was the recovery greater. Only in New

York was women's employment nearer than men's to the 1929 level. It must be remembered that there are some particular industries in which in the latest year reported women held a considerably less favorable place than men.

Indexes of employment of wage earners in manufacturing industries in five States-September of each year, 1928-36¹

[For sources see appendix tables I to V]

| classified (state po | Illinois (June 1928=100) | | Massachusetts (September 1928=100) | | (June | New York (June 1923 =100)Ohio (Sep- tember 1928 =100)VirVir | | Virginia ¹ (| | 10) | | |
|-------------------------|--|--|--|---|--|---|--|---|---|---|---|---|
| Year | Women | Mon | Women | Mon | Women | Men | Women | Mon | Won | nen | Me | en |
| W | women | Men | women | Men | W OHIER | wien | W OILIEI | | White | Negro | White | Negro |
| 1928 | $ \begin{array}{r} 104 \\ 111 \\ 89 \\ 76 \\ 61 \\ 73 \\ 80 \\ 79 \\ 88 \\ \end{array} $ | $ \begin{array}{r} 101 \\ 108 \\ 85 \\ 69 \\ 54 \\ 72 \\ 77 \\ 80 \\ 92 \\ \end{array} $ | $\begin{array}{c} 100 \\ (^2) \\ 87 \\ (^2) \\ 72 \\ (^2) \\ 72 \\ (^2) \\ (^2) \\ (^2) \end{array}$ | $100 \\ (2) \\ 88 \\ (2) \\ 65 \\ (2) \\ 73 \\ (2) \\ ($ | 85 91 80 73 59 68 72 75 81 | 84 90 77 66 51 62 65 69 75 | 100 109 86 78 (²) 85 83 91 (²) | $ \begin{array}{c} 100\\ 104\\ 80\\ 66\\ (^2)\\ 75\\ 72\\ 86\\ (^2) \end{array} $ | 100 94 91 102 112 121 129 | 100 83 86 83 97 91 99 | 100 101 88 96 104 115 120 | 100 93 83 89 100 111 12 |

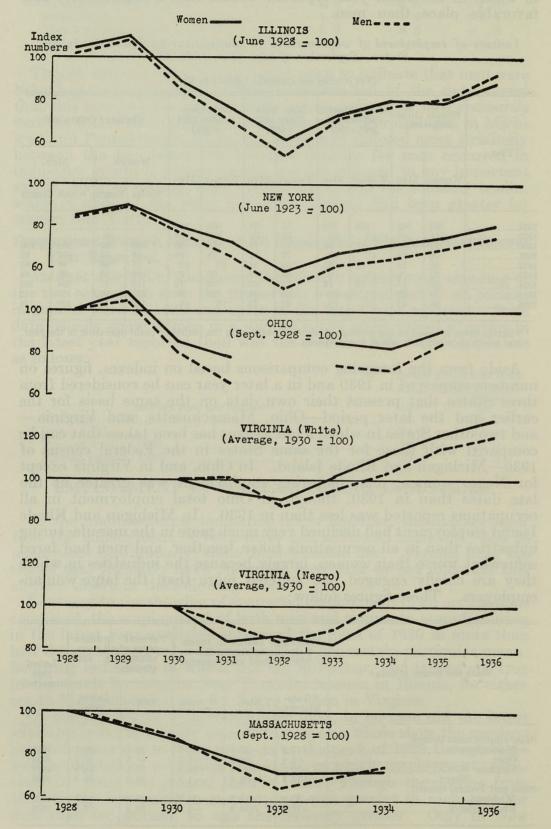
¹ Virginia index is based on the average of employment during the period of plant operation in the year. ² Not available when this report was prepared.

Aside from the foregoing comparisons based on indexes, figures on numbers employed in 1930 and in a later year can be considered from three States that present their own data on the same basis for the earlier and the later period-Ohio, Massachusetts, and Virginiaand two other States in which a late census has been taken that can be compared with those for the same States in the Federal census of 1930-Michigan and Rhode Island. In Ohio, and in Virginia except for Negro women, manufacturing employment was greater at the late dates than in 1930, though in Ohio total employment in all occupations reported was less than in 1930. In Michigan and Rhode Island employment had declined very much more in the manufacturing industries than in all occupations taken together, and men had fared somewhat worse than women, largely because the industries in which they are chiefly engaged had suffered more than the large womanemployers. These figures follow:

| State and source of data | facturin | ge change i ig employn latest year | nent from | Percent were of ufacturi ployees | Latest year reported | |
|---|---|---|---------------------------------------|---|--|--|
| ni antheir co annacha aith 1801 al 3501 mori sairtenna | All em- ployees | Men | Women | 1930 | Latest year | Teportec |
| State employment figures: Massachusetts Ohio | $-17.1 \\ +6.4 \\ +22.7 \\ +15.7 \\ -17.9 \\ -12.5$ | $-17.1 \\ +6.4 \\ +20.4 \\ +24.4 \\ -18.2 \\ -14.0$ | -17.2 + 6.2 + 28.8 - 1.4 - 14.7 - 8.7 | 30. 7 17. 3 27. 5 33. 6 9. 9 28. 3 | 30. 7 17. 2 28. 9 28. 7 10. 3 29. 5 | 1934 1935 1936 1936 1935 1935 |

6

CHART 1.-EMPLOYMENT TRENDS FOR WOMEN AND MEN IN ALL MANUFACTURING, BY STATE



ALL MANUFACTURING INDUSTRIES

Direction of Employment Trend for Women and for Men in Most **Recent Year Reported.**

In the latest year reported the employment of both sexes was advancing over the previous year in manufacturing as a whole and also in most industries.⁷ It was declining for both sexes in the following industries: Tobacco manufacture in New York and Ohio; woolen and worsted goods in both Massachusetts and New York; the textile group as a whole, knit goods, carpets, the rubber group as a whole. rubber boots and shoes, and envelopes and stationery not elsewhere classified in Massachusetts; women's clothing in Ohio; rayon yarns (white workers), wooden fruit and vegetable packages (Negro workers), and fruit and vegetable canning (both white and Negro workers) in Virginia.

There were some industries in which the direction of employment change differed for the two sexes. Employment was advancing for men but declining for women in bakery products in Illinois, Ohio, and New York; in automobiles, rubber tires and tubes, cigars and cigarettes, radios, and wood products in Ohio; in men's clothing and drugs and industrial chemicals in New York; in paper boxes in Illinois; in cotton goods, textile dyeing and finishing, and rubber (other than boots and shoes) in Massachusetts; in the entire food group for white workers and the textile group and peanut cleaning for Negro workers in Virginia.

On the other hand, in the following smaller number of cases, the employment of women was advancing, that of men declining: In Illinois in men's clothing; in New York in silk, gloves, bags, and canvas goods, men's furnishings, women's headwear, and canning; and in Virginia, for white workers in cotton goods and boots and shoes, and for Negro workers in food as a group and in two of its subdivisions, confectionery and sea-food preparation, and in tobacco rehandling.

Proportions Women Formed of All Manufacturing Employees in 1930 and Most Recent Year Reported.

The proportion women form of all employees in different periods is an important indication of the relative standing of women in an industry. In the manufacturing industries as a whole, the proportions of women had increased since 1930 in Michigan, Rhode Island, and Virginia (white workers); they had declined in Ohio and Virginia (Negro workers); and remained exactly the same in Massachusetts. These figures may be seen in the summary on page 5. Women appear to have lost out wherever such reports exist for the textile group as a whole, in the making of cotton goods, silk goods, bakery products, and chemical and allied products; they appear to have gained in proportion in women's clothing.

The advance or decline in the proportion of women in the various industries from 1930 to 1934 or a later year was as follows:⁸

⁷ In this connection the reader is referred to p. 38, where the differences in industry titles used by the various States are indicated. See also separate discussion for each State, pp. 8 to 11, and separate discussions for various industries, p. 13 ff.

MANUFACTURING IN VARIOUS STATES

TRENDS IN EMPLOYMENT OF WOMEN, 1928-36

| Industry ¹ | Proportion of women had increased since 1930 | Proportion of women had decreased since 1930 |
|--|--|---|
| All occupations All manufacturing ² | Michigan, Ohio Michigan, Rhode Island, Vir- ginia (white). | Rhode Island. Ohio, Virginia (Negro). |
| Chemical and allied products Clothing ³ | Massachusetts, Michigan, Rhode Island. | Michigan, Rhode Island. |
| Men's clothing Women's clothing | Massachusetts | Ohio. |
| Food | Ohio, Rhode Island, Virginia (white). | Michigan, Virginia (Negro). Massachusetts, Ohio. |
| Bakery products Canning, fruit and vegetable Confectionery | Ohio, Virginia (white) Virginia (Negro) | Virginia (Negro). Massachusetts. |
| Leather: Boots and shoes Metals and machinery: | Ohio, Virginia (white) | Massachusetts. |
| Automobiles Electrical machinery and sup- | Michigan Massachusetts | Ohio. Ohio. |
| plies. Iron and steel Metals other than iron and | Michigan, Ohio | Rhode Island. Rhode Island. |
| steel. Paper and printing | Ohio 4 | Island, Virginia (white). |
| Paper boxes Printing and publishing | Virginia (white) | Massachusetts, Virginia (white). |
| Rubber Textiles | Rhode Island Virginia (Negro) | Massachusetts, Rhode Island, Virginia (white). |
| Cotton goods | | Virginia (white). |
| Knit goods Silk goods | Ohio | Massachusetts, Virginia (white). Massachusetts, Rhode Island. Virginia (white). |
| Woolen and worsted goods Tobacco manufactures Cigars and cigarettes Wood products | Virginia (Negro) Virginia (Negro) | Massachusetts, Virginia (white). Ohio, Virginia (white). |

¹ Only those industries reported by more than 1 State.

² In Massachusetts the proportion was the same in 1930 and 1934.
³ In Virginia (white) the proportion was the same in 1930 and 1936.
⁴ In 1935 greater than in 1930 but less than in 1929.

MANUFACTURING EMPLOYMENT IN THE VARIOUS STATES

The manufacturing employment picture differed somewhat among the various States. In Illinois, advances since the depression were shown by 1935, but at the time of the latest report the 1930 level had not yet been reached by women in all manufacturing nor by either sex in some manufacturing industries. In the most recent year the employment of both sexes was above 1929 in women's underwear and above 1930 (but not so high as 1929) in paper-box making. It was greater than in 1929 for women in meat packing. and in chemical and allied industries; for men in all textiles, women's clothing, and confectionery.

In New York, by 1936, the picture was somewhat better than in Illinois. The employment of both sexes was above 1929 in silk, paper boxes, women's clothing, canning, and certain chemicals, most of these being large woman-employers. While employment in other industries frequently was above the 1930 level, there were many instances in which this was not the case, especially for men, as for example in such important employers of male labor as printing and publishing and certain metal industries.

In Ohio, by 1935, the situation was better than in the two States just discussed. Employment was above 1929 in a greater proportion of the cases than in the two other States, having reached such a level for both sexes in knit goods, woolen and worsted goods, boots and shoes, food, canning, copper, tin, and sheet-iron products, and glass; for men in men's clothing, bakeries, and metal industries other than iron and steel; and for women in wood products. In the manufacturing total and in most of the particular industries the employment of both sexes was above the 1930 level, though it fell below for both sexes in women's clothing, automobiles, radios, tobacco manufactures, and cigars and cigarettes; for women in bakeries and for men in foundry and machine-shop products, wood products, and printing and publishing.

The proportion women formed of all employees in Ohio had increased since 1930 in all occupations and in more of the separate industries than in any other State reported, though women had lost out somewhat in the manufacturing industries as a whole, and in certain of those important in the State, such as men's clothing and rubber. The proportions women formed of persons at work in the various industries of Ohio in 1930 and in 1935 were as follows:

| With declining proportion | s of wom | en | With increasing proportions | of women | osi osi osi | |
|---|--|--|---|---|--|--|
| Industry 1 | Percent were empl | | Industry 1 | Percent women were of all employees | | |
| esponially instable in | 1930 | 1935 | | 1930 | 1935 | |
| All manufacturing | 17.3 | 17.2 | All employees | 24.8 | 24.9 | |
| Men's clothing Bakery products Metals and machinery: Automobiles Copper, tin, and sheet-iron products Electrical machinery and sup- plies Radios (not included in elec- trical). Rubber Rubber tires and tubes Glass Tobacco manufactures Cigars and cigarettes | $\begin{array}{c} 74.2\\ 20.5\\ 6.7\\ 15.6\\ 20.9\\ 61.7\\ 19.1\\ 16.8\\ 16.9\\ 78.6\\ 84.5\\ \end{array}$ | 73. 1 17. 3 5. 9 15. 5 20. 5 56. 3 18. 1 15. 8 15. 2 71. 5 79. 9 | Women's clothing Food Canning, fruit and vegetable Boots and shoes Metals and machinery: Foundry and machine-shop products Gas and electric fixtures Iron and steel Metals other than iron and steel Paper and printing Printing and publishing Stone, clay, and glass Pottery Textiles: Knit goods Woolen and worsted goods | $ \begin{array}{c} 14.0\\ 21.7\\ 80.0 \end{array} $ | $\begin{array}{c} 79.5\\ 25.2\\ 55.8\\ 51.5\\ 4.0\\ 49.3\\ 3.2\\ 18.0\\ 20.9\\ 18.1\\ 15.5\\ 24.8\\ 80.5\\ 61.7\\ 11.9\end{array}$ | |

¹ Wage earners only in everything but "all employees."

In Massachusetts the latest figures available at the time this material was analyzed were for 1934, and this may account partly for the fact that, while approximately two-thirds of the industries showed advances in employment over 1932, few employed as many persons of either sex as in 1930 and only the clothing industries as many of both sexes as in 1928. Women seem to have fared somewhat worse than men: In 1934 as compared to the reported year next preceding (1932), fewer women (though more men) were employed in cotton mills, textile dyeing and finishing, and rubber goods (other than boots and shoes); and fewer of both sexes in the textile total, knitting, woolen and worsted mills, carpet manufacture, and a miscellaneous papergoods group. The proportions of women also had declined in most industries, clothing, electrical, and jewelry manufactures being the

MANUFACTURING IN VARIOUS STATES

10 TRENDS IN EMPLOYMENT OF WOMEN, 1928-36

only ones in which there had been advances in women's standing in Massachusetts since 1930, as the following shows:

| are disal solowolad H | Demont | | | | | |
|---|----------------|--------------------------|---|---|--------|--|
| Industry | | women of all oyees | Industry | Percent women were of all employees | | |
| ng ben gemeing hun | 1930 | 1934 | idaw satuthag gode-ou | 1930 | 1934 | |
| : boo | | ng lila | Clothing | 74.5 | 74.6 | |
| Bakery products | 23.7 | 19.6 | Men's clothing | 69.3 | 70.1 | |
| Confectionery | 72.3 | 71.9 | Women's clothing | 79.2 | . 79.8 | |
| eather: | DAN WE ST | ALL REAL PROPERTY. | Metals and machinery: | LINE LINE | | |
| Boots and shoes | 41.9 | 41.2 | Electrical machinery and sup- | 13 15 1 | | |
| Boot and shoe cut stock and | | | plies Jewelry | 26.3 | 30.8 | |
| findings | 32.1 | 31.4 | Jewelry | 34.0 | 34.9 | |
| aper and printing Envelopes | _ 30.0 | 27.9 | England and the start of the start | and and the | | |
| Envelopes | _ 59.5 | 56.9 | A TARABATAN TARABATA SATISANA Y | and the second | | |
| Paper and wood pulp Paper boxes | _ 20.4 | 19.3 | T ITS BOAR WEAR ONE WELL TO | 89111 | | |
| Paper boxes | 52.4 | 43.9 | | a bold a same | | |
| Printing and publishing | _ 20.2 | 17.5 | | | | |
| ubber | 33. 3 | 32.0 | | Sharen and | | |
| Rubber boots and shoes | - 43.9 | 43.4 | | | | |
| Rubber, other than boots and | 00 - | 00 7 | | and the second | | |
| shoes | | 20.7 | | | | |
| extiles | | 39.1 29.2 | Concerto a marcana a concerto de la | | | |
| Carpets Cotton goods | 43.9 | 29.2 42.2 | La la se anna a se anna a se anna | Constant of the | | |
| Cotton goods | - 43.9 55.4 | 42.2 | Room Galling and Annual and Annual and Annual An | 1 | | |
| Cotton small wares | | 68.1 | | | | |
| Knit goods | 61.6 | 50.3 | | Contraction of the second | | |
| Silk goods Textile dyeing and finishing_ | 21.7 | 20.1 | COM | | | |
| Woolen and worsted goods | - 37.5 | 34.2 | | | | |

¹ For all manufacturing combined, the proportion was the same in both years-30.7 percent.

In Michigan women formed somewhat larger proportions in 1935 of all persons at work and of all those in manufacturing than they did in 1930. As in most States, the proportions of women had declined in chemical manufacture and in paper and printing, though they had advanced somewhat in the important automobile industry (the largest woman-employer in the State) and considerably in clothing. The proportions women formed of all employees in the manufacturing industries of Michigan were as follows:

| With declining proportions | of wome | n | With increasing proportions of women | | | | | | |
|--|--|--|--------------------------------------|---|------------------------------------|--|--|--|--|
| Industry | Percent were of ploy | all em- | Industry | Percent were of ploy | all em- | | | | |
| all to the part of the order | 1930 | 1935 | alyzed were for telle, a | 1930 | 1935 | | | | |
| Chemical and allied products Food Iron and steel other than automo- biles Paper and printing Wood products Furniture | 13. 8 18. 1 7. 4 19. 1 9. 0 10. 7 | $13.7 \\ 15.8 \\ 7.3 \\ 16.8 \\ 8.5 \\ 10.1$ | All employees | 18.7 9.9 51.7 6.1 6.4 | 19.7 10.3 61.1 6.9 7.0 | | | | |

In Rhode Island, as in Michigan, the proportion of women in manufacturing had increased; in the State first named, however, the proportion in all occupations had declined slightly. Great advances were shown in clothing; declines as in other States in most textiles and in paper and printing. For these and other groups in Rhode Island, the proportions of women among all employees in 1930 and in 1936 were as follows:

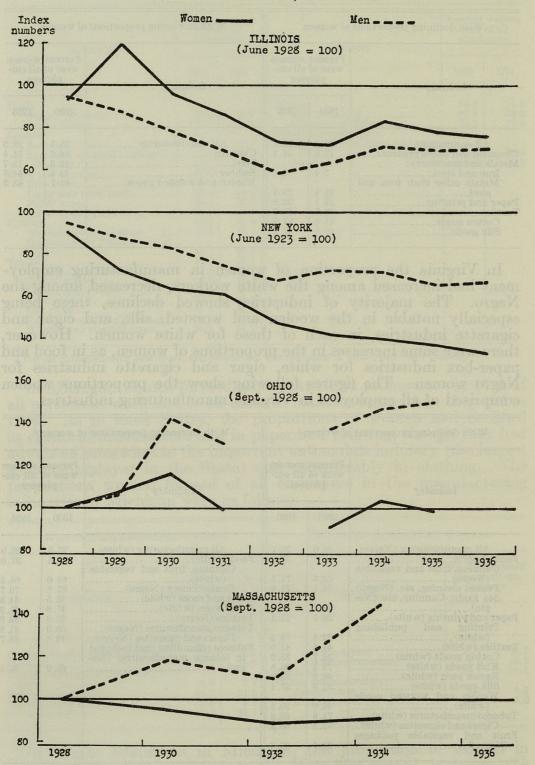
| With declining proportions | of wome | n | With increasing proportions of women | | | | | | | |
|--|----------------|--------------------------|--|--|----------------------|--|--|--|--|--|
| Industry | | women all em- yees | Industry | Percent women were of all em ployees | | | | | | |
| | 1930 | 1936 | low the market Tor | 1930 | 1936 | | | | | |
| All occupations Chemical and allied products Metals and machinery: | 29.6 17.5 | 29.3 14.1 | All manufacturing Clothing Food | | 29.5 74.4 13.7 | | | | | |
| Iron and steel | 7.4 39.3 | 6. 5 33. 4 | Rubber Woolen and worsted goods | 42.5 42.7 | 44. 5 43. 3 | | | | | |
| Paper and printing Textiles | 23.1 40.7 | 22.9 39.5 | | | | | | | | |
| Cotton goods Silk goods | 41. 4 49. 5 | $37.0 \\ 47.2$ | and a second sec | | | | | | | |

In Virginia the proportion of women in manufacturing employment had increased among the white workers, decreased among the Negro. The majority of industries showed declines, these being especially notable in the woolen and worsted, silk, and cigar and cigarette industries, in each of these for white women. However, there were some increases in the proportions of women, as in food and paper-box industries for white, cigar and cigarette industries for Negro women. The figures following show the proportions women comprised of all employees in Virginia manufacturing industries.

| With declining proportions | of women | 1 ¹ | With increasing proportions of women ¹ | | | | | | | | |
|--------------------------------|----------------------------|----------------|---|--|----------------------------------|--|--|--|--|--|--|
| Industry | Percent were of ploy | all em- | Industry | Percent were of plo; | | | | | | | |
| | 1930 | 1936 | | 1930 | 1936 | | | | | | |
| All manufacturing (Negro) | 33.6 | 28.7 | All manufacturing (white) | 27.5 | 28.9 | | | | | | |
| Food (Negro) | 56.6 | 55.8 | Food (white) | 31.4 | 37.0 | | | | | | |
| Canning, fruit and vegetable | | | Canning, fruit and vegetable | | | | | | | | |
| (Negro) | 73.3 | 71.1 | (white) | 63.0 | 64.5 | | | | | | |
| Peanut cleaning, etc. (Negro)_ | 73.1 | 71.9 | Confectionery (Negro) | 67.5 | 70.7 | | | | | | |
| Sea foods: Canning, etc. (Ne- | | | Boots and shoes (white) | 43.5 | 44.8 | | | | | | |
| gro) | 39.7 | 38.3 | Paper boxes (white) | 47.8 | 53.9 | | | | | | |
| Paper and printing (white) | 20.1 | 15.3 | Textiles (Negro) | 35.8 38.0 | 39.0 | | | | | | |
| Printing and publishing | 22.4 | 19.5 | Tobacco manufactures (Negro) Cigars and cigarettes (Negro) | 40.6 | 41.5 | | | | | | |
| (white) Textiles (white) | 44.6 | 41.9 | Tobacco rehandling (not included | 40.0 | 40.7 | | | | | | |
| Cotton goods (white) | 36.7 | 33.9 | in tobacco manufactures) (Ne- | | | | | | | | |
| Knit goods (white) | 72.3 | 69.5 | gro) | 63.0 | 63.1 | | | | | | |
| Rayon yarn (white) | 40.5 | 35.9 | §10/ | | | | | | | | |
| Silk goods (white) | 52.9 | 47.4 | | | | | | | | | |
| Woolen and worsted goods | | | | and the second | | | | | | | |
| (white) | 40.0 | 30.3 | and the second se | | | | | | | | |
| Tobacco manufactures (white) | 71.8 | 66.8 | and the second se | | | | | | | | |
| Cigars and cigarettes (white) | 72.3 | 66.4 | | | | | | | | | |
| Fruit and vegetable packages | 0.0 | 00.0 | | - | 03 | | | | | | |
| (Negro) | 30.1 | 26.6 | OFPE | 1978 | | | | | | | |
| | | 270 6.1 | | and the second sec | Contraction of the second second | | | | | | |

¹ For white women in clothing, the proportion was the same in both years—88.8 percent. 65717° —38—3

CHART 2.-EMPLOYMENT TRENDS FOR WOMEN AND MEN IN BAKERY PRODUCTS, BY STATE



PARTICULAR MANUFACTURING INDUSTRIES

EMPLOYMENT IN PARTICULAR MANUFACTURING INDUSTRIES

The true employment situation in a given industry often is difficult to ascertain from the few consistent data available, since it may show radical differences according to geographic location and according to sex distinction, and no one industry is likely to show exactly the same movement for both sexes or for different States.

Thus, for example, in the shoe industry, the status of employment differed markedly according to locality, though taking the same general direction for the two sexes in several of the States. In Ohio the advance from the depression low was marked for both sexes, while in Illinois or Massachusetts this advance was slight in comparison.

Or, to take an example of a difference in the movement according to sex: In the making of bakery products in New York, Illinois, and Ohio in the latest year available, men's employment was rising but women's was declining, in New York falling to the lowest level recorded in the period studied.

One of the few industries in which employment has taken much the same general direction for the two sexes in every case reported is the canning of fruit and vegetables, in which the employment of both women and men in the latest year shown always was well above the high point of 1929. Likewise in the tobacco industry the movement ordinarily is much the same whatever the sex or locality reported, though the employment showing is as unfavorable as that of canning is favorable.

In most cases the employment of both sexes has risen above the depression low, as shown by the indexes of employment in the various industries for the four important industrial States from which they are available or could be computed, as well as those for Virginia. Employment sometimes has advanced beyond the 1929 level, somewhat more often has gone above the 1930 level but not so high as in 1929, quite frequently has not yet reached the 1930 point, and occasionally has continued declining until the latest year reported. The various industries that show these different pictures of employment are listed on pages 14 to 16.

INDUSTRIES WITH RELATIVELY HIGH EMPLOYMENT LEVELS

AS HIGH AS 1929 1 ABOVE 1930 BUT NOT SO HIGH AS 1929 1

FOR BOTH SEXES

Photographic and miscellaneous chemi- All manufacturing (Ohio, Va.-White). cals (N. Y.). Clothing (Mass.). Men's clothing (Mass.). Women's clothing (Mass., N. Y.). Clothing (Va.-White). Men's furnishings (N. Y.2). Women's underwear (N. Y.). Food (Va.—White³). Women's underwear (Ill.). Food (Ohio). Canning, fruit and vegetable (N. Y.,² Ohio). Boots and shoes (Ohio). Copper, tin, and sheet iron products Metals and machinery: (Ohio). Paper boxes (N. Y.). (Ohio). Glass (Ohio). Textiles: Knit goods (Ohio). Silk goods (N. Y.²). Woolen and worsted goods (Ohio).

Canning, fruit and vegetable (Va.— White ⁴). Peanut cleaning, etc. (Va.-Negro³). Boots and shoes (Va.-White 2). Electrical machinery and supplies Gas and electric fixtures (Ohio). Iron and steel (Ohio). Sheet metal and hardware (N. Y.). Paper and printing (Ohio, Va.—White). Paper boxes (Ill.³). Rubber (Ohio). Rubber tires and tubes (Ohio ³). Stone, clay, and glass (Ohio). Pottery (Ohio). Textiles (N. Y., Va.—White). Cotton goods (Va.—White²). Knit goods (Va.—White). Silk goods (Va.—White). Woolen and worsted goods (Va .---White). Tobacco manufactures (Va.-Negro), Cigars and cigarettes (Va.—Negro), Tobacco rehandling (not included in tobacco manufactures) (Va.— Negro²).

FOR MEN (NOT WOMEN)

Drugs and industrial chemicals (N. Y.). All manufacturing (Ill., Va.—Negro). Clothing: Men's clothing (N. Y., Ohio). Chemical and allied products (Ill.). Women's headwear (N. Y.⁴). Women's clothing (Ill.). Food: Bakery products (Mass., Ohio). Confectionery (Ill., N. Y.). Metals other than iron and steel (Ohio). Textiles (Ill.). Silk goods (Mass.).

See footnotes at end of lists.

Meat packing (Ill.). Paper and printing: Paper boxes (Mass.). Printing and publishing (Va .--White). Textiles: Knit goods (N. Y.). Woolen and worsted goods (N. Y.⁴). Tobacco manufactures (Va.-White).

PARTICULAR MANUFACTURING INDUSTRIES

INDUSTRIES WITH RELATIVELY HIGH EMPLOYMENT LEVELS-Con.

AS HIGH AS 19291

FOR WOMEN (NOT MEN)

Chemical and allied products (Ill.). Women's headwear (N. Y.). Meat packing (Ill.). Knit goods (N. Y.). Wood products (Ohio⁴).

All manufacturing (N. Y.). Drugs and industrial chemicals (N. Y.⁴). Men's clothing (N. Y.⁴, Ohio). Confectionery (N. Y.). Metals and machinery (N. Y.). Electrical machinery and supplies (N. Y.). Foundry and machine-shop products (Ohio). Metals other than iron and steel (Ohio).

ABOVE 1930 BUT NOT SO HIGH AS 19291

Paper and printing (Ill., N. Y.). Paper boxes (Va.—White). Printing and publishing (N. Y.,⁵ Ohio). Textiles (Ill., Va.-Negro 4). Silk goods (Mass.).

INDUSTRIES WITH LOW EMPLOYMENT LEVELS

NOT UP TO 1930 THOUGH ADVANCE SINCE DEPRESSION LOW

LATEST YEAR SHOWS DECLINE FROM PRECEDING ⁶

FOR BOTH SEXES

All manufacturing (Mass.). Food (Va.—Negro²). Bakery products (Ill.3) Canning, fruit and (Va.—Negro ⁴). Confectionery (Mass.). Sea foods: Canning, etc. (Va.-Negro²). Leather: Boots and shoes (Ill., Mass., N. Y.). Tobacco manufactures (N. Y., Ohio⁸). Boot and shoe cut stock and find- Fruit and vegetable packages (Va. ings (Mass.). Gloves, bags, canvas goods (N. Y.²). Metals and machinery: Automobiles (Ohio 3). Electrical machinery and sup-plies (Ill., Mass.). Jewelry (Ill., Mass.). Paper and printing (Mass.). Paper and wood pulp (Mass.). Printing and publishing (Mass.). Job printing (Ill.). Rubber (N. Y.). Cotton small wares (Mass.⁴). Tobacco manufactures (N. Y.4). Wood products (N. Y.).

See footnotes at end of lists.

Women's clothing (Ohio ⁷). Canning, fruit and vegetable (Va.— White and Negro). vegetable Envelopes (Mass.⁷). Textiles (Mass.⁷). Carpets (Mass.7). Knit goods (Mass.⁷). Rayon yarn (Va.—White⁸). Woolen and worsted goods (Mass.,⁷ N. Y.) Tobacco manufactures (N. Y., Ohio⁸).

Negro 7).

INDUSTRIES WITH LOW EMPLOYMENT LEVELS—Continued

NOT UP TO 1930 THOUGH ADVANCE SINCE DEPRESSION LOW

LATEST YEAR SHOWS DECLINE FROM PRECEDING

omicals (N V)

FOR MEN (NOT WOMEN)

| All manufacturing (N. Y.). | Clothing: |
|---|--|
| Bakery products (N. Y.). | Men's clothing (Ill. ⁷). |
| Metals and machinery (N. Y.). | Men's furnishings (N. Y.). |
| Electrical machinery and supplies | Women's headwear (N. Y.). |
| (N. Y.). | Food (Va.—Negro). |
| Foundry and machine-shop prod- | Canning, fruit and vegetable |
| ucts (Ohio). | (N. Y.). |
| Radios (Ohio). | Confectionery (Va.—Negro ⁷). |
| Paper and printing (Ill., N. Y.). | Sea foods: Canning, etc. (Va |
| Paper boxes (Va.—White). | Negro). |
| Printing and publishing (N. Y., | |
| Ohio). | Boots and shoes (Va.—White). |
| Rubber, other than boots and shoes | Gloves, bags, canvas goods (N. Y.). |
| (Mass.). | Textiles: |
| Textiles (Va.—Negro). | Cotton goods (Va.—White). |
| Cotton goods (Mass.). | Silk goods (N. Y.). |
| Rayon yarn (Va.—White 4). | Tobacco rehandling (VaNegro). |
| Textile dyeing and finishing (Mass.). | |
| Tobacco manufactures (Ohio 4). | |
| Cigars and cigarettes (Ohio ⁴). | |
| Wood products (Ohio). | SINCE DEPRESSION LOW |
| | |

FOR WOMEN (NOT MEN)

| All manufacturing (Ill., Va.—Negro ⁴). | Drugs and industrial ch |
|--|------------------------------|
| Clothing: | Men's clothing (N. Y.). |
| Men's clothing (Ill.). | Food (Va.—White). |
| Women's clothing (Ill.). | Bakery products (I |
| Food: | Peanut cleaning, et |
| Bakery products (Mass., Ohio ⁴). | Metals and machinery: |
| Confectionery (Ill., VaNegro). | Automobiles (Ohio) |
| Paper and printing: | Radios (Ohio ⁷). |
| Paper boxes (Mass.). | Paper boxes (Ill.). |
| Printing and publishing (Va | Rubber: |
| White). | Rubber tires and to |
| Woolen and worsted goods (N. Y. ⁴). | Rubber, other than |
| Tobacco manufactures (Va.—White). | (Mass. ⁷). |
| Cigars and cigarettes (Va.—White). | Textiles (VaNegro). |
| , , , , , , , , , , , , , , , , , , , | Cotton goods (Mas |
| | Textile dyeing an |
| | |

| Drugs and industrial chemicals (N. 1.). |
|---|
| Men's clothing (N. Y.). |
| Food (Va.—White). |
| Bakery products (Ill., N. Y., Ohio). |
| Peanut cleaning, etc. (VaNegro). |
| Metals and machinery: |
| Automobiles (Ohio). |
| Radios (Ohio ⁷). |
| Paper boxes (Ill.). |
| Rubber: |
| Rubber tires and tubes (Ohio). |
| Rubber, other than boots and shoes |
| (Mass. ⁷). |
| Textiles (Va.—Negro). |
| Cotton goods (Mass. ⁷). |
| Textile dyeing and finishing |
| (Mass. ⁷). |
| Cigars and cigarettes (Ohio 7). |

¹ First comparison excludes Virginia, since index of Virginia is based on 1930. Massachusetts when shown here is "as high as 1928," since 1929 is not reported for Massachusetts.
² Decrease for men in last year from that preceding.
³ Decrease for women in last year from that preceding.
⁴ Decrease in last year from that preceding.
⁵ As high as 1930.

Wood products (Ohio).

⁵ As high as 1930.
⁶ Though a decline in last year, includes some which show an increase over depression low or are up to the 1930 or 1929 level.
⁷ Decline from depression low.
⁸ Decline from depression low for women.

The following pages present discussions of particular industries or groups. In each case the effort is made to give in the first paragraph a general picture of the situation, as to advancing or declining employment, following this with a comparison of the general employment levels of women with those of men, and finally showing the changes in the proportions women formed of all the workers in the industry or group.

17

Employment in the Textile Industries.

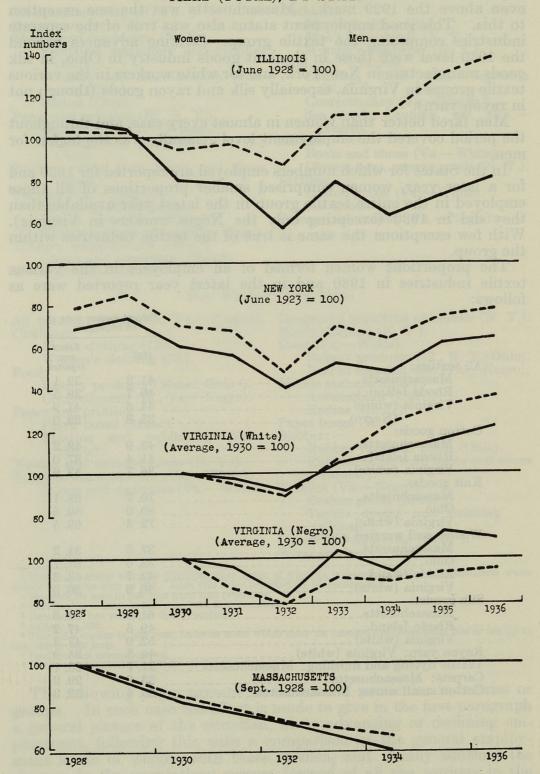
In the textile industries taken together, the indexes show that in the latest year reported employment was far above that at the depression low, usually was above that in 1930, and sometimes was even above the 1929 mark. Massachusetts was the one exception to this. This good employment status also was true of the separate industries composing the textile group. Striking advances beyond the 1930 level were those in the knit goods industry in Ohio, in silk goods manufacture in New York, and for white workers in the various textile groups in Virginia, especially silk and rayon goods (though not in ravon varn).

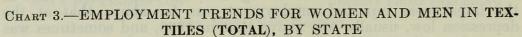
Men fared better than women in almost every case, and throughout the period covered the employment level generally was the higher for men.

In the States for which numbers employed are reported for 1930 and for a later year, women comprised smaller proportions of all those employed in the entire textile group in the latest year available than they did in 1930 (excepting only the Negro workers in Virginia). With few exceptions the same is true of the textile industries within the group.

The proportions women formed of all employees in the various textile industries in 1930 and in the latest year reported were as follows:

| | Percent wor all emp | nen were of loyees |
|---|------------------------|----------------------------|
| All textiles: | 1930 | Latest year reported |
| Massachusetts | 41.3 | 39.1 |
| Rhode Island | | 39. 5 |
| Virginia (white) | | 41.9 |
| (Negro) | 35.8 | 39.0 |
| Cotton goods: | | |
| Massachusetts | 43.9 | 42.2 |
| Rhode Island | 41.4 | 37.0 |
| Virginia (white) | | 33. 9 |
| Knit goods: | | |
| Knit goods: Massachusetts | 70.7 | 68.1 |
| Ohio | | 80. 5 |
| Virginia (white) | | 69.5 |
| Woolen and worsted goods: | | |
| Massachusetts | 37.5 | 34.2 |
| MassachusettsOhio | 58.6 | 61.7 |
| Rhode Island | 42.7 | 43.3 |
| Virginia (white) | 40.0 | 30. 3 |
| Silk goods. | | |
| Massachusetts | 61.6 | 50.3 |
| Rhode Island | | 47.2 |
| Virginia (white) | | 47.4 |
| Rayon yarn: Virginia (white) | | 35.9 |
| Textile dyeing and finishing: Massachusetts | 21. 7 | 20.1 |
| Carpets: Massachusetts | 33. 8 | 29. 2 |
| Cotton small wares: Massachusetts | 55. 4 | 52.3 |
| | | |





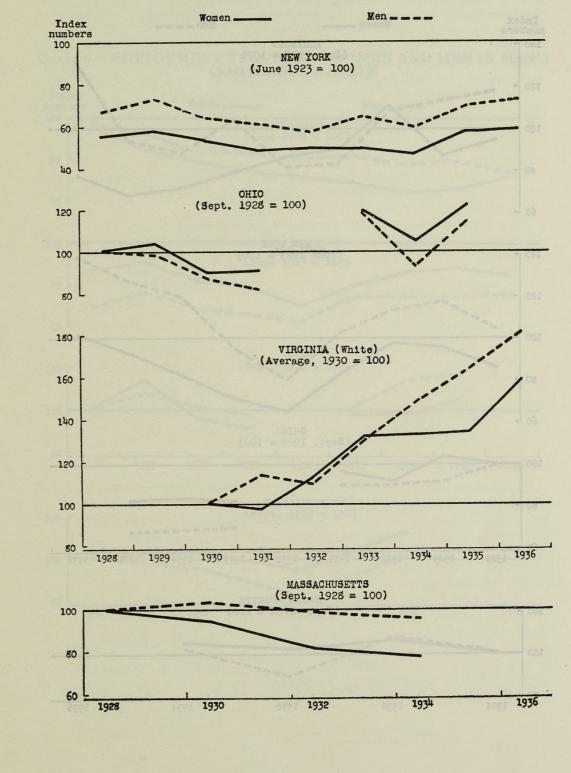
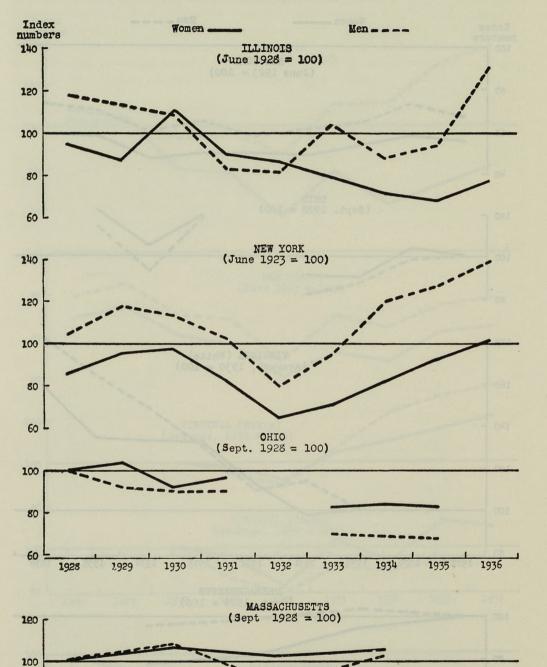


CHART 4.—EMPLOYMENT TRENDS FOR WOMEN AND MEN IN KNIT GOODS, BY STATE

65717°-38-4



1932

1930

80

1928

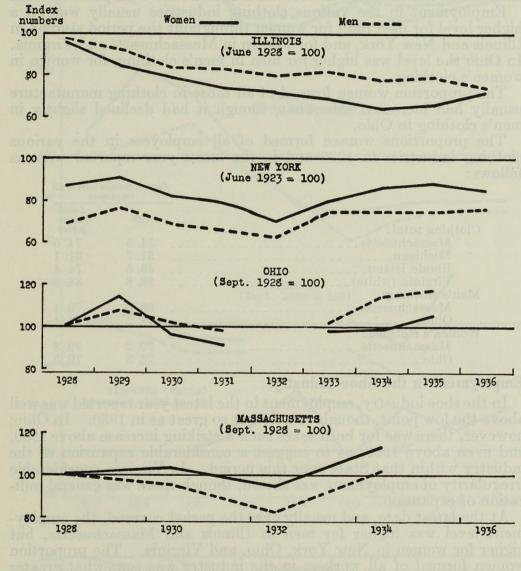
CHART 5.—EMPLOYMENT TRENDS FOR WOMEN AND MEN IN WOMEN'S CLOTHING, BY STATE

CHART 6.—EMPLOYMENT TRENDS FOR WOMEN AND MEN IN MEN'S CLOTHING, BY STATE

1

1936

1934



a late year than in 1930 for earlier) in this and Virginia, but in assechments women had jost earl dightly. The propertients of much were as follows:

22

TRENDS IN EMPLOYMENT OF WOMEN, 1928-36

The indexes for the more important of the various clothing industries show ordinarily that the employment of both sexes had increased—sometimes considerably—above the lowest level of the depression. Two striking exceptions to this were found: Employment as last reported was lower than at any previous time for both sexes in the making of women's clothing in one State (Ohio) and for men employed on men's clothing in another State (Illinois). In New York the situation in women's clothing was very much better than that elsewhere reported, and that State had very many more employees of each sex in this industry in 1936 than even at the high point of 1929.

Employment in the various clothing industries usually was on a higher level for men than for women throughout the period studied in Illinois and New York, and for women in Massachusetts and Virginia. In Ohio the level was higher for men in men's clothing, for women in women's clothing.

The proportion women formed of all those in clothing manufacture usually had increased somewhat, though it had declined slightly in men's clothing in Ohio.

The proportions women formed of all employees in the various clothing industries in 1930 and in the latest year reported were as follows:

| | Percent wom emplo | |
|-------------------|----------------------|------------------------------|
| Clothing total: | 1930 | Latest year re- ported |
| Massachusetts | 74.5 | 74.6 |
| Michigan | 51. 7 | 61.1 |
| Rhode Island | | 74.4 |
| Virginia (white) | 88.8 | 88.8 |
| Men's clothing: | | |
| Massachusetts | 69.3 | 70.1 |
| Ohio | 74.2 | 73. 1 |
| Women's clothing: | | |
| Massachusetts | 79.2 | 79.8 |
| Ohio | 76. 3 | 79.5 |

Employment in the Shoe Industry.

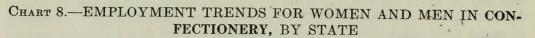
In the shoe industry, employment in the latest year reported was well above the low point, though usually not so great as in 1930. In Ohio, however, there was for both sexes such a striking increase above 1930, and even above 1929, as to suggest a considerable expansion of the industry within that State over this period. In Virginia considerable irregularity of employment was shown, though there was general indication of expansion.

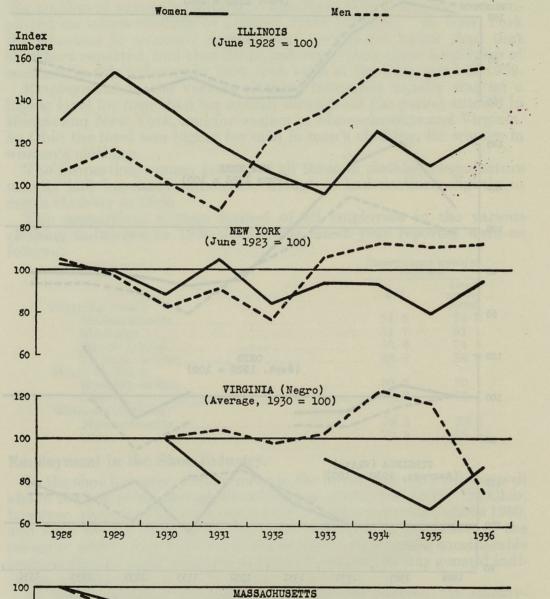
At the latest date, and usually over the period covered, the employment level was higher for men in Illinois and Massachusetts, but higher for women in New York, Ohio, and Virginia. The proportion women formed of all workers in the industry was somewhat greater in a late year than in 1930 (or earlier) in Ohio and Virginia, but in Massachusetts women had lost out slightly. The proportions of women were as follows:

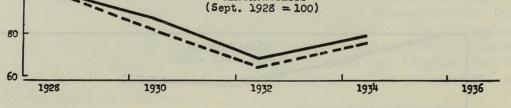
| men were as follows. | Percent a | vomen were of all e | mployees |
|----------------------|-----------|---------------------|---------------------|
| | Ohio | Massa- chusetts | Virginia (white) |
| 1928 | 47.0 | 42.2 | |
| 1929 | 49.6 | | |
| 1930 | 49.1 | 41.9 | 43.5 |
| Latest report | 51. 5 | 41. 2 | 44.8 |

Women -Men_ ILLINOIS (June 1928 = 100) Index numbers 100 80 60 140 NEW YORK (June 1923 = 100)120 100 80 60 120 OHIO (Sept. 1928 = 100)100 80 VIRGINIA (White) (Average, 1930 = 100)120 100 1933 1934 1929 1930 1931 1932 1935 1928 100 MASSACHUSETTS Sept. 1928 = 10080 60 1934 1936 1928 1930 1932

CHART 7.—EMPLOYMENT TRENDS FOR WOMEN AND MEN IN BOOTS AND SHOES, BY STATE







PARTICULAR MANUFACTURING INDUSTRIES

Employment in the Food Industries.

Employment in the making of bread and other bakery products showed the picture found in many other industries—an advance above the depression low, but a level still below that of 1930 for women, though sometimes above 1930 for men. However, in New York there were heavy declines in employment in this industry, continuous for women throughout the entire period covered in this survey, from 1928 on, but more irregular for men, the latest index showing a slight recovery from the low point. Women had suffered much more severely than men, and their latest index was only about half that in 1930. In Ohio, men's employment in bakeries showed an especially great advance, having far surpassed 1929, and men formed a considerably larger proportion of all employees than was the case in 1929 or 1930. The data from each State reported seem to show that the proportion of women in bakery employment has definitely declined.

In the making of confectionery employment has increased from the depression low, considerably more so for men than for women, men's employment being in some cases well above the 1929 level. Though there are characteristic processes in this industry that women always are likely to perform, the data indicate that the proportion of women in the industry generally was smaller in the latest year than in 1930.

In the canning and preserving of fruits and vegetables, since the indexes used are those for September, they represent a busy season in the industry. Though the latest year showed some decreases, the index usually was well above that of years just preceding, and was considerably higher even than in 1929 or 1930. Women had fared better than men in obtaining work at the busy time in this highly seasonal industry, and they represented a much larger proportion of the employees in the latest year than in 1929 or 1930.

The slaughtering and meat-packing industry engages considerable numbers of persons in one of these States—Illinois. In the latest year reported the employment of each sex was above the depression low and also 1930, and that for women was above 1929. Throughout the period covered, the employment level was higher for women than for men, and in the last year reported a striking increase is noted for women.

The food industries vary so much in type that a total for the group may represent extreme differences from State to State. In the employment situation as a whole, the proportions women form of those at work in all food industries seem to have advanced slightly in Ohio, Rhode Island, and Virginia (white), and to have declined somewhat in Michigan and for Negroes in Virginia. The proportions women formed of all employees were as follows:

| Stars man discussion the or playment | Percent all e | women were of mployees |
|--------------------------------------|---------------|---------------------------|
| | 1930 | Latest year reported |
| Michigan | 18. 1 | 15.8 |
| Ohio | 24. 3 | 25. 2 |
| Rhode Island | 12. 3 | 13. 7 |
| Virginia (white) | 31. 4 | 37.0 |
| (Negro) | 56. 6 | 55.8 |

Tobacco manufactures sometimes are grouped with the food industries, and so they will be discussed at this point. In New York and Ohio, employment in tobacco factories showed an extreme decline and had recovered but little by the latest year reported, in some cases even

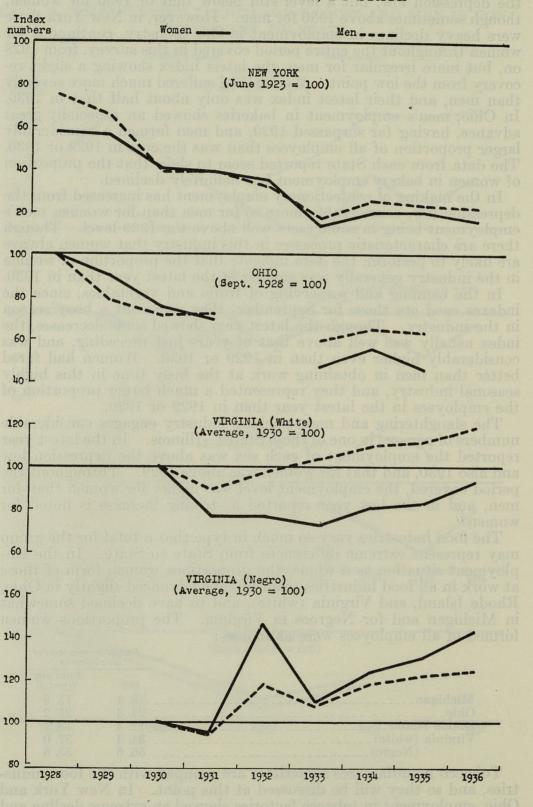


CHART 9.—EMPLOYMENT TRENDS FOR WOMEN AND MEN IN TOBACCO MANUFACTURES, BY STATE

having continued to fall. By the latest year reported, smaller proportions of the tobacco employees were women than had been the case in 1930. However, in Virginia, an important tobacco State, the picture was quite different. A much higher level of employment for both sexes was maintained throughout the period studied; and for both men and women advances were continuous from 1933 on, for white men from an even earlier date. By the latest year reported, women constituted a larger proportion than formerly of those in the industry who were Negroes. In tobacco rehandling, engaging chiefly Negroes, employment was very much more irregular, due largely to the general nature of the work and to shifts in the establishments doing business.

Employment in the Paper and Printing Industries.

Since the depression, employment has advanced in the paper and printing industries as a whole and in the subdivisions comprising this group. In paper and printing, employment of women reached the 1930 level in Illinois, New York, Ohio, and Virginia (white) but for men only in Ohio and Virginia (white), and for neither sex in Massachusetts. The printing and publishing industry, ordinarily forming a considerable part of the total, showed the same trend as the whole group in most cases, though there were exceptions.

The employment level generally was higher for men than for women in the various industries in this group in Massachusetts and New York, in job printing in Illinois, and in the major groups in Virginia. However, it was the higher for women in the Ohio industries in this group, in paper-box making in Virginia and Illinois, and in paper and printing also in Illinois.

In several instances smaller proportions of women were employed in the late year than in 1930, though paper and printing as a whole as well as printing and publishing in Ohio and paper boxes in Virginia (white workers) employed slightly larger proportions of women in the latest year reported than in 1930. The proportions women formed in the paper and printing group as a whole in 1930 and in a late year were as follows:

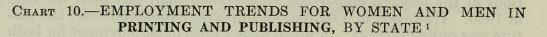
| | Percent we all em | omen were of aployees |
|------------------|-------------------|-------------------------|
| | 1930 | Latest year reported |
| Massachusetts | 30. 0 | 27.9 |
| Michigan | 19.1 | 16.8 |
| Ohio | 20.5 | 20. 9 |
| Rhode Island | 23. 1 | 22. 9 |
| Virginia (white) | 20. 1 | 15. 3 |

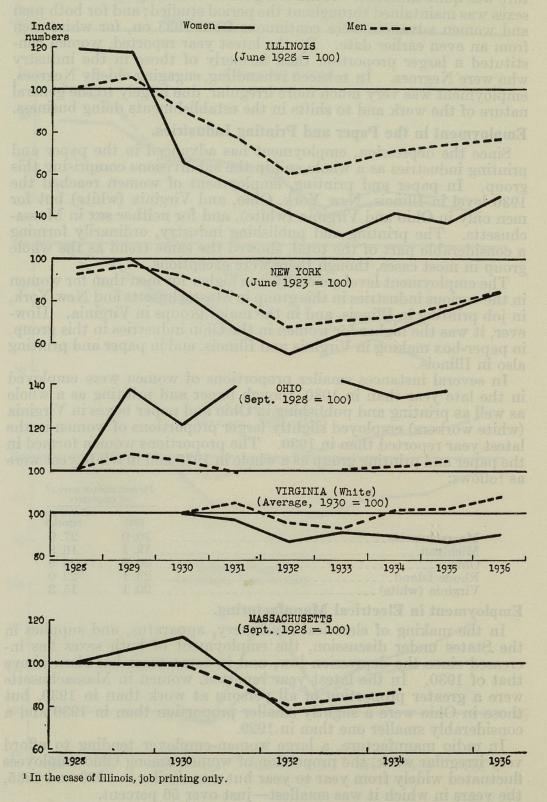
Employment in Electrical Manufacturing.

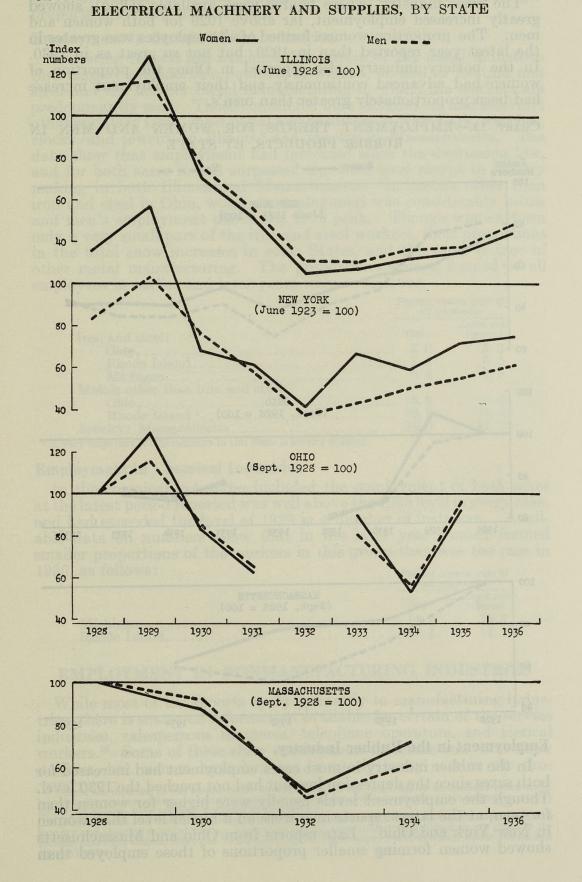
In the making of electrical machinery, apparatus, and supplies in the States under discussion, the employment of both sexes has increased since the depression low, and in some cases has risen above that of 1930. In the latest year reported, women in Massachusetts were a greater proportion of all persons at work than in 1930, but those in Ohio were a slightly smaller proportion than in 1930 and a considerably smaller one than in 1929.

In radio manufacture, a large woman-employer tending to afford very irregular work, the proportion of women among Ohio employees fluctuated widely from year to year but was similar in 1929 and 1935, the years in which it was smallest—just over 56 percent.

CHART 11.-EMPLOYMENT TRENDS FOR WOMEN AND MEN IN



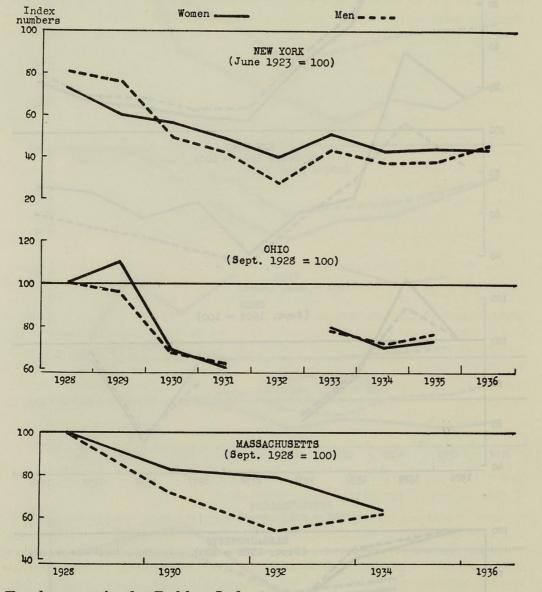




Employment in Glass Making.

The glass industry, where figures were available (Ohio), showed greatly increased employment, far above 1929 for both women and men. The proportion women formed of all employees was greater in the latest year reported than in 1929, but not so great as in 1930. In the pottery industry, also reported in Ohio, the proportion of women had advanced continuously and their employment increase had been proportionately greater than men's.

CHART 12.-EMPLOYMENT TRENDS FOR WOMEN AND MEN IN RUBBER PRODUCTS, BY STATE



Employment in the Rubber Industry.

In the rubber industry in most cases employment had increased for both sexes since the depression low but had not reached the 1930 level. Though the employment levels usually were higher for women than for men, at the latest reports men were on a higher level than women in New York and Ohio. Late reports from Ohio and Massachusetts showed women forming smaller proportions of those employed than

PARTICULAR MANUFACTURING INDUSTRIES

in 1930, though in Rhode Island they formed a somewhat larger proportion in 1936 than in 1930.

Employment in Certain Metal Industries.

Scattering reports are available for certain of the metal industries that employ considerable numbers of women, as well as for iron and steel and the heavier metal manufacturing in which the workers are predominantly men. Those considered here include iron and steel and other metals in Ohio, sheet metal and hardware in New York, watches, clocks, and jewelry in Illinois,⁹ and jewelry in Massachusetts. The data show that employment had increased since the depression low, and for both sexes it had surpassed the 1930 level except in jewelry making in both Illinois and Massachusetts. In metals other than iron and steel in Ohio, women's employment was considerably below and men's employment above the 1929 peak. Though women form only a very small part of the iron and steel workers, their proportions in the total show increases in some States, and the same is true of other metal manufacturing. The proportions women formed of all employees in earlier and later years were as follows:

| | | omen were of aployees |
|-----------------------------------|-------|-------------------------|
| Iron and steel: | 1930 | Latest year reported |
| Ohio | 3.0 | 3.2 |
| Rhode Island | 7.4 | 6.5 |
| Michigan | | 7.0 |
| Metals other than iron and steel: | | |
| Ohio | 16. 9 | 18.0 |
| Rhode Island ¹ | 00.0 | 33.4 |
| Jewelry: Massachusetts | | 34.9 |
| | | |

1 A very large part of this industry in this State is jewelry making.

Employment in Chemical Industries.

In the chemical industries included, the employment of both sexes at the latest period reported was well above the 1930 level in every case, and had exceeded the level of 1929 in a number of instances. Available data on numbers show that in the later year women formed smaller proportions of the workers in this group than was the case in 1930, as follows:

| cutted somewhat in hospital service lost in all | | ployees | |
|---|------|-------------------------|--|
| the following proportions of women among | 1930 | Latest year reported | |
| Michigan | 13.8 | 13. 7 | |
| Rhode Island | 17.5 | 14. 1 | |

EMPLOYMENT IN NONMANUFACTURING INDUSTRIES

While most of the reports apply primarily to manufacturing industries, there is scattered information available for certain of the service industries, salespersons in stores, telephone operators, and clerical workers.¹⁰ Some of these show employment increases and some show declines, but women have lost out in nearly every case in the pro-

Others are reported in the Illinois State figures, but since the index has to be specially constructed, based on the percent change in identical establishments from month to month, these industries, chiefly employers of men, have not been prepared for this report.
 Massachusetts and New York give reports only for manufacturing, though New York includes in this laundry and cleaning establishments. Reports on certain nonmanufacturing industries are given in the periodic data from Illinois, Ohio, and Virginia, and in the census figures from Michigan, Rhode Island, and Pennsylvania. Pennsylvania

32 TRENDS IN EMPLOYMENT OF WOMEN, 1928-36

portion they form of all workers, and the level of employment almost always is higher for men than for women.

Employment in Service Industries.

In laundries and cleaning and dyeing plants the employment of both sexes in the latest year reported had improved since the depression lows, but it still was far below the 1929 and 1930 levels in every case but those of men in New York and women in Virginia. In Ohio the slight decline from the preceding year was somewhat greater for men than for women. Where figures are available, the proportions of women show some decline, markedly so in Michigan, though in Rhode Island they have remained stationary. The proportions women formed of the workers in these industries were as follows:

| | Percent women | were of all employ | ee |
|--------------|---------------|-------------------------|---|
| | 1930 | Latest year reported | 17 ···································· |
| Michigan | 50. 4 | 43. 3 | |
| Ohio | 58.4 | 57.1 | |
| Rhode Island | 48. 4 | 48.4 | |
| | | | |

In hotels and restaurants the employment of both sexes in Illinois had declined markedly in 1935, the most recent year reported for this group. In Ohio, restaurants were employing very many more men and women in 1935 than in 1929, and the advances in hotels also had been considerable, though not so many were at work there as in 1929. According to all available reports, women had definitely lost to men in these industries, the proportions they formed of total employees being as follows:

| | Percent women | were of all employed |
|--------------|---------------|-------------------------|
| | 1930 | Latest year reported |
| Michigan | 55. 4 | 50. 3 |
| Rhode Island | 44.0 | 32. 5 |
| Ohio: Hotels | 49.6 | 45.1 |
| Restaurants | 55. 0 | 50. 7 |

The Ohio reports include considerable numbers of service workers in hospitals and in office buildings. In both of these, especially office buildings, many more of both sexes were employed in 1935 than in 1930. Women had gained somewhat in hospital service, lost in officebuilding service, as the following proportions of women among all employees in these industries show:

| Perc | cent women | were of all employees |
|-------------------------------------|------------|-------------------------|
| | 1930 | Latest year reported |
| Service workers in hospitals | 76.9 | 77. 1 |
| Service workers in office buildings | 38.7 | 31. 3 |

Employment in Telegraph and Telephone Operation.

Reports from Ohio and Illinois give telegraph and telephone operation. Women in this group ordinarily are telephone operators for the most part, the men more likely to be telegraph operators. Those from Illinois show almost continuous employment declines for both sexes since 1929. In Ohio the employment of both men and women in these occupations increased slightly from the lowest point but in 1935 still was far less than in 1930. Women have declined wherever

NONMANUFACTURING INDUSTRIES

data are available, in some cases considerably, as is shown by the following proportions women formed of all such employees:

| | Percent women | a were of all employed |
|--------------|---------------|-------------------------|
| | 1930 | Latest year reported |
| Michigan | 55. 0 | 52.3 |
| Ohio | 57.4 | 54.3 |
| Rhode Island | 61. 2 | 54. 0 |

Employment in Stores.

Periodic reports show employment in stores to have increased continuously since the lowest point, 1930, for both sexes in Ohio and for men in Illinois; among women in Ohio even the 1929 peak was surpassed. In Illinois, though women were losing in the 2 latest years reported, their levels still were well above the 1930 mark. From the figures available, women in stores seem to have lost somewhat in comparison with men, except in Rhode Island, as is shown by the following proportions women formed of all employees in stores:

| Perc | ent women | a were of all employees | 2 |
|---|-----------|-------------------------|---|
| or determining granted direction is maken v | 1930 | Latest year reported | |
| Michigan | 22.9 | 20. 2 | |
| Ohio | 50.5 | 48.7 | |
| Rhode Island | 23. 9 | 25. 6 | |

Employment in Clerical Occupations.

Ohio reports show for both sexes increased employment as bookkeepers, stenographers, and office clerks in the latest year reported, though fewer were then at work in these occupations than in 1930. The proportion of these who were women remained fairly stable, being 48.5 in 1930 and 48.9 at the latest report.

33

es

一、我们出现我们也会了。我说我们了了的在书籍是花点还没有了这一点。

distantion availables in come cases constituting as is shown by the following proportions womendormed of all such employees: Front receiver and training

84.40 1 70

Remedie reports shew resployment in stores to have intrassed continuentity since the lowest point. 1030, for both serie in Ohio and for mean in Illinois, among women in Ohio even the 1029 peak was surpassed. In Illinois, though women were listing in the 2 latest years reported, their levels still were well above the 1030 mark. From the house a railable, women in stores seem to have but somewhat in comparison with men, except in Rhode Island, as is shown by the following proportions women formed of all employees in stores:

Pertonal warning away of all employees

ture a mon

Obio reports show for both series increased employment as bookcoopers, stemographics, and office clarks in the initial your reported. hough fewer were then at work in these occupations them in 1930. The proportion of these who were woman remained fairly stable, remarks in 1980 and 38.0 at the latest report.

valerance a Desceracit and Telephone Oneration

Reports been fines and Dinois gere telegraph and resphere operaies. We use the start they excitative are telegraph and resphere operanet plan, the man been likely to be telegraph operators for the man discuss show shows semifunces supplying the best operators for both man discuss they is Ohio the employment of both man and woman to they are are the man and the supply to be the semi operators for both they are are the operators and the supply to be the semi operators for both the semi operators are the semifunces and the semi operators for both the semi operators are the semifunces and the semi operators to both the semi operators are the semifunces and be the semistive point but in

APPENDIX A.—TYPES OF DATA REPORTED AND METHOD OF HANDLING MATERIAL

THE USE OF INDEX NUMBERS IN ANALYZING TRENDS IN WOMEN'S EMPLOYMENT

Index numbers, or relatives, provide a method of reducing data for various periods to a common denominator. The confusion of dealing with large numbers is thus avoided, and the figures for each period are reduced to exactly the same basis as those for every other period considered. The base used for this purpose may be one specific figure, or the average for a year or for a series of years. The last named sometimes is considered more sound but is not always possible to obtain for use with a new or irregularly reported series of data.

For determining general direction it makes very little difference what base is used, since the curve formed on a series of figures will take the same *direction* no matter what the base. If the same base is used for two series—for example, for men's employment and women's employment—the relation between the curves will be the same whether the base is one figure or the average of several figures. The *level* of the curve, however, will be greatly affected by the

The *level* of the curve, however, will be greatly affected by the base taken. For example, if a period of peak employment or prices as in 1929 be taken as a starting point, employment in the following months was so much lower that the resulting curve will be plotted on a very low level. If a period of depression such as 1933 be taken as the base, employment in the following months had risen somewhat and the resulting curve, while taking the same *direction* as that first described if made from the same data, will be on a very much higher *level*.

An effort usually is made to take as normal a time as possible for a base—for example, an average for 1928. In using employment figures for women it sometimes has been convenient to take as a starting point the month or year when reporting began. Thus the New York employment indexes by sex are constructed on June 1923 as the base period, since such reporting was initiated at that time.

In preparing material for use in the present analysis, September 1928 was taken as the base for constructing the employment indexes from both the Massachusetts and the Ohio figures and the year 1930 for those from Virginia. For Illinois a different method had to be used, as will be explained below.

DATA AVAILABLE ON WOMAN EMPLOYMENT

For the five States following, periodic indexes of employment by sex are available or have been prepared for use in the present analysis.

Illinois.—The State Department of Labor computes percent change in employment of wage earners from month to month for men and for women in identical plants from data furnished by a sample number of employers reporting regularly and constituting a representative coverage of workers in manufacturing, power

35

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laundries, trade, and certain service industries (as well as others that are chiefly employers of men). From these changes, indexes for every month of the 9 years have been constructed by the link-relative method, using June 1928 as the base. These are published here for the month of September in each year, 1936 being the latest available (table I).¹¹ These indexes were made for every industry for which as many as 1,500 women were reported in September of 1930 or 1935.

Massachusetts.—The State Department of Labor and Industries takes a regular census of employment of wage earners in manufacturing annually, in even years collecting this by sex.¹² Since the coverage is complete rather than by sampling, indexes have been computed in the Women's Bureau from these unpublished figures, which are reported in the form of average employment for each month, the latest available at the time data were analyzed for this report being 1934. September 1928 is used as a base, and the indexes for September of each year are published here (table II). Indexes were constructed for every industry in which as many as 1,500 women were reported either in September 1928 or in September 1934 as well as for the main industry groups; these latter had to be formed by selection from the list, which in the original is arranged alphabetically and not grouped.

New York.—The New York Department of Labor receives monthly reports on wage earners similar to those for Illinois, that is, from a sample coverage of employers, in manufacturing, including laundries. In this case a fixed list of firms is used from month to month. With the use of proper weighting for the coverage, the State constructs and publishes every month an index by sex. That for September of each year is used here, the latest available being 1936 (table V). June 1923 is the base used by the State for this index.

Ohio.—The Ohio Department of Industrial Relations annually collects from employers employment data reported by month. These figures cover about 95 percent of the wage earners at work in manufacturing in the State. Since the coverage is relatively complete rather than by sampling, the Women's Bureau has prepared indexes by sex, basing these on September 1928. In the present analysis the figure for September of each year has been used, the latest available being 1935 (table III). Indexes were constructed for every industry or group in which as many as 2,000 women were reported in September of either 1928 or 1935.

Virginia.—Annual reports of the Virginia Department of Labor and Industry show the year's average number of wage earners employed in manufacturing and a few service industries, the latest available being 1936. The Women's Bureau has constructed indexes from these, using the 1930 data as the base (table IV). Though the classification was changed in 1930, this seems not to have affected to any great extent the woman-employing industries discussed here. All those industries or groups are considered here in which as many as 500 women are reported in any 2 years.

From the sources described above, actual figures are available by sex to show the number employed in 1930 and in a regular series of later years for Massachusetts, Ohio, and Virginia. Since in each case they are collected by the State on the same basis, they can be compared for the same State from year to year.

Each of the following States has published figures from a special employment census taken in a recent year, including reports by sex. In some cases certain of the data from these—for example, the employment totals—can be compared to those of the 1930 Census of Occupations. Where industry coverage in the State census includes clerical workers (as in Michigan and Rhode Island) the industrial grouping of the United States Census of 1930 is used for comparison.

Michigan.—The census in Michigan, taken in 1935, covered a random sample of somewhat less than half the employable workers 15 years of age or older, from which estimates of the totals were made. All persons able and wanting to work

¹² In odd years the State uses the schedule on which the U. S. Bureau of the Census takes the biennial Census of Manufactures, and this calls for the sex of employees only once in 10 years.

were included, except those not before employed unless they had made application for jobs within a month past. Those never employed but having applied for work are included in the total number of employables reported by the State, but they are excluded from the discussion in this report, since comparisons are made with United States census data that do not include such workers. (See p. 3.) Where a comparable figure for 1930 was obtainable, those industries for which as many as 2,000 women were reported are considered here.

Pennsylvania.—The Pennsylvania census, taken in 1934, covered employable workers 15 years of age or older, though excluding agricultural workers and those unemployed through illness of considerable duration. This differed somewhat from the Federal census of gainful workers, in that it included young persons seeking work for the first time, a group that is not included in the present study; but since these young persons can be excluded only from the total, industry comparisons cannot be made. (See p. 3.) An occupational rather than an industrial classification is used, and while this may be more valuable for certain purposes, such as use in listing type of job for placement in employment, it does not lend itself to comparison with figures reported by the more traditional industry classifications, and hence these data could be used in the present report only for total employment. *Rhode Island.*—The Rhode Island census, taken in 1936, included all employ-

Rhode Island.—The Rhode Island census, taken in 1936, included all employable persons 10 years old and over. As in Michigan and Pennsylvania, those not previously employed but seeking work are excluded from this report. (See p. 3.) Where a comparable figure for 1930 was obtainable, those industries for which as many as 200 women were reported have been considered here.

¹¹ Indexes used are computed by the Women's Bureau. The State began in 1936 to compute indexes by sex, based on the 1930 average as 100. These are for the major groups and have not as yet been issued for certain of the individual industries that are important woman employers; for example, an index is given for leather goods and one for the food industries, but no separate index for the boot-and-shoe nor for the meat-packing industry.

INDUSTRY TITLES (FOR GROUPS OR DETAILS) AS USED IN WOMEN'S BUREAU DISCUSSION AND TITLES CORRE-SPONDING MOST CLOSELY AS USED IN STATE REPORTS

| Industry titles (for | Industry titles as used in State reports | | | | | | | | | | | | |
|---|--|--|--|--|---|---|--|--|--|--|--|--|--|
| groups or details) as used in Wom- en's Bureau dis- cussion | | States with per | States with recent employment census but no periodic index available | | | | | | | | | | |
| | Illinois | Massachusetts | New York | Ohio ¹ | Virginia | Rhode Island | Michigan | | | | | | |
| All occupa- tions. | All industries | | | All employees | | All industries | All industries. | | | | | | |
| All manufac- turing. | All manufacturing | All manufacturing | All manufacturing ² _ | All manufactures | All manufacturing | Manufacturing and mechanical indus- tries. ³ | Manufacturing and mechanical indus- tries. | | | | | | |
| products. Drugs and in- | Drugs and in- dustrial chem- | | Drugs and indus- | | | Chemical and allied industries. | Chemical and allied industries. | | | | | | |
| icals. Photographic and miscella- neous chemi- cals. | | | trial chemicals. Photographic and miscellaneous chemicals. | | | | | | | | | | |
| Men's furnish- | Men's clothing | Clothing ³ Men's clothing ³ | Men's clothing | cluding shirts and coat pads. | Clothing 3 | Clothing industries | Clothing industries. | | | | | | |
| ings. Women's cloth- ing. Women's head- wear. | Women's and chil- dren's clothing. | Women's clothing | Women's clothing Women's headwear | Women's clothing, including corsets. | | | | | | | | | |
| Women's under- wear. | Women's and chil- dren's underwear. | | Women's underwear | | | | | | | | | | |
| Bakery products. | Bakery products | Bread and other bakery products. | Bakery products | Food and kindred products. Bakery products | Food and kindred products. | Food | Food and allied in- dustries. | | | | | | |
| Canning, fruit and vegetable. Confectionery Slaughtering and meat | Confectionery Slaughtering and meat packing. | Confectionery | Canning and pre- serving. Candy | Canning and pre- serving. | Fruit and vegetable canning, etc. Confectionery | | | | | | | | |
| packing. Peanut cleaning, etc. | | | | | Peanut cleaning, etc. | | | | | | | | |

| canvas goods. Metals and machin- ery. Automobiles Copper, tin, and sheet-iron products. Electrical ma- chinery and supplies. Radios Foundry and machine-shop products. Gas and electric fixtures. Iron and steel | Boots and shoes | other than rubber. Boot and shoe cut stock and find- ings. Electric machinery and supplies (in- cluding radios). (4) | Machinery and elec- trical apparatus. | Boots and shoes, cut stock and findings. (⁴) | etc. Boots and shoes | | Automobile factories. |
|--|------------------|---|--|--|-------------------------|--|---|
| other than au- tomobiles. | Watches, clocks, | Jewelry | Andreas and printing | | - pages and goinglest | (5) | Auto repair shops; blast furnaces and steel rolling mills, other than iron and steel; machinery and vehicles. ³ |
| Metals, other than iron and steel. | jewelry. | Elater we is pay | Sheet metal and hardware. | Metal and metal products, other than iron and steel. | | Other metal indus- tries; jewelry. ³ | Com |

¹ The group "all employees" includes, besides wage earners, bookkeepers, stenographers, and office clerks, and salespersons not traveling; but the "all industries" group and the manufacturing, service, and transportation totals include only wage earners. ² Includes laundries and dry cleaning. ³ Compiled by Women's Bureau. ⁴ See entry next above. ⁵ See entry next below.

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INDUSTRY TITLES (FOR GROUPS OR DETAILS) AS USED IN WOMEN'S BUREAU DISCUSSION AND TITLES CORRE-SPONDING MOST CLOSELY AS USED IN STATE REPORTS—Continued

| Industry titles (for | Industry titles as used in State reports | | | | | | | | | | | | | |
|---|--|---|---|---|---|---|--|--|--|--|--|--|--|--|
| groups or details) as used in Wom- en's Bureau dis- cussion | | States with per | States with recent employment census but no periodic index available | | | | | | | | | | | |
| as used in Wom- en's Bureau dis- cussion Paper and printing Paper and printing Paper and wood pulp. Paper boxes Printing and publishing. Job printing. Rubber boots and shoes. Rubber tires and tubes. Rubber goods, other than boots and shoes. Stone, clay, and glass. Glass. | Illinois | Massachusetts | New York | Ohio | Virginia | Rhode Island | Michigan | | | | | | | |
| Iron Junit Sceel, Dillor Main ans | Paper goods and printing and pub- lishing. | Paper and printing ³ - Envelopes and sta- | Paper and printing | Paper and printing | Paper and printing | Paper and allied industries; print- ing, publishing, and engraving. ³ | Paper, printing, and allied industries. | | | | | | | |
| pulp. | | tionery, n. e. c. ³ Paper and wood pulp. | | | | | (and and great and | | | | | | | |
| Paper boxes Printing and publishing | Paper boxes, bags, and tubes. | Boxes, paper and other, n. e. c. Printing and pub- publishing. | Paper boxes and tubes. Printing and book- making. | Printing and pub- lishing. | Paper boxes, bags, etc. Printing and pub- lishing. | | | | | | | | | |
| Rubber | | Rubber 3 | Rubber and gutta percha. | Constant (on) any other | | Rubber factories | | | | | | | | |
| and shoes. Rubber tires and tubes. | ang antidapa | Boots and shoes, rubber. (⁸) Rubber goods (other | | Rubber, tires and tubes. | | | | | | | | | | |
| other than boots and shoes. | | Rubber goods (other than boots and shoes) and rubber tires and inner tubes. | | Durcha, Courper's Langard | | | | | | | | | | |
| Glass | | | | glass products. Glass | | | | | | | | | | |
| | | The second second | official prost one- | Pottery, terra-cotta, and fire-clay prod- ucts. | | | | | | | | | | |
| Textiles Carpets | Textiles | Textiles ³ Carpets and rugs (not rag). | Textiles(⁶) | | Textiles ³ | Textiles | | | | | | | | |
| Cotton goods Cotton s m a l l wares. | | Cotton goods Cotton small wares | | | Cotton goods | Cotton mills | | | | | | | | |
| | | Knit goods | Knit goods (except silk). | Hosiery and knit goods. | Knitting-mill prod- ucts. | | | | | | | | | |

| Ravon varn | | | | | Rayon yarn | Cills mills | |
|---|--|---------------------------------------|-----------------------------|---|--|--|--|
| | | Silk, silk goods, and rayon goods. | Silk and silk goods | | Silk and rayon goods | SHK IIIIIS | |
| Textile dyeing | 10000681 (1690) | Dyeing and finish- | | | | | |
| and finishing. Woolen and worsted goods. | | ing, textiles. Woolen and worsted. | Woolens, carpets, felts. | Woolen, worsted, and wool-felt goods (including fur and felt hats). | Woolen and worsted goods. | Woolen and worsted mills. | |
| ures. Cigars and ciga- | | | | Tobacco manufac- tures. ³ Cigars and ciga- rettes. | Tobacco manufac- tures. ³ Cigars and ciga- rettes. | | |
| bacco rehandling | | | | | Tobacco rehandling (not included in tobacco manufac- tures). | | |
| The second second second | | | | products. | Fruit and vegetable | | Lumber and fur- niture industries. |
| Fruit and vege- table packages. Furniture | | | | | packages. | | Furniture. |
| fonmanufacturing: aundry and dyeing and cleaning. | Laundering, clean- ing, and dyeing. | | Laundering and cleaning. | Laundries, d r y cleaners, and reno- vators. | Laundries | Laundries, clean- ing and pressing. | Laundries, cleaning, dyeing, and press- ing shops. |
| lotels and restau- rants. | Hotels and restau- rants. | | State State State | | | Hotels, restaurants, cafes, saloons, apartments. | Hotels, restaurants, boarding houses, etc. |
| Hotels | | | | Restaurants | | | |
| ervice workers in | | | | Hospitals | | | THE REAL PROPERTY AND INC. |
| hospitals | CONTRACTOR STREET | | The second second | Office buildings (in- cluding window cleaning). | | | |
| elephone and tele- graph. | Telephone com - panies. | | | Transportation- telephone and telegraph. | | Telephone, tele- graph, and radio. | Telegraph and tele- phone. |
| 'rade | Department a n d variety stores. | | Manage | Salespersons (not traveling), stores, retail and whole- sale. | | Wholesale and re- tail trade. | Wholesale and retail trade. |
| Jlerical | | | SILLER BEN | Bookkeepers, ste- nographers, and office clerks—all industries, a l l manufactures. | | | ADUSTRIES IS |

40

TRENDS IN EMPLOYMENT OF WOMEN, 1928-36

APPENDIX B.—GENERAL TABLES

| A TRANSPORT | | Women | | | | | | | Men | | | | | | | | | |
|--|--|---|---|--|--|---|---|---|---|--|--|---|---|---|--|---|---|--------------------------------------|
| Industry | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 |
| All industries All manufacturing | $101.0 \\ 104.1$ | $104.1 \\ 110.6$ | 88. 0 88. 8 | 77. 5 75. 5 | 66. 8 61. 0 | 72. 1 72. 9 | 76. 3 79. 7 | 74. 2 78. 7 | 80. 5 88. 1 | $ \begin{array}{c} 102.2 \\ 101.2 \end{array} $ | 106.1 108.4 | 87.5 84.9 | 72. 2 69. 2 | 55. 8 53. 7 | 72.3 71.7 | 76.7 | 80. 0 80. 1 | 89.5 92.2 |
| extiles—Total | 108.3 | 103.9 | 79.5 | 77.5 | 56.0 | 78.2 | 62.3 | 71.4 | 80.7 | 102.5 | 102.4 | 94.2 | 96.4 | 86.5 | 110. 2 | 110.9 | 129.5 | 137.5 |
| Men's clothing Women's and children's clothing Women's and children's underwear 'ood; | 96. 5 95. 2 72. 7 | 84. 9 87. 0 72. 0 | $79.\ 3\\111.\ 3\\69.\ 2$ | $74.\ 1 \\90.\ 4 \\55.\ 1$ | $72. \ 4 \\ 86. \ 4 \\ 63. \ 6$ | $\begin{array}{c} 69.\ 1 \\ 79.\ 1 \\ 84.\ 3 \end{array}$ | $\begin{array}{c} 64.\ 6\\ 71.\ 1\\ 72.\ 7\end{array}$ | $\begin{array}{c} 66.\ 5\\ 68.\ 1\\ 72.\ 7\end{array}$ | $\begin{array}{c} 72.\ 2\\ 77.\ 6\\ 96.\ 6\end{array}$ | 97. 5 117. 9 92. 7 | $\begin{array}{c} 93.\ 0\\ 113.\ 6\\ 115.\ 7\end{array}$ | $\begin{array}{c} 84.\ 1 \\ 108.\ 6 \\ 115.\ 2 \end{array}$ | 83. 4 83. 1 81. 1 | 80. 1 81. 9 102. 1 | 82. 4 104. 2 122. 9 | $78.0 \\88.5 \\127.1$ | 79.794.4113.3 | 74. 9 131. 4 135. 4 |
| Bakery products Confectionery Slaughtering and meat packing oots and shoes | 93. 0130. 595. 3101. 6 | $119.5 \\ 153.3 \\ 115.2 \\ 107.2$ | $95.8 \\137.0 \\108.4 \\91.7$ | $\begin{array}{c} 86.\ 0\\ 118.\ 7\\ 99.\ 0\\ 61.\ 9\end{array}$ | $\begin{array}{c} 72.\ 6\\ 104.\ 6\\ 96.\ 3\\ 60.\ 9\end{array}$ | 71.595.6135.671.0 | $\begin{array}{r} 83.\ 0\\ 125.\ 8\\ 213.\ 5\\ 62.\ 6\end{array}$ | 78.7 108.9 97.4 | $\begin{array}{c} 76.1\\ 123.3\\ 119.9\\ 72.5\end{array}$ | 94. 5 106. 8 99. 0 | $\begin{array}{r} 87.7\\ 116.7\\ 105.4\\ \end{array}$ | 78. 0 100. 7 92. 0 | 68. 9 87. 5 85. 6 | $58.5 \\ 123.2 \\ 82.5 \\ $ | $\begin{array}{c} 63.\ 9\\ 135.\ 1\\ 118.\ 8\end{array}$ | $71. \ 3 \\ 155. \ 1 \\ 142. \ 1$ | $\begin{array}{c} 69.\ 5\\ 151.\ 5\\ 86.\ 8\end{array}$ | $70.\ 4\\156.\ 0\\94.\ 5$ |
| aper goods and printing and publishing Job printing Paper boxes, bags, and tubes | 101. 0 109. 9 119. 0 107. 9 | $ \begin{array}{c} 107.2 \\ 109.6 \\ 117.4 \\ 110.3 \end{array} $ | 97. 2 64. 7 103. 7 | 86. 0 53. 2 91. 6 | $\begin{array}{c} 60.9 \\ 66.1 \\ 40.6 \\ 69.8 \end{array}$ | 77.7 30.1 100.5 | $ \begin{array}{r} 62.6 \\ 89.5 \\ 40.8 \\ 102.1 \\ \end{array} $ | $\begin{array}{c} 68.3\\ 94.6\\ 36.2\\ 108.3 \end{array}$ | 73.5107.349.0107.0 | $ \begin{array}{c} 106. \\ 0\\ 101. \\ 0\\ 100. \\ 1\\ 106. \\ 5 \end{array} $ | 111. 3101. 7105. 798. 3 | 94. 6 98. 5 89. 7 88. 8 | $\begin{array}{c} 64.\ 9\\ 87.\ 8\\ 77.\ 0\\ 77.\ 6\end{array}$ | $\begin{array}{c} 65.\ 0\\ 72.\ 1\\ 59.\ 8\\ 69.\ 0\end{array}$ | $73.8 \\83.5 \\64.6 \\98.2$ | $70.1 \\ 86.8 \\ 70.9 \\ 99.6$ | 71.788.673.493.1 | $77.8 \\93.1 \\76.5 \\95.6$ |
| Ietals and machinery (including electri- cal): Electrical machinery, apparatus, and | E. | | | 1.000 | | era na na la | 144 | CINCLES- Son. El | NI IN | | | | | | | Data | | ision. |
| supplies Watches, clocks, jewelry hemical and allied products | $\begin{array}{c} 91.\ 6\\ 101.\ 0\\ 114.\ 5\end{array}$ | $129.5 \\ 105.2 \\ 110.2$ | $70.\ 1 \\ 97.\ 2 \\ 81.\ 7$ | $51.\ 3\\73.\ 7\\96.\ 8$ | $\begin{array}{c} 24.\ 7\\ 36.\ 5\\ 73.\ 8\end{array}$ | $\begin{array}{c} 26.8\\ 39.6\\ 105.7\end{array}$ | $31.9 \\ 58.6 \\ 122.3$ | 34.5 78.6 107.3 | $\begin{array}{r} 44.\ 3\\ 91.\ 5\\ 119.\ 5\end{array}$ | $114.3 \\ 100.3 \\ 101.0$ | $116.8 \\ 103.8 \\ 100.5$ | 70.696.188.5 | 55. 1 75. 7 75. 6 | $\begin{array}{c} 31.\ 2\\ 42.\ 1\\ 66.\ 7\end{array}$ | 30.0 48.8 92.4 | 36.5 66.9 95.7 | $37.8 \\ 76.9 \\ 92.6$ | $ 48.4 \\ 82.4 \\ 99.7 $ |
| Nonmanufacturing industries: epartment and variety stores | 95. 5 | 94. 7 | 83. 5 | 84.4 | 87.0 | 95. 1 | 96.3 | 95.7 | 92. 2 | 107.8 | 102.5 | 93. 2 | 98.2 | 100.1 | 108.6 | 112.8 | 114.4 | 132.7 |
| otels and restaurants aundering, cleaning, and dyeing elephone companies | 95.5 100.8 100.4 | $100. 6 \\ 111. 0 \\ 105. 8$ | $ \begin{array}{c} 104. \\ 99. \\ 99. \\ 99. \\ 99. \\ 99. \\ 99. \\ 90.$ | $ \begin{array}{r} 119.5 \\ 91.4 \\ 87.5 \end{array} $ | 110.4 77.6 81.1 | 128.0 83.3 72.4 | $ \begin{array}{r} 119.4 \\ 78.0 \\ 76.6 \end{array} $ | 99.5 78.6 69.7 | $\binom{(2)}{85.9}$ 69.0 | 98.8 100.4 100.1 | 97.7 98.8 104.8 | $ \begin{array}{c} 105.2\\ 95.9\\ 103.4 \end{array} $ | 100. 0 89. 3 84. 4 | 93. 3 72. 2 81. 8 | $ \begin{array}{c} 103.0\\ 112.2\\ 67.0\\ 75.3 \end{array} $ | $ \begin{array}{c} 112. \\ 0 \\ 112. \\ 56. \\ 77. \\ 5 \end{array} $ | $ \begin{array}{r} 114.4 \\ 108.1 \\ 61.7 \\ 74.1 \end{array} $ | (2) 67.6 70.8 |

TABLE I.-INDEXES OF EMPLOYMENT OF WOMEN AND MEN IN IMPORTANT WOMAN-EMPLOYING INDUSTRIES IN ILLINOIS, SEPTEMBER OF EACH YEAR, 1928-36 1

¹ From indexes constructed by the Women's Bureau as link relatives for each of the 12 months in these years, by the use of the percent change from month to month in employ-ment in identical establishments, as furnished by the Illinois Department of Labor and Industries. All industries included in which 1,500 or more women were reported in either September 1930 or September 1935. ² Not obtainable.

TABLE II.—INDEXES OF EMPLOYMENT OF WOMEN AND MEN IN IMPORTANT WOMAN-EMPLOYING INDUSTRIES IN MASSACHUSETTS, SEPTEMBER OF EACH REPORTED YEAR, 1928-34 1

[September 1928=100]

| And the second s | 19909A | Won | nen | | Men | | | | | | |
|--|----------------|---|-----------------|---|------------------|----------------|-----------------|------------|--|--|--|
| Industry | 1928 | 1930 | 1932 | 1934 | 1928 | 1930 | 1932 | 1934 | | | |
| All manufacturing—total | 100.0 | 87.2 | 71.9 | 72.2 | 100.0 | 88.1 | 64.8 | 73. | | | |
| | | 82.0 | 72.0 | 58.2 | 100.0 | 84.4 | 72.9 | 65. | | | |
| Carpets and rugs (not rag) | | 58.8 | 46.8 | 30.9 | 100.0 | 72.2 | 55.5 | 47. | | | |
| Carpets and rugs (not rag) | | 87.3 | 66.4 | 59.2 | 100.0 | 88.4 | 63.0 | 64. | | | |
| Cotton goods Cotton small wares | 100.0 | 80.5 | 65.0 | 65.5 | 100.0 | 93.5 | 85.8 | 86. 80. | | | |
| Dyeing and finishing, textiles | 100.0 | 94.5 | 87.9 | 75.5 | 100.0 | 91.8 | 80. 6 99. 2 | 80. 95. | | | |
| Knit goods | 100.0 | 95.4 | 82.0 | 77.9 | 100.0 | 103.2 | 99. 2 128. 1 | 138. | | | |
| Silk silk goods and rayon goods | 100.0 | 67.4 | 71.1 | 84.9 | 100. 0 100. 0 | 69.2 80.6 | 76.2 | 53. | | | |
| Woolen and worsted | 100.0 | 77.6 | 80.3 | 44.4 | 100.0 | 80. 0 99. 2 | 84.5 | 101 | | | |
| lothing 3 | 100.0 | 103.2 | 95.0 | $\begin{array}{c c} 106.1 \\ 113.2 \end{array}$ | 100.0 | 96.0 | 82.5 | 101 | | | |
| Mon's clothing4 | 100.0 | 103.2 | 95. 2 102. 2 | 105.0 | 100.0 | 107.5 | 89.7 | 102 | | | |
| Women's clothing | 100.0 | 106.4 | 102.2 | 100.0 | 100.0 | 101.0 | 00 | 11 | | | |
| | | 95.3 | 89.3 | 91.4 | 100.0 | 118.1 | 110.0 | 144. | | | |
| Bread and other bakery products | | 87.3 | 68.3 | 78.6 | 100.0 | 81.8 | 64.2 | 75 | | | |
| Confectionery | 100.0 | 01.0 | 00.0 | | | | | | | | |
| eather: | 100.0 | 86.9 | 77.5 | 77.9 | 100.0 | 87.8 | 76.1 | 80. | | | |
| Boots and shoes, other than rubber Boot and shoe cut stock and findings | | 88.8 | 81.0 | 83.7 | 100.0 | 93.6 | 82.5 | 91. | | | |
| aper and printing 5 | 100.0 | 91.9 | 70.3 | 75.7 | 100.0 | 98.3 | 80.6 | 89 99 | | | |
| Paper and printing 5 Boxes, paper and other, n. e. c.6 | 100.0 | 82.5 | 62.5 | 62.6 | 100.0 | 92.9 | $82.7 \\ 64.0$ | 99. 49. | | | |
| There lengt and station own n 0.00/ | 100.0 | 86.4 | 64.3 | 45.3 | 100.0 | 85.6 | 64.0 76.8 | 49 82 | | | |
| Paper and wood pulp Printing and publishing | 100. 0 | 78.7 | 65.0 | 66.7 | 100. 0 100. 0 | 90. 8 99. 9 | 80.7 | 86 | | | |
| Printing and publishing | 100.0 | • 112.0 | 77.1 | 81.3 71.4 | 100.0 | 92.6 | 45.3 | 60 | | | |
| Mectrical machinery and supplies (including radios) | 100.0 | 88.2 | 48.6 | 64.3 | 100.0 | 87.7 | 44.8 | 63 | | | |
| Electrical machinery and supplies (including radios) | 100.0 | 85.2 | 38.5 | 58.4 | 100.0 | 65.6 | (8) | 55 | | | |
| Rubber / | 100.0 | $\begin{array}{c} 72.6\\68.4 \end{array}$ | (8) | 56.3 | 100.0 | 58.7 | (8) | 49 | | | |
| Boots and shoes, rubber Rubber goods (other than boots and shoes) and rubber tires and inner tubes | 100.0 100.0 | 82.3 | 78.9 | 63.0 | 100.0 | 71.6 | 53.8 | 61 | | | |

¹ Indexes constructed by Women's Bureau from figures in the Census of Manufactures taken by the Massachusetts Department of Labor and Industries. These are by sex only in even years, since in odd years the schedule used is that of the U.S. Census of Manufactures, which requests data by sex only decennially. All industries included in which 1,500 or more women were reported in either September 1928 or September 1934.
 ² Compiled by Women's Bureau. Includes, besides the details shown, the following: Cordage and twine; felt goods; linen goods; wool scouring; and wool shoddy.
 ³ Compiled by Women's Bureau. Includes, besides the details shown, the following: Suspenders, garters, and other elastic woven goods made from purchased webbing; and corsets and allied garments.

Compiled by Women's Bureau.
 Includes the following: Clothing, men's, youths', and boys', n. e. c.⁶; furnishing goods, men's; and shirts.
 Compiled by Women's Bureau.
 Includes, besides the details shown, the following: Bookbinding and blank-book making; engraving, chasing, etching, and die sinking; engrav-⁵ Compiled by Women's Bureau.
 Includes, besides the details shown, the following: Bookbinding and blank-book making; engraving, chasing, etching, and die sinking; engrav-⁶ Compiled by Women's Bureau.
 Mot elsewhere classified.
 ⁷ Compiled by Women's Bureau.

42

TABLE III.---INDEXES OF EMPLOYMENT OF WOMEN AND MEN IN IMPORTANT WOMAN-EMPLOYING INDUSTRIES IN 44 OHIO, SEPTEMBER OF EACH YEAR, 1928-351 [September 1928=100]

| Industry | | 1953 1057 | n- Fale (E Dille of 1 | Wo | omen | | | | Men | | | | | | | | |
|---|----------------|-------------------|------------------------------|----------------|-----------------|---------------|----------------|------------|----------------|----------------|---------|--------------|-----------------------|--------|-------|------------------|--|
| And her south factor that here had putter that think | 1928 | 1929 | 1930 | 1931 | 1932 2 | 1933 | 1934 | 1935 | 1928 | 1929 | 1930 | 1931 | 1932 3 | 1933 | 1934 | 1935 | |
| All employees | 100.0 | 109.1 | 96.9 | 90.5 | | (2) | 88.4 | 95.5 | 100.0 | 104.2 | 86.6 | 72.3 | | (2) | 74.6 | 85.0 | |
| age earners in— | | 3. S. S. S. S. S. | | | e contrato a la | Self- | Terret | | N. S. | 1 | | | | | | | |
| All industries | 100.0 | 109.0 | 92.6 | 86.5 | | 84.5 | 85.4 | 93.2 | 100.0 | 103.1 | 84.3 | 00 1 | | | 50.0 | | |
| All manufactures | 100.0 | 108.8 | 86.0 | 78.2 | | 85.2 | 83.1 | 93.2 | 100.0 | 103.1 | 84.3 | 69.4 65.5 | | 71.3 | 72.0 | 82.8 | |
| Textiles: | | 100.0 | 00.0 | | | 00.4 | 00.1 | 91.0 | 100.0 | 104.4 | 00.0 | 00.0 | | 74.5 | 72.1 | 85.5 | |
| Hosiery and knit goods | 100.0 | 104.0 | 90.4 | 91.2 | 1 1 1 1 1 1 | 119.9 | 104.4 | 122.2 | 100.0 | 99.1 | 87.5 | 82.1 | | 119.5 | 92.7 | 114.8 | |
| Woolen, worsted, and wool-felt goods, includ- | | | | | | 110.0 | 101.1 | 144.4 | 100.0 | 33.1 | 01.0 | 04.1 | | 119.0 | 94. 1 | 114.8 | |
| ing fur and felt hats | 100.0 | 134.3 | 108.5 | 97.7 | | 114.8 | 89.8 | 134.9 | 100.0 | 122.4 | 125.9 | 96.2 | NIR L | 122.9 | 94.8 | 137.9 | |
| Clothing: | | | | AL AND | | 1.1.1.1.1.1.1 | | 10110 | | | 1.0.0 | 00.2 | | 144.0 | 01.0 | 101. 0 | |
| Men's clothing, including shirts and coat | | | | | West Wi | | | 1.2.2 19 1 | 12. 19 20 10 | Lat West half | A Stand | | | | | | |
| pads | 100.0 | 113.9 | 96.5 | 91.4 | | 98.3 | 98.9 | 105.0 | 100.0 | 107.7 | 101.9 | 98.4 | | 101.9 | 114.2 | 117.2 | |
| Women's clothing, including corsets | 100.0 | 103.4 | 91.9 | 96.9 | | 82.7 | 84.0 | 82.4 | 100.0 | 92.3 | 90.0 | 90.2 | | 70.0 | 69.0 | 67.1 | |
| Food and kindred products | 100.0 | 110.4 | 115.3 | 112.0 | | 111.5 | 128.3 | 130.3 | 100.0 | 105.5 | 113.7 | 111.5 | | 109.9 | 120.7 | 122.2 | |
| Bakery products | 100.0 | 107.1 | 116.6 | 99.8 | | 91.0 | 103.8 | 99.6 | 100.0 | 106.7 | 142.7 | 130. 2 | | 137.9 | 147.2 | 150.2 | |
| Canning and preserving Boots and shoes, cut stock and findings | 100.0 | 118.9 | 134.9 | 157.4 | | 163.0 | 222.9 | 242.1 | 100.0 | 114.4 | 105.2 | 128.8 | | 86.8 | 118.5 | 130.6 | |
| Tobacco manufactures 3 | 100.0 100.0 | 105.9 | 93.5 | 92.4 | | 101.5 | 89.2 | 123.0 | 100.0 | 95.7 | 86.0 | 86.8 | | 87.8 | 74.2 | 102.7 | |
| Cigars and cigarettes | 100.0 100.0 | 89.9 88.6 | 74.9 | 69. 2 67. c | | 46.9 | 55.3 | 45.6 | 100.0 | 78.6 | 70.9 | 71.5 | | 59.2 | 64.5 | 63.2 | |
| Paper and printing | 100.0 | 88. 0 117. 0 | 73.8 103.7 | 67.6 101.6 | | 36.5 | 38.5 | 36.4 | 100.0 | 69.2 | 64.8 | 68.9 | | 37.9 | 42.6 | 43.8 | |
| Printing and publishing | 100.0 | 138.8 | 103. 7 | 139.7 | | 109.6 | 104.9 | 111.5 | 100.0 | 105.6 | 99.0 | 92.9 | | 100. 2 | 100.7 | 103.7 | |
| Electrical machinery, apparatus, and supplies | 100.0 | 138.8 129.1 | 83.0 | 62.1 | | 142.7 89.7 | 134.5 | 137.8 | 100.0 | 108.1 | 104.6 | 99.6 | | 100.0 | 101.6 | 104.5 | |
| Radios and parts | 100.0 | 132.8 | 116.8 | 86.4 | | 67.1 | $53.1 \\ 62.3$ | 92.8 | 100.0 100.0 | 115.8 | 84.6 | 65.8 | | 80.4 | 56.1 | 96.7 | |
| Iron and steel and their products | 100.0 | 97.0 | 68.9 | 55. 2 | | 69.9 | 66.4 | 46.9 80.2 | 100.0 | 181.3 | 127.3 | 93. 9 | | 70.7 | 46.4 | 64.0 | |
| Foundry and machine-shop products | 100.0 | 99.4 | 66.3 | 55.2 | | 74.2 | 65.8 | 80.2 | 100.0 | 107.5 109.5 | 77.9 | 54.2 | | 71.4 | 62.7 | 83. 5 | |
| Metals and metal products, other than iron and | 200.0 | 00.1 | 00.0 | 00. 2 | | 17.4 | 00.0 | 01.1 | 100.0 | 109.5 | 79.3 | 56.4 | | 59.0 | 63. 0 | 79.2 | |
| steel | 100.0 | 138.5 | 80.4 | 72.9 | | 96.3 | 101.1 | 111.7 | 100.0 | 113.1 | 94.4 | 83.8 | | 106.5 | 107.8 | 101 0 | |
| Copper, tin, and sheet-iron products | 100.0 | 116.1 | 99.7 | 93.8 | | 113.6 | 107.1 | 120.4 | 100.0 | 114.5 | 110.8 | 103.6 | | 121.6 | 107.8 | $121.8 \\ 134.9$ | |
| Gas and electric fixtures and lamps and re- | | | | 00.0 | | 110.0 | 101.1 | 120. 1 | 100.0 | 114.0 | 110.0 | 103.0 | | 121.0 | 121.0 | 134. 9 | |
| flectors | 100.0 | 179.5 | 69.5 | 58.4 | | 73.6 | 98.5 | 103.3 | 100.0 | 113.7 | 83. 5 | 69.2 | and the second second | 71.9 | 84.1 | 92.9 | |
| Rubber products Rubber tires and tubes | 100.0 | 110.1 | 69.2 | 60.4 | | 79.4 | 70.1 | 73.5 | 100.0 | 96.9 | 67.7 | 61.4 | | 78.2 | 71.7 | 76.5 | |
| Rubber tires and tubes | 100.0 | 111.8 | 64.6 | 53.5 | | 70.5 | 65.9 | 64.9 | 100.0 | 96.0 | 67.9 | 61. 4 | | 75. 7 | 72.3 | 73.1 | |
| Automobiles and parts | 100.0 | 108.9 | 68.1 | 50.7 | | 36.9 | 58.6 | 46.1 | 100.0 | 96.6 | 64.7 | 52.3 | | 36. 6 | 44.0 | 50.4 | |
| Lumber and its products | 100.0 | 96.3 | 86.7 | 90.2 | | 99.6 | 109.5 | 105.3 | 100.0 | 101.4 | 76.1 | 61.9 | | 63.1 | 58.0 | 66.4 | |
| Stone, clay, and glass products | 100.0 | 90.9 | 70.2 | 60.5 | | 58.3 | 68.2 | 82.5 | 100.0 | 96.8 | 73.7 | 61. 2 | | 55. 2 | 64.4 | 76.8 | |
| Glass | 100.0 | 110.7 | 87.2 | 90.2 | | 114.8 | 149.3 | 151. 5 | 100.0 | 113.7 | 77.1 | 84.5 | | 100.7 | 135.9 | 152. 4 | |
| Pottery, terra-cotta, and fire-clay products | 100.0 | 84.5 | 62.1 | 48.0 | | 51.3 | 53.0 | 73.5 | 100.0 | 75.7 | 61.9 | 42.7 | | 46.4 | 44.0 | 62.0 | |

| Service industries: Hospitals Hotels Laundries, dry cleaners, and renovators Office buildings (including window cleaning) Restaurants Transportation—Telegraph and telephone. Bookkeepers, stenographers, and office clerks— All industries. All manufactures. Salespersons (not traveling) in— Stores, retail and wholesale. | $ \begin{array}{c} 100. 0 \\ 100. 0 \\ 100. 0 \\ 100. 0 \\ 100. 0 \\ 100. 0 \\ 100. 0 \\ 100. 0 \\ 100. 0 \\ 100. 0 \\ \end{array} $ | 114. 4106. 4107. 5113. 6115. 9122. 9110. 5112. 1105. 8 | 111. 4 103. 8 100. 0 118. 3 120. 6 106. 1 106. 9 103. 2 97. 1 | 110. 295. 394. 2115. 0111. 695. 595. 987. 899. 4 | | 97. 1 71. 6 74. 5 126. 6 91. 8 62. 5 $\binom{2}{2}$ $\binom{2}{2}$ | 108.178.277.3135.6107.663.590.185.1102.7 | 117. 690. 876. 7134. 3125. 063. 595. 991. 8108. 5 | 100. 0 100. 0 100. 0 100. 0 | 114. 1104. 9109. 4120. 3112. 8110. 4108. 1108. 4120. 3 | 117. 497. 2113. 1124. 9114. 8104. 2112. 7104. 197. 2 | | | 110. 273. 690. 0161. 698. 866. 7(2)(2)(2) | 116.589.392.6183.2114.969.693.683.1107.1 | 122. 4 102. 2 91. 5 196. 7 141. 3 70. 8 99. 7 91. 8 116. 7 |
|--|--|--|---|--|--|---|--|---|--------------------------------------|--|--|--|--|---|--|--|
|--|--|--|---|--|--|---|--|---|--------------------------------------|--|--|--|--|---|--|--|

¹ Indexes constructed by the Women's Bureau from employment figures reported each year to the Ohio Department of Industrial Relations. All industries included in which
 ² Pigures not obtainable.
 ³ Compiled by Women's Bureau. Includes cigars and cigarettes and chewing and smoking tobacco and snuff.

TABLE IV.—INDEXES OF EMPLOYMENT OF WHITE AND NEGRO WOMEN AND MEN IN IMPORTANT WOMAN-EMPLOY-ING INDUSTRIES IN VIRGINIA, 1930-36¹

[Average for 1930=100]

| Industry | | | | Womer | 1 | | | Men | | | | | | | |
|--|--|--|--|---|--|--|--|--|--|--|---|--|--|--|--|
| | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | |
| | | W | HITE | | | | 1 | | 1 | <u> </u> | <u> </u> | | 1 | <u> </u> | |
| All manufacturing Manufacturing, exclusive of highly seasonal industries ² Fextiles ³ Cotton goods Knitting-mill products Rayon yarn Silk and rayon goods Woolen and worsted goods Uothing ⁴ Food and kindred products Fruit and vegetable canning, etc Leather goods: Boots and shoes Cigars and cigarettes Paper boxes, bags, etc Printing and publishing | 100. 0 100. 0 | 94. 0 94. 3 98. 1 82. 3 98. 3 92. 5 122. 8 120. 6 106. 6 75. 6 90. 6 109. 2 77. 0 73. 9 101. 3 87. 8 97. 0 | $\begin{array}{c} 90,9\\ 91,8\\ 91,3\\ 90,2\\ 112,9\\ 74,8\\ 100,7\\ 104,9\\ 109,6\\ 68,0\\ 78,5\\ 128,9\\ 77,0\\ 70,7\\ 96,5\\ 87,3\\ 86,3\\ \end{array}$ | $\begin{array}{c} 101.\ 5\\ 100.\ 8\\ 104.\ 6\\ 96.\ 1\\ 132.\ 9\\ 87.\ 2\\ 125.\ 2\\ 110.\ 3\\ 128.\ 0\\ 92.\ 7\\ 112.\ 1\\ 96.\ 5\\ 72.\ 8\\ 66.\ 5\\ 102.\ 8\\ 91.\ 1\\ \end{array}$ | $\begin{array}{c} 112.\ 4\\ 109.\ 5\\ 109.\ 5\\ 115.\ 6\\ 133.\ 1\\ 84.\ 1\\ 140.\ 7\\ 93.\ 9\\ 147.\ 8\\ 119.\ 9\\ 151.\ 8\\ 120.\ 6\\ 81.\ 4\\ 77.\ 3\\ 102.\ 7\\ 95.\ 8\\ 89.\ 3\\ \end{array}$ | $\begin{array}{c} 121.\ 4\\ 114.\ 7\\ 115.\ 6\\ 132.\ 7\\ 134.\ 4\\ 76.\ 3\\ 166.\ 6\\ 117.\ 6\\ 156.\ 4\\ 160.\ 3\\ 214.\ 5\\ 109.\ 8\\ 82.\ 7\\ 78.\ 0\\ 102.\ 8\\ 102.\ 2\\ 86.\ 4\\ \end{array}$ | $\begin{array}{c} 128.8\\ 123.8\\ 123.8\\ 121.9\\ 133.5\\ 159.4\\ 73.4\\ 173.2\\ 123.0\\ 176.6\\ 151.0\\ 199.2\\ 119.7\\ 93.4\\ 89.9\\ 107.5\\ 110.1\\ 90.1\\ \end{array}$ | $\begin{array}{c} 100. \ 0\\$ | $\begin{array}{c} 101.\ 0\\ 100.\ 7\\ 95.\ 5\\ 94.\ 3\\ 113.\ 7\\ 86.\ 3\\ 116.\ 3\\ 115.\ 2\\ 97.\ 7\\ 90.\ 6\\ 120.\ 5\\ 114.\ 0\\ 89.\ 6\\ 87.\ 8\\ 112.\ 5\\ 80.\ 2\\ 104.\ 2\\ 104.\ 2\\ \end{array}$ | $\begin{array}{r} 87.5\\ 87.5\\ 87.5\\ 88.9\\ 99.8\\ 109.6\\ 70.8\\ 101.1\\ 123.2\\ 125.0\\ 78.5\\ 89.7\\ 125.3\\ 97.6\\ 96.6\\ 107.2\\ 66.2\\ 95.5\\ \end{array}$ | 96. 0 95. 5 106. 7 116. 4 131. 0 84. 0 84. 0 144. 2 139. 7 120. 5 85. 0 103. 4 122. 3 103. 5 100. 1 124. 3 87. 8 92. 3 | 103. 8 103. 5 123. 0 142. 6 149. 6 92. 3 163. 7 149. 1 134. 3 91. 8 122. 7 100. 7 107. 7 136. 1 83. 8 8. 101. 3 | 115. 0 113. 7 131. 9 155. 4 164. 4 90. 8 189. 0 179. 0 169. 4 109. 6 201. 3 113. 9 111. 5 110. 1 140. 8 81. 7 101. 6 | 120, 4 119, 4 119, 4 150, 5 182, 1 89, 2 215, 6 189, 0 175, 2 117, 7 186, 6 113, 6 118, 3 149, 1 86, 5 107, 3 | |
| Laundries | 100. 0 | 98.6 | 86. 9 | 96. 2 | 116. 1 | 129. 7 | 149.9 | (6) | (6) | (6) | (6) | (6) | (6) | (6) | |
| The second secon | | | | | | | ritori intern There ison | | | | | | | | |

| All manufacturing Manufacturing, exclusive of highly seasonal industries ² | 100. 0 100. 0 | 83. 4 85. 7 | 85. 6 98. 3 | 82.7 88.2 | 96. 6 89. 8 | 90. 7 94. 1 | 98.6 101.3 | 100. 0 100. 0 | 91. 5 91. 8 | 83. 4 84. 0 | 89.3 91.3 | $104.6 \\ 109.6$ | $111. 9 \\ 113. 4$ | $124.4 \\ 131.0$ |
|--|--|---|---|--|--|---|---|--|---|---|---|---|--|---|
| Textiles ³ Food and kindred products Confectionery Fruit and vegetable canning, etc Peanut cleaning, etc Sea foods: Canning, etc Tobacco manufactures ⁵ Cigars and cigarettes Tobacco rehandling Wood products: Fruit and vegetable packages | 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 | 96. 0 70. 2 79. 3 55. 5 128. 3 68. 9 95. 5 82. 1 99. 2 98. 9 | $\begin{array}{c} 81.\ 4\\ 70.\ 7\\ (6)\\ 54.\ 0\\ 107.\ 8\\ 64.\ 3\\ 146.\ 3\\ 172.\ 9\\ 97.\ 7\\ 95.\ 9\end{array}$ | $\begin{array}{c} 103.\ 2\\ 73.\ 1\\ 90.\ 4\\ 57.\ 3\\ 134.\ 6\\ 65.\ 0\\ 109.\ 3\\ 120.\ 4\\ 92.\ 0\\ 100.\ 4\end{array}$ | $\begin{array}{c} 93.\ 4\\ 78.\ 4\\ 79.\ 2\\ 69.\ 2\\ 116.\ 1\\ 80.\ 3\\ 123.\ 8\\ 141.\ 0\\ 125.\ 2\\ 112.\ 7\end{array}$ | $\begin{array}{c} 112. \ 1\\ 87. \ 7\\ 66. \ 9\\ 83. \ 3\\ 124. \ 9\\ 89. \ 1\\ 130. \ 3\\ 154. \ 4\\ 91. \ 3\\ 90. \ 8\end{array}$ | 109. 189. 987. 083. 0119. 593. 8143. 1167. 0108. 079. 2 | $\begin{array}{c} 100.\ 0\\ 100.\ 0\\ 100.\ 0\\ 100.\ 0\\ 100.\ 0\\ 100.\ 0\\ 100.\ 0\\ 100.\ 0\\ 100.\ 0\\ 100.\ 0\\ 100.\ 0\\ \end{array}$ | $\begin{array}{c} 85.\ 4\\ 81.\ 7\\ 103.\ 3\\ 72.\ 8\\ 89.\ 7\\ 81.\ 1\\ 94.\ 4\\ 89.\ 4\\ 102.\ 4\\ 67.\ 2\end{array}$ | 78.7 83.3 97.3 75.0 78.5 92.3 118.1 121.0 77.4 72.4 | 90. 8 82. 5 101. 8 65. 0 81. 0 99. 8 107. 8 103. 4 80. 8 82. 3 | $\begin{array}{c} 88.3\\ 81.4\\ 122.1\\ 71.6\\ 83.8\\ 90.2\\ 117.9\\ 121.3\\ 89.6\\ 101.7\end{array}$ | 93. 4 96. 7 116. 0 103. 1 97. 8 106. 0 122. 0 125. 8 108. 7 96. 9 | $\begin{array}{c} 95.\ 0\\ 92.\ 8\\ 74.\ 9\\ 92.\ 5\\ 127.\ 1\\ 99.\ 5\\ 124.\ 0\\ 130.\ 4\\ 107.\ 3\\ 94.\ 1\end{array}$ |
| Service: Laundries | 100. 0 | 97.7 | 81.8 | 90.8 | 91.4 | 95.7 | 111.2 | (6) | (6) | (6) | (6) | (6) | (6) | (6) |

NEGRO

¹ Indexes computed by Women's Bureau from figures published each year in the annual reports of the Department of Labor and Industry of Virginia or unpublished figures supplied by the same department. These figures are based on the average of employment during the period of plant operation rather than for the calendar year. Days worked in all manufacturing varied from 283 to 247. Changes were made in the classifications in 1930; hence this is used as the base year. Industries are included if as many as 500 women were reported in any 2 years.
^a Excludes canning fruits and vegetables and, under Negro, canning seafoods; confectionery; peanut cleaning, etc.; and tobacco rehandling.
^a Compiled by Women's Bureau. Includes, besides the detail shown, the following: Bags and burlaps; awnings, tents, sails, and canvas covers; and textiles not elsewhere classified.
^a Compiled by Women's Bureau. Includes, besides cigars and underwear (exclusive of knit); and hats and caps.
^b Compiled by Women's Bureau. Includes, besides cigars and cigarettes, chewing and smoking tobacco and snuff.
^c State authorities advised that they had not sufficient data to insure accuracy of this figure.

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APPENDIX B.-GENERAL TABLES

46

TABLE V.—INDEXES OF EMPLOYMENT OF WOMEN AND MEN IN IMPORTANT WOMAN-EMPLOYING INDUSTRIES IN
NEW YORK, SEPTEMBER OF EACH YEAR, 1928-36 1

| and the second se | | | i ang sa | | | [June | 1923=10 | [00] | all section of | | | | | | | | | |
|---|---|-------------------------------------|--|---|--|------------------------|--|--|---|--|---|---|---|--|------------------------|------------------------|---|--|
| Industry | | | | | Women | 1 | | New Mr. | Men | | | | | | | | | |
| Industry | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 |
| All manufacturing ² | 85 | 91 | 80 | 73 | 59 | 68 | 72 | 75 | 81 | 84 | 90 | 77 | 66 | 51 | 62 | 65 | 69 | 75 |
| extiles Knit goods (except silk) Silk and silk goods Woolens, carpets, felt | $ \begin{array}{r} 69 \\ 55 \\ 61 \\ 87 \end{array} $ | $74 \\ 58 \\ 61 \\ 100$ | $60 \\ 53 \\ 56 \\ 71$ | $56 \\ 48 \\ 54 \\ 66$ | 40 49 36 40 | $52 \\ 49 \\ 53 \\ 63$ | $48 \\ 46 \\ 60 \\ 54$ | $62 \\ 57 \\ 85 \\ 64$ | $ \begin{array}{r} 64 \\ 58 \\ 93 \\ 61 \end{array} $ | 79 67 80 94 | 85 73 72 | 70 64 73 | | 48 57 57 | $70 \\ 64 \\ 85 \\ 00$ | | 75 69 91 | 78 72 87 |
| Notifing: Men's clothing Men's furnishings Women's clothing | 87 66 86 | 91 67 96 | 82 49 98 | 79 -18 | 70 37 | 80 47 | $\frac{86}{54}$ | 88 50 | 85 52 | 69 70 | 107 76 70 | 88 69 52 | 82 66 49 | 52 63 44 | 88 75 51 | 77 75 56 | 94 75 63 | 91 76 62 |
| Women's headwear Women's underwear | 88 59 | 86 65 | 82 54 | 83 83 57 | 65 77 47 | $71 \\ 79 \\ 46$ | 82 98 55 | 93 75 60 | $\begin{array}{c}101\\86\\64\end{array}$ | $\begin{array}{c}104\\117\\74\end{array}$ | $ \begin{array}{c} 117 \\ 111 \\ 83 \end{array} $ | $ \begin{array}{r} 113 \\ 101 \\ 75 \end{array} $ | 102 89 68 | 80 78 63 | 95 92 62 | $120 \\ 125 \\ 68$ | $ \begin{array}{r} 127 \\ 108 \\ 75 \end{array} $ | $ \begin{array}{r} 139 \\ 103 \\ 76 \end{array} $ |
| Bakery products Candy Canning and preserving eather: | $91 \\ 102 \\ 158$ | 72 99 204 | $63 \\ 88 \\ 259$ | $ \begin{array}{r} 61 \\ 105 \\ 196 \end{array} $ | 47 84 158 | $42 \\ 94 \\ 221$ | $ \begin{array}{r} 40 \\ 93 \\ 236 \end{array} $ | $37 \\ 79 \\ 245$ | $33 \\ 95 \\ 267$ | $95 \\ 104 \\ 149$ | 88 97 173 | 83 82 262 | $75 \\ 91 \\ 235$ | $ \begin{array}{r} 68 \\ 76 \\ 174 \end{array} $ | 73 106 196 | $72 \\ 113 \\ 248$ | $ \begin{array}{r} 66 \\ 111 \\ 247 \end{array} $ | |
| Gloves, bags, canvas goods Shoes obacco aper and printing | $94 \\ 110 \\ 57 \\ 91$ | $115 \\ 141 \\ 56 \\ 91$ | $114 \\ 130 \\ 40 \\ 80$ | $90 \\ 101 \\ 39 \\ 67$ | 73 76 35 55 | $98 \\ 72 \\ 13 \\ 67$ | 99 77 20 69 | $91 \\ 78 \\ 20 \\ 76$ | $93 \\ 78 \\ 16 \\ 85$ | 87 98 75 90 | $ \begin{array}{r} 106 \\ 107 \\ 65 \\ 95 \end{array} $ | $95 \\ 114 \\ 39 \\ 89$ | $ \begin{array}{r} 67 \\ 92 \\ 39 \\ 80 \end{array} $ | $ 46 \\ 78 \\ 32 \\ 66 $ | $74 \\ 59 \\ 17 \\ 72$ | $73 \\ 69 \\ 25 \\ 74$ | | $ \begin{array}{r} 60 \\ 73 \\ 22 \\ 84 \end{array} $ |
| Paper boxes and tubes Printing and bookmaking etals and machinery (including electric)_ Machinery and electrical apparatus | $77 \\ 96 \\ 103 \\ 116$ | $74 \\ 100 \\ 108 \\ 136$ | | | $47 \\ 55 \\ 41 \\ 41$ | 63 65 63 66 | 68 66 67 59 | $71 \\ 76 \\ 74 \\ 72$ | 84 84 84 75 | 79 93 81 83 | 89 97 93 103 | 81 92 70 76 | 79 83 53 58 | | | 86 73 52 50 | 94 78 57 55 | $ \begin{array}{r} 84 \\ 100 \\ 84 \\ 66 \\ 61 \end{array} $ |
| Sheet metal and hardware ubber and gutta percha ood manufactures nemicals, oils, and paint: | 100 73 75 | 72 60 79 | $\begin{array}{c} 52\\56\\70\end{array}$ | 48 49 61 | $\begin{array}{c} 39\\ 40\\ 45\end{array}$ | $51 \\ 51 \\ 55$ | $53 \\ 43 \\ 50$ | $\begin{array}{c} 46\\ 44\\ 57\end{array}$ | $\begin{array}{c} 61\\ 44\\ 60\end{array}$ | 84 81 78 | 80 76 76 | 65 49 59 | 56 42 47 | 42 28 31 | $51\\43\\39$ | 54 37 36 | 59 38 42 | 66 45 47 |
| Drugs and industrial chemicals Photographic and miscellaneous chemicals undering and cleaning | 84 93 125 | $ 125 \\ 103 \\ 133 $ | $\begin{array}{c} 102\\ 102\\ 128 \end{array}$ | $\begin{array}{c}105\\85\\126\end{array}$ | 87 77 111 | 111 80 119 | 115 101 114 | 108 104 111 | 104 116 122 | $\begin{array}{c}113\\112\\106\end{array}$ | 129 133 117 | 119 144 111 | 108 117 113 | 93 100 96 | 116 103 112 | 121 126 103 | 117 140 116 | $135 \\ 164 \\ 130$ |

² Includes laundering and cleaning.

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