



[PUBLIC-No. 259-66TH CONGRESS]

[H. R. 13229]

An Act To establish in the Department of Labor a bureau to be known as the Women's Bareau

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there shall be established in the Department of Labor a bureau to be known as the Women's Bureau.

SEC. 2. That the said bureau shall be in charge of a director, a woman, to be appointed by the President, by and with the advice and consent of the Senate, who shall receive an annual compensation of \$5,000. It shall be the duty of said bureau to formulate standards and policies which shall promote the welfare of wageearning women, improve their working conditions, increase their efficiency, and advance their opportunities for profitable employment. The said bureau shall have authority to investigate and report to the said department upon all matters pertaining to the welfare of women in industry. The director of said bureau may from time to time publish the results of these investigations in such a manner and to such extent as the Secretary of Labor may prescribe.

SEC. 3. That there shall be in said bureau an assistant director, to be appointed by the Secretary of Labor, who shall receive an annual compensation of \$3,500 and shall perform such duties as shall be prescribed by the director and approved by the Secretary of Labor.

SEC. 4. That there is hereby authorized to be employed by said bureau a chief clerk and such special agents, assistants, clerks, and other employees at such rates of compensation and in such numbers as Congress may from time to time provide by appropriations.

SEC. 5. That the Secretary of Labor is hereby directed to furnish sufficient quarters, office furniture, and equipment for the work of this bureau.

SEC. 6. That this act shall take effect and be in force from and after its passage.

Approved, June 5, 1920.



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LETTER OF TRANSMITTAL

UNITED STATES DEPARTMENT OF LABOR, WOMEN'S BUREAU, Washington, July 1, 1929.

SIR: I am submitting herewith a report on the variations in employment trends of women and of men in the State of Ohio over an 11-year period. The study was made at the request of the committee on governmental labor statistics appointed by the American Statistical Association. The figures on which the study is based were made available to the bureau by the division of labor statistics of the Department of Industrial Relations of Ohio. Acknowledgment is made of the courtesy of the Ohio officials in assisting in the solution of the problems that arose and in answering the many inquiries.

Miss Mary van Kleeck and Mr. Ralph G. Hurlin, respectively chairman and secretary of the committee on governmental labor statistics, have been consulted freely as to procedure and method and have given generously of their time and judgment. Other members of the committee, independent economists, Ohio employers, and the commissioner and certain members of the staff of the United States Bureau of Labor Statistics also have lent cooperation. To all these persons my grateful thanks are extended.

The analysis of the charts has been made by Mary N. Winslow, in charge of special studies in this bureau, and the reports on the iron and steel and textile industries, appearing as an appendix, were prepared by Frances V. Speek and Peter A. Speek.

Respectfully submitted.

MARY ANDERSON, Director.

Hon. JAMES J. DAVIS, Secretary of Labor.

ΨII

PART I. RECORDS STUDIED AND METHODS OF PRESENTATION

INTRODUCTION

The present study was suggested at a meeting in New York City, on April 13 and 14, 1923, of the committee on governmental labor statistics appointed by the American Statistical Association. This committee is concerned with improvements in methods of collecting and presenting employment statistics, and its membership consists of representatives of State and Federal bureaus and other organizations actually collecting employment data. One of the problems that have presented themselves to this committee has been whether or not employment statistics should be collected and presented separately for men and women.

For many years it has been the custom of the United States Bureau of the Census in its reports on employment in manufacturing industries to present figures showing the number of male and of female wage earners. This practice was discontinued in the report for 1921 and has not been resumed. In some of the States where regular employment statistics are gathered it is customary to give the results only for the total of both sexes. In a few States the figures are given separately for males and females.

Naturally, in collecting and presenting employment statistics any simplification of the basic facts required is very much to be desired, provided that such simplification does not reduce the usefulness and significance of the facts. It is, therefore, highly desirable that before finally adopting any simplified method of presenting statistics on employment there should be careful examination of the possibility of the loss, through such simplification, of fundamentally important facts and the obscuring of others.

Women form a comparatively small minority of the persons employed in wage-earning pursuits. It is inevitable, therefore, that in any general statistical presentation of employment figures the trends indicated would be chiefly influenced by the trends of men's employment.

But although women are in the minority among wage earners, the present developments of the economic and industrial life of the country are bringing about significant changes in their status. If public policies are to be guided wisely toward the stimulation of employment and the reduction of unemployment for all wage earners it will be necessary to know just how the developments of women's employment differ from those of men's. If there is no great difference in trends for the two sexes, figures giving employment statistics for the two groups combined will be adequate and will be simpler of collection

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and presentation. But, on the other hand, it may be that women's employment is subject to different influences and reacts differently from men's. If this is so, it will be essential that employment trends for each sex be known.

In view of the importance of this problem in relation to the employment of women and the lack of any adequate data to illuminate it, the committee on governmental labor statistics asked the Women's Bureau to consider the possibility of a statistical study of State records of employment in Illinois and Ohio. The committee unanimously agreed that such a study would throw a good deal of light on fluctuations in employment and would show whether it should be urged that employment figures be collected separately for men and women.

SOURCE AND TYPE OF BASIC DATA

In planning the study it was thought originally that Massachusetts or Illinois would be found to have the most complete employment statistics by sex over a period of years. Investigation showed, however, that Illinois, though it secures data by sex, tabulates and publishes only the total figures, and that the continuity of the Massachusetts series was broken in 1921 when the State followed the lead of the Federal census and asked for the total number of employees only, an unfortunate occurrence that lessened the value of the data, as 1921 figures show what happened to the two sexes in severe industrial depression. Furthermore, for neither of these States are figures available on the numbers of clerks and sales people.

A much more satisfactory and significant field for study was indicated in the figures available in the State of Ohio. Since 1914 this State has collected monthly figures on employment, by sex, for wage earners, clerical workers, and sales people not traveling. For the years 1916 to 1922 these figures have not been published; for 1922 they had not, at the time of inquiry, even been tabulated. But it was apparent that here was the most promising field, since material was available on the sex distribution of clerks and of sales people, as well as wage earners, for the years 1914 to 1924. Accordingly, Ohio was selected as the field for study.

Throughout the course of this study the Women's Bureau has been fortunate in receiving the fullest cooperation from the Ohio Division of Labor Statistics. That division has not only furnished the basic data necessary for the study but has been of great help in the analysis and interpretation of the figures after they were compiled.

The Ohio law creating the bureau of labor statistics was passed May 5, 1877, and the first commission was appointed two days later. A report for the year ended June 30, 1877, was issued, though of the 1,021 blanks sent to employers only 405 were returned. Most of these reported total number of employees only, and gave but one figure for the year, as did the reports for 1878 to 1885. For 1886 to 1891, practically without a break, sex and industry were reported and tabulated; in 1892 and 1893, special reports on women were made; and since 1894 the numbers of men and women in the various occupations have been presented separately. At the time of the present study, then, the employers of the State had for 30 years been reporting their employees by sex, an experience that augurs well for the authenticity of the figures. Separation by sex, but only the year's average, was the form of reports until 1914, when the present system was installed, under which a statement made in the month of January gives the number of men and of women employed on the 15th (or nearest representative day) of each month of the calendar year just ended, wage earners, clerical workers, and sales persons not traveling being reported separately. It is this valuable series of monthly data, culminating in reports for 30,439 establishments and 1,055,720 employees in 1924, that constitutes the basis of the present report.

The schedule sent to employers (Form 1124) has remained practically unchanged throughout the 11-year period. The form and instructions are reproduced in an appendix to this report.

This form, with a letter, is sent to employers on January 1 of each year. Replies must be filed on or before the last day of January. It is explained in the letter that the report asked for is distinct from the semiannual pay-roll report furnished the auditing department of the industrial commission in connection with workmen's compensation insurance. It is stated further that if the employer's business was disposed of during the year a report covering the period before such transaction must be made, and the present status of the business, with name and address of present owner, must be reported. It is not stated that replies must be certified before a notary.

A number of form letters are used for the subsequent correspondence in regard to the reports submitted—questions unanswered or misunderstood, inconsistencies, only part of the year covered, and so on.

Since 1920, blanks have been sent to every employer coming under the compensation law, which law was compulsory, in the years 1921 to 1923, for all employers having five or more employees, compulsory in 1924 for all employers having three or more employees, and in both periods optional with employers having fewer employees. For the years 1914 to 1920 the blanks were sent to every employer whose name could be secured, so that the change in 1921 to the list of those having five or more employees resulted in a reduction in the list of firms covered.

QUALIFICATIONS OF DATA

Accuracy.

Every effort is made by the Ohio Division of Labor Statistics to insure that the figures sent in are accurate. The schedules are edited, checked with those received in earlier years, and compared with the reports on total pay roll submitted to the workmen's compensation authorities. Incomplete or inaccurate schedules are returned to the employers for correction.

Form A-21 sent out by the workmen's compensation authorities calls for the total wages paid for a year, and Form 1124 sent out by the division of labor statistics calls for the weekly rate. "In this way" to quote the division of labor statistics, "we can check the two reports, and if there is a discrepancy or any cause whatsoever for questioning the accuracy, we immediately return the report and ask that same be corrected, and in some cases to be verified under oath. For the year 1923, we returned 3,031 reports for correction. * * * We endeavor to impress upon employers that we do not wish any figures other than actual figures, taken from their time book or pay-roll reports, but * * * we can not help the creeping in of some errors 4 v.

because we receive reports from thousands of employers in the State of Ohio.

"We feel assured that these reports are as near correct as they can be, under existing conditions. I might add that it is the general opinion of employers in the State of Ohio, that our report and Form A-21 of the auditing department are compared, and they therefore attempt to give us accurate figures because the auditing department has traveling auditors to make a check on every pay roll in the State."

Completeness.

In the 11 years the data collected have been of three grades of completeness: (1) All persons known to be employers—1914 to 1920; (2) all persons known to have five or more employees and some electing to be insured though having fewer than five employees—1921 to 1923; and (3) all persons known to have three or more employees and again some electing to be insured—1924.

The State reports are considered to cover everything but interstate railroads and mines and quarries. Actually, however, considerable numbers of employers are not included. For example, only a few farms, relatively speaking, are reported, because commonly they have not as many as three or five employees, as the case may be. The same qualification applies to the number of establishments reported in other classifications where small units are customary. The omissions, however, though probably affecting to a considerable degree the accuracy of the number of establishments reported in such classifications, are not equally serious when the numbers of employees are considered; for the total number of employees in these small establishments, employing less than three or five persons, would form a very small proportion of the employees enumerated in the reported establishments. Their omission, therefore, probably has had very little effect on the validity of the figures as representing total employment in the State.

This is illustrated by comparing the figures reported by the State with those reported by the Federal census for the same periods. In a comparison with the United States census of manufactures of the numbers of wage earners in manufacturing in the Ohio figures, the differences are found to be small. For such comparison there were excluded from the census totals the figures for cars and general construction and repairs of electric and steam railroad shops, since these were not tabulated by the State, and there were excluded from the State totals the figures for custom tailoring and tobacco rehandling, not taken by the census. Thus made comparable, the Federal figures exceed the State figures for 1919 by only 2.7 per cent, for 1921 by only 2.1 per cent, and for 1923 by only 1.6 per cent. In other words, if the Federal census may be considered as 100 per cent, the State reports covered, in 1919, 97.3 per cent; in 1921, 97.9 per cent; and in 1923, 98.4 per cent. Federal and State governments alike call for the number of wage earners on the 15th of the month or the nearest representative day. Moreover, when the State system of reporting was put on a new basis in 1914, and reports by the month were called for, the manufacturing establishments were classified as closely as local conditions would permit like the 1909 United States census of manufactures.

Greater differences exist between Federal and State reports of numbers of establishments. Though the invariable rule of the State is to report as two or more establishments any firm whose operations fall into two or more classes,¹ a practice resorted to by the Federal census only occasionally or in some cases, the inclusion by the latter in 1919 of all firms whose annual product was worth as much as \$500 operated to make the Federal number of establishments very much greater than that of the State, the Federal figures exceeding the State figures by 81.9 per cent. In 1921 and in 1923 the Federal census excluded all firms whose value of product was less than \$5,000, but the numbers of establishments exceeded by 33.5 per cent and 28.9 per cent, respectively, the numbers reported by the Ohio authorities.

That these discrepancies in numbers of establishments make so slight a difference in numbers of employees is due to the fact that such small numbers of wage earners are in the factories with an output of less than \$5,000 value.

In spite of the indications of harmony between State and Federal figures there are a few gross examples of dissimilarity. Perhaps the most striking is that appearing at the close of 1919 in the rubbergoods industry, where the Federal figure, which from January to October had practically equaled the State figure, unaccountably falls below it in November and December by 17.4 and 20.1 per cent, respectively. Since tires and tubes formed 95 or more per cent of the rubber industry, through the courtesy of the largest Akron employers the State figures were verified, and from inquiry of the Bureau of the Census it was learned that the peculiarity of the November and December figures had been noted but could not be explained.

Assignment of the electric-lamp industry to different groups by State and Federal statisticians probably accounts for the discrepancies between the two authorities apparent in the groups "electrical machinery, apparatus, and supplies" and "gas and electric fixtures and lamps and reflectors." The Federal figure very much exceeds the State figure in the first group mentioned and falls far short of it in the case of the second group. The discrepancy is much diminished, however, when the two groups are thrown into one.

The most exaggerated case of Federal and State figures disagreeing in an unimportant industry, where the Bureau of the Census reports more employees in the manufacture of screws, by several hundred per cent, than does the State, appears to be due to the census having included, with plants producing machine screws, plants producing special parts, most of which are threaded, made on screw machines. In fact, by 1923 the group is so described.

The table next presented shows in detail a comparison of the State and Federal figures for 1923.

¹ For example, a tobacco manufacturer making his own boxes is required to submit two reports, one covering the tobacco manufacture and one the manufacture of boxes, and each is considered as the report of an establishment. This is the rule whether the various operations are in separate buildings or under one roof.

	Establishments Total employees (average for year)			r year)		
Industry (terminology is that of State)	United States census	State	United States Consus	State	Number cent census census less t State fi	and per by which figure sx- (+) or is ban (-) gure
All manufactures 1	11_013	R. M3	861 293	650, 787		41.6
Chamberto hall alling handhalt	594	0,010/	02 591	18 002	3 4 879	1.94 7
Food and kindred products *	2, 374 1, 115	1, 278 877	23, 361 31, 637 10, 995	29,335 7,623	+2,302 +3,172	+7.8
Confectionery	121	117	2,690	4,058	-501	-12.4
Iron and steel and their products a Bolts, nuts, washers, and rivets a	1, 812 23	1, 647 27	249, 372 4, 849	238, 036 5, 518	+11, 836	+4.8 -12.1
Screws, machine and wood '	172		3, 180	14 044	74,000	+ 341.1
Roots shoes gut stock and findings \$	110	14D	14 314	13 362	1,200	
Linuors and baverages \$	206	124	1,925	2,195	-270	-123
Lumber and its products ¹⁰	828	1, 007	25, 270	26, 643	-1, 573	- <u>5</u> 9
and steel ¹¹ . Gas and electric fixtures, lamps and	497	456	20, 987	34, 148	-13, 161	-38.5
reflectors #	. 41	51	2,448	4,944	-2,496	-50.5
Boxes, fancy and paper; drinking	1,481	913	38,003	34, 705	+3, 237	+11.3
Printing and publishing H	1 194	70 809	3, 531	17 840	-200	
Rithber products	1,100	110	48 758	48 884	-106	- 2
Tires and tubes 14	53	75	42.478	42, 885	-400	-1.0
Stone, clay, and glass products 14	756	674	48.302	43,052	+6,250	+12.2
Glass Pottery, terra-cotta and fire-clay	34	- 43	9, 539	9, 536	+3	(¹⁷)
products; brick and tile, clay "	377	348	30,902	27, 890	+3,012	+10.8
Men's clothing, including shirts and	646	592	40,869	42, 581	-1,722	-4.0
coat pads *	212	189	16 434	18,259	+2,185	+16.3
Women's cloth #	116	112	5,053	5, 883	-820	-13.9
Hosiery and knit goods ¹²	39	86	4, 617	4, 937	-320	-6.5
and smeking tobacco and snuff #	239	149	11 839	11 225	4512	44.5
Vehicles #	348	831	58.747	64.520	-6.773	-89
Automobiles and parts *. Miscellaneous-Electrical machinery, an-	254	198	46, 750	51, 123	-4, 873	-86
paratus, and supplies "	195	152	26, 300	16, 206	+10,094	+62.3

Census and State figures compared—1925

¹ Census, total manufactures minus operations of railroad companies, not covered by State reports. State omits custom tailoring (under textiles) and tobacco rehandling, not covered by Census reports.
 ¹ Census, chemicals and allied products minus liquers, a State group, and ammunition, coke, fireworks, and mucliage and paste, included by the State in miscellaneous.
 ¹ Census, bread and other bakery products.
 ¹ Census, bread and other bakery products.
 ¹ Census, bread and other bakery products.
 ¹ Census, from machinery, number of employees not reported.
 ² Census, Inform machinery, iron and steel and their products not including machinery, metals and metal products other than iron and steel, and transportation equipment, air, land, and water.
 ³ Census, corews, machine, and scews, wood.
 ⁴ Census, borts and aboes other than rubber, boot and shoe cut stock and boot and shoe findings, not made in boot and shoe factories.

in boot and shoe factories.

 Census, from chemicals and allied products and food and kindred products.
 Census, humber and allied products minus certain things (metal furniture, for example) thrown elsewhere by State.

where by State.
ii Cansus, from metals and metal products other than iron and steel, iron and steel and their products not including machinery, and lumber and alied products (metal furniture).
¹⁰ Census, gas and electric fixtures not including lamps and reflectors and lamps and reflectors not including locatic lamps.
¹⁴ Census, boxes, paper and other not elsewhere classified. Drinking cups not obtainable.
¹⁵ Census, printing and publishing (three classes) and bookbinding and blank-book making.
¹⁶ Census, rubber three and inner tubes.
¹⁷ Census, same and and emery cloth from miscellaneous.
¹⁸ Census, potery including porcelain ware and clay products (other than pottery) and nonclay refractories. Brick and tile, clay, combined with the pottery group for the State because not separable from this group in the census. tories. Brick and ille, clay, combined with the pottery group for the State because not separable from this group in the census. ¹³ Census, tertiles and their products and mattresses and artificial flowers and feathers, from miscalia-neous. State omits custom tailoring, not covered by census report. ²⁵ Census, clothing, men's (regular factories and contract shops) and shirts. ² Consus, gloves and mittens, cloth, not made in textile mills. ²⁴ Consus, kint goods. ²⁵ Consus, kint goods.

Consus, Knut goous.
 Consus does not collect data for tobacco rehandling.
 Consus, transportation equipment, air, land, and water, minus locomotives not made in railroad repair
 abops (included by the State in iron and steel). See also footnote 1.
 Consus, motor vehicles and motor-vehicle bodies and parts.

" Census, same minus locomotives,

A considerable discrepancy between State and Federal figures appears in the case of certain industries, some of which can be accounted for and others of which can not. The somewhat compensating differences in the two groups "electrical machinery, apparatus, and supplies" and "gas and electric fixtures, lamps and reflectors"—respectively plus 62.3 per cent and minus 50.5 per cent—may be due in part to a different classification of electric lamps, as suggested. When the two groups are thrown together the per cent by which the Federal census exceeds the State is reduced to 36.

In some industries employing large numbers the disagreement among the various authorities is slight or unimportant. For example, the State reports 37 establishments, with almost 24,000 employees, as making munitions in 1918, and for the same year the Directory of Ohio Manufacturers ³ reported 19 establishments, with about 19,000 employees, so engaged. In 1919, according to the State figures, the munitions plants had dwindled to 8, with about 2,400 employees, and the Federal census found 3 establishments making ordnance and accessories and 3 making ammunition, throwing these in the group "not elsewhere specified," with number of employees not reported.

To test the general accuracy of the Ohio figures and the validity of the trends of employment represented by them, the Women's Bureau has compiled the figures on employment given by the Federal census of manufactures for 1914, 1919, 1921, and 1923, subject to the necessary reclassification, has computed index numbers of employment based on the average for 1914, and has plotted the resulting curve on the charts showing curves for the employment figures given by the State authorities. The similarity of the trends indicated by the two sets of figures is very marked. Occasionally there are divergences, but these are probably due more to a difference in classification than to inaccuracy or inadequacy in the State figures.

In making this comparison every effort was made to insure similarity of classification, but in some cases certain differences were unavoidable.

The State classification of wage earners in 1923 is presented in Appendix B. This 1923 classification was used as the base to which the State classifications of earlier years and the Federal census figures for 1914, 1919, 1921, and 1923 were made to conform. For example, in 1923 the Federal census tabulated in the machinery group such things as calculating machines, scales and balances, sewing machines, etc., formerly classed in iron and steel. Through the courtesy of the Bureau of the Census, which supplied detailed and unpublished figures, it was possible to lift these from the machinery group and restore them to iron and steel, and this was done in every instance.

Important differences between State and Federal classifications, existing in 1923, are shown in the list following.

¹ Ohio Industrial Commission. Department of investigation and statistics. Directory of Ohio Manufacturers, 1918. Report No. 35.

Industry	Census group	State group
Agricultural implements Ammunition Bells	Machinery Chemicals Metals other than iron and	Miscellaneous. Do. Iron and steel.
Belting and hose, woven and rubber.	steel. Textiles; rubber	Miscellaneous.
Beverages Calculating machines, etc Coke Electrical machinery_atc	Food Machinery Chemicals	Liquors. Iron and steel. Miscellaneous.
Emery wheels and other abra- sives, including sand and emery cloth.	Stone, clay, and glass; mis- cellaneous.	Stone, clay, and glass.
Firearms Fire extinguishers, chemical	Iron and steel. Metals other than iron and steel.	Miscellaneous. Do.
Fireworks Foundry and machine-shop products.	Chemicals Machinery; metals; iron and steel.	Do. Iron and steel.
Galvanizing House-furnishing goods, mis- cellaneous.	Iron and steel Textiles	Metals. Miscellaneous.
Ice, manufactured Liquors Locomotives not made by rail-	Food Chemicals Transportation equipment;	Do. Liquors. Iron and steel.
road companies. Malt Mattresses, pillows, and cotton	machinery. Food Miscellaneous; textiles	Liquors. Textiles.
Metal furniture Millinery and lace goods, in- cluding artificial flowers and feathers.	Lumber Textiles; miscellaneous	Metals. Textiles.
Mucilage and paste Munitions Musical instruments	Chemicals Iron and steel; chemicals Musical instruments	Miscellaneous. Do. Do.
Pumps and windmills Scales and balances Sewing machines, cases, and	Machinerydodo	Iron and steel. Do. Do.
attachments. Typewriters and parts Vehicles (see also Locomotives)_ Washing machines and clothes wringers.	do Transportation equipment Machinery	Do. Vehicles. Miscellaneous.

With such differences in classification the difficulties of compiling comparable figures for the two groups were enormous.

To make the Federal figures comparable with the State figures on the basis of the 1923 classification it was necessary to reclassify many census industries. Examples of this are next presented. For all manufactures: Cars and general shop construction and repairs, electric and steam railroad shops, were omitted from the census figures.

For iron and steel:

Calculating machines, scales and balances, typewriters, sewing machines, gas or electric locomotives, pumps, and foundry and machine-shop products were taken from machinery.

Bells were taken from metals.

Steam locomotives not made in railroad shops were taken from transportation - equipment.

For liquors and beverages:

Malt and beverages were taken from food.

Liquors were taken from chemicals.

For metals:

Galvanizing was taken from iron and steel.

Metal furniture was taken from lumber.

For stone, clay, and glass: Sand and emery cloth was taken from miscellaneous. Vehicles were taken from transportation equipment.

Cars and general shop construction and repairs, electric and steam railroad shops, were omitted from census total.

For textiles: Mattresses and artificial flowers and feathers were taken from miscellaneous.

For miscellaneous:

Agricultural implements, electrical machinery, etc., and washing machines were taken from machinery.

Coke, fireworks, and mucilage and paste were taken from chemicals.

Ammunition, munitions, and firearms were taken from chemicals and iron and steel.

Belting and hose, woven and rubber, were taken from textiles and rubber. House-furnishing goods, miscellaneous, were taken from textiles.

Ice, manufactured, was taken from food.

Fire extinguishers, chemical, were taken from metals.

Pianos, organs, etc., and other musical instruments were taken from musical instruments.

With the classifications made as nearly identical as is possible the indications of trend of employment in Ohio resulting from the two sets of figures are nearly enough alike to substantiate the fluctuations shown by the more detailed and continuous State figures.

Continuity.

In discussing trends of employment over a period of years the most important factor in the statistical foundation must be the continuity of the samples taken for the period under discussion. It is in this connection that appear the most serious qualifications of the material studied. For the establishments reported by the Ohio Division of Labor Statistics are not the same throughout the 11 years, nor is the classification of the establishments always alike, nor is the scope of the figures identical. It would seem at first glance that these qualifications would so limit the validity of the trends represented as to make them of little significance. Consideration of the extent to which these various qualifications can affect the figures reported, however, shows that they are not so serious as they at first appear.

Taking first the changes in the number of establishments reporting, it is plain from the comparison just given between the State and the Federal census figures that on the whole the State figures represent with great accuracy the volume of employment, although the actual number of establishments in the State is not so accurately reported. In a study of employment trends it is the volume of employment that is the important aspect, and therefore a fluctuating number of establishments reporting may give a more accurate picture of the situation than where reports from only identical establishments are considered.

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The figures have been carefully studied for the effect of changes in the establishments reported and in only occasional instances have these changes appeared to affect the validity of the trends indicated. The 1915 figures in the telegraph and telephone industry afford an interesting example of the importance of the continuity of the sample as a basis for employment curves. It will be noted that the numbers of male employees reported for January, June, and December exceeded greatly the numbers reported for other months. This appears to be due to the fact that at least one large company did not begin until 1916 to report employment for each month and in 1915 reported only for January, June, and December.

There was a decided drop between 1914 and 1916 in the Ohio figures for screws, machine and wood, in the numbers of establishments and employees. A sufficient number of firms did not report for 1915, therefore there are no figures for that year. But in 1914

INDEX OF EMPLOYMENT OF WAGE EARNERS, IRON AND STEEL INDUSTRY IN OHIO



[Average month, 1923, equals 100]

there were 8 establishments, employing 1,740 persons, and by 1916 there were only 3 firms, employing 611 persons. This may have been due to a change in classification between the years reported.

The apparent decrease in glass probably was due to the inclusion of extra establishments in 1918. Since no figures for 1916 and 1917 were available and the establishments increased from 23 in 1915 to 64 in 1918, the curve is not representative, the increase probably being due to a change in classification.

Such examples give emphasis to the need for careful examination of all the figures before reaching conclusions as to trends of employment, but they are not sufficiently numerous nor obscure to seriously qualify the figures presented. This is illustrated clearly in the foregoing chart, which shows the great similarity between the trends of employment for the years 1922, 1923, and 1924 in the iron and steel industry, as shown by weighted index numbers for three main branches of this industry as compiled and plotted by R. J. Watkins

in his study of employment trends³ in 227 identical establishments and similar index numbers compiled from the varying number of establishments reporting the figures presented in the present study. It is plain that the employment trends were very much the same in the 227 identical establishments and in the 1,150 to 1,200 establishments during the same years.

A more serious qualification of the figures presented is the changes that have been made in their classification at different times during the 11-year period under discussion.

In 1923 the State's rule in tabulating wage earners was that every industry should appear for which three or more establishments reported and 100 or more wage earners were represented, smaller groups going into the residual class of n. o. c. (not otherwise classified) at the end of the table. In tabulating clerical workers, three or more establishments must report and 50 or more bookkeepers, stenographers, and office clerks be represented for an industry to be listed under its own title, and a similar requirement was the rule in tabulating sales people.

In the earlier printed reports—those of 1914 and 1915—the requirement had been more strict. At least 200 employees were to be represented in the case of wage earners and at least 100 in the case of clerical workers and of sales people for the industry to be reported under its own name.

The not-otherwise-classified group also contains the establishments not falling into any special division of the code.

In the 11-year period for which figures are presented, 30 industries for which provision is made in the State classification of wage earners in 1923 are never reported separately but are included, unless they had gone out of business, in the n. o. c. group. The list follows:

Wage earners in the manufacture of-

Chemicals: Bluing; bone, carbon and lamp black.

Food: Glucose and starch.

Iron and steel: Horseshoes, not made in steel works or rolling mills; locomotives, not made by railroad companies;4 typewriters and parts. Liquors: Malt.

Lumber: Billiard tables and materials.

Metals: Babbitt metal and solder; gold and silver, leaf and foil; needles, pins, hooks and eyes. Paper: Type founding and printing materials; wall paper.

Rubber: Garments.

Stone, clay, etc.: Burial vaults, concrete; statuary and art goods.

Textiles: Upholstery materials; waste; wool pulling, including scouring. Vehicles: Wheelbarrows.

Miscellaneous: Artists' materials; engravers' materials; firearms and ammunition; fuel, manufactured; house-furnishings goods, miscellaneous; jewelry and instrument cases; lapidary work; mucilage and paste; and paving materials.

Wage earners in service—Shoe repair.

Perhaps the most serious aspect of the omission of figures for the years 1916 and 1917 for certain of the subclassifications is the fact that when an industry was classed in one group in 1915 and in another group in 1918 there is no telling how it was classed in 1916 and 1917, and the Ohio authorities are not able to supply this information.

Watkins, Ralph J. Ohio Employment Studies. Ohio State University Studies, Burean of Business Research Monographs, No. 7. 1927. pp. 23-34. ⁴ The Directory of Ohio Manufacturers, 1918, reports a firm with 2,009 amployees as making locomotives.

Thus it is not possible to make the statement that mattresses, for example, were transferred from miscellaneous to textiles in such and such a year. It can only be said that in 1914 and 1915 mattresses and spring beds were in the miscellaneous group and in 1918 to 1924 mattresses, pillows, and cotton felts were in the textile group.

After editing, classifying, and tabulating, the original schedules are kept by the State office for not more than a year. A card file of employers is maintained, but when a firm has reported for six years and the card is full the card is destroyed. Furthermore, even the work sheets of the reports prior to 1921 were accidentally destroyed by fire, in October, 1922, precluding any further reference to settle questions of classification.

Although these changes in classification that have occurred during the period under discussion have probably altered somewhat the general trends of employment as indicated by the charts and curves for some of the smaller classifications, they do not, of course, influence greatly the trends represented in the larger classifications. These are so inclusive as to have been practically unchanged during the 11 years, or, if they have been changed, the alterations have affected such proportionately small numbers that they would be reflected to only a very small degree.

From the viewpoint of the present study the changes in classification can not be considered to affect materially the significance of the figures. For the purpose of this study is to compare the trends of men and of women and the extent to which they are affected in the same way by certain economic situations. The minor changes in classification that have been made from 1914 to 1924 probably have had very little effect in bringing about a difference or greater similarity of trend for the two sexes. It is unlikely that except in the very small and unimportant classifications such changes can have altered the relative importance of either sex in the classification.

Of course, the smaller the classification the greater the possibility of distortion of the curves showing trends of employment accompanying any change in the classification or inclusiveness of the figures. For this reason, therefore, it is in the larger classifications only that the fluctuations and comparisons of trends can be considered uninfluenced by the changes in statistical method that have been made during the 11 years.

STATISTICAL METHOD EMPLOYED

Source and preparation of the basic figures.

The figures furnished by the State comprise the number of employees—total, male, and female—for each month of the year, the period covered being 1914 to 1924 for the main industrial groups and most of the subgroups, and 1918 to 1924 for the remaining subgroups.

The first plan was to confine the study to the years 1918 to 1923 and only those figures were supplied for the subgroups. Later, when it was decided that figures over a longer period would be more significant, data for 1914 and 1915 were copied from the published reports. No such record was available for 1916 and 1917; accordingly, these years are missing for a considerable number of the subgroups.

Though the figures for 1922 had never been tabulated by the State, they seemed essential for the continuity of the figures; so at the request of the Women's Bureau, and at the bureau's expense, the 24,124 reports received by the State for that year were tabulated in the Ohio office in the usual way and the tables were sent to Washington. At the time this was done it was believed by the Women's Bureau that reports on clerical workers were important only for those in offices and reports on sales people only for those in stores. Accordingly, these subgroups were tabulated and the totals for sales and clerical workers were not secured. The grand total of all employees, therefore, is not available for 1922.

From the 12 monthly figures the Women's Bureau has computed the average number of employees for the year. It also has computed, by dividing the month of highest employment into the month of lowest employment, the per cent that the minimum employment is of the maximum—an important figure showing the variability of employment within the year.

Figures and charts are presented in this report for all the main classifications except construction and fisheries. These two groups employ so few women (well under one-half of 1 per cent in 1923) as to be unimportant in this study. They are, of course, included in the grand totals for all wage earners and all employees.

Not all the subclassifications of the figures have been presented separately in table and chart form. Many of these smaller classifications contained either numerically or proportionately unimportant groups of women and it was felt that analysis of the difference of trends between the sexes in such subclassifications would add little of real value to the present study. Selections for presentation and analysis necessarily were limited by the time and funds available for the study and attempt was made to limit the selections to those subclassifications that might represent important tendencies in relation to fluctuations especially of women's employment. The list following shows the classifications for which figures and curves are presented in this study.

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CLASSIFICATION FOR WHICH FIG	IVADO AND VVICING AND INCOMINA
All employees in all industries. Wage earners in—	SERVANTS OF INDIA SOCIETY'S
All industries.	BRANCH LIBRARY
All manufactures.	BOMBAY
Food and kindred products	š.
Canning and preservin	ng.
Confectionery. Iron and steel and their pro-	oducts.
Bolts, nuts, washers, a Screws, machine and v	nd rivets. vood.
Leather and leather produce Boots shoes cut stock	ts. And findings.
Liquors and beverages.	
Metals and metal products.	other than iron and steel.
Gas and electric fixtur Paper and printing.	es and lamps and renectors.
Boxes (fancy and paper Printing and publishin	er) and drinking cups.
Rubber products. Tires and tubes.	-

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Classification-Continued.
  Wage earners in—Continued.
    All manufactures-Continued.
         Stone, clay, and glass products.
             Glass.
             Pottery, terra-cotta and fire-clay products.
         Textiles.
             Cloth gloves.
             Hosiery and knit goods.
             Men's clothing (including shirts and coat pads).
             Women's clothing (including corsets).
         Tobacco manufactures
             Cigars and cigarettes, chewing and smoking tobacco, and snuff.
             Rehandling.
         Vehicles.
             Automobiles and parts.
         Miscellaneous products.
             Electrical machinery, apparatus, and supplies.
    Service.
         Hotels.
         Laundries and dry cleaners.
         Restaurants.
    Trade, retail and wholesale.
    Transportation and public utilities.
         Telegraph and telephone (including measenger service).
  Bookkeepers, stenographers, and office clerks in-
    All industries.
       All manufactures.
       Trade, retail and wholesale.
           Offices.
           Stores, retail and wholesale.
  Sales people (not traveling) in-
    All industries.
       All manufactures.
       Trade, retail and wholesale.
           Stores, retail and wholesale.
  In addition to the numbers of employees, figures were supplied by
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The State to show the number of establishments reporting annually. In this connection it is important to note that the number of establishments is the same for clerical workers and for sales people as for wage earners, since the number reporting is, as the term implies, the number returning schedules. Thus agriculture, in the basic and unpublished figures, shows the same number of establishments in the clerical-workers' table as is shown for wage earners, the 548 establishments in 1923 having about 230 bookkeepers, stenographers, and office clerks; and thus construction shows its 5,883 establishments to have about 650 sales people not traveling.

Classification.

Information concerning the classification of employees as wage earners, clerical workers, or sales people appears on the back of Form 1124. (See Appendix A.) Supplementing this, the bureau has learned by correspondence with State authorities that the following also are classed as wage earners:

Bundle wrappers, messengers and errand positions, canvassers and collectors, cashiers in stores and restaurants, cash-register operators, insurance agents (wage earners in offices), nurses in training in hospitals; that wage earners in service, theaters, include actors, ushers, stage hands, cleaners, etc.; that wage earners in service, professional, probably are mostly cleaners and do not include nurses in training in hospitals; and that waitresses and cooks of hotel restaurants are included in service, hotels, if the restaurant is considered part of the hotel and are included in service, restaurants, if it is not.

Accountants, bank cashiers, and office clerks handling sales are included in bookkeepers, stenographers, and office clerks, and realestate agents and bond salesmen are tabulated as sales people not traveling.

Supervisory positions come under the heading "superintendents and managers," appearing only in question 8 on Form 1124, relating to total wage and salary payments. No figures whatsoever pertain to owners.

Compilation of charts.

To facilitate the interpretation and analysis of the mass of figures presented here, the Women's Bureau has prepared charts for each of the classifications for which figures are presented.

These charts show the trend of employment in two ways. One series is confined to the changes within a year and is plotted separately for each year from index numbers based on the number of employees in January. In this series the figures are illustrated separately for men and women, but the total is not given.

The other series shows a continuous curve for the 11-year period, the base being the average number of employees in 1914. In this series the figures are illustrated separately for men and women and a third curve shows the trend of employment for the total. In most of the manufacturing classifications for 1914, 1919, 1921, and 1923, curves are plotted also to illustrate the trends indicated by the United States census of manufactures.

For the series based on the average for 1914 it was proposed at first to compute the seasonal variation and then to correct the exaggerated curves to eliminate the element of growth, but this idea had to be given up because of the differences from year to year in number of establishments reporting. Accordingly, in each case December and January are linked only by a dotted line.

A study of the charts is facilitated by grouping them in various combinations. For convenience in so doing the graphs are presented separately, accompanying the bulletin in an envelope instead of being bound with the text. The scale is the same throughout⁵ except that canning and preserving, whose seasonal fluctuation is very great, is not comparable with the other industries.

For the agricultural classification, in order to eliminate the effect of the extreme seasonal employment, a supplementary curve has been plotted, based on a 12-month moving average. It is possible from this chart to analyze the trends for men and women with less confusion than when the extremes of employment also are indicated.

The curves follow the exact relatives, even where obviously there is something wrong, as, for example, in confectionery. Here the men's and women's curves based on 1914 would appear to be transposed in the years 1916 to 1918 and again in 1921 were it not that the curves based on January are so evidently not transposed. Through inquiry of the State authorities the tabulations themselves were corroborated, but the original records had been destroyed by fire. Candy manufacturers interviewed could throw no light on the ques-

tion; especially could they not believe that several hundred men were taken on in 1921, which was "a rotten year" in the candy trade. The rapidly increasing use of machines was referred to, as was the possibility of ice-cream manufacture and bakeries being reported with confectionery.

Ice-cream manufacture was decided upon as largely responsible for the peculiarity of the curve for men's employment in the earlier years. Curves comparing the confectionery and the dairy products industries make it clear that ice cream was tabulated with confectionery prior to 1918, and that, beginning with that year, it was supposed to be tabulated with dairy products; but the new plan was not wholly in effect until 1919.

There is no explanation of the fact that in 1921 women constituted only 46.4 per cent of all confectionery employees instead of around 60 per cent. In this year the average of total employment—4,692, exactly as it was in 1918—has the sexes in positions opposite to those in 1918, women comprising 53.6 per cent of the employees in the earlier year and men comprising 53.6 per cent of those in 1921.

PART II. VARIATIONS IN EMPLOYMENT TRENDS

INTRODUCTION

The figures on employment for men and women in Ohio presented in this discussion show the trends of employment for men and for women in 54 classifications. For each of these classifications curves have been computed, according to the methods described in the preceding pages, that show graphically when and to what extent trends for the two sexes have differed or coincided. Taking them in all, perhaps the most striking fact about the curves is the extent to which they indicate similarity in the trends of employment of men and of women. Often the indexes of men's and women's employment in the different classifications run in more or less parallel lines, up or down as the general trend of the classification may be. Even seasonal trends are very likely to be similar for the two sexes and, therefore, represented faithfully in the curve for the total.

But this similarity of trend is not always found in men's and women's employment. There are certain classifications where trends are similar and others where the trends differ widely. There are certain periods of economic disturbance or stimulation where the course of employment for men and that for women have taken very divergent paths. There are certain occupational concentrations for each sex which may result in extreme similarities or extreme differences in the course of employment. It is the significance and extent of these differences and similarities that are of foremost importance in estimating the validity for each sex of the trends indicated by the figures showing totals and not differentiating by sex.

There are four main types of differences between the trends of the two sexes that appear in the curves presented as illustrations. The first, and probably the most significant to women, is the difference in the long-term trends. In many of the classifications the figures when separated by sex show a distinct tendency toward an increasing importance of women throughout the 11-year period under consideration. In a few classifications there has been apparently a decrease in women's importance, but this is not nearly so often the case.

Another kind of difference in the trends for men and women is found in certain of the classifications that are affected by seasonal variation. In some of these classifications there is a distinct seasonal trend for women and not for men; in others the seasonal trend is more extreme for men than for women.

A third type of difference is that caused by some economic situation such as the war or the depression of 1920-21, and a fourth is seen as the result of strikes that may affect women or men or both.

The figures and curves showing the trends of men's and women's employment through 11 years in Ohio will illustrate the importance of these differences in relation to the validity of the trends indicated by the figures for the totals. They will show also what are the governing influences that react toward the establishment of similarities or differences in trends for men and women. Although employment figures from only one State, and for only 11 years, can not be considered to be comprehensive enough to form a basis for generally applicable findings, they will be serviceable as indications of probabilities that can be tested through more comprehensive data.

In the following discussion of the variations in trends for the two sexes and the factors that influence these variations it is important to bear in mind that the material is presented as only illustrative of the different situations. Many of the classifications have been selected for presentation in this study because they illustrate significant situations as far as women's employment is concerned. Because of this selective basis the enumeration of groups of these classifications as illustrating one or another type of variation can not be considered to offer any conclusive foundation for the assertion of the frequency of occurrence of the variation in question.

The purpose of this study is to provide some basis for guiding policies as to whether employment figures should be collected and presented separately for each sex. Although all the 54 charts have been considered in preparing the different sections of the study, no attempt has been made to present a complete analysis of the figures and curves for each classification in its relation to the various situations discussed. Instead the method has been to describe only such classifications as are significantly illustrative.

In some cases the figures and curves have proved so erratic in their variations, because of seasonal factors, smallness of the numbers included, changes in classification, or differences in the number of establishments reporting, that they provide significant illustration of only a few of the many factors that influence variations in men's and women's employment. In such cases, these classifications are cited only in those connections for which they seem important. The qualifications of the basic material have been discussed in earlier pages of this study. The interpretations of the material have been made in the light of these qualifications, but it has not been considered necessary to confuse the discussion by constant reiteration of the fundamental make-up of the data.

Although as an indication of general industrial trends throughout a period of years employment statistics that are not based on reports from identical establishments may leave something to be desired, nevertheless, as an indication of the variability of trends for the two sexes and the validity of the total figures as an indication of trends for each sex, such statistics should be fairly reliable. As such, they are presented here in the hope that they will provide enlightenment regarding the extent to which women's and men's employment trends present separate problems that must be studied separately if they are to be dealt with intelligently.

SUMMARY

To indicate general long-term trends of employment, in most classifications the curve for the total of both sexes seems to be adequately representative. The curve for the total, however, fails to indicate changes in the relative importance of the two sexes and does not show the different influences of seasonal employment on the two sexes. Although the changes in relative importance of the two sexes appear in the more inclusive curves not to have been very great, such changes as are indicated become of far greater significance when they are considered in the smaller classifications that together make up the more inclusive figures.

There is greater similarity between trends for the two sexes when the classifications are compiled along occupational lines.

The effects of changes in economic conditions—war, depression, strikes—are not consistently the same for both sexes nor, through different classifications, are they consistently the same even for one sex.

Separate figures by sex must be available for periods of economic disturbance if the significant variations for the sexes are to be understood.

LONG-TERM TRENDS OF EMPLOYMENT

There is one aspect of the long-term trends of employment that from the standpoint of the industries studied, of the general interest of the employees, and of the well-being of the State itself is of primary importance. This is the general trend of employment—whether it is increasing or decreasing. From the standpoint of women, developments in their relative importance in wage-earning pursuits are of extreme significance, as they indicate the extent to which women are getting increasing opportunity and are becoming more essential units in the economic system. If men are being let out from a plant in greater numbers than women, that may seem something on which the women are to be congratulated. But the fact that employment is decreasing at the same time for both sexes is by no means a matter of congratulation even for the sex whose decreases are the smaller. And so the trend up or down in employment is really the most farreaching and important tendency to be discovered through a study of employment figures.

The figures for the 11 years in Ohio show a remarkable similarity in the general trend of employment for the two sexes. Ignoring the temporary peak of employment caused by the war and the drop caused by the depression of 1920-21, the curves show with few exceptions that employment has been on an upward trend for both sexes during the 11 years. It is only in some of the subsidiary classifications of the wage earners in manufacturing that declining employment is shown. However, both when employment is declining and when it is increasing the general trend is almost universally the same for the two sexes. The only exceptions to this situation are of very minor significance. For example, in the manufacture of tobacco the total curve shows for 1924 a very slight decrease in employment since 1914, for the women there was an actual increase of about 12 points, and for the men there was a decrease of about 30 points. Somewhat the same situation is reflected in the figures showing employment in the manufacture of cigars and cigarettes, etc., but here the curves for the total and for the men show a decided decrease, while that of the women remains about the same.

Also, in the manufacture of glass products apparently there has been, during the 11 years, a decrease in total employment and a decrease in men's employment but an increase in women's employ-

ment. This probably is not accurate, as no figures are available for 1916 and 1917 and the figures for 1918 show an increase over 1915 of 23 (56.1 per cent) establishments reporting. The 64 establishments in 1918 employed 16.1 per cent women, while the 41 in 1915 employed only 9.3 per cent women. It is probable therefore that the inclusion of the extra establishments in 1918 altered the character of the classification so that the relative position of the women's index based on the 1914 average is not representative.

With such minor exceptions it may be stated that, on the whole, the general course of employment in Ohio as illustrated in the figures is upward for both men and women, and this tendency is represented with a fair degree of accuracy by the figures and curves for the total. In the few cases where the tendency is downward this tendency usually is the same for both sexes and is illustrated by the curves for the total.

Even when the trends in employment from one year to the next are considered, the similarity between the two sexes is almost as marked as in the case of the trends over the 11-year period. In a few years, however, notably 1915, 1918, 1919, and 1924, there are a number of classifications in which there is a difference in trend for the two sexes, shown by comparing for each sex the figure giving average employment for the year with the corresponding figure for the year before. In other words, from 1917 to 1918, of the 42 comparisons possible, there are 24 in which the average employment of both sexes shows the same trend, but there are 17 in which average employment increased for women but decreased for men and there is 1 in which average employment increased for men but decreased for women. The year 1918 was exceptional in this regard and the curves show how rapidly after the war was over men's and women's employment resumed its normal similarity of course. Next to 1918 the most conspicuous extent of difference in trend is evident in comparing average employment for the two sexes in 1923 and 1924. In these two years it is possible to make 54 comparisons. In 37 classifications the trend from one year to the next is the same for both sexes. In 10 classifications the average employment for women is higher in 1924 than in 1923 while for men it is lower, and in 7 classifications the men's figure has increased while women's has decreased.

Such comparisons in average employment from year to year probably are not so significant as the curves that show the actual trend from month to month. The average figures may be too strongly influenced by the effect of seasonal or other temporary stimulation within the year to give, in certain classifications, a fully reliable indication of the trend for the year. Nevertheless, the lack of any extensive difference in the general trends for the sexes as indicated by these averages is a significant supplement to the similarities indicated by the more detailed curves. Taking them in all, of a total of 482 possible comparisons of average employment between two consecutive years, the changes indicated are alike for the two sexes in 390 instances and different in only 92. Of these 92 differences there are 54 cases where the women's average goes up and the men's goes down, and 38 where the men's goes up and the women's goes down. An especially important aspect of long-term trends for women is shown by the figures that indicate, over a period of years, whether women have tended to decrease or to increase in the wage-earning group.

It is possible for total figures to give a fairly accurate indication of whether or not the trend of employment over a certain period has been up or down, and if this situation applies alike, even though not equally, to both sexes the long-term trend in this respect as shown by the total may be generally indicative of the situation for men and women considered separately.

It is obvious, however, that no figures showing only the developments of total employment can be indicative of changes in the proportionate importance of any of the components of the total figures. If such changes have occurred they will be entirely lost sight of when figures are given only for total employment. The extent and significance of the information that would thus be obscured are well illustrated in the curves computed for the Ohio employment figures, where it is apparent that in the majority of cases the figures for the total fail to indicate the development in women's employment that took place during the 11-year period.

The trend toward increased proportionate importance of women is particularly striking and consistent in the clerical classifications, all of which show not only considerable and steady increase for both sexes but a marked increase in the proportion of women.

Similar increases, though not nearly so conspicuous nor so consistent, are evident in the more inclusive classification showing the figures for all employees. In transportation and public utilities also the proportion of women increased during the 11 years, although the last 3 years of the period show a tendency toward a slightly decreased importance.

In the manufacturing industries as a whole there seems to have been very little permanent change in the proportionate importance of women among the wage earners, but this is not true when the figures are examined for the separate manufacturing classifications. Among these groups there are many examples of increased importance of women, as in the manufacture of iron and steel and their products; electrical machinery, apparatus, and supplies; miscellaneous manufacturing; pottery, terra-cotta and fire-clay products; stone, clay, and glass products; and rubber products. In none of these is the proportionate increase for women indicated by the total curve, although in every case the total curve does show the general trend of employment during the period under consideration.

In a few cases the increased proportionate importance of women is due more to a decrease in the number of men than to any development in actual employment for women. This is apparent in the figures for tobacco manufacturing and for its subsidiary group, the manufacture of cigars and cigarettes, etc. It also appears in the curves for the manufacture of leather and leather products and the subsidiary group, the manufacture of boots, shoes, etc. In these classifications the total figures, although they indicate decreases in employment, give no idea of the extent to which men have lost their relative importance among the wage earners.

In a smaller number of classifications it is apparent that women became of less importance during the 11-year period. This is true of sales people, to a less degree of wage earners in trade, retail and wholesale, and to a slight degree of wage earners in service. It is apparently true also in the curve for all wage earners, but the situation illustrated there may be only a temporary fluctuation, as it does not show the long-term tendency that is characteristic of the trends in the other groups. In the manufacturing classifications some examples of decreasing importance of women are found in the curves for boxes (fancy and paper) and drinking cups, metals and metal products, and printing and publishing. For those groups where there has been a significant decrease in the proportionate employment of women this fact would be totally lost sight of if the figures on employment were shown only for the total.

Of course there is a remaining group of classifications in which the relative importance of the sexes did not change conspicuously during the 11-year period. This is not the case in any of the larger classifications, with the possible exception of the wage earners in all manufactures, where the change in proportionate importance of the sexes was not consistent nor regular nor very great during the period. In a few of the subsidiary groups of manufacturing, however, it is evident that there has been little permanent change in the relative importance of the sexes during the period.

Probably the most conspicuous example of similarity in the longterm trends for the two sexes is in the classification of wage earners in the manufacture of textiles. Here the proportionate increases for men and women during the 11-year period are almost identical. However, in the subsidiary groups for which figures on textile manufacturing are shown this similarity is not so exact. The most conspicuous divergence is in the manufacture of hosiery and knit goods, where the proportionate importance of women was considerably less in 1924 than in 1914. In the manufacture of men's clothing there was apparently a slight increase in the relative importance of women among the wage earners during the 11-year period, but this appeared to be diminishing at the close of the period. In the manufacture of women's clothing the curves of employment seem to indicate a decided increase in the proportionate importance of women in spite of a general decrease in employment for both sexes. This increase, however, may be due more to a change in the establishments reporting between 1914 and 1915 than to any significant development in the industry. In the manufacture of cloth gloves, another division of the textile classification, there is a very great similarity in the long-term trends for the two sexes.

Additional illustrations of similarity of long-term trends for the two sexes may be found in canning and preserving and in the manufacture of lumber and its products.

In cases such as these the figures and curves showing trends for total employment are quite accurately indicative of the long-term trends for each sex, but they are very much in the minority. It is more usual to find in the various classifications that there has been a change in the relative importance of the sexes and that this is not indicated in the figures showing only total employment.

FACTORS THAT INFLUENCE VARIATIONS IN MEN'S AND WOMEN'S EMPLOYMENT TRENDS

In studying the illustrations presented of the differences in extent of variability between the trends of employment for men and women it is immediately apparent that this variability differs to marked degrees in the different classifications. In some cases the ups and downs of the curve showing the trend of employment for the total number are duplicated with great accuracy by the curves showing trends for men and women separately. In other cases there is a wide divergence of one sex or the other from the curve for the total. Occasionally the trends indicated by the total curve are representative of neither men's nor women's employment.

If the significance of the curve for the total as an indication of trend for either sex is to be evaluated adequately, it will be necessary to discover whether there are any influences that make consistently for any one type of deviation for either sex or that bring about a greater similarity. In other words, how is the resemblance between the curve for each sex and the curve for the total affected by the size of the group; by the scope of the industries and occupations included: by the relative importance of the two sexes; by the seasonal requirements of the industries included; by the developments within industry leading to changes in product and methods of production; by the concentration of one or the other sex in certain definite occupational lines; by the influences of general economic conditions, such as the war or the depression of 1920-21; or by local situations, such as strikes, affecting more limited groups included in the classifica-tion? If certain of these factors can be shown to have a consistent and predictable effect upon the resemblance between the trends for the two sexes and that for the total it may be possible to accept as accurate the indications of the total, making such qualifications for either sex as the type of the classification and the period under discussion may require. If this can not be done, if the effect of these various factors is so erratic as to permit no generalization, the only alternative will be to require employment figures separately for each sex if the significant trends of women's employment are to be made clear.

Size of classification.

It is almost a truism of statistics that the larger the numbers from which a curve is drawn the smoother will be the curve. This does not apply, however, when considering the extent of resemblance between the curves for men and women indicated in these charts based on Ohio employment statistics.

Considering first the curves that indicate the trends for all the employees covered by the Obio figures, apparently there were three periods when there were distinct differences in trend for men and women. The chief differences in the curves are the more rapid increase of men from 1914 to the middle of 1917, the more rapid increase of women during the latter part of 1918, both due probably to the war, and a smaller decrease of women than of men during the last months of 1920.

The differences that appear in the smaller classifications are neither consistently greater nor consistently less than those in the largest of all classifications. The classifications that make up the total group, of all employed persons, are most of them very distinct in type, and some show great similarities and some great differences in the trends for the sexes.

Comparing the figures for all employees with those for the three groups wage earners, sales people not traveling, and bookkeepers, stenographers, and office clerks, which together make up the allinclusive group, it is obvious immediately that it is the figures for the wage earners that influence the general curve most strongly. Although the employment of wage earners reached in 1921 and 1924 a level that was slightly lower than that of all persons, the general shape of the curve of employment for the two groups during the 11-year period is very similar.

There is, however, one important exception to this similarity: In 1924 the total curve for all wage earners indicates a decided decrease in employment that is not shown to any great extent for all employees. Furthermore, in the years 1923 and 1924 the women in the all-employees curve maintained a higher level than did the man and during the last months of 1924 women's employment was increasing rapidly while men's was decreasing. This is not true where the smaller group, wage earners, is considered. Here the employment of men and women was on practically the same level in 1923, while in 1924 the employment of women diopped to a level well below that of men and showed no tendency to a greater increase during the late months of the year. Obviously, then, although there is remarkable similarity in the trends for the two-sexes in these two groups there are differences that an extremely significant.

Clerical workers.

Examination of the figures for the sales and clerical groups shows that the difference in the trends for the sexes between the curve for all wage earners and that for all employees is due chiefly to the influence upon the latter of the figures for clerical workers. In this group, although the trends for the two sexes are very similar throughout the 11-year period, with the exception of 1918, the women increased greatly in relative importance late in 1917 and all through 1918 and maintained their position after that time. It is plainly the influence of the figures for this group that is chiefly responsible for the differences in trend for the two sexes between the wage-earners group and the larger classification of all employees.

Sales people.

This fact becomes even more plain when the figures for sales people not traveling are considered. The figures for this group illustrate the effect of seasonal demands on women's employment in sales occupations, showing greatly increased numbers of women during the latter part of each year. The seasonal aspect of sales work is not nearly so evident in the figures for men's employment. Ignoring this difference in seasonal demands, however, the general trend of men's and women's employment in sales work did not differ greatly until 1921, when the index of women's employment became considerably less than that of men's and continued so, with the exception of the seasonal stimulation at the end of each year, through 1923 and 1924. The situation with the sales people in respect to the different trends for men and women during 1923 and 1924 is, therefore, more like the situation with the wage earners and is not represented by the curves for all employees, of whom the sales people are a part. Examination of the most important classes of sales work discloses, very great similarity among them. In each case one subclassification/ includes the vast majority of the employees in the larger group. For example, of sales people in all industries the sales people in trade formed 83.7 per cent in 1914, while the sales people in trade consisted chiefly of the sales people in stores—98.7 per cent in 1914. The sales people in all manufactures being in a minority among all sales people showed a greater deviation from the trends for the larger group and for its more important subclassifications.

The significant difference in trend between sales people in manufacturing and those in trade is that in manufacturing the 11-year period saw women's index of employment rise above that of men from the middle of 1915 to the end of 1920. After that it dropped below men's at first only slightly but by 1924 to a considerable degree. In trade the index of men's employment was noticeably below women's (except for the seasonal increase of women at the end of each year) only during a few months in 1918 and the first half of 1919. After that it was consistently and increasingly higher than women's.

Another difference in employment trend between the sales people in trade and those in manufacturing is that in manufacturing there is not nearly so great a seasonal factor in women's employment as there is in trade. Women's employment fluctuated to only a very slight degree in manufacturing, while in trade there was a decided peak in their employment in December of each year.

The course of employment for men and women in sales work in manufacturing is very different from that of the men and women wage earners in manufacturing. This difference shows the effect of occupational classification upon the comparative trends for the two sexes. When for wage earners men's employment increased more rapidly than women's between 1915 and the middle of 1917, for sales people women's employment increased more rapidly than men's from the end of 1915 to the end of 1918. While the index for the women in sales remained consistently above the index for men from 1915 to the end of 1920, the index for the women wage earners during the same period was above the men's only for five months in 1918 and two months in 1919, and these two periods were not consecutive. In 1921, when the men's index dropped lower than the women's for the wage earners, the women's dropped lower than the men's for the sales people. In 1924, when the women in sales work were well below the men, the women wage earners were at first equal to men and then above them.

The long-term trends indicate for both sexes a greater rate of increase in sales work than in the wage-earning group. At the close of 1924 the index of employment for wage earners had reached only 135 for men and 145 for women, while the men in sales work had an index of 187 and the women an index of 168.

Wage carners.

The group of wage earners forms by far the largest part of the total of all employees, the number of all wage earners in 1914 being 86.2 per cent of the number of all employees in that year, and the number in 1924 being 81.5 per cent.

The five chief groups in which the wage earners are classified are agriculture, manufactures, service, trade, and transportation

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and public utilities. Construction and fisheries also are groups of wage earners, but because of the fact that these classifications are not important so far as women are concerned they have not been included in this study.

It is apparent in examining the curves for these groups that manufacturing is the only one that is represented typically in the curve of all wage earners.

Agriculture.—In agriculture the number of wage earners employed is subject to such violent seasonal fluctuation that the figures and curves showing employment in this classification are difficult of analysis from the standpoint of long-term variations in trends for the two sexes.

Also, unfortunately, the figures upon which these curves are based can not be considered so representative as those that form the basis for the other charts. It goes without saying that the limitation of the establishments reporting to those with three or more employees, explained in an earlier section of this report, has affected materially the representative character of the returns for wage earners in agriculture. As a matter of fact, the United States census of occupations for 1920 reports for Ohio more than 70,000 persons as farm laborers working out. Undoubtedly there is a very large amount of agricultural work done on farms having fewer than three employees, and as none of the employers on such farms would be expected to report to the State authorities the agricultural figures are very far from complete. Nevertheless, the figures given show clearly the outstanding characteristics of this group and the differences between men's and women's employment.

To eliminate as far as possible the distracting fluctuations in the curves for agriculture resulting from the seasonal employment in this classification, another set of curves, based on a moving average of the original figures, has been drawn. By this method the curves are smoothed sufficiently to give a more readily appreciated picture of general trends in the classification. After examining the extreme variations between and fluctuations in men's and women's employment indicated by the curves showing monthly employment, it is striking to find in the smoothed curves how much more closely the general trends for men and women resemble the trends indicated by the curve for the total. The differences in the trends for men and women illustrated by this smoothed curve do not resemble in general the differences that appear in the classification of wage earners in all industries.

During the years 1918, 1919, and 1920 the index of women's employment in agriculture was consistently higher than the index of men's and in 1922 the women's curve fell well below the men's, but in 1924 women were below men in the all-wage-carners group but above them in agriculture.

It is evident that, even eliminating the intense seasonal fluctuations for women that occur in agriculture, the employment curve for women is much more sensitive than is men's. The general long-term trends, however, are not very different.

Service.—Another of the subsidiary groups of wage earners in all industries is that which includes the wage earners in service. In 1914 the average number of employees in this group numbered 21,578, which is only 3.9 per cent of the number of all wage earners at that date. By 1924 the average had increased to 62,834, or 7.3 per cent of the number of all wage earners.

The differences in the trend of employment for men and women in the all-wage-earners curve are not reflected in the curves for those engaged in service. With the exception of the close of 1918, the employment indexes for men and women in service run in parallel lines, with little deviation for either sex from the curve of total employees. The last half of 1918 saw a drop in the curve of men's employment that was not paralleled for the women, but by the middle of 1919 the men had more than regained their position and in spite of considerable fluctuations in the succeeding years the relative importance of the two sexes has not changed greatly.

Although increasing and decreasing at approximately the same rate, the employment of women wage earners in service has remained consistently subordinate in importance to that of men.

Neither the similarity between the curves for men and women in this group nor the fairly consistent increases for both sexes throughout the 11-year period are indicated in the curves for all wage earners.

The curve for total wage earners in service is adequately representative of both long-time and seasonal trends for both sexes.

To discover whether this similarity of trend for the two sexes is really characteristic of this branch of work, the analysis of trends in service occupations must be carried one step further to show to what extent this similarity applies to smaller classifications within this industrial group. It is quite possible that the trends for the two sexes in one of the smaller groups may, when combined with those of other groups, so offset each other that the similarities evident in the curves for all wage earners in service may not be typical of the components of this classification.

Three important industries the wage earners in which form part of this service classification are hotels, restaurants, and laundries and dry cleaners. The curves for these three groups show some important differences in men's and women's employment that are not reflected in the total curves for both sexes in the same groups and that are not duplicated in the variation indicated by the curves for all service classifications combined.

Taking first the hotels, which employed in 1914 an average of 5,410 wage earners, of whom 37.5 per cent were women, and 11,725 wage earners in 1924, of whom 43.2 per cent were women. In 1915 the curve for the total shows a sharp increase in employment in July and a sharp decrease in October. This fluctuation is entirely the result of a similar movement in men's employment, for women's employment decreased very slightly in July and rose very slightly in October. Clearly in this instance the curve for the total would give a very erroneous impression of the progress of women's employment in hotels in that year. The next discrepancy between the trend indicated by the total curve and that for each of the two sexes occurs in 1918. Here the employment as shown by the total curve did not fluctuate very greatly. The index at the beginning of the year was 181; at the end of the year it was 179 and the increase in the summer months amounted to less than 10 points. This course of employment is typical for neither the men nor the women, and it is the result of the neutralizing effect of combining the figures for men and women when

the trends of their employment were in opposite directions. After 1918 the total curve indicates with considerable fidelity the seasonal and long-term trends for both sexes, although it fails to reflect the decrease in the proportionate importance of women during the summer of 1922 and the total proportionate gain that women have made in this industry since the beginning of 1918. Women have held to an astonishing degree the gains they made in this type of work during the war. This is a fundamentally important fact as far as women are concerned that would be lost sight of if the figures for employment were not separated for the two sexes.

In restaurants the curve for the total wage earners follows very closely the trends for both men and women-but here again are two instances where a deviation from the normal similarity of trends for each sex limits the representative character of the total curve. In 1918 the men and women wage earners in restaurants, like those in The women hotels, followed different courses of employment. increased rapidly through September and decreased, though not so rapidly, from September to December. The men decreased as the women increased, and having reached their lowest point in October increased to December. The result of those opposite trends was, of course, that they offset each other and the curve for the combined figures is representative of neither. Later on, in 1922, the men experienced an unprecedented increase, reaching a very high point by September and decreasing at practically the same rate afterwards. The women's curve shows no such peak, but instead, with only one or two breaks, had a fairly consistent increase throughout the year. The increase of the men was so great as to influence the total curve to such a degree that the total resembles the men's trend much more than it does that of the women.

With these exceptions, however, the total gives usually a trustworthy picture of the trends for both sexes in restaurants.

In laundries and dry cleaners the total curve is representative of both seasonal fluctuations and long-term trends for men and for women. The only thing—but a very important thing—that it fails to show is the degree to which men are becoming more important among the wage earners in this industry. Starting with the beginning of 1919 the men's proportionate importance increased, until by the middle of 1920 they were well above the index for women. Since that time they have maintained their relative numerical superiority.

Trade.—Turning to the classification of wage earners employed in trade (retail and wholesale) it is apparent that the total curve is representative of the trends for the two sexes to very much the same extent as in the service classification.

Although the curve for total wage earners in trade does not bring out the seasonal aspect of women's employment nor the temporarily increased importance of women from 1918 to 1921, it does give a very close approximation to the long-term trend of employment for each sex, the index in December, 1924, being 223.5 for all wage earners, while that for men was practically the same, and the women's index, due chiefly to the characteristic seasonal increase in December, was 228.7.

Aside from the differences in seasonal trend for the two sexes the most significant difference in the curves for employment of men and of women in trade that is not shown by the curve for all wage earners
and that does not appear in the curves for the other groups of wage earners is the increased proportionate importance of women wage earners in trade during the years 1918, 1919, 1920, and the first half of 1921. Before and after this period the index of women's employment, with exceptions for occasional seasonal fluctuation, was less than the index for men, but in March, 1918, the index for women became 16.3 points higher than that of men and stayed higher to a greater or less degree until after June, 1921. Apparently women then resumed their normal place and the curve of their employment fluctuated about that of the men very much as it did during the first four years of the 11-year period.

Transportation.-For the wage earners in transportation and public utilities the curve for the total shows a greater deviation from the curve for women than appears in trade, service, manufactures, or all industries. Both the curves for each year and the long-term curves for the 11-year period show marked differences in trend for the two sexes, and, probably because of the small proportion that women formed of the total employees (17.9 per cent in 1914 and 20.4 per cent in 1924), the curve for the total parallels that of the men and does not reflect the situation with regard to the women. It is apparent from the curves for the two sexes that women increased rapidly in proportionate importance from the beginning of 1917. During 1919 they lost some of their importance while the men increased slightly, but after this the women remained at a fairly consistently higher level than the men until the early part of 1922, when there was an increase in men's employment that was not paralleled by the women. From then on, ignoring considerable seasonal fluctuations among the men, the relative importance of women has decreased somewhat. As the very great majority of the women who are classified as wage earners in transportation and public utilities are telephone operators, it seems likely that this decrease in proportionate importance is due to the introduction of automatic telephones. If so, it is an important trend and affects large groups of women. It would be entirely obscured in a curve that included the figures of employment for both sexes.

On the other hand, as an indication of general long-term trends for this group the curve for the total would be fairly indicative of the situation for each sex, with an index in December, 1924, of 167 for the total and of 161.2 and 193.4 for the men and women, respectively. The greater rate of increase for women than for men would, however, be lost sight of, as would the extent to which women have lost some of the gains they made during the war and postwar years.

Manufacturing.—For wage earners in manufacturing the similarity of the curves to those for all wage earners is very great, but even here a striking discrepancy in the trends for the two sexes is apparent. The chart for wage earners in all inductries shows that in 1924 women's employment dronned from a relatively high index to one that was considerably below that at manufacturing this did not earner On the contrary, at the beginning of 1924 men's and women's employment was on very nearly the same level and subsequently women decreased at a less rate and then advanced at a greater rate than did men. It was not until the latter part of the year that the trend of women's employment started downward, while men's went up.

With this exception the general trend of employment as well as the differences for the two sexes was strikingly similar for all wage earners and for wage earners in manufacturing. The total curve in the manufacturing as in the all-wage-earners classification, however, fails to indicate certain differences in the curves for the two sexes that are of great importance in view of the fact that these differences resulted from well known economic conditions. From the early part of 1915 the effect of the World War on men's and women's employment was not the same. Both groups increased in numbers but men increased more rapidly, until by January, 1917, they had reached an index about 25 points above the index for women. After that the women began to increase more rapidly, until by July, 1918, they had almost reached the men's level, and afterwards they exceeded it. These fluctuations for the two sexes can be traced definitely to the war. At first, before the entry of the United States, men's employment increased more rapidly as the industries stimulated by the demands from foreign countries were those that manufactured munitions or metal goods in which large numbers of men were employed. With the entry of the United States into the war increases in employment stopped at first and then women began to be employed in increased numbers. At the close of 1918, with the cessation of war, the curve of women's employment naturally came tumbling down more rapidly than men's, as the women, to meet the necessities of war production, had been taken on beyond the saturation point while the minimum of men had been employed. These fluctuations in employment for the two sexes are not reflected in the curve for total wage earners in all manufactures. It is impossible that they should be, as in one or two cases they are in opposite directions. The curve for total employees therefore reflects the trend of the larger group-the men-and does not represent the trend for the women except when their trend is similar to that of the men. This occurs in a number of years. Speaking roughly, the curve for the total is representative of both sexes in 1914, 1915, 1919, 1920, most of 1922, 1923, and the first part of 1924.

It is in the crucial years, from a standpoint of economic significance, that the differences come for the two sexes, and in those years curves separate for men and women are necessary if the facts are to emerge.

Carrying the analysis through all the minor classifications of wage earners in manufacturing would only emphasize what the foregoing accounts have shown. Each classification has its characteristic similarities or variations for the two sexes, and these do not combine in the more inclusive classification so as consistently to offset or to emphasize each other. Combining the figures for several groups has not resulted in a flattening out of dissimilarities. Evidence of dissimilarity in the largest classifications is of course not so extreme as in some of the smaller groups, but on the other hand there are not a few of the smaller groups where the resemblance in trend for the two sexes is far more marked than in the larger groups.

Classification.

Apparently it is the type more than the size of the classifications included that influences the variability of trend for men and women. It takes very little study of the curves to show that when the classification is a fairly homogeneous one, built along functional lines, there is a far greater similarity in the trends for the sexes than when the classification is such as to include many widely different types of industry and occupation. For example, the similarity of trend for the two sexes in the clerical (bookkeepers, stenographers, and office clerks) and in the sales group is very marked, and the trends for men and women clerical workers in manufacturing establishments are much more like those for other groups of clerical workers than they are like those for the wage earners employed in the same manufacturing establishments.

The same is true for the clerical workers employed in trade. The trends for the two sexes in this case are more like those of the clerical workers in manufacturing and of all clerical workers than they are like those of the wage earners in trade.

Naturally in any inclusive classification the extent of variation between the sexes will be weighted by the extent of the variations that appear in the components of the classification most important numerically. If, as in the classification of textiles, the subclassifications are on fairly homogeneous lines, the trends for the sexes in the larger classification will show less variation than when the classification covers a very broad and heterogeneous group of subclassifications having little occupational similarity. This situation is represented in the iron and steel curves, where the trends for the two sexes are far more divergent than in the more selective classification of textile manufacturing.

Other instances of very general classifications where the variations between the sexes are noticeably erratic are miscellaneous manufacturing and the manufacture of metals and metal products. On the other hand is the classification of paper and printing, which is an example of an inclusive classification whose component groups represent more similar occupational concentration for the two sexes. In this classification the trends for the two sexes are much more alike.

With as complicated a subject as trends of employment it is not possible to isolate the effect of any one factor when so many influences are bringing about increases and decreases for each sex. But it seems safe to state that if employment figures were consistently classified in homogeneous groups in regard both to the occupational concentrations of the sexes and to the product, the trends for the two sexes would be very similar and very faithfully reproduced in the figures for the total.

Seasonality.

In some industries a distinctly seasonal tendency for one sex or the other disturbs what would otherwise be a very great similarity between the sexes, and brings about, in consequence, a divergence of one of the sexes from the trend indicated by the total figures. It is more usual, however, for both sexes to be affected by the seasonal stimulation, although not usually to the same extent.

On the whole, the curves for the Ohio figures show that where there is a distinct seasonal trend for one sex and not for the other this trend is reflected, if it is sufficiently marked, in the total curve. For example, the total curve for sales people in all industries indicates a considerable increase of employment at the end of each year.

With this exception the general trend of employment as well as the differences for the two sexes was strikingly similar for all wage earners and for wage earners in manufacturing. The total curve in the manufacturing as in the all-wage-earners classification, however, fails to indicate certain differences in the curves for the two sexes that are of great importance in view of the fact that these differences resulted from well known economic conditions. From the early part of 1915 the effect of the World War on men's and women's employment was not the same. Both groups increased in numbers but men increased more rapidly, until by January, 1917, they had reached an index about 25 points above the index for women. After that the women began to increase more rapidly, until by July, 1918, they had almost reached the men's level, and afterwards they exceeded it. These fluctuations for the two sexes can be traced definitely to the war. At first, before the entry of the United States, men's employment increased more rapidly as the industries stimulated by the demands from foreign countries were those that manufactured munitions or metal goods in which large numbers of men were employed. With the entry of the United States into the war increases in employment stopped at first and then women began to be employed in increased numbers. At the close of 1918, with the cessation of war, the curve of women's employment naturally came tumbling down more rapidly than men's, as the women, to meet the necessities of war production, had been taken on beyond the saturation point while the minimum of men had been employed. These fluctuations in employment for the two sexes are not reflected in the curve for total wage earners in all manufactures. It is impossible that they should be, as in one or two cases they are in opposite directions. The curve for total employees therefore reflects the trend of the larger group-the men-and does not represent the trend for the women except when their trend is similar to that of the men. This occurs in a number of years. Speaking roughly, the curve for the total is representative of both sexes in 1914, 1915, 1919, 1920, most of 1922, 1923, and the first part of 1924.

It is in the crucial years, from a standpoint of economic significance, that the differences come for the two sexes, and in those years curves separate for men and women are necessary if the facts are to emerge.

Carrying the analysis through all the minor classifications of wage earners in manufacturing would only emphasize what the foregoing accounts have shown. Each classification has its characteristic similarities or variations for the two sexes, and these do not combine in the more inclusive classification so as consistently to offset or to emphasize each other. Combining the figures for several groups has not resulted in a flattening out of dissimilarities. Evidence of dissimilarity in the largest classifications is of course not so extreme as in some of the smaller groups, but on the other hand there are not a few of the smaller groups where the resemblance in trend for the two sexes is far more marked than in the larger groups.

Classification.

Apparently it is the type more than the size of the classifications included that influences the variability of trend for men and women. It takes very little study of the curves to show that when the classification is a fairly homogeneous one, built along functional lines, there is a far greater similarity in the trends for the sexes than when the classification is such as to include many widely different types of industry and occupation. For example, the similarity of trend for the two sexes in the clerical (bookkeepers, stenographers, and office clerks) and in the sales group is very marked, and the trends for men and women clerical workers in manufacturing establishments are much more like those for other groups of clerical workers than they are like those for the wage earners employed in the same manufacturing establishments.

The same is true for the clerical workers employed in trade. The trends for the two sexes in this case are more like those of the clerical workers in manufacturing and of all clerical workers than they are like those of the wage earners in trade.

Naturally in any inclusive classification the extent of variation between the sexes will be weighted by the extent of the variations that appear in the components of the classification most important numerically. If, as in the classification of textiles, the subclassifications are on fairly homogeneous lines, the trends for the sexes in the larger classification will show less variation than when the classification covers a very broad and heterogeneous group of subclassifications having little occupational similarity. This situation is represented in the iron and steel curves, where the trends for the two sexes are far more divergent than in the more selective classification of textile manufacturing.

Other instances of very general classifications where the variations between the sexes are noticeably erratic are miscellaneous manufacturing and the manufacture of metals and metal products. On the other hand is the classification of paper and printing, which is an example of an inclusive classification whose component groups represent more similar occupational concentration for the two sexes. In this classification the trends for the two sexes are much more alike.

With as complicated a subject as trends of employment it is not possible to isolate the effect of any one factor when so many influences are bringing about increases and decreases for each sex. But it seems safe to state that if employment figures were consistently classified in homogeneous groups in regard both to the occupational concentrations of the sexes and to the product, the trends for the two sexes would be very similar and very faithfully reproduced in the figures for the total.

Seasonality.

In some industries a distinctly seasonal tendency for one sex or the other disturbs what would otherwise be a very great similarity between the sexes, and brings about, in consequence, a divergence of one of the sexes from the trend indicated by the total figures. It is more usual, however, for both sexes to be affected by the seasonal stimulation, although not usually to the same extent.

On the whole, the curves for the Ohio figures show that where there is a distinct seasonal trend for one sex and not for the other this trend is reflected, if it is sufficiently marked, in the total curve. For example, the total curve for sales people in all industries indicates a considerable increase of employment at the end of each year.

Actually this increase is found principally among the women, although the men have it to a certain extent. On the other hand, the seasonal fluctuation indicated by the total curve for wage earners in service applies to both men and women.

Intense seasonal fluctuation occurring for either sex that is much in the minority is not reflected in the total curve. This is illustrated by the curves for wage earners in trade, where the seasonal fluctuation indicated for women is reflected in the total curve to only a very limited extent, the women in this classification forming only about 19 per cent of the total employees.

The curves showing the trend of employment for wage earners in agriculture present an almost dramatic picture of seasonal fluctuation in this line of work. Wage earners in this classification are faced with extremely seasonal work that fluctuates more greatly for women than for men. The curve for total employees follows almost exactly the curve for men, due to the very large proportion men formed of all employees (about 93 per cent). The extreme peaks of women's employment during June are not indicated in the curve for total employees, but that June is the season of highest employment for both sexes is plain from the total curve.

Another example of exceedingly great seasonal fluctuation where the total does not show the extent of the fluctuation for women, but indicates with considerable accuracy the seasonal trends for both sexes, is canning and preserving. Here, although the proportion of women among all wage earners (about 40 per cent in 1924) is far larger than in agriculture, the high peak of their employment in the summer is not fully indicated by the total. However, the same months are also the busy months for men, so the general seasonal character of the group is indicated very accurately by the total.

The manufacture of confectionery is a third example of highly seasonal employment, but in this case, probably because there are more women than men in the classification, the total curve follows the women's seasonal fluctuations more closely than the men's.

The manufacture of bakery products is another example in the manufacture of food and kindred products of a seasonal industry for which the total shows the type of seasonal stimulation for each sex but not the more extreme fluctuations for the women.

The manufacture of automobiles and parts is somewhat seasonal and the seasonal variations are indicated in the total. The fluctuations in women's employment, although very great, probably are not due chiefly to seasonal factors, and therefore, although the total for this industry is by no means representative of women's trend, it is not because of a difference in seasonal demands.

The curves showing employment in the manufacture of men's and women's clothing indicate a certain degree of seasonality for both sexes, which is very accurately represented by the total. As an indication of the seasonal problems of the clothing industry, however, the trend shown by these curves is probably not representative of a field wider than the State for which the figures are presented. For both the men's and women's clothing industries in Ohio are influenced by factors that make for greater steadiness of employment than may be expected in other localities.

Relative importance of men and women.

The proportionate importance of either sex in the total for any one classification does not seem to be a strong influence toward either similarity or dissimilarity in trend for the two sexes. Of course where there is a difference in trend the total curve will most closely resemble the numerically superior sex, but it is not apparent that there is more actual difference in trend where one sex is very much in the minority than where they are on a more equal basis. For example, in the manufacture of iron and steel and their products, where women in 1924 formed less than 3 per cent of all employees, the trends for the two sexes were not greatly unlike except for the war years 1917 and 1918 and to a less degree in 1915 and 1916, and such differences are found in the great majority of industrial classifications irrespective of the proportionate importance of the sexes. In the other classifications in which women formed a very small proportion of the wage earners there were different degrees of variation between the trends for the two sexes, but these differences apparently were dependent upon other factors than the proportionate importance of women. In the manufacture of lumber and its products, where the proportion of women was around 6 per cent, there were marked differences in trend for the two sexes not only in 1917 and 1918 but in 1919 and 1921. These differences are plainly due not to the great disparity in the proportionate importance of the two sexes but to economic conditions accompanying and following the war. In the manufacture of liquors and beverages, where women formed only about 2 per cent of the wage earners, certain extreme variations occur for the women that are not duplicated by the curves for the men. In this case, however, the extreme fluctuations for the women are due chiefly to the very small actual number of womenvarying from 27 to 249 over the 11-year period-and a consequently small base number for the 1914 index, which would inevitably result in a curve showing very great fluctuations.

In the manufacture of automobiles and parts, where women formed about 5 per cent of the wage earners, the very extreme fluctuations for the women that do not occur for the men probably are due chieffy to the fact that the employment of women in this industry is comparatively new. They are being experimented with—added in great numbers when there is a rush of work, laid off just as rapidly when times are dull; taken on for the manufacture of some new product and laid off when certain styles are discontinued. They are still the "extras" in this type of work, and this is a more fundamental reason for the erratic course of their employment than is the fact that they are in a minority in the industry.

Although the proportionate importance of the sexes does not seem to have an important bearing on the extent of variation between the trends of employment for the two sexes, it does, of course, play a very leading part in determining the resemblance of the total curve to one or the other sex.

When trends of employment for men and women are similar the curve for the total of both sexes represents the situation with considerable fidelity. Where the trends are different—and these are the crucially important spots as far as women's opportunity is

concerned—the curves for the total illustrate most closely the trend for the sex that is most important proportionately and this usually is the men.

General economic conditions.

Probably it is the effect of general economic conditions that causes the most violent deviation for the two sexes from the trend indicated by the curve for the total. The outstanding example of this will be found in comparing the course of men's and women's employment during the period of the World War and during the depression of 1920-21.

THE WAR

From a comparison of the curves for bookkeepers, stenographers, and office clerks, for sales people, and for wage earners it is apparent that the readjustments and stimulations resulting from the war did not affect the trends of men's and women's employment in the same way. For example, the curves for all wage earners show that with the early part of 1915 both men's and women's employment began to increase but the increase was much more rapid for men than for women. It was not until the middle of 1917 that women's increases began to catch up with the men's. In 1918, although men's employment increased at a fairly rapid rate, women's employment increased even more rapidly, until by August, 1918, the women's index equaled the men's. After August, 1918, the women continued to increase for a few months while the men decreased, but during the last month of the year, after the war was over, women decreased as well as the men. This decrease continued for both sexes until March, 1919, and for women it was prolonged until June, by which time men's employment had picked up again and their index once again equaled and then exceeded that of the women. No such variation in trend of employment for the two sexes as a result of the war is found in the curves for clerical workers and sales people.

Clerical workers.

Among the clerical workers the effect of the war apparently was to increase the employment of women at a greater rate than the employment of men. The women's curve started to ascend at a greater rate than men's at the beginning of 1917 and continued so until the end of 1918, but the curve was not a fluctuating one for either sex and their increases had very much the same trend. The war, however, left the women in clerical work in a very much better position than the men.

In the smaller classifications of clerical workers the war seems to have affected the trends for the two sexes in very much the same way except for the year 1918. In manufacturing, the men and women clerical workers increased at almost exactly the same rate until the last part of 1917. From then on until almost the end of 1918 the women increased rapidly while the men showed a slight decrease. Almost as soon as the war was over, however, men began to increase again, but they did not regain to any great extent the proportionate importance that had been theirs before the United States entered the war. In trade also, the effect of the war, except for 1918, was to stimulate employment for both men and women clerical workers, but the men's employment, although following the same trend as women's, has steadily become less important.

Clerical workers in trade are divided into two groups, representing employment in offices and in stores. For these two groups the year 1918 showed the decrease in men's employment and the increase in women's that are characteristic of the larger classifications of clerical workers. The beginning of 1915, however, showed a condition in stores that was not paralleled in offices. In the beginning of this year there was apparently a great drop in men's employment, followed by a slight increase throughout the year. This great drop at the beginning of the year can not be attributed to a change in the number of establishments reporting, as in this respect there was an increase of 449 between 1914 and 1915. This decrease, as well as the course of men's and women's employment in clerical work in stores, although unlike the curves for offices is similar to those for all clerical workers in trade.

Sales people.

For the sales people there seems to have been practically no change in the trends for the two sexes resulting from the war. The curves for the two sexes maintain the same relative positions almost without exception, until the beginning of 1918. For the first few months of 1918 men's employment remained much as usual but women's employment increased, and when men's employment showed an unusual decrease at the last part of 1918 the women maintained their usual great seasonal increase and started 1919 in a better position than did the men, who, however, quickly regained their usual position in the industry and by August the curves for the two sexes started to resume a shape similar to that preceding 1918. Evidently for the sales group what small effect the war had on accentuating differences in trend for men and women came later than it did for all wage earners, the group so largely influenced by the manufacturing industries.

Examination of the smaller classifications of sales persons shows that although the war seems to have brought about a slight increase in the importance of women in sales work in manufacturing, on the whole it does not seem to have had a very important effect on differences in trend for men and women in sales work. The year 1915 saw an increased proportion of men employed in sales work in trade but this increase in proportion held true only for that year, and after that there was little significant change in the trends for the two sexes until March, 1918, when women began to assume the slightly increased importance that they retained until the middle of 1919. In manufacturing, the curves for the sales people show a drop in employment for both sexes in 1915. This may be due to a cessation of selling activities in manufacturing at the beginning of the war, or it may be due to some change in the establishments reporting. Whatever its cause, however, it did not result in any important change in the relative position of men and women in this type of work. After 1915 the women's curve showed a slight superiority over the men's, but increases in employment were not severe. Nineteen hundred and eighteen saw the characteristic, but very slight, increase for women and decrease for men. The recovery in 1919 was quick and along similar lines for both sexes.

Wage earners.

When the important classification of wage earners is considered it is immediately apparent that the effect of the war in causing variations in men's and women's employment was far more marked and more diverse here than in the classifications of clerical workers and sales people.

For the men and women wage earners in agriculture, service, trade, and transportation and public utilities, the variations in trend resulting from the war are not at all similar to the variations indicated by curves for wage earners in all industries.

Agriculture.—In agriculture the curves based on the moving average show that the women started to increase more rapidly than did men in 1914. In the latter part of 1917 their rate of increase became considerably greater than that of men and continued so throughout 1918. In fact women held most of the proportionate importance gained during the war until 1921. The extent to which women in agriculture profited by the war is not indicated by the total curve.

Service.—In service occupations as a whole the relative importance of men and women wage earners seems not to have been affected at all by the war until the middle of 1918, when men's employment decreased rapidly although women's continued along a normal course. By the middle of 1919 the men's curve had risen again until they had more than regained their former position of superiority in this classification.

Study of some of the smaller classifications of wage earners in service shows that the variations in trend for the two sexes that appear in the total classification were representative of the situation for the men and women wage earners in hotels and restaurants but not those in laundries and dry cleaners.

Ignoring a temporary and apparently seasonal fluctuation for the men in hotels during the summer months of 1915 and a marked increase for the men in restaurants during the last quarter of 1916, there was a general and quite steady upward trend for men and women during the first years of the war, from the beginning of 1915 through 1917. In 1918 came the characteristic decrease of men and increase of women that appears in so many of the charts for this year. In restaurants 1919 saw a quick return to a similarity of trend for the two sexes, but in hotels men did not regain the position that they lost in 1918, although the trend of their employment was very similar to that of the women.

In laundries and dry cleaners the war does not seem to have changed the relative position of the men and women wage earners. There was a great increase in the number of men employed for a few months in the first half of 1915 but otherwise the indexes of men's and women's employment were very similar through 1918.

Trade.—In trade (retail and wholesale) the curve of women wage earners was, except for occasional seasonal fluctuations, consistently subordinate to men's through the early years of the war. It was not until the beginning of 1918 that the women's curve mounted above the men's. During the latter part of 1918 the characteristic slight decrease for men and considerable increase for women occurred and women maintained their gains after this, with certain seasonal fluctuation, until the middle of 1921. Apparently the effect of the war emergency in increasing the proportionate employment of women came at about the same time in trade as in manufacturing, but lasted after the close of the war in trade as it did not in manufacturing.

Transportation.—In transportation and public utilities the effect of the war on the relative position of men and women became evident early in 1917, when the women's curve started above the men's. By the end of 1918 the index of women's employment was more than 50 points above the index for men, and although there was a slight decrease in the relative importance of women during 1919 their curve remained well above that of men, and continued so through 1924.

About one-fourth of all the wage earners in transportation and public utilities and practically all the women are included in the classification of wage earners in telephone and telegraph (including messenger service). It is in this group, therefore, that analysis will most clearly isolate the varying effects of the war on men's and women's employment.

It is difficult to say from the curves what part the war played in changing the trends of men's and of women's employment in this classification. From 1914 to 1918 the rate of increase for both sexes was greater than in subsequent years. On the whole, the trends for the two sexes were very similar, but the violent, though temporary, deviations for the men may be due to war necessities. In June, 1917, soon after the entry of the United States into the war, there was apparently a rapid decrease in men's employment. There was no corresponding decrease for women. In fact, with minor fluctuations women's index of employment rose slightly, while men's continued to decline until the end of 1918. After that women's employment fell while men's rose during 1919.

Manufacturing.-In manufacturing, the curves showing trends for men and women wage earners indicate that during the early years of the war, from the beginning of 1915 to the middle of 1917, men's employment increased more rapidly than did women's, though employment for both sexes was on the upgrade during this period. After the middle of 1917 increases in men's employment ceased and there was even a slight decrease for them. At the same time women's employment was experiencing a much more rapid increase than in the earlier years of the war. This rapid increase for women continued until the last month of 1918. The decreases in men's employment, however, that had started in the middle of 1917 shortly after the entrance of the United States into the war, did not continue for very long. In fact, the first half of 1918 saw men's employment increasing again, although not at so great a rate as women's. After the middle of 1918 the men started to decrease again while women's employment was still going up. The armistice in November, 1918, was followed by a rapid drop in women's employment, but it does not seem to have had a very striking effect on men, whose employment continued to decline after the armistice at about the same In the depression immediately following the war, in rate as before. 1919, women's employment decreased more than men's, but recovery came at about the same time for both.

The variations in trend for men and women indicated in these curves for all manufactures are by no means typical of the many different industries that, combined, make up the classification of all wage earners in manufacturing. In the first place the general trend of employment indicated for all manufactures is not typical of the trends in all the subclassifications. In some manufacturing industries the early years of the war brought about a decrease of employment rather than the stimulation indicated in the all-manufacturing figures. In other industries the influence of the war years was neither stimulation nor decrease of employment; instead, conditions seem not to have changed greatly.

Examples of such dissimilarity between the general trends indicated by the all-manufacturing curves and those for the smaller classifications may be found in the following: The manufacture of leather and leather products, where the war years showed no stimulation of employment and a sharp drop for a few months during the latter part of 1917; in the manufacture of pottery, terra-cotta and fire-clay products, where the stimulation of employment caused by the war was slight and took place chiefly during the first half of 1915; in the manufacture of tobacco, where the early years of the war saw decreasing employment and from 1917 on through 1918 the decreases for men were accelerated, although women increased during 1917; and in the manufacture of textiles, where the war years produced very little stimulation of employment. Of course an increase of employment during the early years of the war was a more usual trend in the general run of industrial classification, but the exceptions just noted are an indication of the possible diversity of effect that may result in various industries from any changed economic situation.

Differences caused by the war in the trend of men's and of women's employment are no more consistently alike in the various industrial classifications than are the general trends of employment.

In all manufacturing the year 1915 showed a greater rate of increase for men than for women, and in 1916 rates of increase for the two sexes were very much alike, with a very slightly greater rate for men. This was by no means, however, a universal difference. In fact, among the industries that show increased employment for these two years there is a very great variety in the way in which men's and women's employment increased during 1915 and 1916. Examples of similarity of the differences in trend for the sexes may be found in the manufacture of textiles and of pottery, terra-cotta and fire-clay products, where in 1915 the increase for men was more rapid than for women and in 1916 there was very little difference in the rates of increase for the two sexes. But the curves showing trend of employment in the manufacture of iron and steel and their products, in its subsidiary group the manufacture of bolts, nuts, washers, and rivets, and in the manufacture of hosiery and knit goods show that the increases of men were more rapid than those of women in 1915 while the women increased more rapidly than did the men in 1916. The increases were greater for men in both 1915 and 1916 in the manufacture of rubber products and of chemicals and allied products, and greater for women in both years in the manufacture of metals and metal products, of paper boxes, and of miscellaneous products.

The two sexes increased at about the same rate in 1915 and the men increased at a greater rate in 1916 in the manufacture of stone, clay, and glass products; while there was very little difference in either year in the rates of increase for the two sexes in canning and preserving. These variations in trend of employment seem not to be based on any consistent differentiation of product, and it does not seem possible to establish any classification of industry or occupation that can be expected to produce similarities in variation of employment for the two sexes. Comparison of the trends for the two sexes during the years 1917 and 1918 yields equally important illustrations of the different effects of the war on the employment of men and women in different classifications.

In 1917 the curves for all manufacturing indicate that men's and women's employment did not fluctuate greatly. There was a very slight upward tendency for the women from the middle of the year, and a slight downward tendency for the men at the end of the year, but these variations were not very marked. Study of the different manufacturing classifications shows, however, that this evenness and similarity of trend was by no means entirely representative of conditions in all manufacturing, although it is probably more generally characteristic than were the trends indicated for 1915 and 1916. For example, fluctuations were similar for men and women, and only very slightly up or down, in the manufacture of paper and printing; pottery, terra-cotta and fire-clay products; metals and metal prod-ucts; and liquors and beverages. The trend of employment was also alike for men and women, but distinctly down in the manufacture of boots and shoes and distinctly up in the manufacture of chemicals and allied products. There were differences in trend, but very slight differences, for the men and women in the manufacture of bolts, nuts, etc.; textiles; and stone, clay, and glass products, where the men's employment went very slightly down and the women's very slightly up. A downward trend for both sexes but more emphasized for men occurred in the manufacture of paper boxes, and an upward trend, which was more emphasized for women, occurred in miscellaneous manufacturing.

A stimulation in employment during the first half of the year occurred for both sexes in the manufacture of hosiery and knit goods, but the increases were greater for women than for men and the subsequent decreases were greater for men than for women, with the result that the end of the year 1917 saw men's employment practically where it had been at the beginning of the year, while there had been an increase in the number of women.

Very distinct differences of trend for the two sexes occurred in the manufacture of lumber and its products, where men's employment decreased decidedly; in the manufacture of iron and steel and their products, where men increased slightly but women decreased considerably; and in the manufacture of rubber products, where men decreased slightly but women increased decidedly.

On the whole, except in a few industries the year 1917 seems to have witnessed a slowing up of the increases that took place in 1915 and 1916, and the stimulation of men's and women's employment was not so striking as it had been. If the analysis of the figures were carried further and the trends were examined month by month throughout the year, greater variations between the trends for the two sexes might appear, for April, 1917, saw the entry of the United States into the war and after a month or so during which war orders were being placed and plans put under way for the recruiting of the war forces, employment tendencies were distinctly altered. The reflection of this change of trend, that probably started in the latter part of 1917, is found clearly in the employment figures for 1918. During the course of this year economic conditions altered so radically that it is necessary to study separately the course of employment in the two parts of the year if the significant differences in men's and women's trends are to be made apparent.

The curves for all manufacturing show that during 1918 women's employment increased very rapidly throughout the year until November, after which there was an abrupt falling off in their numbers. The curve of men's employment was quite different. In the first place, although their employment increased during the first half of the year, the increases were not nearly so great as those of the women, and the men's employment started to decline several months earlier than did the women's, although again at a very much slower rate than the later decreases of the women. The decreases for the men began after August, 1918, when the second draft had gone into effect, while the decreases for the women did not start until after November, following the armistice.

The variations indicated for the two sexes in the all-manufacturing curve are indicative of the trends of employment in some, but by no means all, of the smaller classifications in manufacturing. In fact, the curves showing the trend of employment for the year 1918, based on the average for January of that year as 100, show that there were far more classifications in which the trends for the two sexes were alike than might be supposed from a knowledge of the industrial and military necessities of that year.

The classifications in which the differences in trend for men and women were very much like those indicated for all manufacturing include iron and steel and their products, chemicals and allied products, bakeries, lumber and its products, rubber products, tires and tubes, automobiles and parts, miscellaneous manufacturing, and electrical machinery, apparatus, and supplies. However, even in some of these classifications there were certain ways in which the variations for the two sexes did not agree with those shown for all manufacturing. For example, in iron and steel the rise for the women was much more exaggerated than in all manufacturing, while there was very little fluctuation in the men's employment; in bakery products there was no decrease in women's employment after the armistice; in the manufacture of rubber products considerably greater decrease was indicated for the men than in all manufacturing; and in the manufacture of electrical machinery, apparatus, and supplies there was no increase, and toward the latter part of the year there was even a decrease in men's employment.

In some classifications, although the variations for the two sexes were not those indicated by the figures and curves for all manufacturing there nevertheless were decided differences in trend. In the manufacture of confectionery, for example, apparently there was a great drop for women and a corresponding increase for men in the middle of the year, quickly followed by a decrease for men and an increase for women; in the manufacture of boots and shoes there was a sharp decrease for the men after June, but the women's employment did not show the sharp and consistent increases through the year that appeared in some other classifications; also, there was no decrease after the armistice for either men or women. In metals and metal products fluctuations were very much alike for the two sexes until September, after which there was a continued decrease for men but a short increase for women until after the armistice, when women decreased slightly. In stone, clay, and glass products the increases for women started later in the year than in all manufacturing, and the increases continued, with a drop for one month, until September, after which, employment for women remained on practically the same level; for the men, employment experienced a sharp decrease after June, which was continued, but less sharply, after July. Employment in glass manufacturing saw a sharp drop for men in the middle of the year, followed by a slight drop for women, then a slight increase for men and a considerable increase for women; after the armistice women's employment decreased slightly, but men's increased.

In most of the other classifications studied there was a marked similarity of trend for the two sexes throughout the year. Conspicuous examples of this similarity are all textiles and its subsidiary groups, the manufacture of men's and of women's clothing; tobacco and its subsidiary groups, the manufacture of cigars and cigarettes and rehandling; paper boxes; and gas and electric fixtures.

The immediate effect of the armistice upon men's and women's employment in the different classifications provides a very graphic illustration of the variations in trend for the two sexes that may be expected to occur in different industrial classifications.

As in all manufacturing, in the manufacture of iron and steel and their products, lumber and its products, automobiles and parts, and in miscellaneous manufacturing, the rise in women's employment was checked following the armistice, and a sharp decline ensued, while men's employment after the armistice followed generally the fluctuating decrease that had started early in the year. In the other classifications there was great variety in the trends for the two sexes at this Women suffered a similar reversal of employment trends, from time. an increase to a decline, in the manufacture of chemicals and allied products, metals and metal products, rubber products, tires and tubes, glass, and electrical machinery, apparatus, and supplies; but men's employment, except in metals and metal products, rubber products, and tires and tubes, showed a reversal also, and instead of continuing on a downward trend as in all manufacturing started up after the armistice. In the manufacture of metals and metal products men continued their downward trend, while in rubber products and tires and tubes an upward trend for men had started one month before the armistice. Another group of industries in which the trend for women was down after the armistice was textiles and its subclassifications, men's clothing and hosiery and knit goods, but here the downward trend was for both sexes alike and had been in effect before the armistice.

In not a few cases the armistice seems to have been followed by an increase of employment for women. In fact, a downward trend for women that had been in effect before the war was reversed after the armistice, and increased employment for women was indicated, in bakery products, paper and printing, the tobacco industry and its two subclassifications, and the manufacture of pottery, terra-cotta and fire-clay products. In tobacco men's employment reversed its course after the armistice, from a downward to an upward trend, and in paper and printing men's employment continued its upward trend; but in

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the case of bakery products and the pottery group, although an increase of women came after the armistice the men's employment continued to decline. In the manufacture of liquors and beverages the reversal from a downward to an upward trend for women came a month before the armistice, the men continuing downward for the rest of the year. A continued upward trend for women both before and after the armistice was apparent in the manufacture of bolts. nuts, etc., cloth gloves, leather and leather products, paper boxes, boots and shoes, and gas and electric fixtures. In only three of these classifications, however-boxes, boots and shoes, and gas and electric fixtures—did men's employment also follow an upward course. In the manufacture of bolts, nuts, etc., and in leather and leather products men's employment remained about the same, with neither increase nor decrease after the armistice. In the manufacture of cloth gloves, although the armistice was followed by a continued slight increase for women, men's employment continued to decrease slightly. The armistice brought about neither a stimulation nor a retardation of women's employment in the manufacture of women's clothing and of stone, clay, and glass products, but for men in these classifications employment continued to decline as it had done before the armistice.

In practically all the classifications in which there was a difference of trend for the two sexes during 1917 and 1918, the trends indicated by the total figures and curves followed the trends for men rather than those for women. Very occasionally, as in the manufacture of electrical machinery, apparatus, and supplies, the variations for the two sexes were so extreme that the total was representative of neither sex, but on the whole the total curve was very much more likely to show the ups and downs of men's employment with a fair degree of accuracy but to be representative of the women's trend only so far as the women's resembled the men's.

The period of depression following the war, during the early part of 1919, had generally a more serious effect on women than on men. Women's employment during this depression dropped further than men's or dropped when men's did not in all manufacturing, leather and leather products and its subclassification boots and shoes, paper boxes, automobiles and parts, miscellaneous manufacturing, electrical machinery, apparatus, and supplies, iron and steel, cloth gloves, bolts, nuts, etc., hosiery and knit goods, lumber and its products, rubber products, and rubber tires and tubes. Men's employment dropped more than women's in some classifications, including gas and electric fixtures and chemicals and allied products. Occasionally the decreases were about the same for both sexes, as in the manufacture of metals and metal products, textiles, men's clothing, and tobacco. In these last groups, however, textiles and tobacco, there was almost no drop for either sex.

In some of the classifications employment did not seem to suffer as a result of the depression immediately following the war. For example, increases in employment that were similar for both sexes occurred in 1919 in the manufacture of pottery, terra-cotta and fire-clay products, women's clothing, bakery products, and printing and publishing. In the more inclusive classification of paper and printing, however, although increases were very much alike for both sexes, they came later in the year. The early months of 1919 showed in paper and printing a very slight decrease for women and a correspondingly slight increase for men. In stone, clay, and glass products and its subclassification glass manufacturing, there were increases for both sexes but greater for men, and these increases were followed later in the year by decreases, a decrease only for women in the larger group but in the subclassification for both sexes.

In the classifications in which there were decreases for both sexes recovery was not always at the same time for each. Women's employment did not pick up until later than the men's in the manufacture of gas and electric fixtures, iron and steel, cloth gloves, and metals and metal products. On the other hand, women's employment started to increase before the men's did in the manufacture of bolts, nuts, etc., hosiery and knit goods, and chemicals and allied products.

Summary.

During the entire war period and including the months immediately following the war the employment figures for Ohio manufacturing industries show that there was considerable diversity in the trends of men's and women's employment. The curves showing the long-term trends illustrate that during this period women gained a position of increased importance among the wage earners in a number of classifications and retained it, to a greater or less extent, throughout the rest of the period studied. In other classifications the increased importance of women resulting from the war was only a temporary situation and did not last beyond the period of economic necessity that brought it about. To what extent the first or second of these conditions applies is of vital importance in studying the developments of women's employment. Only detailed employment figures by sex will afford a basis of adequate information about such tendencies. The great diversity of trends throughout the war period in the various industrial classifications gives added emphasis to the need for separate employment figures by sex if proper understanding of and provision for the development of women's employment opportunities is to be undertaken.

THE DEPRESSION OF 1920-21

Second in importance only to the war in its effect on trends of employment is the depression of 1920-21 that hit industry to a greater or less degree all over the United States. Many other periods of depression, equally or more severe, have affected the industries of the country, but within the 11-year period under discussion it is the years 1920-21 that stand out as a time of greatly decreased employment. Study of the tendencies of men's and women's employment during the war has shown great variations according to the industrial or occupational classification of the employees. But the years of the war saw a great dislocation in the normal demand and supply of male labor. There was inevitably a certain degree of substitution of women for men and an acceleration of women's employment as men were drawn off for military necessities. These conditions would be almost certain to result in a considerable variation in trend of employment for the two sexes.

But in a time of general economic depression such as occurred in 1920-21 the complicating factor of a dislocated labor supply does

not enter in, and it is possible to view the variations in trend for men and women as affected by more normal economic fluctuations, instead of, as in the war years, by peculiar and individual circumstances and necessities.

On the whole, the depression of 1920-21 showed several variations in the trend of men's and women's employment. Examining first the most inclusive curve, that which shows the figures for all employees, it appears that the depression, as reflected in a decrease of employment, started for both sexes about the same time, around the middle of the year 1920; that the ensuing decrease of employment was more severe for the men than for the women; and that recovery started for both sexes in about the middle of 1921 but was at first slightly more rapid for women than for men. In the classifications that make up the group of all employees the effect of the depression does not seem to resemble consistently the trends indicated in the larger classification. Here again, as has appeared in connection with the effect of other factors on the employment of men and women, the course of employment at a time of economic depression seems to vary for men and women most directly in relation to the type of occupation in which they are classified.

Clerical workers.

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With the clerical workers, for example, the decrease in employment that started in August, 1920, affected both sexes to about the same degree. The proportionate decrease for men and women was practically the same, and their recovery subsequent to 1921 was apparently at the same rate.

Examining the subclassifications of clerical workers it is apparent that the depression hit the men and women clerical workers in manufacturing and trade in the same way, the outstanding difference being that in trade the decrease started about six months later than it did in manufacturing.

The clerical workers employed in offices were affected by the depression a few months earlier than were those employed in stores, the decrease of employment for the former starting in August of 1920 while in stores it did not start till the first months of 1921. In both cases, however, the effect was the same for both sexes.

Sales people.

For the sales people a different story appears from the curves. In the first place the depression did not affect either sex until 1921 and then it affected the women more than the men. In fact, from the beginning of 1921 the men in this classification assumed a more important proportion than they had had before and this importance continued and increased through 1924.

On the whole, the depression of 1920-21 apparently had only a very slight effect on the general course of employment in sales work. It brought a slightly greater reduction for women than for men in sales work in trade. In manufacturing, the number of salesmen did not decrease at all but the women's curve fell below the men's. Since the drop caused by the depression women have never regained their relative position in sales work, either in trade or in manufacturing. However, the effect of the 1920-21 depression was not very great, especially among the men and women sales people in manufacturing. The course of employment for them, in fact, shows less depression at this time than do the curves for any of the other large classifications except wage earners in service.

Wage earners.

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While trends for the two sexes in the clerical and sales classifications were comparatively similar during the depression, this was not so generally the case in the classification of all wage earners. The depression struck the men and women wage earners at about the same time, around July, 1920. The ensuing decreases for both sexes continued through 1920, but in the beginning of 1921 women, whose employment had not then decreased so much as men's, started slightly on the upward grade, while men decreased a little more. After March the trends for the two sexes were fairly similar, with the women maintaining their superior position throughout the year and not losing it in 1922 until a more rapid increase among the men after January brought them on a level with the women by August. Women wage earners, therefore, although they felt the results of the depression almost simultaneously with the men, did not suffer so greatly from it.

This does not apply, however, to the smaller classifications of wage earners, some of which were strongly affected and others very little influenced by the depression, while the comparative extent to which decreases in employment affected the men and women differs greatly. Apparently the depression did not play an important part in influencing the relative position of men and women wage earners in service, trade, or transportation.

Agriculture.—In agriculture, however, it is apparent from the chart based on moving averages that the depression of 1920-21 brought with it a very much more rapid and extensive decrease for women than for men. Although the slight decrease experienced by the men lasted only until December, 1921, women's continued until August, 1922.

Service.—In service the second half of 1920 witnessed a decline in numbers of both men and women, but this decline was not very much greater than the usual seasonal decrease during the latter part of each year and the trend was the same for each sex. The year 1921 saw a slight decrease for both men and women, although the usual seasonal increase for each sex occurred. Trends for the two sexes were similar. After the slowing up of 1921 the course of employment was resumed, with seasonal fluctuations and a steady upward trend for each sex.

For the three subclassifications of service the depression of 1920-21 is not reflected very strongly in the employment curves. Naturally the restaurants show the greatest change in employment at that time. The increased employment in restaurants following the war was sharply accentuated for both men and women during the first half of 1920. The decrease for the men started in August, while for the women it started about two months later. However, by March, 1921, the women's curve began to pick up again, and the men's followed suit a month later, so that the early part of 1921 saw employment for both men and women in restaurants again increasing. Throughout the two years 1920-21 there was very little deviation from the total by either men's or women's curve.

In hotels the depression had practically no effect on the relative position of men and women. Allowing for the usual seasonal increase for each sex in the summer months, the general trend was slightly

downward for both men and women from the beginning of 1920 to the end of 1921. The seasonal trends were similar for men and women, but the men's curve maintained a consistently subordinate position. In 1922 men's employment increased for the busy summer season very much more than did women's, so that for a short time the men achieved a relative position similar to that of 1917. This was only a temporary recovery, however, and the last two years of the period saw the women's curve again well above the men's.

In laundries the depression seems not to have had a great effect on the employment of either sex. There was a decline in employment for both men and women, starting late in 1920 and continuing through 1921, after which employment started on the upgrade. Throughout this period the relative position of men and women and the trends of their employment were very similar.

Trade.—In trade the course of the depression is rather difficult to trace, owing to the irregularity in the curves that probably is due to a great decrease in the number of establishments reported. It is evident, however, that during the period of depression women lost the relative importance of the position they had held since the early part of 1918 and in the middle of 1921 their curve resumes, roughly, a position in relation to the men's curve similar to its position before 1917.

Transportation.——For wage earners in transportation the depression of 1920-21 did not change greatly the relative position of the two sexes. There was a certain decrease of employment for both men and women during 1921 and women became, proportionately, slightly less important than they had been in 1920, but the difference was not very great.

In the subclassification of transportation that comprises telephone and telegraph occupations, the depression of 1920-21 apparently had no very serious effect upon the men and women. Decreases in employment for both sexes started in the last part of 1920. There was a slight seasonal stimulation for the men during the middle months of 1921, but a low point was reached for both sexes in the spring of 1922. After that, employment increased, on the whole, for both sexes. Evidently, therefore, the depression hit the telephone and telegraph workers later than it hit manufacturing and clerical workers and their recovery did not start until a few months after the others.

Manufacturing.—It is for the wage earners in manufacturing that the greatest variations appear in the effect of the depression on the trend of employment for the two sexes.

The decrease in employment in the all-manufacturing classification due to the depression started for the men after June, 1920, the earlier decline apparent in the figures for April and May being due chiefly to strikes in the iron and steel industry. Women's employment was affected by the depression about the same time as the men's. The drop in employment was sharp and rapid for both sexes, but was somewhat greater for men than for women. The beginning of 1921 saw the start of recovery for women, but the men continued to decline slightly until after the middle of the year. After that the trend for both sexes was upward, except for minor fluctuations, until the middle of 1923. On the whole, therefore, it can be said that in the allmanufacturing group the depression did not affect women so severely as men. Decreases in employment were not so severe, and recovery came sooner.

Here again, however, the more detailed classifications do not show that this was consistently the case in all industrial groups. Though in the very great majority of the subclassifications the figures show that the depression was more severe for women than it was for menin other words, that the decreases in women's employment were proportionately greater than those in men's employment—some classifications show very marked differences between the sexes in the extent of the decreases, as in the manufacture of glass, automobiles and parts, and paper boxes; in others the differences were slighter, and in still others the extent of the depression was very similar for the two sexes. In a very few cases, notably the manufacture of rubber products and metals and metal products, the men seem to have suffered more than did the women.

But the actual proportionate decreases in employment accompanying the depression are not the sole measure of its effects. There must also be considered the duration of decreases, and here too the conditions were not alike for men and women. In all manufacturing it appears that decreases in employment due to the depression started for the men and women in July, 1920, while the women's recovery started early in 1921, and the men's not until after the middle of the year.

These variations are far from typical of the conditions in the smaller classifications. For example, in the manufacture of electrical machinery, apparatus, and supplies the decrease started in men's employment in July, 1920, and in women's employment a month later, while recovery started for the women in March, 1921, but for the men not until December. In the manufacture of metals and metal products the decrease started five months earlier for the men than for the women (July, 1920, for the men and December for the women) and recovery started in September, 1921, for both sexes, though it was sharper for the men. In the lumber industry, the decrease started a month earlier for the men than for the women (July and August of 1920, respectively) but recovery for the men began in February, 1921, and was six months ahead of the women's recovery.

In some important classifications the depression appears to have affected the women earlier than it did the men. This occurred in the manufacture of chemicals and allied products, where decreases started in women's employment in August, 1920, two months earlier than for In this classification, however, women's employment recovered men. in February of the year following, while men's did not start up again until August. In the manufacture of rubber products the decreases for women came in April, 1920, a month earlier than for the men, but recovery came at the same time (February, 1921) for both, though it was more rapid for the men. In the manufacture of leather and leather products also the depression affected women earlier than men, the decreases for the women starting in February and for the men in April of 1920. In this case, however, although recovery came in December, 1920, for both sexes, it was more rapid for women than for men. In miscellaneous manufacturing the depression started at the same time (August, 1920) for both sexes, but recovery for the women started in August, 1921, four months before the recovery for the men.

Summary.

It would be possible to multiply many times the instances of variation in the effects of the depression on men's and women's employment, but it is not necessary to detail further examples to show that such effects are not constant for any group of industries and that no figures giving employment trends only for total wage earners can illustrate the many important deviations from the total that may occur for either sex.

Surely it is of very great importance that, at a time of approaching depression, any community should be able to predict whether the problem of unemployment is going to strike first at the women or at the men wage earners, and during a period of depression it is equally necessary that there should be some basis for judging whether it is for men or for women that relief will come first. Such a basis will be afforded by adequate and comparable employment statistics by sex, but if the figures available are for the two sexes combined the essential units in any constructive program for the prevention and relief of unemployment will not be available.

STRIKES

Another factor that brings about considerable variation in the trends of men's and women's employment in manufacturing industries is the occurrence of strikes. Sometimes a strike will have only a limited local effect; sometimes its influence will extend far beyond the confines of the industry to which apparently it is limited. In almost every case the effect of a strike will show to a different degree in the employment figures for men and for women, depending upon the extent of organization and the proportionate importance of either sex in the industry affected by the dispute.

The 11-year period under discussion in Ohio saw many instances of trade disputes and strikes in the various industries for which figures have been presented. Some of these disputes were so limited as to locality and involved so few workers that their effect is not discernible in the figures and curves showing trends of employment. Others, notably the great steel strike of 1919, caused marked fluctuations in employment not only in the industry itself but in many allied industrial groups.

The effect of the strike in the iron and steel industry is discussed in considerable detail in a later section of this study, dealing specifically with the iron and steel industry. (See Appendix B.) It is necessary to discuss here, therefore, only the variations in the effect of this situation on the employment trends for the two sexes. The figures and curves for the iron and steel classification show a sharp drop in employment in October, 1919 (the strike began late in September), for both the men and the total. This drop was not paralleled in the figures for women's employment, which indicate that women were affected to only a very minor extent by this strike.

That this is not always the case, however, is illustrated by fluctuations in employment in the same industry during April and May of 1920. At this time the decrease in women's employment, although not so severe as the decrease among men, nevertheless shows the effect of strike conditions, the labor disturbances being a strike of railroad switchmen and yard crews, that began in Chicago on April 9 and soon spread to other cities, and a strike of machinists in Cincinnati in May. An illustration of strikes that affected women's employment very much more seriously than men's may be found in the curves and figures for employment in the manufacture of pottery, terra-cotta and fire-clay products. In this classification the curves show a very great drop in women's employment in October and November of 1922. This drop was reflected in a similar but not nearly so extensive decrease in men's employment. The fluctuations indicated here were the result of extensive strikes in the potteries, where almost all the women in this classification were employed. As a result of these strikes, caused by wage disagreements and occurring in October and November, several thousand workers in the general ware and sanitary ware branches of the industry quit work. About 50 per cent of the women were out of employment. The men's numbers were reduced less than 25 per cent.

The influence of these strikes on employment fluctuation is shown also in the figures for the more inclusive classification of stone, clay, and glass products. In neither classification, however, would the figures or curves for the total show to how great a degree these strikes affected women.

Summary.

A detailed study of many of the other industries for which employment figures are given would yield examples of numbers of strikes that involved considerable groups of men or women workers or both. The examples just described, however, give adequate illustration of the fact that strikes influence employment of men and women to varying degrees. Employment figures classified by sex are essential if these variations are to be shown.

INDUSTRIAL DEVELOPMENTS

In studying the different aspects of women's employment it is a well-known fact that more far-reaching and significant than any local labor disputes or even than any temporary change in economic conditions is the influence of changing industrial practices and products and developments in the use of machinery. It is here that lies the key to the development or retardation of women's opportunity. It is the part played by these changes and developments that must be fully understood if the wisest use of women is to be achieved. Employment figures inevitably are an important element in illustrating the effects of such industrial changes as are being made and the figures and curves presented here afford some interesting illustrations of the value of differentiating these figures by sex to indicate the effects of developments in the industry. For example, the figures for the tobacco industry show a considerable decrease for the men wage earners over the 11-year period and a very much increased proportionate importance of women. This is the result of more than one factor, but it probably illustrates chiefly the effect of recent developments in cigar making. Beginning about 1919 the cigar-manufacturing industry in Ohio, as elsewhere, has been revolutionized by the introduction of machines. Forced into their use by the acute shortage of labor in 1919, manufacturers adopted them more and more widely. It was estimated in 1924 that by that time only about 5 per cent of

the total cigar production was exclusively handmade; about 30 per cent was solely machine made, the remainder consisting of cigars in which both machine and hand operations were employed.¹ The decline in handwork was outlined by the president of the Cigar Makers' International Union in September, 1925. He said that in 1923 the union had 13,305 people making cigars by the out-and-out hand method, but in 1925 they had only 7,817, a decrease of 5,488 within two years. In the same time the number of workers employed on the automatic machine had increased from 1,928 to 3,528.²

In Ohio many small plants, with their old-style handwork, were forced out of business, unable to compete with the large plants equipped with automatic machines. In the smaller plants men had been employed. They had worked for short periods of a few months, and were more like stragglers or tramps in the industry. In the large, modern, machine-equipped plants in Ohio, mostly in the hands of a few big corporations, few men were employed, and the greater number of these were maintenance men. The manufacturers preferred girls, because they were faster, neater, and more economical wrappers. At one time of labor shortage in 1919 it was said that the real anxiety was about women, who were wanted everywhere for the lighter employments, and several companies were installing certain comforts and conveniences in their factories to attract them. In the large plants employment was quite steady and the women worked the year around.

This development in the importance of women in the cigar industry is of great significance. It is clearly illustrated by the curves and figures on employment differentiated by sex.

Another type of development, in which women are becoming of less importance, is taking place in telephone employment. Here, where women have for many years been a most important factor, the introduction of automatic telephones is apparently decreasing their employment. This is illustrated clearly in the figures and curves for the telegraph and telephone industry, where since 1920 the curve of men's employment has risen disproportionately.

In the manufacture of boots and shoes the development of fancier styles has been accompanied by the increased proportionate employment of women, as they are used for the stitching on shoes, and this work has increased greatly with the modern styles. The employment curves for this classification show, since the middle of 1922, a steadily increasing proportion of women among the wage earners that undoubtedly is a reflection of the changes taking place in the industry itself.

The curves for the paper-box industry illustrate the effects of changes in product. From 1914 to 1920 women constituted from 50 to 60 per cent of all employees; by 1924 their proportion had dwindled to 38 per cent. This decline seems to have been due to the greater / development of the folding-box and shipping-case branches of the industry. The expense of shipping set-up paper boxes has contributed to the success of the folding box, and the heavy paper carton is re-placing the wooden packing box. In these lines the employment of men is much greater than that of women.

The Tobacco Industry. Chas. D. Barney & Co., New York, 1924, pp. 26, 27.
Perkins, George W. Women in the Cigar Industry. American Federationist, September, 1925, p. 809.

VARIATIONS IN EMPLOYMENT TRENDS

Other classifications show other industrial influences at work to vary the trends of men and women workers. The comparative newness of the automobile and electrical-manufacturing industries has resulted in more experimentation with women and resultingly great fluctuations in their employment when compared with men's; while the long-established methods and more standardized products of the clothing industries apparently have produced a greater degree t of similarity in the ups and downs of employment for the two sexes.

Whatever the influence of industrial change may have been, its full effect will not be disclosed unless it is possible to consult and compare figures showing the trend of employment for each sex separately, and herein lies the chief value of presenting employment figures with this amount of detail.

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PART III. GENERAL TABLES

TABLE 1.-ALL EMPLOYEES: ALL INDUSTRIES

	Number	Average	Per cent minimum					1	lumber en	nployed in-					
Year	lishments reporting	of etu- ployees 1	of maxi- mum	Jánuařy	February	March	April	May	June	July	August	Beptem- ber	October	Novem- ber	Decem- ber
All employees: 1914	14, 149 17, 181 20, 017 21, 624 22, 652 27, 241 23, 652 26, 904 30, 439 14, 149 17, 981 26, 904 22, 709 23, 662 27, 241 23, 562 25, 904 30, 439 14, 149 17, 981 20, 017 21, 624 25, 904 30, 439 14, 149 17, 981 22, 662 25, 904 30, 439 30, 439 31, 624 22, 709 23, 662 25, 904 30, 439 31, 624 32, 662 37, 241 30, 439 31, 624 32, 662 32, 662 34, 662 35, 662 36, 662 36, 662 36, 662 37, 662 37, 662 37, 662 36, 662 37, 66	641, 737 737, 106 928, 356 1, 010, 640 1, 041, 940 1, 039, 150 1, 045, 920 812, 605 812, 605 812, 605 815, 256 666, 772 704, 345 810, 069 858, 994 017, 425 836, 748 817, 194 836, 748 817, 194 836, 748 817, 491 120, 481 140, 481 140, 481 140, 481 140, 484 144, 009 182, 902 213, 155 2200, 081 195, 179 234, 901	89.8 79.3 83.6 93.8 90.6 85.8 80.1 98.9 93.6 88.0 77.3 82.9 91.8 86.4 92.9 91.8 86.4 92.9 91.8 86.4 94.4 91.8 85.1 93.3 94.4 91.8 85.1 93.5 94.1	636, 205 641, 274 832, 946 977, 022 881, 479 984, 912 11, 141, 427 832, 124 603, 707 1, 052, 544 506, 820 508, 370 671, 706 770, 420 770, 420 770, 420 770, 420 770, 420 773, 792 816, 829 128, 385 132, 902 1571, 800 128, 385 214, 347 233, 110 193, 640	\$38, 504 655, 143 862, 236 982, 662 993, 329 9093, 327 1, 131, 891 800, 183 1, 014, 709 1, 069, 752 809, 406 519, 910 697, 310 697, 310 697, 310 805, 512 800, 055 512 800, 055 129, 188 135, 223 164, 921 770, 235 830, 675 129, 188 135, 223 164, 922 177, 150 193, 271 211, 960 223, 346 194, 952 224, 444 224, 447 224, 447 224 224 224 224 224 224 224	650, 7011 681, 980 874, 384 1, 009, 003 1, 074, 675 1, 167, 525 808, 003 1, 056, 537 1, 056, 537 1, 056, 537 1, 056, 609 820, 693 643, 300 715, 005 828, 820 822, 915 828, 820 822, 915 824, 702 843, 818 130, 068 138, 697 155, 479 180, 834 199, 731 211, 447 238, 592 190, 839 231, 575 241, 701	645, 506 709, 633 602, 118 902, 118 902, 118 902, 118 902, 118 902, 118 902, 118 901, 252 91, 170, 761 818, 214 1, 071, 261 1, 006, 980 537, 042 570, 340 537, 042 570, 340 537, 042 570, 340 537, 042 570, 340 537, 042 570, 340 537, 042 570, 340 533, 404 622, 247 128, 744 128, 403 108, 413 108, 413 108, 413 111, 031 240, 201, 113 240, 113 240, 113 240, 113 240, 113 240, 113 240, 113 240, 113 240, 113 240, 1	659, 404 720, 887 1, 033, 073 1, 047, 370 055, 813 1, 107, 384 813, 112 1, 068, 307 532, 556 588, 330 754, 139 855, 228 842, 914 775, 903 017, 740 018, 207 836, 808 831, 125 201, 456 201, 456	002, 025 743, 954, 954, 941, 971 1, 041, 901 1, 075, 783 1, 010, 542 1, 180, 454 821, 800 1, 110, 212 1, 034, 165 836, 504 600, 817 770, 200 860, 923 859, 488 866, 016 943, 849 625, 819 878, 084 700, 904 125, 431 130, 137 162, 702 181, 068 213, 556 213, 556 2142, 655 194, 981 2538, 128	648, 352 749, 652 944, 354 1, 035, 462 1, 059, 648 1, 052, 653 1, 002, 853 1, 002, 853 1, 002, 673 841, 867 940, 281 606, 873 888, 143 707, 226 122, 781 126, 524 163, 241 129, 169 129, 169 120, 278 112, 169 120, 241 120, 241 120	645, 207 760, 314 903, 426 903, 426 903, 426 903, 426 903, 426 903, 426 903, 426 903, 426 903, 426 901, 934 901, 934 901, 934 901, 934 901, 934 901, 934 901, 934 901, 934 901, 934 901, 934 905, 336 905, 336 905, 336 905, 336 91, 238 905, 336 91, 238 91, 939 928, 338 191, 080 234, 062 234, 062	649, 753 785, 170 975, 004 1, 037, 168 1, 037, 368 1, 102, 305 1, 135, 287 810, 285 1, 089, 471 1, 054, 652 808, 620 851, 222 831, 235 870, 472 806, 620 851, 222 831, 235 876, 472 808, 235 81, 235 838, 243 616, 650 852, 517 817, 078 120, 644 143, 028 168, 208 185, 646 226, 133 225, 920 123, 644 143, 628 168, 208 185, 646 237, 044 183, 646 245, 64624, 646 245, 646 245, 64624, 646 245, 64624, 646 245, 64	630, 803 788, 100 977, 945 1, 034, 087 1, 057, 610 1, 069, 100 1, 069, 100 1, 063, 248 817, 752 1, 053, 872 1, 053, 872 1, 053, 872 1, 053, 872 1, 053, 872 641, 077 801, 203 845, 560 853, 812 850, 027 801, 203 844, 370 817, 388 127, 041 146, 213 172, 052 186, 418 228, 708 220, 483 196, 642 231, 935	608, 038 703, 260 984, 921 1, 031, 836 1, 045, 060 1, 04, 029 1, 04, 029 1, 078, 264 1, 039, 749 483, 810 644, 021 811, 232 842, 046 815, 202 842, 046 816, 202 842, 046 816, 202 842, 046 816, 202 842, 046 816, 202 842, 046 816, 202 842, 046 817, 30 842, 046 816, 202 842, 046 816, 202 842, 046 817, 30 842, 046 817, 30 842, 046 816, 202 842, 046 816, 202 842, 046 817, 000 818, 900 818, 700 230, 458 234, 045 224, 652 107, 617	597, 802 808, 729 982, 577 1, 001, 524 1, 030, 735 810, 882 1, 061, 231 1, 046, 197 472, 819 657, 498 805, 561 700, 105 808, 561 700, 105 808, 561 707, 684 124, 983 151, 231 177, 123 230, 673 227, 078 230, 673 227, 078 230, 673 244, 999 244, 951 244, 951 245,
	00,939	400, 220	964 Q	e904 (11)	400,077	411, 111	A12, 100	401, 102	1 1074, 1/1	440, 01/	1006 (UEA	807,045	290,008	2*1, 410	7010,010

Arithmetic average of the 12 months.

* Figures not obtainable.

52 VARIATIONS IN EMPLOYMENT THENDS OF WOMEN AND MEN

TABLE 2 .--- WAGE EARNERS: ALL INDUSTRIES

	Number	A verege	Per cent					N	umper em	ployed in-	-			<u> </u>	
Yeer	of estab- lishments reporting	number of em- playses ¹	employ- ment is of maxi- mum	January	Pebruary	March	April	Мау	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1014 1016 1016 1017 1018 1019 1019 1010 1011 1012 1022 1023 1024 1016 1017 1016 1017 1018 1019 1023 1016 1017 1018 1019 1021 1022 1023 1024 1016 1017 1018 1021 1022 1024 1015 1016 1017 1018 1019 1021 10221 10221 10221	14, 140 17, 981 20, 017 21, 624 22, 709 23, 662 24, 124, 552 24, 124, 552 24, 124, 552 25, 994 30, 439 14, 149 17, 981 20, 017 21, 624 22, 709 23, 652 24, 124 25, 994 30, 439 14, 149 17, 981 120, 624 25, 981 20, 622 24, 124 25, 981 20, 622 24, 124 25, 981 20, 622 24, 124 25, 981 20, 622 24, 124 25, 994 20, 622 24, 124 25, 994 21, 624 22, 709 23, 652 24, 124 27, 241 22, 709 23, 652 24, 124 24, 124 24, 124 25, 994 24, 124 25, 994 24, 124 25, 994 24, 124 27, 241 22, 709 23, 652 24, 124 24, 124 25, 994 24, 124 27, 241 22, 709 24, 124 24, 124 25, 994 24, 124 25, 994 24, 124 24, 124 25, 994 24, 124 24, 12424, 12	553, 138 678, 344 812, 068 887, 577 895, 726 642, 926 895, 726 642, 926 895, 726 642, 926 890, 627 800, 379 800, 379 800, 379 800, 379 800, 379 801, 737 774, 727 737, 757 737, 757 744, 287 743, 881 744, 737 715, 902 87, 569 97, 225 112, 514 123, 140 141, 100 133, 347 145, 324 117, 905	87,79 82,84 89,97 76,59 96,51 76,51 92,61 92,61 92,61 92,61 92,61 92,61 92,61 92,61 92,61 92,61 92,61 92,61 92,61 92,61 92,61 92,61 92,62 94,92 86,80 97,21 4 80,97 94,98 80,97 94,99 80,97 94,99 80,97 94,99 80,97 94,99 80,97 80,57 95 80,97 80,57 95 80,97 80,997 80,	547, 213 540, 103 713, 726 850, 720 851, 726 851, 726 851, 726 851, 726 851, 726 851, 727 801, 834 457, 805 457, 805 457, 805 457, 805 457, 805 457, 805 457, 805 457, 805 457, 805 456, 827 717, 917 808, 804 818, 604 818, 604 818	851, 276 500, 725 742, 826 852, 385 852, 303 954, 050 954, 050 957, 747 460, 308 635, 840 725, 189 682, 055 807, 803 632, 001 532, 001 533, 001 532, 001 533, 001 534, 001 545, 0	582, 619 583, 972 762, 3488 8841, 072 8841, 072 8841, 072 8841, 072 8841, 072 8941, 870 647, 020 647, 020 647, 020 647, 020 647, 020 647, 020 647, 020 647, 020 647, 040 647, 040	576, 394 611, 992 787, 875 880, 511 885, 824 823, 726 948, 016 669, 676 906, 600 903, 122 900, 438 487, 152 616, 030 678, 926 614, 237 756, 870 752, 583 642, 023 853, 752 641, 237 766, 846 753, 621 89, 242 95, 662 110, 950 121, 545 133, 241 131, 138 840, 201 131, 138, 339 120, 254	570, 558 028, 013 801, 1002 9051, 457 9052, 019 877, 247 973, 070 973, 070 974, 000 974, 071 974, 071 977, 071 9777, 071 9777, 071 9777, 071 9777, 071 9777, 071 9777, 071 977	573, 248 647, 787 826, 843 910, 624 928, 599 858, 781 1, 002, 058 605, 035 605, 035 779, 106 934, 200 839, 935 714, 673 784, 635 785, 713 725, 757 846, 840 654, 084 840 654, 084 857 86, 659 90, 692 90, 692 112, 170 122, 100 144, 886 133, 024 151, 745 184, 215 184, 615 184, 6	600, 306 602, 110 828, 574 903, 607 934, 382 805, 809 805, 809 807, 747 910, 260 832, 010, 260 833, 010, 260 846, 300 847, 721 955, 134 848, 846 955, 134 84, 846 955, 134 112, 233 121, 248 147, 050 114, 433 123, 485 114, 433 124, 445 114, 433 125, 485	558, 056 602, 560 849, 473 905, 900 935, 737 904, 103 806, 056 921, 373 842, 205 921, 205 921	501, 822 085, 425 856, 725 856, 725 903, 480 008, 919 903, 658 904, 003 657, 350 808, 714 905, 270 859, 885 473, 264 473, 264 473, 264 473, 264 473, 264 758, 237 751, 759, 237 751, 758, 237 751, 759, 847 755, 847 755, 847 756, 847 757, 847 756, 847 757, 847 758, 237 759, 237 750, 682 1124, 679 116, 125 130, 369 147, 216	551, 260 680, 976 887, 273 900, 879 900, 230 919, 240 914, 634, 866 914, 634, 866 914, 634, 866 914, 634, 866 914, 634, 866 914, 634, 909 739, 633 737, 124, 125 757, 187 754, 186 757, 187 754, 186 757, 187 754, 186 757, 187 754, 186 751, 187 754, 186 754, 186 755, 186755, 186 755, 186 755, 186 755,	510, 259 600, 686 802, 542 805, 941 805, 943 805, 941 805, 943 844, 326 665, 326 844, 326 866, 320 844, 337 434, 437 588, 003 743, 814 743, 816 84, 822 101, 623 118, 728 121, 451 132, 328 147, 800 135, 148 121, 451 132, 328 147, 810 147, 810 148, 711 148, 71	505, 549 701, 081 864, 771 861, 856 872, 982 951, 564 770, 271 650, 374 832, 969 866, 458 840, 083 422, 860 508, 081 735, 501 735, 501 735, 501 735, 501 735, 501 842, 860 945, 326 522, 799 644, 330 82, 659 102, 400 117, 708 126, 575 120, 675 120, 675 120, 675

¹ Arithmetic everage of the 12 months.

GENERAL TABLES

TABLE 3.-WAGE EARNERS: AGRICULTURE

	Number	Average	Per cent	i 	· .			N	umbar em	ployed in-					
Year	of estab- lishments reporting	number of em- ployees i	employ- ment is of maxi- mum	January	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914 1915 1916 1917 1918 1919 1920 1922 1922 1924 Males: 1914 1916 1916 1916 1916 1917 1918 1919 1922 1924 1924 1914 1915 1919 1927 1928 1924 1914 1918 1919 1927 1928 1924 1921 1928 1924 1921 1928 1924 1921 1928 1924 1921 1928 1924 1921 1928 1924 1921 1928 1929 1921 1928 1929 1921 1928 1929 1921 1928 1929 1921 1928 1929 1921 1928 1929 1921 1928 1929 1921 1928 1929 1921 1928 1929 1921 1928 1929 1929 1929 1929 1929 1929 1929 1920 1929 1920	153 2700 3453 4520 5522 5545 5545 5545 5522 5545 5522 5545 5542 5545 5545 5545 5545 5545 5545 5545 5545 5545 5545 5545 5545 5545 55	2, 120 2, 811 3, 685 4, 459 4, 411 4, 403 4, 459 4, 138 4, 358 4, 138 4, 1384, 138 4, 1384, 138 4, 138 4, 138 4, 138 4, 138 4,	63. 1 53. 2 55. 9 58. 7 62. 3 58. 0 60. 3 63. 8 58. 6 58. 6 59. 8 59. 8 62. 8 59. 8 59. 8 59. 8 59. 8 59. 8 58. 6 58. 6 58. 6 59. 8 59. 7 50. 7 50	1, 590 2, 019 2, 688 3, 323 3, 518 3, 376 3, 523 3, 3, 106 3, 186 3, 186 3, 186 3, 186 3, 186 3, 186 3, 188 3, 118 3, 1183, 118 3, 118 3, 118 3, 118 3, 1183, 118	1,624 2,727 2,737 3,557 3,5572	1,776 2,2980 2,2980 2,220 2,20	$\begin{array}{c} 2,317\\ 2,986\\ 3,717\\ 4,605\\ 4,753\\ 4,665\\ 4,753\\ 4,640\\ 4,566\\ 4,297\\ 4,106\\ 5,606\\ 2,171\\ 2,798\\ 3,56\\ 4,204\\ 4,276\\ 4,204\\ 4,276\\ 4,204\\ 4,276\\ 3,778\\ 5,224\\ 146\\ 187\\ 200\\ 3376\\ 336\\ 337\\ 334\\ 324\\ 330\\ 337\\ 336\\ 336\\ 336\\ 336\\ 336\\ 336\\ 336$	2,378 3,1992 3,5923 4,9359 4,9359 4,9554 4,955 2,218 3,5769 4,9579 4,9579 4,9579 4,9579 4,9579 4,9579 4,9579 4,9579 4,959 5,574 4,9359 1211 2222 2357 349 5,277 369 349 5,277 369 349 5,277 369 380	2,486 3,222 4,486 5,044 5,046 5,044 5,046 5,044 5,046 5,044 5,046 5,044 5,046 5,044 5,0465,046 5,0465,046 5,0465,046 5,046 5,046 5,0465,046 5,046 5,0465,046 5,046	2, 521 3, 797 4, 806 5, 648 5, 226 5, 623 5, 623 5, 623 5, 623 5, 623 5, 623 5, 623 5, 623 5, 215 5, 64 7, 5 5, 64 7, 5 7, 5 7, 5 7, 5 7, 5 7, 5 7, 5 7, 5	2,451 3,261 4,375 5,313 5,124 4,761 4,907 5,124 4,761 4,907 5,072,	2, 237 3, 003 4, 143 5, 041 4, 604 4, 671 5, 069 4, 447 4, 451 4, 870 0, 301 2, 105 2, 819 3, 860 4, 807 4, 353 4, 600 4, 353 4, 600 4, 353 5, 805 132 132 132 134 135 333 333 201 200 367 306	$\begin{array}{c} 2, 303\\ 2, 940\\ 3, 803\\ 4, 614\\ 4, 608\\ 4, 296\\ 4, 296\\ 4, 125\\ 4, 125\\ 4, 125\\ 2, 173\\ 2, 762\\ 2, 173\\ 2, 762\\ 4, 195\\ 4, 013\\ 4, 003\\ 4, 003\\ 4, 003\\ 4, 003\\ 4, 503\\ 4, 003\\ 4, 503\\ 4, 503\\ 4, 503\\ 4, 503\\ 4, 503\\ 4, 503\\ 4, 503\\ 3, 944\\ 4, 580\\ 5, 601\\ 130\\ 130\\ 130\\ 2422\\ 306\\ 326\\ 326\\ 326\\ 326\\ 326\\ 320\\ 322\\ 331\\ 181\\ 3322\\ 333\\ 181\\ 3322\\ 333\\ 331\\ 3322\\ 333\\ 331\\ 3322\\ 333\\ 331\\ 332\\ 333\\ 331\\ 332\\ 333\\ 331\\ 332\\ 332$	2,085 2,598 3,373 4,178 4,035 7,4,383 3,837 4,383 3,837 4,313 5,178 1,985 2,440 3,630 3,635 4,0484,048 4,048 4,0484,048 4,048 4,04	1, 691 2, 313 3, 603 3, 550 3, 560 3, 560 4, 560 3,

* Arithmetic average of the 12 months.

24 VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

	Number	Average	Per cent minimum					N	lamber em	pioyed in-	·····				
Year	of estab- lishments reporting	number of em- ployees i	employ- ment is of mari- mum	January	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees; 1914 1915 1916 1917 1918 1919 1919 1919 1919 1919 1920 1922 1924 Malee: 1914 1915 1924 Malee: 1914 1915 1918 1919 1919 1920 1921 1922 1924 1918 1919 1921 1922 1924 1925 1926 1927 1924 1914 1915 1918 1919 1919 1919 1919 1919 1919 1920 1921 1922	6,749 7,880 8,600 8,858 9,652 8,600 8,858 9,652 8,403 8,701 9,789 8,403 8,701 9,789 8,860 8,858 8,001 8,749 7,899 8,662 8,600 8,602 8,600 8,602 8,600 8,602 8,600 8,701 8,600 8,600 8,600 8,600 8,600 8,600 8,600 8,600 8,600 8,600 8,600 8,600 8,600 8,600 8,701 8,701 8,700 8,600 8,600 8,701 8,700 8,600 8,700 8,600 8,700 8,700 8,600 8,700 8,600 8,700 8,600 8,700 8,600 8,600 8,700 8,600	437, 069 480, 627 628, 208 682, 379 699, 656 678, 525 546, 435 654, 142 664, 435 654, 142 664, 435 654, 142 664, 435 654, 142 664, 435 677, 722 611, 740 830, 259 611, 740 841, 668 64, 850 66, 850 66, 850 66, 850 71, 741 84, 226 85, 190 86, 850 71, 772 104, 117 70, 103 85, 419	87.0 77.0 84.4 90.8 91.7 86.5 71.5 72.2 72.3 90.6 84.0 75.3 84.1 90.8 84.0 75.3 84.1 90.3 84.1 90.5 90.3 83.9 90.3 70.5 90.5 83.2 87.3 86.1 92.2 90.5 83.2 87.3 85.1 92.4 82.4 82.4	445, 302 420, 003 502, 043, 307 6012, 307 6012, 308 763, 282 473, 861 877, 051 8637, 106 877, 106 877, 106 877, 106 876, 061 876, 061 876, 061 876, 061 876, 063 876, 064 876, 064 876, 065 525, 302 558, 302 559,	451, 748 439, 125 672, 885 675, 277 647, 227 647, 227 647, 226 469, 450 647, 226 647, 252 641, 812 641, 812 641, 812 641, 812 641, 812 647, 251 841, 060 851, 744 860, 437 860, 437 860	400, 258 455, 815 609, 412 604, 158 632, 514 463, 942 463, 944 463, 944 464, 944464, 944 464, 944 464, 944 464, 944464, 944 464, 944 464, 944464, 944464, 944 464, 944464, 944464	402,988 407,025 616,469 601,553 607,682 638,470 744,545 405,445 405,445 405,445 405,445 803,071 804,892 304,713 804,892 304,713 803,070 800,097 645,033 804,892 304,713 804,892 304,713 804,892 304,713 805,097 805,097 805,097 81,935 81,935 81,935	449, 701 473, 452 618, 959 701, 208 635, 636 742, 073 465, 624 465, 624 465, 624 465, 607 614, 109 383, 063 404, 046 535, 007 614, 109 383, 063 404, 046 535, 007 614, 109 383, 063 404, 046 535, 007 642, 084 575, 633 518, 507 66, 708 69, 409 82, 362 86, 795 99, 350 92, 449 108, 601 78, 239 81, 584	446,000 450,857 633,872 660,745 716,286 666,151 762,219 461,296 655,817 762,219 461,296 655,817 762,318 857,218 850,435 410,335 550,332 763,681 657,635 479,465 65,622 479,465 65,622 479,605 90,615 775,605 90,917 605,921 87,258 479,605 90,615 775,605 90,755 64,651	432,074 437,670 020,102 680,480 680,480 687,685 637,685 647,530 656,706 5437,627 413,625 545,847 413,463 545,252 544,116 612,156 558,847 481,629 644,135 561,137 69,207 83,940 86,334 110,076 86,354 110,076 86,374 110,076 100,047	429, 391 407, 623 644, 312 680, 904 724, 830 720, 940 446, 312 609, 600 363, 112 669, 600 363, 449 428, 353 559, 105 653, 505 613, 075 614, 463 367, 407 491, 108 561, 900 478, 311 66, 942 77, 270 85, 309 171, 755 87, 399 171, 775 87, 399 173, 778 778, 816 88, 348 378, 349 377, 379 377, 379	433, 541 516, 161 650, 785 661, 003 706, 940 718, 463 707, 237 451, 463 707, 237 451, 540, 800 640, 914 888, 643 366, 889 441, 814 563, 466 5400, 818 500, 818 500, 818 500, 818 503, 185 613, 020 60, 250 548, 491 490, 250 548, 491 106, 887 80, 990 90, 544 549, 544 540, 544 540, 544 540, 544 550, 554 560, 554 560	427, 407 519, 586 682, 258 682, 657 710, 055 682, 207 674, 409 450, 352 456, 264 663, 747 664, 264 663, 747 560, 188 444, 009 555, 240 574, 408 574, 360 574, 468 377, 789 496, 414 543, 307 76, 877 88, 968 92, 480 115, 017 107, 857 100, 001 135, 145 100, 001 135, 145 100, 001 100, 001	403, 684 627, 183 621, 187 684, 235 705, 173 715, 201 615, 306 409, 866 596, 109 644, 237 596, 109 644, 337 339, 008 401, 537 572, 412 562, 082 689, 773 605, 208 689, 773 605, 208 689, 773 605, 508 64, 076 75, 546 99, 015 504, 901 555, 566 99, 015 504, 901 115, 600 92, 163 115, 400 92, 163 115, 400 110, 001 92, 603 82, 608 91, 208 110, 001 100, 001 1	402, 858 546, 627 646, 825 646, 825 646, 825 646, 825 646, 825 646, 825 642, 825 642, 825 642, 825 642, 825 642, 924 642, 924 644, 944 644, 944, 944, 944, 944, 944, 944, 944,
1923 1924	8, 701 9, 125	100, 952 96, 005	90. 8 88. 7	94, 218 97, 828	98, 582 100, 698	102, 663	102, 806 99, 377	95, 602	92, 751	89, 721	91, 579	97,041	99,012	97,807	96, 722

TABLE 4 .--- WAGE EARNERS: ALL MANUFACTURES

1 Arithmetic average of the 12 months.

GENERAL TABLES

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	Number	Average	Per cent	,				N	lumber en	iployed in-					
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	Pebruary	March	April	Мву	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914 1915 1916 1917 1918 1919 1921 1922 1923 1924 1925 1924 1925 1924 1916 1917 1918 1918 1919 1921 1922 1923 1914 1918 1919 1921 1922 1923 1924 1925 1926 1921 1922 1923 1924 1924 1924 1924 1924	247 301 817 340 861 309 411 360 873 882 892 247 801 317 340 361 349 411 300 363 892 892 247 301 307 340 873 349 411 300 873 349 892 892 892 892 892 892 892 89	10, 770 12, 218 14, 713 16, 826 14, 922 20, 340 14, 968 16, 999 18, 903 18, 905 9, 540 10, 916 13, 327 16, 192 16, 753 17, 000 18, 905 13, 312 16, 988 16, 998 11, 299 12, 302 1, 299 12, 302	89.9 84.8 90.0 91.1 91.9 80.9 76.4 87.8 90.4 87.8 90.4 87.8 90.1 84.6 90.1 84.6 90.1 84.6 90.5 77.5 77.7 89.0 90.8 88.9 90.8 84.8 90.0 90.1 84.8 90.0 90.1 90.9 84.8 90.0 90.1 90.9 84.8 90.0 90.1 90.9 84.8 90.0 90.1 90.9 84.8 90.0 90.1 90.9 84.8 90.0 90.9 76.4 85.8 90.0 90.1 90.9 84.8 90.0 90.9 76.4 85.8 90.0 90.8 90.8 90.8 90.8 90.8 90.8 90	10, 915 11, 410 13, 825 15, 777 18, 009 19, 833 30, 347 15, 643 16, 015 18, 672 17, 978 9, 007 10, 183 12, 331 14, 174 16, 3028 17, 956 14, 003 14, 478 16, 791 16, 232 11, 257 11, 25	10, 915 11, 509 14, 144 16, 156 18, 224 18, 773 20, 18, 224 18, 773 20, 18, 224 18, 356 10, 322 18, 356 10, 322 12, 563 10, 324 14, 563 10, 324 14, 563 10, 349 14, 722 16, 569 14, 722 16, 569 14, 722 16, 569 14, 722 16, 569 16, 775 16, 77	11, 253 11, 832 14, 581 16, 864 19, 221 18, 125 15, 156 16, 374 19, 304 10, 525 13, 103 15, 209 17, 249 15, 810 16, 209 17, 249 15, 810 17, 270 1, 352 1, 327	11, 355 12, 069 14, 766 16, 719 19, 028 17, 637 20, 028 17, 637 20, 028 14, 812 16, 612 10, 061 18, 978 10, 031 10, 756 16, 973 15, 380 16, 973 15, 380 16, 973 15, 380 16, 973 15, 380 16, 973 17, 107 17, 107 17, 107	10, 997 11, 924 14, 509 18, 509 18, 500 18, 140 20, 074 14, 435 16, 605 19, 174 16, 605 18, 461 9, 714 10, 653 18, 461 9, 714 10, 653 15, 849 17, 754 16, 108 14, 929 17, 126 16, 61 1, 283 1, 372	10, 737 11, 864 14, 807 16, 011 18, 609 18, 085 20, 022 14, 197 16, 435 14, 197 17, 839 9, 480 10, 594 13, 343 16, 332 10, 386 14, 797 17, 159 16, 115 1, 248 1, 270	10, 558 11, 889 14, 007 16, 888 19, 187 19, 715 21, 386 14, 068 14, 068 14, 068 14, 068 14, 068 14, 068 16, 883 10, 177 16, 874 9, 376 10, 611 15, 170 15, 220 16, 891 17, 164 18, 568 12, 492 15, 156 17, 277 16, 182 1, 182 1, 278	10, 574 12, 089 14, 976 17, 185 19, 377 20, 571 21, 418 14, 498 17, 209 10, 380 17, 166 9, 406 10, 870 13, 467 15, 614 17, 063 18, 221 16, 520 17, 449 15, 520 17, 449 16, 520 16, 520 17, 449 16, 520 17, 449 17, 449 14, 520 17, 449 16, 520 17, 449 16, 520 17, 449 16, 520 17, 449 17, 449 18, 520 18, 520 17, 449 18, 520 19, 520	11, 240 13, 069 15, 364 17, 311 10, 459 21, 809 21, 809 21, 809 21, 809 16, 496 17, 710 10, 539 18, 117 10, 012 11, 760 18, 943 15, 700 19, 346 10, 016 13, 963 15, 700 19, 346 10, 012 11, 7620 16, 474 1, 329	10, 210 12, 562 14, 886 17, 080 19, 104 20, 404 20, 40, 404 20, 40, 404 20, 404 20, 404 20, 40	10, 270 12, 844 14, 913 17, 142 19, 140 20, 003 19, 140 20, 003 19, 140 20, 003 19, 140 15, 559 17, 964 18, 200 15, 559 16, 439 16, 550 17, 478 14, 438 16, 550 17, 478 16, 550 17, 478 16, 550 17, 478 16, 003 16, 003 17, 007 13, 007 16, 003 16, 003 16, 003 16, 003 16, 003 16, 003 16, 003 17, 007 13, 007 16, 003 16, 00	10, 324 13, 452 16, 273 17, 178 19, 601 19, 126 10, 472 16, 174 18, 236 17, 922 9, 180 12, 038 13, 087 15, 434 13, 087 16, 204 16, 204 16, 304 1, 144 1, 414
1916	217 340 851 369 411 360 373 882 392	1, 476 1, 634 2, 221 2, 422 2, 275 1, 656 1, 721 1, 949 1, 702	88.3 87.8 83.0 87.1 65.7 83.0 77.9 88.0 79.5	1, 494 1, 603 1, 648 2, 425 2, 391 1, 540 1, 537 1, 881 1, 739	1, 497 1, 623 1, 949 2, 275 2, 379 1, 646 1, 678 2, 020 1, 776	1, 478 1, 655 2, 002 2, 316 2, 415 1, 665 1, 574 2, 034 1, 648	1, 443 1, 660 2, 055 2, 257 2, 343 1, 670 1, 627 1, 999 1, 814	1, 442 1, 695 2, 146 2, 291 2, 320 1, 605 1, 636 2, 053 1, 780	1, 464 1, 579 2, 223 2, 480 2, 382 1, 632 1, 638 1, 961 1, 714	1, 428 1, 659 2, 206 2, 651 2, 498 1, 576 1, 727 1, 900 1, 485	1,409 1,531 2,314 2,590 2,424 1,631 1,749 1,943 1,943 1,871	1,401 1,611 2,439 2,464 2,282 1,684 1,768 1,910 1,643	1,404 1,643 2,473 2,529 2,277 1,835 1,881 1,025 1,679	1, 674 1, 703 2, 590 2, 525 1, 943 1, 772 1, 961 1, 930 1, 690	1,580 1,744 2,522 2,357 1,641 1,617 1,973 1,819 1,819

TABLE 5.-WAGE EARNERS: CHEMICALS AND ALLIED PRODUCTS

¹ Arithmetic average of the 12 months.

50 VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

TABLE 6 .--- WAGE EARNERS: IRON AND STEEL AND THEIR PRODUCTS

6		Number	Average	Per cent					Ŋ	lumber en	uployed in-					
30°-30	Year	of estab- lishments reporting	number of em- ployees 1	amploy- ment is of maxi- mum	January	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
Ţ	All employees: 1914	1, 245 1, 394 1, 693 1, 683 1, 683 1, 687 1, 797 1, 613 1, 647 1, 613 1, 647 1, 647 1, 245 1, 394 1, 440 1, 683 1, 687 1, 797	151, 137 171, 883 237, 345 242, 605 242, 605 248, 187 151, 257 188, 847 188, 847 188, 847 188, 847 188, 847 188, 847 188, 187 188, 187 188, 187 188, 187 238, 036 245, 732 259, 732 259, 732 259, 732	78.3 70.0 81.8 94.6 95.1 79.8 78.2 69.4 60.9 89.0 78.0 78.0 78.1 69.8 81.9 96.3 79.5 78.4	158, 945 141, 309 210, 216 256, 851 200, 471 278, 706 184, 932 140, 990 221, 850 238, 360 155, 944 138, 455, 944 236, 607 238, 578 249, 634 255, 005	158, 703 140, 012 222, 857 257, 355 261, 611 247, 464 277, 873 150, 209 247, 809 245, 809 245, 809 245, 803 246, 810 255, 803 249, 703	161, 957 165, 543 264, 432 267, 384 289, 715 284, 009 162, 415 244, 007 162, 415 244, 007 162, 912 257, 771 162, 97 265, 912 257, 511 251, 519 252, 080	164, 746 161, 342 250, 770 257, 134 252, 252 252, 635 374, 824 154, 824 154, 824 154, 824 154, 824 155, 256, 833 255, 783 255, 833 225, 243 225, 243 225, 243 225, 243	155, 634 163, 792 232, 392 292, 900 298, 388 232, 842 290, 073 152, 142 162, 914 245, 406 152, 560 152, 560 152, 560 152, 560 201, 336 226, 739 256, 739	157, 424 177, 416 240, 106 253, 787 275, 329 254, 843 275, 016 145, 478 249, 272 166, 278 249, 272 166, 278 166, 278 168, 203 266, 438 259, 416 277, 639 276, 439	152, 719 173, 035 235, 434 201, 709 273, 151 245, 578 123, 310 197, 611 243, 608 192, 601 149, 763 170, 753 250, 664 125, 609 294, 385 239, 601 294, 885	148, 204 178, 299 243, 849 243, 849 243, 849 243, 849 243, 841 273, 841 201, 783 244, 646 196, 000 145, 846 1175, 141 256, 926 266, 821 246, 632 246, 632	147, 762 184, 823 246, 122 246, 298 247, 639 279, 608 137, 489 201, 412 240, 148 199, 627 144, 953 181, 664 241, 171 144, 953 181, 664 246, 234 184, 664 246, 234 184, 664	143, 908 186, 112 246, 564 270, 901 273, 485 209, 665 209, 161 142, 968 211, 385 228, 263 211, 385 228, 263 211, 385 228, 263 241, 529 241, 529 241, 529 243, 494 201, 848 201, 852	128, 924 1901, 441 263, 715 271, 563 270, 790 236, 911 236, 911 236, 911 236, 911 236, 911 245, 946 200, 524 244, 426 200, 524 248, 535 246, 581 266, 581 266, 581 266, 514 226, 180 242, 200	134, 609 201, 972 257, 017 256, 965 255, 965 259, 952 259, 952 223, 040 147, 796 231, 340 220, 022 213, 744 131, 979 198, 428 259, 859 256, 312 259, 859 256, 312 251, 840 256, 874
	1921 1922 1923 1923 1824	I, 667 I, 613 I, 647 I, 673	146, 808 183, 573 230, 953 208, 929	69.2 60.9 89.1 79.1	179, 743 137, 155 215, 249 231, 800	167, 735 148, 075 220, 815 236, 503	157, 528 159, 700 233, 633 237, 106	149, 961 166, 975 231, 671 229, 688	147, 597 177, 774 237, 812 213, 159	141, 120 189, 690 241, 620 187, 468	124, 462 192, 001 236, 272 187, 472	131, 450 196, 060 239, 340 191, 278	133, 430 195, 689 233, 819 193, 875	138, 758 205, 529 231, 464 197, 113	146, 372 211, 191 227, 788 194, 317	143, 542 225, 032 222, 566 207, 375
	Females: 1914 1915 1917 1917 1919 1919 1920 1920 1922 1922 1922 1924	1, 245 1, 394 1, 490 1, 583 1, 635 1, 687 1, 67 1, 613 1, 647 1, 673	2, 061 3, 163 4, 609 5, 908 7, 966 7, 966 7, 913 4, 449 5, 274 7, 083 6, 206	81.2 80.5 72.6 87.4 81.5 70.7 73.3 60.7 84.5 77.0	3, 001 2, 853 3, 701 7, 227 5, 466 8, 841 8, 188 5, 260 3, 835 6, 601 6, 590	3, 128 2, 903 4, 032 6, 536 5, 618 7, 761 8, 153 4, 858 4, 224 6, 901 6, 904	3, 238 3, 046 4, 129 6, 601 8, 805 7, 635 8, 563 4, 885 4, 885 4, 459 7, 270 6, 961	8, 235 3, 092 4, 327 6, 336 7, 359 7, 359 7, 359 4, 734 4, 723 7, 497 6, 615	3,074 3,140 4,804 4,871 7,052 7,300 8,314 4,545 5,140 7,503 6,197	3, 045 3, 213 4, 668 5, 135 7, 913 7, 204 8, 524 4, 327 5, 588 7, 652 5, 821	2, 926 3, 162 4, 763 5, 063 8, 766 7, 516 8, 848 6, 510 7, 306 5, 429	2, 858 3, 168 4, 839 5, 358 9, 070 7, 811 8, 020 3, 961 5, 723 7, 306 5, 382	2,820 3,160 4,961 5,973 9,438 7,836 7,787 4,059 5,723 6,827 5,752	2,839 3,283 6,038 6,511 9,091 7,757 7,479 4,200 5,856 6,788 6,167	2,734 3,414 5,183 5,770 10,276 8,031 6,881 6,4473 6,194 6,442 6,207	2, 630 3, 544 5, 024 5, 462 9, 653 8, 136 6, 075 4, 253 6, 314 6, 468 6, 309

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Arithmetic average of the 12 months,

GENERAL TABLES

×	Number	A Verage	Per cent	Ī				N	lamper em	ployed in-	<u></u>				
Year	of estab- lishments reporting	number of sup ployees 1	employ- ment is of maxi- mum	January	February	March	April	Мау	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1915 1914 1923 1924 1915 1916 1917 1918 1914 1915 1914 1915 1914 1915 1914 1915 1914 1915 1917 1923 1924 1925 1924 1923 1924 1915 1916 1917 1918 1919 1920 1921 1921 1922 1924	15 22 23 23 25 23 25 23 25 25 25 25 25 25 25 25 25 25 25 25 25	2,636 4,006 5,167 5,490 5,383 5,533 5,518 4,503 5,518 4,503 5,518 4,503 5,518 4,503 4,507 5,505 7,71 7,47 5,575 5,57	77.43 94.20 95.02 95.03	2,705 3,309 4,604 5,633 5,6107 2,747 5,278 2,225 4,409 2,225 4,402 4,527 4,403 4,527 4,403 4,526 4,5277 4,5277 4,5277 4,5277 4,5277 4,5277 4,52777 4,52777777777777777777777777777777777777	2,759 3,457 4,574 5,959 5,413 5,414 5,415 5,413 5,414 5,415 5,413 5,414 5,415 5,414 5,415 5,59 5,59 5,59 5,59 5,59 5,59 5,59 5,	214 2531 2533 2555 2555 2555 2555 2555 2555	2,859 3,900 5,842 5,539 5,847 5,497 5,497 5,497 5,497 5,497 5,497 5,497 5,497 5,497 5,497 5,497 5,538 5,818 4,619 5,848 4,619 5,848 4,619 5,848 4,619 5,848 4,619 5,848 4,619 5,848 4,619 5,848 4,619 5,848 4,619 5,848 4,619 5,848 4,619 5,8495,849 5,849 5,849	2, 722 4, 786 4, 963 5, 534 5, 535 5, 5355 5, 535555555555	2,689 4,083 5,150 5,600 5,140 5,160 5,160	2, 661 3, 673 5, 143 5, 476 6, 042 7, 6, 618 2, 653 4, 984 5, 377 5, 618 2, 653 4, 984 5, 377 5, 114 4, 337 5, 114 4, 731 2, 202 4, 161 4, 731 2, 202 4, 161 4, 731 4, 732 4, 731 4, 731 4, 733 4, 731 4, 733 4, 731 4, 733 4, 735 4, 735 4, 737 4,	2, 659 3, 905 6, 224 5, 652 5, 653 2, 5, 653 2, 884 5, 663 2, 286 5, 663 2, 286 5, 663 2, 286 5, 663 3, 839 2, 205 3, 839 2, 205 3, 839 4, 430 4, 430 4, 4773 4, 963 4, 825 4, 775 6, 2, 440 4, 425 4, 775 6, 2, 440 4, 476 7, 3, 225 7, 39 4, 775 6, 755 7, 39 4, 775 6, 755 7, 75	$\begin{array}{c} 2,574\\ 4,055\\ 5,367\\ 5,358\\ 5,858\\ 5,747\\ 6,078\\ 2,872\\ 5,232\\ 5,232\\ 5,232\\ 5,356\\ 4,121\\ 2,141\\ 2,141\\ 2,141\\ 4,854\\ 4,507\\ 4,881\\ 4,507\\ 4,881\\ 4,507\\ 4,864\\ 3,456\\ 4,705\\ 2,390\\ 4,367\\ 4,403\\ 3,412\\ 433\\ 599\\ 706\\ 7661\\ 833\\ 883\\ 883\\ 883\\ 885\\ 860\\ 709\\ \end{array}$	2,500 4,170 5,323 5,988 4,491 5,771 5,396 5,397 1,4,596 5,397 1,4,597 5,396 5,397 5,396 5,396 5,396 5,396 5,396 5,396 5,396 5,397 5,396 5,397 5,	2, 307 4, 256 5, 661 5, 504 5, 364 5, 364 5, 364 5, 364 5, 364 5, 364 5, 364 5, 364 4, 357 4, 357 4, 367 4, 427 4, 565 2, 652 2, 652 2, 652 2, 652 3, 600 610 816 771 1, 000 873 856 673 856 673 856 673	2,276 4,504 5,366 6,027 5,469 5,424 2,972 5,111 4,594 1,881 3,851 4,922 4,550 5,009 5,0000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000

TABLE 7 .--- WAGE EARNERS: IBON AND STEEL-BOLTS, NUTS, WASHERS, AND RIVETS

Arithmetic average of the 12 months,

83 VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

TABLE 8	WAGE	EARNERS:	IRON	AND	STEEL-	-SCREWS,	MACHINE	AND	WOOD
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Q	Nomber	A varaDa	Per cent					И	lumber en	ployed in-				****	
Year	of estab- lishments reporting	number of em- ployees !	employ- ment is of maxi- mum	January	February	March	April	Мау	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees:	8	1, 740	78.5	1, 835	1, 822	1, 889	1, 925	1, 815	1, 739	1, 728	1, 661	1, 527	1, 511	1, 608	1, 818
1913 1913 1917 1918 1919 1920 1921 1922 1923 1924	3 7 3 5 5 4 5 6	611 758 535 762 741 338 468 790 517	80.6 79.8 84.9 76.8 60.7 56.5 47.3 72.9 56.4	543 661 498 636 810 394 268 785 546	560 738 484 706 878 415 316 852 653	579 799 537 717 905 438 417 806 643	611 804 545 771 802 469 475 838 597	588 828 556 757 821 331 458 765 511	658 791 546 748 760 332 499 707 468	616 812 570 760 746 285 520 907 368	663 739 549 805 745 287 532 822 450	674 738 553 797 659 280 567 785 481	651 741 523 821 620 283 506 720 481	653 742 544 708 586 265 586 265 501 680 479	627 706 524 828 549 275 543 661 520
Males: 1914 1915 *	8	I, 534	77.4	1, 623	1, 603	1, 668	1, 707	1, 611	1, 529	1, 504	1, 453	1, 340	1, 321	1, 419	1, 630
1916 1917 1918 1920 1920 1921 1922 1922 1922 1924	37 35 55 45 56 6	451 513 316 483 471 239 320 527 331	80.0 81.7 84.5 74.8 62.0 67.2 52.1 76.9 67.5	422 487 295 404 525 264 200 553 338	404 543 284 439 544 267 242 543 400	432 575 305 433 568 285 280 581 388	458 545 314 484 518 209 314 569 369	438 547 315 491 518 259 319 542 326	417 505 332 470 460 247 343 514 309	455 519 826 482 475 211 348 578 270	488 470 317 534 475 214 369 553 293	503 472 325 540 430 208 384 510 310	475 501 321 492 398 213 851 474 318	450 513 336 499 378 202 330 456 312	463 494 328 523 352 201 355 447 343
1914 1915 *	8	206	83.9	212	219	223	218	204	210	219	208	187	190	189	188
1910. 1917	878554 5666	100 245 219 279 270 99 148 263 187	05. 0 59. 4 80. 0 70. 5 58. 5 37. 1 36. 2 65. 0 38. 4	121 174 203 232 285 130 68 232 205	100 195 200 267 334 148 74 309 253	147 224 232 284 337 153 137 285 265	259 231 287 284 170 161 269 230	130 281 241 266 303 72 139 223 185	141 286 214 269 294 85 156 283 159	293 245 278 277 178 329 98	269 232 271 270 73 164 269 167	139 206 228 257 229 72 183 275 171	240 202 829 222 70 155 246 168	229 208 209 208 63 171 224 167	222 196 305 197 74 188 214 177

¹ Arithmetic average of the 12 months.

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* Figures not obtainable.

GENERAL TABLES

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TABLE	9.—WAGE	EARNERS:	FOOD	AND	KINDRED	PRODUCTS

	Number	Average	Per cent minimum					м	lumber en	ployed in-	_				
Year	of estab- lishments reporting	number of em- ployees i	employ- ment is of maxi- mom	January	February	Marab	April	Мау	June	Jul y	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914	805 1.1982 1.364 1.364 1.364 1.364 1.364 1.364 1.364 1.364 1.364 1.364 1.366 1.233 1.366 1.238 1.366 1.328 1.366 1.328 1.366 1.328 1.366 1.328 1.366 1.328 1.366 1.328 1.366 1.328 1.366 1.328 1.366 1.328 1.366 1.328 1.366 1.328 1.366 1.328 1.366 1.328 1.328 1.366 1.3288 1.3288 1.3288 1.3288 1.3288 1.3288 1.3288 1.3288 1.	17, 855 21, 674 24, 674 27, 933 30, 335 28, 058 28, 336 28, 335 28, 335 29, 355 20, 904 21, 670 21, 799 22, 852 4, 490 4, 891 5, 496 6, 131 7, 750 7, 546 6, 259 6, 259 6, 472	72.4 73.4 77.9 76.5 77.9 76.5 77.9 76.5 77.9 76.5 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77	15, 681 19, 403 24, 124 25, 030 26, 138 26, 048 26, 048 26, 048 27, 048 27, 048 27, 048 27, 048 27, 048 27, 048 27, 048 27, 048 22, 048 3, 707 4, 014 4, 404 4, 400	15,926 19,224 21,750 25,343 27,565 25,545 26,545 26,5555 26,5555 26,5555 26,5555 26,5555 26,5555 26,5555 26,5555 26,5555 26,5555 26,55555 26,55555 26,555555 26,5555555555	16, 220 19, 015 21, 233 25, 536 25, 551 25, 555 25, 551 25, 555 25, 452 25, 452 26, 555 19, 775 20, 897 20, 807 20, 80	15, 997 18, 552 22, 024 23, 864 25, 865 24, 520 25, 375 26, 375 26, 375 26, 375 26, 375 27, 597 12, 328 14, 491 17, 185 20, 239 20, 250 20,	16, 069 18, 858 224, 111 27, 973 25, 286 25, 754 12, 256 26, 754 27, 933 25, 286 26, 754 27, 933 25, 286 26, 754 27, 933 25, 286 26, 754 27, 933 25, 286 26, 754 27, 933 26, 286 26, 754 27, 933 26, 286 26, 754 27, 933 26, 286 26, 754 27, 12, 296 26, 754 27, 12, 296 20, 377 19, 753 20, 377 19, 753 26, 266 26, 254 26, 254 27, 14, 759 20, 377 26, 368 26, 554 26, 554 26, 554 27, 14, 759 20, 377 26, 368 26, 554 26, 554	17, 320 320 330, 522 35, 523 35, 524 35, 544 35, 545 35, 544 35, 545 35, 555 35, 555, 55	17, 262 20, 176 23, 190 25, 760 27, 352 26, 735 26, 735 26, 736 28, 782 29, 534 28, 782 29, 534 13, 146 15, 704 18, 153 20, 770 21, 364 21, 168 22, 574 23, 437 4, 116 5, 739 6, 555 7, 635 5, 750 6, 208 6, 097	18, 958 21, 776 25, 056 32, 248 32, 128 32, 248 32, 128 32, 248 32, 128 32, 128 34, 128, 128 34, 12834, 128 34, 128 34, 12834, 128 34, 128 34, 12834, 128 34, 128, 128, 128, 128, 128, 128, 128, 128	22,008 25,263 28,184 30,755 31,502 35,224 36,376 31,725 35,283 33,668 15,334 15,334 15,334 15,639 21,022 22,774 24,045 26,432 24,005 23,611 26,446 26,138 6,674 6,613 7,981 8,706 8,607 8,607 8,607 8,640	21, 402 23, 638 27, 418 29, 921 20, 811 33, 33, 600 30, 510 33, 236 33, 205 33, 236 33, 236 34, 650 24, 367 34, 367 35, 367 35, 367 36, 367 36, 367 36, 367 36, 367 36, 367 36, 367 37, 365 37, 377 37, 377 37	19,062 23,237 27,165 28,224 28,224 28,224 29,833 31,321 29,833 31,325 30,250 14,221 17,522 20,427 21,721 24,558 22,558 24,553 24,553 24,553 24,553 24,553 24,553 24,553 24,553 25,758 5,775 5,7251 7,380 5,7158 5,77555 5,77555 5,77555 5,775555 5,7755555555	17, 968 22, 631 25, 220 26, 183 28, 483 28, 488 26, 289 30, 581 30, 302 29, 036 13, 775 17, 300 19, 330 21, 433 22, 027 23, 650 21, 924 23, 864 23, 472 24, 193 5, 880 5, 880 5, 7677 7, 8777 5, 223 6, 376 5, 586 5, 6564

⁴ Arithmetic average of the 12 months,

	Nomber	Avernet	Per cent					Ň	lumber en	ployed in-	-				
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	Aprii	Мау	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914 1915	269 366	4, 516 5, 278	94. 8 93. 4	4, 391 5, 215	4, 521 5, 217	4, 558 5, 216	4, 445 5, 116	4, 462 5, 253	4, 549 6, 302	4, 508 5, 287	4, 484 5, 217	4, 630 5, 287	4, 589 8, 322	4, 557 5, 478	4, 502 5, 429
1910 1917 1918 1919 1920 1921 1922 1922 1922 1924	407 403 451 371 367 377 421	6, 320 6, 412 7, 078 6, 302 7, 109 7, 823 7, 772	88.0 90.3 93.5 92.9 69.5 86.4 96.9	5, 903 6, 159 6, 927 6, 193 6, 268 7, 249 7, 671	5, 947 6, 164 6, 926 6, 177 6, 363 7, 387 7, 806	5, 928 6, 196 6, 955 6, 229 0, 408 7, 558 7, 872	5, 890 6, 129 6, 975 6, 078 6, 418 7, 471 7, 779	6, 255 6, 233 7, 090 6, 094 6, 416 7, 626 7, 713	6, 444 6, 416 7, 369 0, 315 6, 680 7, 870 7, 866	6, 571 6, 557 7, 331 6, 367 6, 778 8, 002 7, 755	6, 521 6, 456 7, 118 6, 311 6, 496 7, 781 7, 629	6, 504 6, 551 6, 976 6, 403 6, 708 8, 039 7, 874	6, 632 6, 563 7, 175 6, 465 8, 779 8, 279 7, 747	6, 502 6, 734 7, 206 6, 541 8, 975 8, 387 7, 844	6, 691 6, 787 6, 889 0, 451 9, 015 8, 226 7, 713
Males: 1914 1915 1918 4	269 366	3, 504 8, 912	95. 8 93. 9	3, 431 3, 913	3, 534 3, 895	3, 667 3, 904	3, 439 3, 810	3, 461 3, 868	3, 804 3, 892	3, 456 3, 907	3, 485 3, 853	3, 582 3, 895	8, 528 3, 910	3, 536 _ 4, 057	8, 521 4, 034
1917 1 1918	407 403 451 371 367 377 421	4, 449 4, 639 5, 219 4, 768 5, 504 6, 028 5, 860	94. 1 90. 7 94. 4 02. 8 68. 4 87. 2 96. 4	4, 391 4, 454 5, 092 4, 683 4, 823 5, 654 5, 844	4, 422 4, 450 5, 101 4, 661 4, 860 5, 689 5, 921	4, 398 4, 491 5, 061 4, 682 4, 853 5, 773 5, 960	4, 288 4, 456 5, 135 4, 583 4, 893 5, 726 5, 859	4, 353 4, 537 5, 227 4, 628 4, 874 5, 833 5, 744	4, 467 4, 606 5, 361 4, 747 5, 060 5, 990 5, 876	4, 518 4, 694 5, 350 4, 803 5, 110 6, 101 5, 834	4, 527 4, 680 5, 229 4, 813 4, 994 6, 009 5, 810	4, 508 4, 747 5, 194 4, 940 5, 070 6, 257 5, 907	4, 558 4, 781 6, 283 4, 889 7, 060 6, 349 5, 817	4, 490 4, 857 5, 356 4, 034 7, 190 6, 485 5, 901	4, 460 4, 904 5, 235 4, 849 7, 262 6, 457 5, 837
1914. 1915. 1915 -	269 366	1, 012 1, 367	90. 5 91. 6	960 1, 802	087 1, 322	991 1, 812	1, 006 1, 306	1, 001 1, 385	1, 045 1, 410	1,049 1,380	999 1, 364	1, 048 1, 392	1, 061 1, 412	1, 021 1, 421	981 1, 395
1917 7 1918 1919 1920 1920 1922 1922 1923	407 403 461 371 367 377 421	1, 871 1, 774 1, 859 1, 634 1, 605 1, 795 1, 913	63.0 88.8 82.4 91.0 81.0 82.6 91.1	1, 512 1, 705 1, 835 1, 610 1, 415 1, 595 1, 827	1, 525 1, 714 1, 825 1, 616 1, 603 1, 698 1, 885	1, 528 1, 705 1, 894 1, 546 1, 655 1, 785 1, 912	1, 602 1, 673 1, 840 1, 495 1, 525 1, 745 1, 920	1, 902 1, 696 1, 863 1, 466 1, 542 1, 793 1, 969	1,977 1,810 2,008 1,668 1,626 1,871 1,871 1,990	2,055 1,863 1,981 1,564 1,668 1,901 1,901 1,921	1,994 1,770 1,889 1,498 1,502 1,772 1,813	1, 996 1, 804 1, 782 1, 463 1, 638 1, 782 1, 967	2,074 1,782 1,892 1,576 1,719 1,930 1,930	2,066 1,877 1,850 1,607 1,785 1,902 1,943	2, 222 1, 883 1, 654 1, 602 1, 753 1, 769 1, 876

TABLE 10.-WAGE EARNERS: FOOD-BAKERY PRODUCTS

¹ Arithmetic average of the 12 months.

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[‡] Figures not obtainable.

GENERAL TABLES

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TABLE 11.-WAGE EARNERS: FOOD-CANNING AND PRESERVING

Year	Number of estab- lishments reporting	A verage number of am- ployees 1	Per cent minimum employ- ment is of maxi- mum	Number employed in											
				January	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1014	80 902 92 93 93 95 95 95 90 90 90 90 90 90 90 90 90 90 90 90 90	I, 808 1, 709 1, 709 1, 711 2, 015 1, 783 1, 673 1, 673 1, 673 1, 673 1, 279 1, 479 1, 700 1, 700 1, 608 1, 048 1, 048 1, 048 1, 048 1, 048 1, 048 1, 057 820 820 820 840 840 840 840 840 840 840 840 840 84	12.7 10.5 12.2 10.7 9.2 8.2 9.2 8.2 9.2 10.2 9.2 10.7 14.2 9.2 9.2 10.2 9.2 10.7 11.1 13.4 11.3 11.5 10.5 10.5 10.7	719 603 611 607 627 755 617 326 464 464 464 405 405 416 405 416 406 435 514 429 2254 312	633 500 505 584 738 561 738 561 301 301 637 056 707 349 391 402 414 412 414 412 414 409 289 2350	700 717 649 735 649 594 600 751 888 458 458 458 458 458 458 458 458 458	684 744 688 831 750 815 714 508 603 676 821 406 627 402 634 528 644 644 818 818 8305	758 857 701 907 888 1,066 ,841 759 702 755 881 494 4508 538 606 638 638 636 748 632 530 547	1,649 1,832 1,356 1,571 2,850 2,748 1,791 1,937 1,856 2,413 1,856 2,413 1,385 1,148 917 1,076 1,975 1,950 1,204 1,385	1,716 1,883 1,386 1,682 1,539 1,539 1,539 1,539 1,395 1,395 1,395 1,395 1,012 990 1,403 1,012 1,012 900 1,403 1,037 1,022 1,218 640	3,037 2,1932 2,635 1,972 4,742 3,365 2,523 2,611 3,089 3,000 1,745 1,880 1,880 1,304 1,304 1,304 1,505 2,164 1,505 2,164 1,505 2,065 1,505 2,008	5, 128 5, 500 4, 863 5, 442 6, 029 6, 102 6, 103 6, 102 6, 102 6, 102 6, 102 6, 102 6, 103 6, 103 7, 104 7, 105 7,	8, 631 2, 626 3, 338 2, 866 3, 338 2, 843 2, 371 1, 997 2, 145 2, 731 1, 697 2, 731 1, 676 1, 668 1, 678 1, 684 1, 685 1, 684 1, 685 1,	1,806 1,430 1,450 1,653 1,653 1,653 1,653 1,653 1,653 1,653 1,374 1,365 1,082 1,369 1,369 1,369 1,369 1,369 1,369 1,369 1,369 1,365 1,034 1,034 1,034 1,034 1,034 1,035	916 983 751 905 1,004 830 687 811 838 898 898 898 898 898 680 609 622 735 552 680 609 622 735 558 558 558 558 558 558 558 558 558 5
1923. 1924. Famales:	62 85	1, 105 934	9.5 14.5	867 423	421 432	438 475	457 556	526 601	1, 622 787	917 1, 192	2,023 1,052	3, 878 2, 926	1,271 1,584	818 709	625 476
1914	80 90 92 93 89 85 77 77 82 85	811 600 500 508 720 630 630 638 406 514 595 638	11.5 9.22 7.12 5.7 5.5 9.8 10.9 12.8	844 187 210 201 192 941 188 72 152 215 206	804 100 193 172 170 258 152 102 187 235 275	372 239 230 196 192 174 129 103 227 276	278 217 196 107 222 171 196 143 170 218 265	814 200 163 211 252 318 209 220 215 229 280	616 084 439 405 875 875 875 587 589 521 791 500	795 576 360 586 595 537 770 344 480 478 746	1, 170 878 775 578 1, 697 1, 191 926 816 1, 031 1, 067 693	2, 414 2, 005 1, 769 1, 867 2, 378 2, 074 2, 361 1, 316 1, 039 1, 078 2, 009	1, 955 1, 057 1, 008 1, 354 1, 031 1, 031 1, 088 555 830 874 1, 147	772 819 411 6500 551 475 613 320 402 462 660	\$04 303 242 343 329 278 135 268 288 373 417

¹ Arithmetic average of the 12 months,
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TABLE 12 .-- WAGE EARNERS: FOOD-CONFECTIONEBY

¹ Arithmetic average of the 12 months.

٠

GENERAL TABLES

×	Number	Average	Per cent					r	vumber en	iployed in-					
Year	of estab- lishments reporting	number of em- ployees ¹	employ- ment is of maxi- mum	January	February	March	Åpril	May	June	lalà	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914 1915 1916 1918 1917 1918 1919 1929 1922 1922 1924 1924 1914 1914 1914 1922 1924 1914 1916 1918 1918 1918 1918 1918 1918 1918 1929 1922 1924 1925 1924 19	162 174 161 166 168 158 144 138 145 152 174 146 160 160 161 156 144 138 145 146 156 156 156 156 156 156 156 156 156 15	17, 735 17, 745 17, 745 16, 845 17, 750 16, 945 15, 947 14, 875 16, 043 11, 4875 16, 043 11, 4875 16, 043 11, 225 11, 216 11, 225 11, 316 10, 677 11, 253 10, 781 9, 655 9, 025 6, 130 6, 356 6, 439 9, 025 6, 149 6, 278 6, 634 6, 5310 6, 53	79.6 88.4 94.7 90.12 93.8 63.7 70.1 91.8 89.0 89.4 94.6 72.2 85.8 64.6 773.2 85.8 64.6 773.2 85.8 64.6 773.2 85.8 64.7 784.8 77.5 84.8 77.6 84.8 77.6 84.8 77.6 84.8 77.6 84.8 77.6 84.8 77.6 85.8 85.8 77.5 85.8 85.4 85.8 77.5 85.8 85.4 77.5 85.8 85.4 77.5 85.8 85.4 77.5 85.8 85.4 77.5 85.8 85.4 77.5 85.8 85.4 77.5 85.8 85.4 85.7 77.5 85.8 85.4 77.5 85.8 85.4 85.8 77.5 85.8 85.4 85.7 77.5 85.8 85.4 77.5 85.8 85.4 77.5 85.8 85.4 85.7 85.8 85.7 85.8 85.7 85.8 85.7 85.8 85.7 85.8 85.8	18, 740 18, 171 18, 075 18, 075 18, 075 18, 075 18, 075 18, 075 11, 0,	19, 309 18, 134 18, 709 19, 173 17, 236 17, 236 16, 584 16, 584 16, 584 16, 584 16, 584 12, 760 11, 1862 12, 350 11, 1862 12, 350 11, 1862 12, 354 10, 519 6, 549 6, 532 6, 537 6, 537 7, 5377 7, 5377 7, 5377 7, 5377 7, 5377 7, 5377 7,	$\begin{array}{c} \textbf{18, 351} \\ \textbf{17, 784} \\ \textbf{18, 600} \\ \textbf{17, 772} \\ \textbf{18, 600} \\ \textbf{17, 772} \\ \textbf{18, 600} \\ \textbf{17, 772} \\ \textbf{14, 600} \\ \textbf{14, 600} \\ \textbf{14, 600} \\ \textbf{14, 6, 800} \\ \textbf{14, 1723} \\ \textbf{12, 1783} \\ \textbf{14, 12, 1783} \\ \textbf{14, 12, 1283} \\ \textbf{12, 1723} \\ \textbf{12, 1283} \\ \textbf{12, 1723} \\ \textbf{12, 1283} \\ \textbf{12, 12833} \\ \textbf{12, 12833} \\ \textbf{12, 1283} \\ \textbf{12, 1283} \\ $	$\begin{array}{c} 15,371\\ 16,571\\ 18,123\\ 17,436\\ 17,230\\ 16,506\\ 15,606\\ 15,606\\ 16,606\\ 16,607\\ 16,342\\ 16,342\\ 10,297\\ 10,780\\ 11,840\\ 10,297\\ 10,780\\ 11,840\\ 10,297\\ 10,780\\ 11,840\\ 10,297\\ 10,780\\ 12,216\\ 9,787\\ 12,216\\ 9,787\\ 10,390\\ 5,606\\ 5,606\\ 6,217\\ 5,830\\ 6,328\\ 5,606\\ 6,217\\ 5,830\\ 6,328\\ 5,666\\ 6,004\\ 5,960\\ 9,966\\ 6,96$	16, 718 16, 718 16, 389 18, 160 18, 051 17, 229 16, 980 18, 157 12, 529 15, 579 12, 529 15, 579 12, 529 15, 579 14, 189 10, 065 11, 506 11, 507 11, 506 11, 507 11, 507 12, 529 13, 577 14, 189 9, 652 5, 8492 5, 5452 5, 5	17, 966 17, 024 18, 529 18, 008 17, 442 17, 344 17, 647 16, 380 11, 640 11, 653 11, 668 11, 66	18, 524 17, 444 18, 736 17, 909 17, 155 17, 864 17, 000 16, 707 13, 281 16, 707 13, 281 14, 797 11, 947 11, 947 10, 948 11, 950 10, 946 10, 94	18, 415 17, 815 18, 600 17, 041 18, 078 18, 078 18, 078 17, 211 14, 248 11, 123 11, 199 9, 506 9, 507 10, 508 9, 119 10, 446 9, 119 10, 508 9, 119 10, 508 9, 119 10, 508 9, 119 10, 508 9, 507 6, 512 6, 527 6, 528 6, 527 6, 528 6, 527 6, 528 6, 528 6, 527 6, 528 6, 528 6, 527 6, 528 6, 528 7, 528	$\begin{array}{c} 17, 419\\ 17, 561\\ 17, 902\\ 15, 300\\ 16, 490\\ 17, 841\\ 14, 505\\ 17, 016\\ 14, 505\\ 17, 016\\ 14, 909\\ 16, 167\\ 16, 242\\ 11, 313\\ 11, 208\\ 11, 503\\ 10, 211\\ 10, 010\\ 11, 419\\ 9, 553\\ 10, 418\\ 10, 531\\ 10, 116\\ 9, 100\\ 11, 419\\ 9, 531\\ 10, 116\\ 6, 373\\ 6, 373\\ 6, 373\\ 6, 376\\ 6, 378\\ 6, 057\\ 6, 5378\\ 6, 057\\ 6, 5378\\ 6, 057\\ 6, 136\\ 6, 13$	16, 650 17, 317, 735 15, 601 15, 903 18, 923 13, 976 16, 520 16, 520 16, 520 16, 520 16, 520 16, 520 16, 520 16, 520 11, 504 10, 928 10, 928 10, 928 11, 722 8, 782 10, 928 11, 722 10, 928 11, 504 10, 928 11, 504 10, 928 11, 504 11, 504 10, 928 11, 504 11, 504 11	17, 722 18, 041 18, 260 16, 496 16, 187 19, 282 12, 120 17, 898 16, 704 16, 274 16, 274 16, 274 14, 968 11, 880 11, 880 11, 880 11, 887 11, 895 10, 045 8, 072 11, 895 10, 045 10, 005 10, 005	17, 643 18, 646 18, 569 17, 074 16, 304 19, 808 12, 564 17, 148 18, 467 11, 556 11, 716 11, 576 11, 576 11, 576 11, 903 12, 250 8, 178 10, 543 10, 543 8, 934 6, 688 6, 681 6, 372 7, 549 4, 386 6, 5921 5, 921 5, 923 5, 925 5, 9

TABLE 13.-WAGE EARNERS: LEATHER AND LEATHER PRODUCTS

Arithmetic average of the 12 months.

64 VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

Year Number of estab- infinition of estab- input stable ployees: Per cent minition of estab- ployees Per cent minition of estab- ployees Per cent minition of estab- ployees Norvem minition of estab- ployee Norvem minition of estab- ployee	£ 76 # 77	ł								Jumber an	oploved in-	_		······		*****
Year of estab- imanial reporting number piopes number math mum January mum Pobrasry March April May June July Augnst Septem- ber October Novem- ber Doest All employees: 65 14,431 75.8 15,225 16,724 14,880 11,949 13,400 14,774 15,369 15,274 14,222 13,510 14,471 14, 14,002 12,225 12,883 13,000 13,824 14,153 13,065 15,071 14,002 12,272 12,883 14,002 12,272 12,883 14,002 12,272 12,883 14,002 12,272 12,883 14,002 12,272 12,883 14,002 12,272 12,883 14,002 12,272 12,883 14,002 12,072 12,873 12,072 12,873 12,072 12,873 12,072 12,873 12,072 12,873 12,072 12,873 12,072 12,873 12,072 12,873 12,072 12,873 12,072 12,873 12,072		Number	A verofe	Per cent												
All employees: 65 14,431 75.8 15,285 15,764 14,480 11,969 13,400 14,774 15,380 15,274 14,282 13,050 14,471 14, 14,153 1016	'Y ear	of estab- lishments reporting	number of em- ployees t	employ- ment is of maxi- mum	January	February	March	∆ pril	May	June	Jajà	August	Septem- ber	October	Novem- ber	Decem- ber
1922	All employees: 1914	550 57 88 85 85 85 85 85 85 85 85 85 85 85 85	14, 431 13, 995 15, 106 13, 983 13, 000 14, 707 13, 727 11, 923 13, 727 11, 923 13, 507 8, 770 8, 770 8, 771 8, 974 8, 974 8, 974 8, 975 6, 946 6, 135 5, 732 5, 683 6, 184 5, 184 4, 977	75.8 85.2 93.9 75.3 88.3 84.1 65.0 73.2 61.8 90.1 88.6 90.1 88.6 93.7 75.9 85.6 93.7 75.9 85.6 93.7 75.9 85.6 93.7 75.9 85.6 93.7 75.9 85.6 93.7 75.2 93.9 75.3 85.6 93.9 75.2 93.9 75.2 93.9 75.3 85.5 93.9 75.2 93.9 75.9 85.6 93.7 75.9 87.0 95.2 87.0 77.0 87.0 87.0 87.0 87.0 87.0 87.0	15, 285 14, 638 15, 101 15, 430 13, 570 14, 678 15, 464 11, 340 13, 871 13, 338 12, 780 9, 233 8, 773 9, 072 8, 982 8, 006 9, 233 8, 773 8, 982 8, 006 9, 427 6, 710 8, 006 8, 00	15, 764 14, 396 15, 441 15, 441 16, 737 13, 448 14, 371 13, 047 13, 168 9, 023 13, 168 9, 023 7, 28, 027 7, 28, 027 7, 28, 103 8, 103 1, 103 1	14, 850 14, 000 15, 243 15, 110 13, 484 14, 088 15, 243 13, 688 9, 138 9, 305 14, 081 14, 080 12, 653 13, 688 9, 133 9, 345 14, 081 14, 080 12, 653 14, 081 14, 080 9, 312 8, 305 14, 081 14, 080 9, 312 8, 305 14, 081 14, 080 9, 312 8, 305 14, 080 12, 653 14, 080 14, 080 12, 653 14, 080 12, 653 14, 080 14, 080 12, 653 14, 080 12, 653 14, 080 14, 080 14, 080 12, 653 14, 081 14, 080 12, 653 14, 081 14, 080 14, 080 12, 653 14, 081 14, 080 14, 080	11, 949 12, 929 14, 857 14, 13, 434 13, 434 13, 434 12, 929 12, 678 13, 414 12, 929 13, 414 12, 587 14, 587 7, 412 5, 917 5, 916 5, 917 5, 917 5, 916 5, 917 5, 917	13, 400 12, 868 14, 905 13, 420 14, 678 13, 420 14, 678 13, 427 14, 678 13, 427 13, 427 13, 427 14, 678 13, 427 14, 678 13, 427 13, 420 14, 678 13, 420 14, 678 14, 678 13, 420 14, 678 13, 420 14, 678 13, 420 14, 678 13, 420 14, 678 14, 67	14, 754 13, 606 16, 325 14, 4715 14, 325 14, 674 8, 6352 11, 759 8, 808 8, 973 2, 635 11, 759 8, 808 8, 973 2, 635 2, 645 8, 647 8, 602 2, 635 2, 635	15, 369 13, 824 15, 430 13, 224 14, 781 13, 781 13, 781 13, 399 12, 497 9, 542 8, 135 9, 102 13, 399 12, 497 9, 542 8, 135 8, 140 5, 859 6, 127 5, 669 6, 320 5, 889 6, 572 6, 631 5, 418 6, 305	15, 274 14, 153 15, 373 13, 471 12, 439 14, 883 12, 991 14, 887 11, 160 13, 525 12, 881 9, 164 8, 324 9, 064 8, 305 16, 565 8, 763 7, 778 8, 381 6, 376 6, 288 6, 110 5, 529 6, 288 6, 123 5, 127 6, 486 5, 420 5, 420 5, 425 6, 123 5, 127 6, 486 5, 425 5,	14, 282 13, 905 14, 700 11, 852 12, 737 14, 683 11, 720 14, 614 11, 720 14, 614 11, 720 14, 614 13, 374 12, 808 8, 631 8, 602 7, 144 8, 701 7, 138 8, 662 7, 144 8, 701 7, 138 8, 260 6, 727 7, 699 7, 045 5, 651 5, 616 5, 987 4, 586 5, 816 5, 816 5, 816 5, 816 5, 827	13, 510 13, 941 14, 503 12, 216 14, 108 12, 026 14, 108 12, 026 14, 108 12, 026 14, 108 12, 026 13, 403 12, 648 8, 246 8, 196 6, 533 8, 196 6, 548 5, 717 5, 903 4, 990 5, 205 4, 183 5, 972 5, 972	14, 471 14, 609 14, 912 12, 402 15, 772 12, 402 15, 772 13, 409 12, 452 8, 785 8, 577 7, 508 8, 587 7, 508 8, 884 0, 036 9, 485 7, 101 7, 624 6, 946 5, 329 5, 329 5, 635 6, 888 8, 602 6, 912 6, 921 5, 329 5, 32	14, 270 16, 083 16, 442 13, 402 13, 46, 322 10, 534 14, 720 23, 092 10, 534 14, 720 23, 092 14, 720 23, 092 14, 720 23, 092 5, 667 8, 953 9, 169 7, 853 9, 169 7, 858 8, 667 6, 365 8, 662 7, 658 8, 660 8, 169 7, 658 6, 168 6, 168 6, 168 6, 168 6, 503 6, 503 6, 503 6, 503 6, 505 6,

TABLE 14.--WAGE EARNERS: LEATHEB-BOOTS, SHOES, CUT STOCK AND FINDINGS

¹ Arithmetic average of the 12 months.

TABLE 15 .-- WAGE EARNERS: LIQUOBS AND BEVEBAGES

, ,	Number	Average	Per cent				·	X	lumber eu	ployed in-					
Year	of estab- lishments reporting	number of em- ployees ¹	employ- ment is of maxi- mum	January	February	March	April '	Мву	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914	178 198 102 179 187 187 180 121 120 124 140 178 198 198 198 198 198 198 198 19	6, 020 5, 936 6, 443 5, 830 4, 533 3, 652 2, 234 2, 195 2, 234 2, 195 5, 960 5, 853 6, 347 2, 234 4, 533 6, 718 6, 718	81,93 89,86 89,86 89,86 87,82 60,63 87,82 60,63 81,89 82,64 80,63 81,89 81,89 82,64 81,89 82,64 81,89 82,64 83,86 84,93 85,125	5, 572 5, 641 5, 788 6, 119 5, 722 4, 528 3, 378 2, 023 1, 835 5, 500 5, 574 4, 598 6, 015 5, 574 1, 835 6, 015 6, 015 5, 574 1, 835 6, 015 6,	5, 524 5, 624 5, 625 5, 624 5, 625 5, 624 5, 625 5, 624 5, 625 5, 625 5, 624 5, 625 5, 625	534 536 536 556 557 55 54 448 57 55 57 55 54 448 57 55 57 55 54 448 57 55 57 55 54 448 57 55 55 54 448 57 55 55 55 55 55 55 55 55 55 55 55 55	5,801 5,878 6,160 6,206 6,009 4,452 2,077 1,974 5,741 5,801 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,04 2,3404 2,275 1,975 1,977 1,927 1,976 1,927	068305759854230 068305479859854230 068305478308585858585858585858585858585858585858	6433 641128 641128 6464 6464 6464 6464 6464 6464 6464 64	6, 744 6, 820 7, 083 6, 973 6, 601 5, 284 4, 369 8, 374 4, 369 8, 372 4, 537 6, 600 6, 254 4, 120 6, 501 5, 192 4, 537 6, 600 6, 254 4, 120 8, 375 6, 600 6, 254 4, 120 8, 375 6, 600 100 100 100 100 100 100 100	6, 550 6, 291 7, 397 6, 546 5, 051 4, 196 6, 051 6, 529 6, 529 7, 342 6, 529 6, 529 6, 529 6, 529 6, 529 6, 529 6, 529 7, 342 6, 529 6, 529 7, 342 6, 529 6, 529 7, 342 6, 529 6, 529 7, 342 6, 529 7, 342 7, 545 7,	6, 302 6, 117 6, 913 6, 625 6, 625 6, 626 4, 554 3, 850 2, 2449 2, 405 2, 449 2, 405 2, 449 2, 405 4, 505 6, 520 6, 520 6, 520 6, 520 5, 541 2, 881 2, 369 2, 126 66 6, 620 5, 620 5, 620 6, 520 5, 620 5, 620 6, 520 5, 620 5, 620 6, 520 5, 620 5, 62	6,039 6,870 6,475 6,132 6,134 4,331 3,499 2,255 2,214 2,078 1,978 5,962 5,783 0,347 6,034 6,046 4,271 2,047 1,917 77 98 108 109 2,047 1,917 98 108 109 108 108 108 109 108 108 108 109 108 109 108 109 108 109 109 109 109 109 109 109 109	5,797 5,8248 6,8984 6,8984 7,2014 1,188 2,2014 2,20	5,650 5,667 6,325 5,837 4,558 2,335 1,870 1,863 1,720 5,597 5,

Arithmetic average of the 12 months.

66 VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

	Number	Average	Per cent					ľ	lamber en	ployed in					
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	April	Мау	June	July	August	Septem. ber	October	Novem- ber	Decem- ber
All employees: 1914	783 802 800 913 923 923 914 932 1,003 783 802 802 913 914 932 1,007 1,130 783 802 809 913 914 932 1,007 1,130	26, 861 25, 010 28, 452 26, 265 26, 276 20, 828 20, 841 22, 974 26, 307 25, 133 26, 133 27, 019 27, 265 23, 501 27, 265 23, 501 27, 265 24, 439 21, 978 24, 978 26, 978 26, 978 27, 978 28, 978 28, 978 29, 978 29, 978 29, 978 20, 978 21, 97	86.54 88,4 91.57 80,79 81.92 86.7 92.5 86.7 92.5 86.7 92.5 86.7 92.5 86.7 92.5 86.7 92.5 86.7 92.5 86.9 92.5 87.0 92.5 87.0 92.5 86.0 92.8 92.8 92.8 92.8 92.8 92.8 92.8 92.8	27, 583 24, 243 28, 343 29, 793 24, 606 22, 533 27, 761 19, 206 24, 482 25, 781 21, 919 24, 659 27, 384 22, 578 21, 919 24, 659 27, 384 22, 578 21, 919 24, 659 27, 384 22, 578 21, 21, 21, 21, 21, 21, 21, 21, 21, 21,	28, 2230 27, 200 27, 200 25, 073 24, 2110 25, 073 26, 075 26,	28, 268 25, 031 27, 942 27, 942 27, 944 27, 735 29, 944 27, 735 29, 145 20, 145 20, 145 22, 944 21, 145 22, 351 24, 140 25, 785 19, 780 19, 780 1, 306 1, 403 24, 279 1, 306 1, 403 24, 279 24, 279 24, 279 26, 279 27, 279 27, 279 27, 279 27, 279 27, 279 28, 279 29, 279 20, 20, 279 20, 279 20	175878499 175878499 174878499 175878499 175878499 175878499 175878499 1758889 17588899 1758899 1758899 1758899 1758899 17588999 17588999 17589999 1759999 1759999 1759999 1759999 1759999 1759999 1759999 1759999 175999 175999 175999 175999 175999 175999 175999 175999 175999 175999 175999 175999 175999 175999 175999 175999 17599 175999 175999 175999 1759	28, 007 25, 163 26, 287 26, 217 26, 780 26, 217 26, 780 26, 217 26, 780 26, 217 26, 740 26, 217 26, 740 26, 217 26, 174 1, 403 24, 170 1, 423 1, 507 1, 537 1, 513 1, 503	27, 808 25, 394 26, 584 26, 689 27, 015 27, 015 27, 015 27, 017 23, 184 27, 877 24, 185 25, 778 26, 238 25, 778 26, 238 26, 778 26, 238 27, 306 27, 306 27, 306 27, 306 28, 578 24, 185 26, 778 21, 651 22, 578 24, 185 26, 778 21, 651 24, 185 26, 778 21, 651 24, 185 26, 778 21, 651 21, 651 22, 578 24, 185 26, 778 21, 651 24, 185 26, 778 21, 651 24, 185 26, 778 21, 651 21, 651 24, 185 26, 778 21, 651 21, 651 24, 185 26, 778 21, 651 21, 651 21, 651 21, 651 21, 656 21, 65	26, 384 24, 677 26, 667 26, 793 26, 793 26, 192 27, 878 23, 301 27, 793 23, 301 27, 793 24, 673 23, 301 27, 723 24, 647 32, 791 24, 470 25, 731 19, 089 22, 035 24, 673 24, 675 24, 67524, 675 24, 67524, 675 24, 675 24, 675 24, 67524, 675 24, 675 24, 67524, 675 24, 67	26, 546 26, 025 28, 000 28, 006 29, 006 29, 006 20, 042 27, 527 20, 312 24, 364 24, 36424, 365 24, 36	$\begin{array}{c} 26, 131\\ 25, 187\\ 28, 004\\ 28, 383\\ 24, 383\\ 26, 203\\ 26, 203\\ 27, 133\\ 20, 770\\ 23, 982\\ 27, 357\\ 25, 019\\ 24, 416\\ 23, 763\\ 27, 357\\ 25, 019\\ 24, 416\\ 23, 763\\ 27, 357\\ 25, 019\\ 24, 416\\ 23, 763\\ 27, 357\\ 25, 019\\ 24, 416\\ 23, 763\\ 24, 621\\ 22, 257\\ 25, 086\\ 1, 668\\ 20, 781\\ 22, 257\\ 25, 086\\ 1, 668\\ 20, 781\\ 22, 257\\ 25, 086\\ 1, 781\\ 22, 257\\ 25, 478\\ 1, 419\\ 1, 428\\ 23, 534\\ 1, 715\\ 1, 419\\ 1, 426\\ 1, 766\\ 1, 725\\ 1, 366\\ 1, 725\\ 1, 879\\ 1, 4485\\ \end{array}$	25, 909 25, 874 28, 874 28, 909 27, 212 20, 843 24, 760 24, 476 24, 476 24, 476 24, 476 24, 476 24, 476 24, 476 24, 476 24, 476 25, 570 24, 196 24, 476 25, 588 26, 094 19, 384 26, 578 26, 229 22, 588 24, 005 1, 713 1, 428 1, 457 1, 842 1, 966 1, 906 1, 9	25, 360 24, 704 26, 370 27, 632 24, 370 27, 632 26, 349 27, 336 22, 349 22, 374 23, 349 24, 370 25, 349 22, 374 24, 341 22, 374 24, 315 25, 340 25, 340 26, 341 27, 354 28, 341 22, 341 24, 341 25, 342 26, 341 27, 354 28, 341 22, 341 24, 341 25, 342 25, 340 26, 341 27, 354 28, 341 28, 341 28, 341 29, 341 20, 34	24, 465 26, 061 20, 703 27, 234 24, 283 27, 234 24, 283 25, 627 26, 471 25, 549 22, 886 24, 602 24, 60

TABLE 16 .-- WAGE EARNERS: LUMBER AND ITS PRODUCTS

¹ Arithmetic average of the 12 months.

	Number	Average	Per cent minimum					N	iumber em	ployed in-					
Year	of estab- lishments reporting	number of em- ployees (employ- ment is of maxi- mum	January	February	March	April	May	lave	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employeet: 1914	294 296 331 339 305 407 432 406 460 471 294 331 339 305 457 432 456 457 457 457 457 458 456 457 339 395 457 457 458 456 457 458 459 459 457 452 456 456 456 457 457 457 457 457 457 457 457 457 457	17, 024 19, 198 24, 003 26, 433 26, 433 34, 404 27, 522 27, 522 28, 443 34, 144 30, 490 12, 904 16, 491 20, 056 20, 058 21, 462 23, 259 27, 462 21, 610 22, 755 226, 578 24, 775 26, 576 26, 586 6, 586 6, 580 6, 571	85. 8 72. 0 88. 6 86. 2 88. 6 80. 2 84. 6 80. 2 84. 6 80. 2 84. 6 85. 2 84. 6 85. 2 84. 6 85. 2 84. 6 85. 2 85. 6 85. 6 85. 2 85. 6 85. 2 85. 6 85. 6 85. 2 85. 6 85. 6 85. 2 85. 6 85. 7 74. 6 85. 8 85. 6 85. 7 74. 5 85. 8 85. 6 85. 7 74. 5 85. 8 85. 7 74. 5 85. 7 77. 8 85. 8 85. 7 77. 9 87. 9 87. 9 87. 8 90. 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	18, 082 10, 016 23, 607 26, 607 27, 162 27, 163 26, 607 17, 143 26, 607 4, 747 5, 608 4, 747 5, 602 4, 602 4, 602 4, 747 5, 602 4, 748 5, 74	18, 144 16, 809 24, 177 26, 147 30, 146 327, 546 324, 437 335, 653 24, 437 23, 753 34, 437 23, 753 35, 934 13, 444 19, 607 21, 163 29, 545 4, 375 36, 547 4, 375 36, 547 10, 407 21, 163 29, 545 4, 375 36, 547 4, 375 36, 547 4, 375 36, 547 4, 375 36, 547 4, 375 36, 547 10, 407 21, 163 29, 545 4, 375 36, 547 4, 375 36, 547 4, 375 36, 547 10, 407 21, 163 29, 545 4, 375 36, 547 4, 556 4, 556 4, 556 4, 556 4, 556 5, 596 4, 556 5, 567 6, 577 6, 577 6	18, 136 18, 136 18, 049 24, 733 25, 385 30, 000 24, 733 27, 385 30, 000 24, 733 26, 385 27, 385 36, 000 24, 733 36, 100 24, 733 24, 000 24, 733 24, 000 24, 733 24, 757 24,	17, 737 18, 745 17, 745 14, 351 12, 355 13, 355 13, 355 14, 357 15, 355 15, 555 15,	17, 116 18, 675 34, 780 24, 780 27, 453 35, 024 36, 020 30, 040 13, 228 16, 024 30, 040 28, 160 28, 16	17.98491 26.48724 26.28729 26.48724 26.28729 26.48729 27.28554 27.188844 27.18884 27.18844 27.18844 27.18844 27.18844 27.18844 27.18844 27.18844 27.18844 27.18844 27.18844 27.18844 27.188444 27.188444444 27.188444 27.18844444444444444444444444444	15, 574 18, 704 24, 607 33, 537 26, 486 35, 781 32, 486 32, 788 34, 487 27, 584 12, 283 26, 788 34, 487 27, 584 12, 283 26, 310 20, 411 10, 483 21, 130 23, 130 23, 130 23, 130 23, 130 23, 130 23, 130 23, 130 24, 555 16, 620 23, 130 23, 130 24, 555 16, 620 23, 130 24, 555 16, 620 24, 555 16, 620 16, 62	16, 739 19, 413 26, 509 26, 513 33, 765 281, 290 281, 290 28, 904 20, 733 29, 400 18, 702 28, 602 12, 800 16, 665 26, 657 24, 915 27, 861 10, 829 24, 527 24, 95 24, 527 24, 527 55 5, 545 5, 545	16, 947 20, 213 25, 092 25, 476 32, 800 33, 870 30, 078 34, 205 32, 870 36, 395 32, 285 28, 385 12, 870 16, 294 20, 063 20, 054 20, 055 20, 00	16, 585 20, 801 28, 573 25, 615 32, 478 32, 594 30, 835 32, 478 32, 594 30, 017 32, 168 29, 421 12, 783 16, 705 29, 421 12, 783 16, 705 29, 421 12, 783 16, 705 29, 421 12, 783 24, 340 24, 340 24, 340 24, 340 26, 515 25, 587 23, 760 4, 102 4, 105 5, 052 7, 020 6, 496 5, 052 7, 123 4, 568 5, 658 5, 658 5	15, 928 21, 668 25, 970 26, 254 32, 244 32, 1408 23, 244 31, 408 23, 233 36, 522 32, 312 29, 657 12, 031 17, 300 20, 488 20, 191 24, 980 26, 478 24, 363 18, 963 18, 963 25, 448 26, 504 4, 282 5, 746 5, 742	15, 672 29, 240 26, 082 26, 022 30, 749 34, 046 28, 364 28, 364 28, 364 28, 364 28, 364 28, 364 30, 018 11, 973 30, 018 11, 973 30, 018 11, 973 20, 076 23, 612 24, 490 24, 244 3, 699 36, 599 26, 210 36, 569 36, 569 4, 438 5, 569 4, 569 36, 569 4, 569 4, 569 36, 569 4, 569 5,

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TABLE 17 .--- WAGE EARNERS: METALS AND METAL PRODUCTS OTHER THAN IRON AND STEEL .

¹ Arithmetic average of the 12 months.

	Number	Average	Per cent	cent Number employed in											
Year	of estab- lishments reporting	number of em- ployees ¹	employ- ment is of maxi- mum	January	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decenii- bar
Ail employees: 1914 1915 1916 7	28 40	5, 226 4, 300	78. 5 65. 2	6, 064 8, 512	5, 745 3, 603	5, 738 3, 858	5, 224 4, 198	5, 007 4, 085	5, 124 4, 196	4, 758 4, 130	5, 019 4, 289	5, 075 4, 472	5, 149 4, 808	5, 014 5, 077	4, 798 5, 386
1917 J 1018	43 46 48 43 40 51	6, 460 5, 710 6, 082 4, 539 4, 288 4, 944	90. 5 79. 5 87. 9 57. 9 82. 4 90. 2	6, 674 6, 061 6, 330 6, 333 3, 835 4, 839	6, 631 6, 211 8, 316 6, 039 4, 147 4, 904	6, 881 6, 272 6, 290 5, 747 4, 226 4, 945	6, 504 6, 062 6, 367 5, 347 4, 296 4, 964	6, 359 5, 785 6, 486 4, 846 4, 375 4, 957	6, 324 5, 741 6, 619 4, 035 4, 248 5, 010	6, 418 5, 097 6, 553 8, 761 4, 151 4, 029	6, 839 4, 989 6, 870 8, 694 4, 219 4, 219 4, 705	6, 226 5, 299 6, 979 3, 689 4, 275 4, 853	6, 370 5, 352 7, 159 3, 067 4, 399 4, 944	6, 356 5, 810 7, 124 8, 668 4, 633 5, 053	6, 442 5, 837 7, 084 3, 842 4, 653 5, 219
1024	80 28 40	5, 151 2, 936 2, 268	98.1 81.6 64.2	5, US4 8, 100 1, 783	6, 208 3, 075 1, 917	3, 265 2, 124	0, 300 3, 035 2, 369	0, 192 2, 927 2, 263	4, 0/7 3, 102 2, 801	4, 940 2, 801 2, 168	9, 988 2, 848 2, 266	2, 845 2, 276	0, 148 2, 848 2, 395	0, 205 2, 728 2, 587	0, 202 2, 663 2, 776
1010 1920 1921 1922 1923 1923	46 48 43 40 51 50	2, 085 3, 358 2, 269 2, 230 2, 526 2, 526	72.0 88.2 57.1 78.1 92.4 92.4	2, 885 8, 273 3, 176 1, 926 2, 427 2, 503	2, 068 3, 339 2, 982 2, 123 2, 517 2, 580	2, 041 2, 185 2, 788 2, 177 2, 553 2, 653	2, 070 3, 204 2, 741 2, 238 2, 582 2, 015	2, 847 2, 847 2, 329 2, 261 2, 265 2, 585 2, 5 64	2, 836 2, 288 2, 056 2, 199 2, 597 2, 451	2, 191 3, 151 1, 908 2, 153 2, 596 2, 461	2, 195 3, 434 1, 892 2, 171 2, 424 2, 492	2, 360 8, 440 1, 814 2, 232 2, 430 2, 552	2, 371 3, 490 1, 820 2, 378 2, 463 2, 537	2, 740 8, 823 1, 842 2, 465 2, 504 2, 599	2, 810 3, 572 1, 948 2, 435 2, 624 2, 607
Females: 1914. 1915. 1916 J	38 40	2, 289 2, 082	60. 0 64. 6	2, 964 1, 729	2, 670 1, 688	2, 471 1, 729	2, 189 1, 829	2, 080 1, 822	2, 022 1, 895	1, 957 1, 952	2, 171 2, 083	2, 230 2, 196	2, 801 2, 408	2, 286 2, 490	2, 130 2, 610
1918 1919 1920 1920 1921 1922 1922 1923 1923	43 46 48 48 40 51 51	3, 587 3, 025 8, 324 2, 270 2, 068 2, 418 2, 601	86. 7 86. 2 81. 3 67. 1 86. 1 87. 9 92. 5	3, 684 3, 176 8, 057 3, 157 1, 909 2, 412 2, 581	3, 727 3, 243 2, 977 3, 057 2, 024 2, 387 2, 670	8, 949 3, 231 8, 105 2, 959 2, 049 2, 392 2, 052	3, 626 3, 086 8, 103 2, 606 2, 058 2, 382 2, 382 2, 691	3, 552 2, 938 3, 157 2, 385 2, 385 2, 110 2, 372 2, 628	8, 517 2, 905 3, 331 1, 079 2, 049 2, 413 2, 526	3, 560 2, 903 3, 402 1, 853 1, 998 2, 333 2, 480	3, 837 2, 794 3, 436 1, 802 2, 048 2, 281 2, 491	3, 423 2, 943 3, 530 1, 875 2, 043 2, 414 2, 537	3, 482 2, 981 3, 663 1, 847 2, 021 2, 481 2, 509	8, 487 3, 070 3, 601 1, 826 2, 168 2, 549 2, 656	2, 495 3, 027 3, 512 1, 894 2, 218 2, 595 2, 085

TABLE 18.--WAGE EARNERS: METALS-GAS AND ELECTRIC FIXTURES AND LAMPS AND REFLECTORS

¹ Arithmetic average of the 12 months.

² Figures not obtainable.

GENERAL TABLES

TABLE 19.-WAGE EARNERS: PAPER AND PRINTING

	Number	Average	Per cent minimum					м	lumber en	iployed in					
Yesr	of estab- lishments reporting	number of em- ployees (employ- ment is of maxi- mum	Jenuery	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914	806 915 928 958 958 958 958 958 902 886 913 980 915 928 938 938 938 938 938 938 938 938 938 93	20, 678 24, 287 24, 287 29, 627 29, 825 31, 804 32, 207 34, 776 37, 182 20, 025 22, 513 37, 182 24, 510 24, 513 24, 513 25, 511 24, 513 26, 611 22, 513 24, 515 26, 611 22, 513 24, 515 26, 617 22, 513 24, 516 26, 517 26, 517 27, 114 7, 105 8, 174 8, 174 8, 174 8, 174 8, 174 8, 174 8, 174 8, 174 8, 174 1, 17	94.4 93.19 96.09 95.23 95.04 95.00 95.23 95.00 9	27, 231 26, 907 27, 881 28, 952 29, 952 29, 724 35, 406 30, 227 33, 655 36, 872 21, 214 22, 434 21, 947 24, 172 22, 434 21, 947 24, 172 22, 434 21, 947 24, 172 22, 434 27, 859 7, 476 6, 025 6, 607 7, 101 7, 103 7, 777 9, 128 7, 076 7, 1631 8, 013	27, 247 26, 254 27, 268 28, 249 28, 249 28, 249 28, 249 28, 249 28, 249 28, 249 28, 249 28, 249 28, 249 29, 249 29, 249 20, 251 21, 272 20, 241 20, 25, 241 20, 241 20	27, 400 26, 128 28, 359 30, 059 35, 059 35, 853 27, 875 36, 829 34, 464 36, 947 19, 913 31, 610 32, 703 22, 703 23, 703 24, 703 24, 703 25, 703 24, 703 7, 704 24, 703 7, 705 8, 200 7, 705 7, 705 7, 705 8, 705 7, 705 7, 705 7, 705 7, 705 7, 705 7, 705 7, 705 7, 7	2034077 2034297 2034297 2034297 2035	25.85878.422729 25.85878.422729 25.85878.422729 25.85878.422729 25.9712442513729 25.97124425132922014 25.971244511 25.972014 25.9777777777777777777777777777777777777	26, 691 23, 829 26, 174 30, 154 30, 018 31, 108 35, 071 28, 956 31, 956 31, 956 31, 956 31, 956 31, 956 31, 956 22, 858 22, 454 23, 211 24, 686 21, 994 34, 878 36, 956 5, 858 5, 858 5, 856 5, 857 5,	26, 2016 236, 2028 230, 228, 229, 229, 229, 229, 229, 229, 229	26, 591 22, 686 26, 235 30, 329 33, 133 36, 562 29, 865 32, 965 32, 965 34, 790 19, 686 22, 584 24, 837 19, 686 22, 584 22, 584 24, 837 27, 072 22, 913 24, 536 22, 913 24, 837 27, 072 25, 346 22, 913 24, 534 25, 346 22, 913 24, 534 25, 346 28, 929 7, 005 5, 294 9, 490 5, 295 7, 236 6, 953 8, 194 8, 194 8, 193 8, 194 8, 194 1, 194 1, 295 1, 295 1, 295 2, 295	26, 258 26, 542 30, 102 29, 308 29, 308 29, 309 32, 839 35, 844 20, 978 33, 284 34, 908 34, 908 34, 908 20, 229 22, 602 22, 602 22, 602 22, 602 22, 602 22, 602 22, 602 22, 602 22, 612 24, 621 26, 542 26, 613 37, 410 7, 005 6, 318 9, 309 7, 006 8, 311 8, 255 8, 643	26, 484 27, 053 29, 246 29, 246 29, 246 29, 247 33, 809 36, 107 30, 806 33, 672 35, 427 35, 425 29, 495 20, 495 22, 891 22, 893 24, 707 23, 441 22, 088 24, 707 23, 441 25, 677 24, 750 6, 558 7, 648 7, 648 7, 661 8, 571 9, 310 7, 367 8, 366 8, 750 8, 705	26, 209 27, 371 30, 658 28, 552 29, 552 34, 477 36, 351 31, 35, 351 34, 003 35, 590 38, 151 19, 335 20, 659 22, 883 22, 171 21, 925 25, 516 20, 408 22, 808 29, 563 6, 876 6, 876 7, 781 8, 961 8, 363 7, 368 8, 363 8, 722 8, 583	25, 852 27, 493 30, 654 28, 984 34, 873 39, 096 34, 328 35, 504 38, 123 19, 100 20, 753 23, 036 21, 960 22, 241 25, 577 25, 867 29, 645 6, 7743 25, 867 26, 847 29, 645 6, 992 25, 867 26, 847 29, 645 8, 982 8, 982 9, 984 9, 985 9, 985

¹ Arithmstle average of the 17 months.

<u></u>	Number	Average	Per cent					N	lumber em	ployed in-					
Year	of estab- liabments reporting	number of em- ployees ¹	employ- ment is of maxi- mum	January	February	March	April	Мау	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914 1915	638 712	15, 257 15, 505	94, 9 94, 8	15, 683 15, 369	15, 851 15, 811	15, 627 15, 526	15, 600 15, 377	15, 841 15, 864	15, 225 15, 348	15, 088 15, 223	15, 135 15, 159	14, 854 15, 483	14, 905 15, 849	14, 972 15, 868	14, 979 15, 991
1917 * 1918. 1919. 1920. 1921. 1922. 1922. 1923. 1924.	729 709 752 630 642 668 723	15,009 16,407 18,233 16,121 16,488 17,842 19,672	94. 3 81. 7 96. 6 92. 2 90. 3 94. 6 94. 6	16, 526 14, 752 17, 833 16, 853 15, 838 17, 306 19, 127	16, 453 15, 141 17, 993 16, 229 15, 656 17, 457 19, 259	15, 274 15, 512 18, 200 16, 303 15, 999 17, 682 19, 270	15, 145 15, 843 16, 313 16, 255 16, 209 17, 760 19, 344	15, 156 16, 080 16, 300 16, 152 10, 290 17, 672 19, 475	14, 984 16, 175 18, 829 15, 795 16, 855 17, 741 19, 787	14, 660 16, 038 18, 461 16, 425 16, 590 17, 838 19, 744	15,096 16,810 18,438 16,354 16,741 18,062 19,784	14, 080 10, 958 18, 062 10, 308 10, 847 17, 871 19, 969	14, 825 17, 220 18, 447 15, 995 16, 896 18, 188 20, 031	14, 641 17, 704 18, 315 16, 081 16, 899 18, 230 20, 033	14, 672 18, 046 16, 019 16, 219 17, 332 18, 289 20, 269
Males: 1914. 1915. 1916 -	636 712	11, 837 12, 423	96. 3 94. 7	11, 978 12, 405	11, 980 12, 428	.12, 024 12, 418	12,070 12,376	12, 002 12, 343	11, 897 12, 280	11, 717 12, 080	11, 702 12, 178	11, 625 12, 438	11, 703 12, 644	11, 667 12, 701	11, 674 12, 771
1917 *	729 709 752 630 642 668	11, 622 12, 645 14, 090 12, 843 13, 056 14, 003	92.6 81.8 97.1 90.6 91.4 96.5	12, 144 11, 374 13, 866 12, 072 12, 606 13, 724	12, 121 11, 086 13, 959 12, 877 12, 552 13, 784	11, 999 11, 975 14, 125 12, 874 12, 764 14, 016	11, 763 12, 198 14, 066 12, 846 12, 852 13, 962 15, 648	11, 729 12, 307 14, 109 11, 948 12, 912 13, 928	11, 542 12, 458 14, 140 12, 435 13, 074 13, 945 15, 942	11, 293 12, 807 14, 244 13, 091 13, 007 13, 988 15, 990	11, 642 12, 990 14, 267 13, 146 13, 119 14, 054 16, 054	11, 317 13, 111 13, 955 13, 186 13, 267 14, 111 16, 151	11, 320 13, 297 14, 197 12, 828 13, 358 14, 086 16, 208	11, 244 13, 618 14, 235 12, 917 13, 447 14, 220 16, 244	11.353 13,907 14,038 12,997 13,720 14,214 16,378
Pemales: 1914_ 1915_ 1916 *	636 712	3, 420 8, 082	88.0 91,7	10, 109 8, 705 2, 954	8, 571 3, 083	8, 603 3, 108	3, 530 3, 001	8, 339 8, 021	3, 328 3, 068	8, 371 8, 134	3, 433 2, 981	3, 259 3, 045	3, 292 3, 205	3, 305 3, 167	8, 305 8, 220
1917 \$ 1918 1919 1920 1922 1922 1923 1924	729 709 752 630 642 668 723	8, 387 3, 762 4, 134 3, 278 3, 432 3, 839 8, 771	93. 4 81. 6 93. 5 91. 0 85. 7 87. 3 94. 8	3, 382 3, 378 3, 977 3, 381 3, 232 3, 582 3, 688	3, 332 3, 455 4, 034 3, 352 8, 104 3, 673 3, 724	3, 275 3, 537 4, 165 3, 429 3, 235 3, 666 8, 728	3, 382 3, 645 4, 247 3, 409 3, 357 8, 798 3, 696	3, 427 3, 773 4, 191 3, 204 3, 378 3, 744 3, 795	3, 442 8, 717 4, 189 3, 361 3, 481 3, 798 3, 815	8, 367 3, 831 4, 217 3, 334 3, 583 3, 850 8, 764	3, 454 8, 811 4, 171 3, 208 3, 622 4, 008 8, 730	3, 303 3, 847 4, 107 3, 122 3, 590 3, 760 3, 818	3, 505 3, 920 4, 250 3, 167 3, 538 4, 102 3, 826	3, 397 4, 080 4, 080 3, 144 3, 452 4, 010 3, 789	3, 319 4, 139 8, 974 3, 222 3, 606 4, 075 8, 891

TABLE 20 .--- WAGE EARNERS: PAPER---PRINTING AND PUBLISHING

¹ Arithmetic average of the 12 months.

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* Figures not obtainable.

GENERAL TABLES

TABLE 21.-WAGE EARNERS: PAPER-BOXES (FANCY AND PAPER) AND DEINKING CUPS

	Number	Average	Per cent					7	lumber en	ployed in-					
Year	of estab- lishments reporting	nutuber of em- ployees (smploy- mont is of muxi- mum	January	Fabruary	March	Ápril	May	June	Jaly	August	Septem- ber	October	Novem- ber	Decem- bar
All employees: 1914	42330005778 423300255588778 478880836688778	2,831 2,436 2,936 3,954 3,954 4,64 3,564 4,111 4,389 4,64 4,111 1,389 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,040 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,440 1,589 1,589 1,440 1,589 1,589 1,440 1,589 1,589 1,440 1,589 1,599 1,	80.130.71.180.84 81.083.877.770.00 87.84.447.81.178.880.84.877.87770.00 87.84.447.847.84.877.84.447.84.877.847.84	9,017 9,016 9,000 9,000 9,000 9,000 9,000 9,000 9,000 1,0000	4444445555598 57351452555558 853546544	2,074 2,890 2,735 3,045 3,003 3,003 3,003 3,003 3,003 3,003 3,003 3,003 3,003 3,003 3,003 3,003 3,003 3,003 1,004 1,105 4,185 3,003 1,004 1,105 4,185 3,003 1,004 1,005 4,041 1,005 4,185 3,000 1,741 1,005 4,185 3,000 1,741 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,017 1,005 4,005 1,005		2, 883 2, 382 2, 766 3, 052 3,	4444488848844 45329514888848844 45329514888848844 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	2,744 2,905 2,005	2,720 2,228 2,816 3,507 3,503 3,753 3,753 3,759 3,900 4,933 3,759 3,900 4,933 3,759 3,900 4,933 3,900 4,933 1,214 1,252 2,250 2,2559 1,217	2,770 2,437 2,937 2,937 3,844 3,650 3,770 4,236 1,326 1,326 1,236 1,236 1,236 1,337 2,235 2,450 1,357 2,235 2,450 2,450 1,357 2,235 2,450 1,357 2,235 2,450 2,977 1,256 1,377 2,235 2,450 2,977 1,256 1,377 2,235 2,977 1,256 1,377 2,235 2,457 1,377 2,235 2,457 1,377 2,235 2,457 2,9777 2,9777 2,9777 2,9777 2,9777 2,9777 2,9777 2,9777 2,9777 2,9777 2,	2,842 2,830 3,007 2,847 3,000 8,481 2,855 4,303 4,400 1,363 1,363 1,363 1,363 1,460 1,259 1,478 1,843 2,254 2,744 1,479 1,478 1,853 1,853 1,853 1,853 1,853 1,854 1,355 1,854 1,355 1,854 1,355 1,855 1,957 1,855 1,855 1,855 1,855 1,855 1,855 1,855 1,855 1,957 1,855 1,957 1,957 1,957 1,855 1,957 1,855 1,957 1,855 1,957	2,750 2,6717 2,833 3,055 3,878 3,334 4,046 4,427 1,303 1,2705 1,432 1,432 1,432 1,4589 2,353 2,553 2,553 2,159 1,575 1,578 1,579 1,578 1,579 1,579 1,579	2,652 2,559 3,247 2,781 3,284 3,351 3,005 2,005 4,228 4,228 1,305 1,201 4,228 1,305 1,201 1,201 1,334 1,334 1,536 1,546 1,556 1,556 1,556

Arithmetic average of the 12 months.

2		Namber	Á vatspá	Per cent		_			N	lumber en	ployed in-					
130°-30	Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	April	Мау	June	July	August	Septem- ber	October	Novam- bar	Decem- ber
Ĩ	All employees: 1914	610 721 712 653 693 713 637 634 674 711	38, 842 39, 041 44, 096 43, 591 36, 192 36, 916 40, 168 32, 054 34, 909 43, 052 42, 898	88. 8 83. 5 87. 7 84. 9 84. 1 75. 9 94. 5 86. 4 79. 9 86. 4 79. 9 86. 0 86. 0 86. 0	37, 117 34, 361 40, 883 42, 858 36, 538 31, 173 38, 940 32, 658 30, 149 38, 826 40, 810	37, 087 35, 382 41, 042 42, 307 35, 583 32, 337 38, 045 31, 847 32, 234 30, 857 42, 620 33, 550	38, 936 38, 445 42, 764 44, 271 36, 936 33, 816 40, 700 31, 379 33, 736 42, 317 44, 026	41, 345 39, 800 44, 665 40, 147 37, 371 35, 535 41, 119 31, 517 34, 759 45, 171 44, 122 37, 842	41, 620 41, 142 45, 001 47, 151 38, 828 40, 872 31, 964 30, 220 44, 001 44, 010 38, 152	40, 741 40, 308 44, 748 40, 800 38, 001 37, 137 40, 348 32, 007 37, 018 45, 154 43, 930	37, 695 37, 818 43, 410 42, 418 34, 473 37, 702 40, 129 29, 714 37, 297 43, 731 40, 418	38, 163 38, 546 43, 877 43, 208 34, 320 38, 864 40, 017 30, 220 37, 714 44, 830 42, 517 24, 013	40, 170 40, 164 44, 835 43, 240 34, 008 40, 251 40, 600 31, 373 37, 103 37, 104 31, 373 37, 105 31, 373 31, 373 31, 373 31, 373 31, 373 32, 200 31, 373 32, 200 31, 373 33, 200 34, 205 34, 205 37, 105 37, 10	39, 228 40, 504 48, 162 42, 609 33, 507 41, 055 40, 761 34, 305 32, 247 44, 034 43, 473	38, 058 40, 006 46, 621 41, 885 32, 133 40, 889 39, 948 33, 863 32, 461 42, 775 43, 070	36, 048 40, 861 46, 847 40, 048 32, 237 38, 526 38, 853 38, 238 37, 356 42, 852 42, 373
	1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 Remulae:	721 712 702 683 693 713 637 604 674 711	34, 653 39, 056 38, 546 30, 013 31, 501 34, 488 27, 325 30, 086 36, 625 36, 821	82, 5 82, 9 82, 9 80, 9 73, 9 93, 5 87, 1 78, 7 85, 3 90, 5	26, 345 30, 524 37, 768 30, 622 26, 142 37, 307 26, 142 37, 307 26, 142 37, 307 26, 456 34, 623	81, 221 36, 734 37, 443 30, 073 37, 205 33, 398 26, 614 27, 301 83, 720 80, 288	34, 144 37, 772 30, 288 31, 930 28, 500 85, 500 85, 605 26, 876 26, 889 37, 604	85, 681 39, 510 41, 009 32, 327 30, 279 35, 374 26, 801 20, 881 36, 648 37, 813	86, 1775 40, (133 42, 000 33, 074 30, 530 35, 327 27, 836 31, 218 37, 553 88, 275	36, 083 38, 667 41, 720 32, 820 31, 828 34, 834 28, 834 32, 338 35, 507 37, 733	38, 462 38, 462 37, 573 29, 136 32, 767 34, 762 26, 770 32, 081 87, 387 35, 115	84, 154 88, 052 38, 401 29, 207 33, 500 84, 801 26, 501 26, 501 82, 350 85, 363 86, 781	35, 581 39, 812 38, 237 28, 588 34, 813 34, 019 27, 035 31, 701 87, 537 30, 955	36, 763 40, 112 87, 619 28, 117 36, 389 34, 770 20, 586 28, 841 37, 436 87, 386	36, 613 36, 613 36, 613 36, 613 36, 764 34, 884 34, 884 34, 884 34, 600 28, 629 29, 034 37, 156 36, 972	32, 730 30, 051 40, 255 34, 810 28, 900 33, 786 33, 074 28, 101 32, 351 30, 351 30, 256
	1914 1915 1916 1917 1918 1919 1920 1920 1921 1922 1923 1924	610 721 712 683 693 713 637 664 674 711	3,375 4,398 5,040 5,045 5,355 5,080 4,720 4,823 6,427 6,076	84, 0 82, 9 91, 8 90, 6 86, 8 86, 8 73, 8 63, 1 89, 4 88, 3	8, 467 4, 008 4, 859 5, 000 4, 010 5, 031 5, 031 4, 003 5, 016 5, 016 6, 187	3, 537 4, 161 4, 928 4, 604 4, 910 5, 132 5, 507 5, 233 4, 933 6, 137 6, 337	3, 496 4, 301 5, 012 4, 983 5, 006 5, 250 5, 003 5, 003 5, 009 6, 428 6, 382	3, 503 4, 209 5, 046 5, 078 4, 044 5, 256 5, 745 4, 716 5, 078 6, 523 6, 309	3, 468 4, 367 5, 028 5, 138 5, 288 5, 288 5, 645 4, 628 5, 011 6, 448 5, 335	8, 306 4, 316 5, 079 5, 170 5, 271 5, 309 5, 512 4, 601 5, 280 6, 587 6, 197	2,072 8,988 4,948 4,842 5,025 5,025 5,216 5,344 5,300	3, 240 4, 303 4, 925 4, 867 5, 113 5, 288 6, 736 4, 077 5, 355 6, 477 5, 736	2, 347 4, 553 5, 029 5, 420 5, 420 5, 428 5, 420 4, 338 5, 402 5, 853	3, 375 4, 742 5, 050 5, 390 5, 668 5, 091 4, 805 3, 405 5, 081 6, 589 8, 087	3, 380 5, 286 5, 272 5, 369 5, 825 5, 825 5, 825 5, 652 5, 655 5,	3, 818 4, 810 5, 292 5, 282 5, 337 5, 739 5, 779 5, 137 5, 005 6, 501 6, 117

TABLE 22.-WAGE EARNERS: STONE, CLAY, AND GLASS PRODUCTS

¹ Arithmetic average of the 12 months.

TABLE 23 .--- WAGE EARNERS: STONE, CLAY, AND GLASS-GLASS

	Number	Average	Per cent					۲	Yumber en	ployed in-	_				
Year	of estab- lishments reporting	ployees (employ- ment is of mari- mum	January	February	March	April	May	June	July	August	Septem- ber	October	Noveu- ber	Decem- ber
All employees: 1914 1925 1916 †	36 41	9, 698 10, 078	62.0 64.9	10, 694 9, 897	10, 671 10, 245	10, 920 10, 834	11, 270 10, 348	10, 607 10, 375	9, 702 9, 946	7, 157 7, 775	6, 993 8, 432	9, 102 9, 540	9, 406 10, 318	9, 921 11, 542	9, 847 11, 989
1978	64 55 49 44 49 48 86	11, 371 10, 163 11, 120 7, 202 8, 506 9, 536 8, 060	71. 7 71. 7 88. 2 50. 8 77. 7 90. 3 75. 8	12, 286 8, 775 10, 985 9, 253 7, 107 9, 161 7, 800	12, 736 9, 930 11, 235 8, 202 8, 276 9, 226 8, 502	12, 898 10, 352 11, 457 7, 004 8, 647 9, 876 8, 745	12, 852 10, 449 11, 200 7, 159 8, 495 9, 829 8, 560	12, 678 9, 432 11, 623 6, 021 8, 347 10, 060 8, 643	12, 611 9, 932 10, 565 6, 957 8, 842 10, 123 8, 556	9, 249 8, 488 10, 257 5, 525 8, 585 8, 838 6, 829	9, 711 9, 658 11, 215 5, 401 8, 484 9, 702 7, 061	10, 711 10, 830 11, 188 5, 862 8, 348 9, 559 7, 514	10, 628 11, 319 10, 972 7, 551 8, 561 9, 430 7, 975	10, 248 11, 845 11, 834 8, 060 9, 092 9, 478 8, 295	10, 352 10, 951 11, 416 8, 443 9, 227 9, 139 8, 346
1914 1915 1916 *	86 41	8, 871 9, 148	80. 4 86. 6	9, 798 9, 065	9, 738 9, 341	10, 018 9, 697	10, 878 9, 419	9, 727 9, 428	8, 949 9, 046	6, 587 7, 112	6, 207 7, 571	8, 292 8, 583	8, 577 9, 287	9, 091 10, 423	9,038 10,838
1917	64 85 49 44 49 43 36	9, 535 8, 477 9, 358 6, 136 7, 178 8, 000 6, 916	65.8 72.2 89.5 62.0 77.0 87.0 77.2	10, 658 7, 180 9, 222 7, 734 6, 028 7, 647 6, 597	11, 111 8, 270 9, 473 6, 842 7, 001 7, 718 7, 366	11, 185 8, 505 9, 679 5, 881 7, 316 8, 240 7, 469	10, 677 8, 705 9, 330 6, 106 7, 178 8, 237 7, 264	10, 871 7, 740 9, 820 5, 888 7, 142 8, 470 7, 350	10, 720 8, 228 8, 878 5, 946 7, 512 8, 531 7, 289	7, 302 7, 154 8, 788 4, 814 7, 232 7, 410 6, 784	8,006 6,127 0,491 4,795 7,057 8,183 6,217	8, 675 9, 196 9, 474 5, 081 6, 929 8, 035 6, 540	8, 604 9, 527 9, 081 6, 511 7, 220 7, 807 6, 857	8, 198 9, 916 9, 437 6, 873 7, 699 7, 961 7, 150	8, 357 9, 078 9, 628 7, 161 7, 828 7, 660 7, 133
1914. 1915. 1916 •	36 41	827 936	61, 1 57, 6	896 832	933 904	902 927	897 929	880 947	843 900 -	870 663	726 801	810 966	820 1, 031	830 1, 119	809 1,151
1917 1918 1919 1920 1921 1922 1923 1924	64 65 49 41 49 43 36	1, 830 1, 686 1, 762 1, 066 1, 328 1, 536 1, 144	70, 3 69, 1 77, 4 45, 8 70, 8 86, 7 65, 1	1, 628 1, 586 1, 763 1, 519 1, 139 1, 514 1, 203	1, 625 1, 600 1, 762 1, 380 1, 275 1, 508 1, 236	1, 711 1, 767 1, 778 1, 123 1, 331 1, 636 1, 276	1, 676 1, 744 1, 870 1, 053 1, 317 1, 592 1, 296	1, 807 1, 692 1, 803 1, 033 1, 205 1, 500 1, 287	1, 891 1, 704 1, 687 1, 011 1, 330 1, 602 1, 207	1, 887 1, 334 1, 469 711 1, 353 1, 419 865	1, 705 1, 531 1, 724 696 1, 427 1, 519 844	2,038 1,034 1,714 781 1,410 1,524 974	2,024 1,702 1,801 1,040 1,344 1,542 1,118	2,050 1,930 1,897 1,187 1,400 1,515 1,145	1, 905 1, 673 1, 788 1, 232 1, 300 1, 479 1, 213

Arithmetic average of the 13 months.

* Figures not obtainable.

 $\mathbf{74}$ VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

TABLE 24 .-- WAGE EARNERS: STONE, CLAY, AND GLASS-POTTERY, TEBRA-COTTA AND FIRE-CLAY PRODUCTS

	Number	Average	Per cent					٨	iumber en	ployed in-					
Yoar	of estab- lishments reporting	number of em- ployees ¹	employ- ment is of maxi- mum	Jaouary	February	March	April	Мау	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914	144 187 195 190 190 193 183 183 183 183 183 183 183 184 186 190 193 183 183 183 183 183 183 183 183 183 18	15, 229 18, 652 20, 671 19, 988 17, 158 18, 210 17, 515 22, 405 22, 405 23, 405 24, 40	89. 2 83. 9 94. 4 91. 3 88. 6 93. 2 85. 4 87. 5 87. 9 85. 3 87. 9 85. 3 87. 9 85. 2 87. 8 90. 4 89. 3 85. 2 87. 8 94. 3 95. 1 89. 1 87. 4 87. 1 87. 4 87. 4 85. 2 85. 3 85. 2 85. 3 85. 1 85. 2 85. 3 85. 3 85. 2 85. 3 85. 3	14, 858 16, 319 10, 840 19, 966 17, 268 17, 268 18, 774 18, 920 17, 561 16, 644 20, 746 22, 349 12, 602 13, 331 16, 16, 444 16, 203 13, 005 16, 203 16, 203 16, 203 16, 203 16, 203 17, 561 16, 203 17, 561 16, 203 17, 561 16, 203 16, 203 16, 203 17, 561 16, 203 17, 561 16, 203 16, 203 16, 203 16, 203 16, 203 16, 203 16, 203 16, 203 16, 203 16, 203 17, 561 16, 203 16, 203 16, 203 16, 203 17, 561 16, 203 13, 005 16, 203 17, 005 16, 203 17, 005 16, 203 17, 005 16, 203 17, 005 16, 203 17, 005 17, 005 16, 203 17, 005 16, 203 17, 005 16, 203 17, 005 17, 005 16, 203 17, 005 16, 005 16	15, 353 17, 070 20, 116 19, 547 17, 334 16, 740 18, 750 17, 191 21, 161 22, 072 13, 053 13, 906 16, 061 14, 003 13, 322 15, 063 13, 328 16, 061 14, 003 13, 328 15, 063 13, 328 16, 061 14, 003 13, 328 15, 063 13, 328 16, 061 14, 003 13, 328 15, 073 16, 641 16, 641 16, 641 16, 641 16, 641 16, 641 16, 064 13, 773 8, 749 3, 773 3, 773 3, 687 3, 773 3, 677 3, 773 3, 775 3, 775 3, 775 3, 775 3, 77	15, 690 18, 502 20, 323 20, 079 17, 279 17, 279 17, 279 17, 519 21, 029 23, 501 13, 393 15, 205 16, 519 14, 390 15, 550 16, 519 14, 390 15, 524 14, 908 17, 247 18, 565 24, 297 3, 787 3, 787 3	15, 760 18, 915 20, 308 17, 545 17, 727 19, 236 16, 832 22, 281 12, 308 16, 632 16, 652 16, 651 14, 295 15, 501 14, 356 17, 460 18, 187 3, 740 3, 240 3, 245 3, 756 4, 792 4, 872 4, 874 4, 875 4, 874 4, 875 4, 87	15,709 19,214 20,711 20,477 17,747 18,264 17,260 18,008 22,197 13,481 16,634 14,439 14,568 14,576 14,568 14,576 14,568 14,576 14,568 14,576 14,568 14,576 14,568 14,576 14,568 14,576 14,568 14,576 14,568 14,576 14,568 14,576 14,568 14,576 14,577 14,576 14,576 14,576 14,576 14,576 14,576 14,576 14,576 14,576 14,577 14,576 14	15,600 18,808 20,754 17,8428 18,408 18,404 17,8428 18,404 18,404 22,878 13,354 16,277 17,144 14,885 15,100 17,570 2,375 3,354 15,100 17,570 3,354 3,358 3,358 4,539 3,358 4,898 4,9988 4,9988 4,9988 4,9988 4,9988 4,9988 4,9988 4,9988 4,	15,084 18,663 20,296 17,663 18,684 18,723 18,823 20,953 18,823 20,953 16,841 12,953 16,841 12,953 16,841 14,955 12,859 14,860 14,955 12,859 14,860 14,955 12,859 14,860 14,955 12,859 14,860 14,977 14,860 14,977 14,850 14,778 14,778	15, 584 10, 1/3 20, 038 20, 038 20, 038 11, 7, 277 18, 601 18, 674 19, 070 22, 047 22, 047 22, 047 22, 047 22, 047 12, 376 13, 376 15, 707 14, 887 14, 810 13, 122 15, 237 14, 810 13, 122 15, 237 14, 810 13, 122 15, 237 14, 810 13, 356 14, 857 14, 810 13, 324 3, 356 3, 377 3, 674 3, 304 3, 305 3,	15, 486 19, 343 20, 884 19, 985 16, 603 19, 070 17, 058 19, 070 17, 058 19, 070 17, 058 19, 070 17, 058 19, 070 13, 190 15, 812 17, 121 16, 444 15, 841 15, 146 15, 247 17, 914 17, 967 2, 200 3, 554 3, 3654 3, 3765 3, 37	15,026 16,347 19,607 16,636 19,338 19,630 19,338 19,630 19,338 19,630 19,530 19,530 19,530 12,769 12,776 12	14, 490 19, 150 21, 110 19, 388 16, 235 19, 388 19, 087 19, 276 18, 067 13, 678 23, 305 22, 509 12, 220 15, 577 17, 203 15, 567 14, 306 12, 953 15, 567 14, 306 14, 306 14, 306 14, 306 15, 345 17, 838 2, 270 18, 345 17, 838 2, 270 18, 345 1, 368 2, 270 1, 367 1,	14,070 19,443 21,053 18,998 18,908 18,200 18,607 19,392 18,135 18,716 22,124 22,509 11,854 15,875 15,605 12,900 14,849 15,541 14,372 15,525 15,226 12,900 14,849 15,541 14,372 15,547 16,541 15,547 16,541 16,541 16,547 17,703 3,547 3,54

¹ Arithmetic average of the 12 months.

GENERAL TABLES

	Number	Average	Per cent					1	lamber en	iployed in	.				
Year	of estab- lishments reporting	of em- ployees 1	employ- ment is of maxi- mum	January	February	Merch	April	May	June	July	August	Septem- ber	October	Novem- ber	Decsro- ber
All employees: 1014	41 59 78 323 933 104 114 107 109 119 120 41 59 78 33 106 114 107 109 119 120 41 14 107 109 119 120	21, 088 28, 010 42, 401 55, 418 49, 236 61, 671 31, 270 46, 864 47, 207 25, 645 39, 328 54, 635 41, 635 54, 645 41, 635 54, 645 40, 213 2, 646 40, 213 2, 200 6, 281 6, 281 7, 301 6, 281 6, 281 6, 281 7, 301 6, 281 6, 281 7, 301 6, 281 6, 281 6, 281 6, 281 7, 281 6, 281 7, 285 7, 28	74.6 60.1 71.6 86.8 86.8 86.8 86.8 87.5 86.8 87.5 86.8 87.5 87.0 88.3 70.2 88.0 71.4 88.9 81.0 71.4 88.9 81.0 71.4 88.9 81.0 71.4 88.9 81.0 71.4 88.8 71.4 88.8 71.4 88.8 71.4 88.8 71.4 88.8 71.4 88.8 71.4 88.8 71.4 88.8 71.4 88.8 71.4 71.4 88.8 71.4 71.4 71.4 71.4 71.4 71.4 71.4 71.4	19, 106 19, 763 25, 763 26, 763 26, 763 26, 765 26, 765 26, 765 26, 765 26, 775 276, 877 22, 240 40, 885 44, 882 44, 882 44, 885 44, 882 44, 885 44, 882 2, 656 2, 888 8, 3, 476 2, 888 8, 476 2, 888 8, 8, 127 4, 120 4, 120	21, 555 21, 221 36, 555 56, 055 56, 055 56, 057 56, 057 57, 057 56, 057 56, 057 56, 057 57, 057 56, 057 57, 057 56, 057 57, 057 56, 057 57, 057 56, 057 57, 05	22, 511 23, 304 40, 376 56, 190 56, 190 50, 767 73, 858 54, 464 47, 484 56, 190 56, 767 73, 858 54, 464 47, 484 50, 959 37, 232 54, 627 40, 412 2, 345 54, 603 54, 603	25, 081 20, 454 45, 126 56, 245 46, 634 56, 245 56, 24	34 , 226 36 , 754 56 , 1289 56 , 1289 56 , 1289 57 , 550 56 , 1289 57 , 550 57 , 570 57 , 570 5	21, 647 20, 332 42, 576 58, 642 58, 643 58, 663 63, 918 74, 666 50, 573 44, 631 19, 628 50, 573 44, 631 19, 628 54, 989 29, 813 42, 037 36, 337 2, 119 2, 557 5, 036 8, 653 8, 6, 155 8, 155 8	20, 866 31, 027 41, 081 50, 139 62, 391 67, 814 64, 094 36, 514 42, 966 38, 514 42, 966 38, 925 55, 443, 978 44, 978 60, 180 32, 267 44, 978 60, 180 32, 267 44, 31, 684 60, 180 32, 267 3, 056 3, 056 3, 056 5, 914 3, 056 5, 914 4, 834 5, 928 5, 904 6, 040	19, 544 30, 163 42, 661 54, 639 81, 569 87, 545 48, 060 42, 048 46, 57, 450 42, 048 46, 57, 450 42, 048 46, 57, 450 50, 973 39, 645 53, 540 43, 045 43, 045 35, 786 33, 540 43, 046 43, 047 43, 046 43, 046 44, 056 5, 156 4, 005 5, 156 5, 016 5, 016	19, 889 30, 267 42, 670 52, 885 47, 076 141, 376 23, 930 44, 632 39, 570 51, 345 17, 719 39, 582 48, 986 38, 282 64, 188 36, 889 30, 524 41, 010 2, 170 2, 288 33, 567 44, 010 2, 170 2, 288 33, 567 44, 010 2, 170 2, 288 33, 567 44, 010 2, 170 2, 288 33, 567 44, 010 2, 170 2, 288 3, 900 5, 079 3, 900 5, 079 3, 900 5, 079 3, 900 5, 079 5,	19, 393 30, 826 43, 733 52, 335 45, 9226 75, 2026 44, 056 81, 592 75, 2026 44, 056 81, 592 76, 2026 44, 056 81, 592 76, 2026 44, 056 81, 592 84, 056 84, 05	19, 501 31, 065 46, 272 52, 551 46, 031 77, 335, 073 31, 491 47, 080 41, 985 49, 672 17, 362 17, 362 17, 362 18, 063 43, 063 43, 063 43, 063 43, 063 43, 063 44, 075 41, 985 43, 067 70, 421 31, 414 27, 942 41, 808 3, 567 41, 808 4, 267 4, 7, 77 4, 985 4, 267 4, 277 4, 2777 4, 2777 4, 2777 4, 2777 4, 2777 4,	18, 084 32, 924 49, 445 51, 419 46, 528 80, 735 32, 337 47, 045 43, 600 50, 310 10, 595 30, 446 46, 197 71, 456 39, 951 77, 456 30, 957 30, 9577 30, 9577 30, 9577 30, 9577 30, 9577 30, 9577 30, 95

¹ Arithmetic average of the 12 months.

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	Number	Å verbæ	Per cent					N	lumber en	ployed in					
Year	of estab- lishmants reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	April	Мау	June	July	August	Septem.	October	Novem- ber	Decem- ber
All employees: 1914 *		****			*	*****							*******		
1915 * 1916 * 1917 *			*********	**********			***********	************			**********	*****			*******
1918 1919 1920 1921 1921 1922 1923	98 86 79 72 72 75	49, 236 63, 981 60, 005 29, 597 40, 165 42, 885	86.8 66.1 61.3 72.2 63.8	48, 929 51, 295 76, 109 21, 988 32, 241 40, 257	50, 688 53, 896 76, 401 22, 563 34, 062 49, 193	49, 742 54, 853 79, 077 23, 739 34, 643 50, 384	48, 634 56, 434 80, 513 29, 078 35, 224 51, 040	50, 128 59, 582 78, 283 33, 400 89, 285 50, 581	52, 885 61, 738 72, 917 81, 868 48, 331 46, 185	52, 391 65, 502 64, 228 34, 308 44, 660 82, 294	51, 809 69, 747 48, 007 36, 868 44, 409 38, 107	47, 078 70, 037 39, 032 32, 230 42, 983 35, 629	45, 922 72, 610 42, 389 29, 862 43, 084 36, 630	46, 031 74, 734 88, 503 29, 635 43, 509 88, 193	40, 838 77, 579 29, 343 30, 597 44, 442 89, 920
1924 Males: 1914 ⁴ 1915 ⁴	68	42, 412	81.9	40, 620	\$1, 747	42, 292	41, 847	40, 499	38, 262	38, 730	42,081	40, 788	40, 100	49,719 	ед, жи
1916 3 1917 3 1918	93 86 79 72 72 72	41, 935 58, 441 55, 239 20, 026 30, 289 37, 407	81.0 05.9 35.7 59.6 71.4	44, 067 45, 799 60, 821 19, 316 28, 963 41 534	45, 262 48, 514 70, 634 19, 606 80, 602 43, 842	43, 700 49, 440 78, 114 20, 910 81, 201 44, 403	42, 398 51, 407 74, 582 25, 996 81, 765 44, 883	43, 601 84, 700 72, 642 80, 177 85, 595 44, 546	44, 848 56, 928 67, 318 28, 816 39, 437 40, 238	44, 278 60, 471 59, 147 51, 194 40, 553 27, 087	43, 102 64, 419 44, 207 83, 484 40, 557 83, 077	38, 282 64, 581 35, 880 29, 456 39, 028 81, 005	36, 069 66, 841 88, 090 27, 187 38, 910 31, 684	87, 067 68, 714 80, 550 26, 770 89, 011 82, 874	89, 951 69, 455 26, 607 27, 505 89, 850 34, 483
1924 Fomales: 1914 * 1915 *	63	86, 699	82.0	86, 035	86, 187	80, 879	86, 177	86, 168	83, 340	88, 935	36, 622	40, 678	89, 740	38, 237	86, 721
1017 * 1018 . 1919 . 1920 . 1922 . 1922 . 1923 . 1924 .	03 86 79 72 72 75 03	7, 301 5, 540 4, 706 2, 971 8, 806 5, 418 5, 713	52. 5 59. 2 46. 0 70. 0 71. 4 76. 7 78. 0	4, 862 5, 196 5, 788 2, 087 8, 278 4, 723 5, 585	5, 426 5, 382 5, 867 2, 957 3, 460 5, 351 5, 610	6,042 5,103 5,963 2,822 3,442 5,981 5,718	6, 230 5, 027 6, 031 8, 062 3, 459 6, 157 5, 670	6, 525 4, 873 5, 741 3, 223 3, 090 6, 035 5, 318	8,037 4,810 5,599 3,052 8,894 5,047 4,922	8, 113 5, 091 5, 081 8, 174 4, 097 5, 207 4, 800	8, 467 5, 328 4, 340 3, 374 3, 852 5, 080 6, 459	8, 704 5, 456 3, 740 2, 774 3, 955 4, 824 6, 000	9, 203 5, 760 3, 308 2, 085 4, 174 4, 910 6, 365	8,054 6,020 8,007 2,859 4,428 4,428 4,419 8	0, 887 8, 124 2, 736 3, 002 4, 592 5, 443 6, 579

TABLE 26 .- WAGE EARNERS: BUBBER-TIRES AND TUBES

1 Arithmetic average of the 12 months.

• Figures not obtainable.

GENERAL TABLES

TABLE 27.-WAGE EARNERS: TEXTILES

	Number	Average	Per cent					N	lumber en	ployed in-			~~~~		
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	Apríl	Мау	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914	535 657 678 708 757 767 810 680 689 679 687 757 767 810 689 659 689 679 689 657 757 767 757 767 810 689 657 657 810 689 679 687 657 835 657 857 857 857 857 857 857 857 857 857 8	81, 102 85, 497 36, 925 40, 503 88, 305 41, 058 38, 364 41, 058 34, 315 41, 058 37, 556 40, 234 13, 303 13, 438 13, 373 11, 399 15, 201 13, 658 24, 657 25, 568 24, 568 24, 657 26, 568 24, 569 24,	83,0 90,3 90,3 95,5 88,5 91,1 88,5 91,8 80,0 92,7 80,5 80,0 92,5 80,5 91,8 80,0 92,5 80,5 91,8 80,0 92,5 80,5 91,1 80,5 80,5 91,5 80,5 91,5 80,5 80,5 81,1 80,5 80,5 80,5 80,5 80,5 80,5 80,5 80,5	82 , 523 33, 280 37, 202 39, 363 39, 537 37, 202 38, 383 37, 202 34, 446 41, 555 44, 555 10, 751 11, 463 12, 850 13, 650 12, 661 14, 772 21, 817 24, 352 25, 840 21, 877 24, 619 37, 833 18, 487 22, 723 27, 287	33, 647 36, 803 39, 335 41, 033 41, 033 41, 033 43, 814 31, 740 43, 814 42, 28 11, 051 12, 557 16, 557 17, 558 16, 557 16, 557 17, 558 16, 557 17, 558 16, 557 16, 557 16, 557 17, 558 16, 557 16, 557 16, 557 17, 558 16, 557 17, 558 17, 558	83, 452 83, 453 85, 557 41, 559 85, 454 85,	33, 043 35, 920 36, 344 41, 501 53, 344 43, 305 37, 356 45, 221 44, 23, 356 45, 221 11, 149 12, 531 14, 312 14, 312 14, 315 11, 149 12, 531 14, 312 14, 315 11, 188 24, 576 14, 170 21, 834 83, 576 22, 799 23, 090 24, 414 23, 605 24, 414 24, 605 24, 414 24, 605 24, 414 24, 605 24, 414 25, 605 24, 414 26, 605 24, 414 26, 605 24, 414 26, 605 26, 605 26, 605 27, 605 2	81, 687 34, 3352 389, 141 40, 675 36, 715 36, 775 45, 785 45, 775 30, 778 45, 775 45, 775 45, 775 45, 775 45, 775 12, 336 12, 336 12, 336 12, 336 11, 244 12, 554 12, 555 12,	81, 209 34, 827 38, 228 39, 781 41, 540 37, 615 43, 330 37, 450 45, 504 37, 450 10, 883 37, 450 12, 333 13, 208 14, 682 12, 333 13, 208 14, 682 12, 884 14, 682 12, 884 14, 682 15, 546 15, 566 16, 636 16, 636 16, 636 16, 636 16, 636 17, 751 127, 784 24, 781 27, 784 24, 781 27, 784 24, 594 24, 594 24, 594 25, 516 26, 517 27, 784 24, 751 27, 784 24, 751 27, 784 24, 751 27, 784 24, 751 27, 784 24, 751 27, 784 24, 751 27, 784 24, 751 24, 390 24, 882 24, 8	30, 381 34, 864 38, 730 42, 171 34, 545 34, 255 37, 790 45, 408 37, 997 45, 408 37, 990 45, 408 37, 990 45, 408 37, 990 12, 355 13, 293 13, 507 14, 177 13, 507 15, 555 11, 604 15, 588 18, 670 19, 754 22, 509 19, 754 22, 474 23, 041 19, 754 23, 041 19, 754 24, 474 26, 588 19, 670 19, 754 22, 509 10, 754 22, 509 23, 947 10, 754 24, 474 26, 588 19, 670 19, 754 26, 588 19, 670 10, 754 26, 588 10, 670 10, 754 26, 588 10, 670 10, 754 26, 670 27, 994 26, 671 26, 672 26, 672 27, 994 26, 674 26, 675 27, 994 26, 676 27, 994 26, 676 27, 994 26, 676 27, 994 26, 677 27, 994 26, 677 27, 994 26, 674 26, 674 26, 674 27, 994 26, 674 26, 674 27, 994 26, 674 26, 674 27, 994 26, 674 26, 674 26, 674 26, 674 26, 674 27, 994 26, 674 26,	30, 327 35, 351 36, 355 40, 107 40, 855 41, 450 38, 746 38, 746 38, 746 12, 459 13, 533 13, 533 13, 524 14, 496 11, 544 11, 544 11, 544 11, 544 11, 545 15, 132 18, 189 19, 951 122, 953 12, 567 12, 567 13, 567 14, 567 15, 567 14, 5	30, 382 36, 310 39, 486 39, 892 41, 137 40, 345 35, 709 28, 210 44, 148 39, 945 12, 603 13, 565 13, 576 14, 254 14, 123 13, 555 13, 556 13, 979 14, 254 14, 123 11, 757 18, 339 14, 939 14, 93	\$0, 182 36, 855 40, 084 40, 340 40, 340 40, 340 40, 340 42, 257 38, 660 38, 821 44, 668 44, 668 44, 668 44, 668 44, 668 44, 668 12, 716 13, 651 13, 651 13, 650 12, 001 13, 620 19, 969 24, 433 26, 602 27, 876 25, 679 26, 600 24, 549 26, 600 26,	453 453 457 855 855 855 855 857 857 855 857 855 857 855 857 855 857 855 857 855 857 855 857 855 857 855 857 855 857 855 857 857	27, 912 35, 5431 35, 5431 35, 110 37, 099 42, 978 33, 651 33, 651 34, 656 34, 656 34, 657 34,

¹ Arithmetic average of the 12 months.

78 VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

	Number	Average	Per cent					N	lumber en	ployed in-	-				
Year	of estab- lishments reporting	of em- ployees ¹	employ- ment is of maxi- mum	January	February	March	April	Мау	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914	30 81 28 22 32 32 34 34 34 34 34 34 34 34 32 32 32 32 32 32 32 32 32 32 32 32 32	3, 874 3, 485 4, 120 4, 177 4, 905 3, 836 4, 417 4, 905 4, 187 744 911 972 972 975 928 1, 019 839 9, 054 991 1, 054	80. 1 80. 5 85. 6 86. 3 79. 2 70. 3 54. 7 86. 4 85. 8 78. 8 78. 8 79. 8 79. 8 79. 8 79. 8 79. 8 79. 8 79. 8 77. 3 88. 0 79. 8 77. 3 88. 0 79. 7 84. 9 79. 8 77. 3 88. 0 79. 5 84. 9 79. 8 77. 3 88. 0 79. 5 84. 9 79. 8 77. 3 88. 0 77. 3 88. 0 79. 8 77. 3 88. 0 77. 4 77. 4 78. 8 78. 0 78. 0 78. 0 78. 0 77. 4 78. 0 78. 0 77. 0 78. 0	4, 221 8, 135 8, 687 4, 373 4, 642 3, 928 4, 969 2, 924 3, 947 4, 263 762 658 834 931 923 840 1, 062 704 891 993 995	4, 173 8, 101 3, 891 4, 692 4, 691 4, 693 5, 691 4, 152 5, 691 4, 152 4, 478 4, 200 768 652 859 966 933 837 1, 081 764 956 1, 031	4, 203 8, 188 8, 980 4, 656 8, 323 8, 766 4, 457 4, 457 932 935 935 935 935 935 935 935 935	4, 185 3, 196 4, 038 4, 079 4, 828 8, 790 5, 325 3, 573 4, 534 5, 573 4, 534 6, 575 925 4, 334 974 974 974 956 854 1, 064 1, 070	4, 211 3, 373 4, 125 4, 728 6, 0720 4, 627 5, 933 4, 421 800 717 920 972 1, 001 873 1, 131 829 994 1, 063 988	4,000 3,444 4,146 4,860 5,639 4,224 4,171 4,475 5,638 4,171 4,475 5,286 5,286 7,04 7,64 7,65 7,64 7,65 8,896 8,896 8,996 1,017 1,078 8,1017 1,078	8, 597 8, 531 4, 203 5, 046 5, 440 4, 548 5, 440 4, 549 4, 549 913 1, 007 1, 067 1, 047 1, 047 1, 047 1, 047 1, 048 1, 104 1, 2853	3, 642 3, 653 4, 228 4, 679 5, 183 4, 850 5, 434 4, 176 4, 414 5, 117 4, 021 721 843 919 995 1, 063 1, 016 1, 116 6, 000 907 1, 073 945	3, 605 8, 737 4, 257 4, 954 4, 849 6, 181 4, 182 4, 484 5, 226 4, 484 5, 226 4, 484 722 820 632 902 1, 022 902 1, 022 907 1, 053 830 907	3, 713 3, 860 4, 294 4, 021 5, 059 4, 052 4, 04 4, 404 4, 486 6, 240 4, 302 742 821 936 963 993 993 993 993 993 993 993 993	3, 461 3, 461 4, 313 4, 752 4, 495 5, 133 4, 595 4, 598 4, 598 4, 598 4, 598 4, 598 4, 594 537 930 940 940 940 947 1, 031 775 918 1, 004 1, 004 1, 002 902	8, 416 3, 816 4, 278 4, 718 4, 278 4, 278 4, 278 5, 165 3, 083 3, 994 4, 405 3, 769 648 827 947 948 834 1, 037 671 885 991 1, 000
Females: 1014 1915 1916 1917 1918 1920 1921 1922 1923 1924	30 81 22 32 32 32 32 32 32 32 34 34 34	8, 130 2, 731 3, 209 3, 802 3, 844 3, 489 3, 945 2, 997 3, 427 3, 883 2, 188	80. 0 80. 9 84. 3 84. 8 79. 5 67. 9 53. 6 64. 1 85. 0 75. 0 83. 3	8, 459 2, 477 2, 853 3, 442 8, 619 3, 038 3, 907 2, 220 3, 056 8, 258 8, 058	8,407 2,449 2,092 3,026 3,658 2,802 4,046 2,337 3,196 3,447 3,189	8, 451 2, 608 3, 674 3, 754 4, 226 4, 226 4, 226 3, 465 3, 783 8, 325	8, 301 2, 521 3, 113 3, 705 8, 873 2, 930 4, 241 2, 823 8, 521 3, 981 3, 314	3, 411 2, 656 3, 756 4, 019 3, 154 4, 496 3, 104 3, 427 4, 029 3, 235	8, 236 2, 686 3, 219 3, 852 4, 262 3, 449 8, 225 8, 458 4, 308 4, 308 4, 308 4, 308	2,850 2,350 4,059 4,332 8,617 4,338 8,217 3,493 4,216 3,136	2, 921 2, 810 3, 309 3, 984 4, 120 3, 838 4, 318 3, 280 3, 417 4, 044 3, 073	2, 883 2, 917 3, 325 3, 902 3, 827 3, 882 4, 128 3, 286 3, 408 4, 162 3, 403	2, 970 3, 029 3, 358 3, 958 3, 629 4, 031 3, 734 3, 464 3, 500 4, 162 3, 341	2,808 2,990 3,383 3,812 3,596 4,105 3,003 3,301 3,504 3,812 3,604 3,812 3,072	2, 768 2, 969 3, 331 3, 790 3, 442 4, 128 4, 128 3, 106 3, 525 3, 405 2, 883

TABLE 28.-WAGE EARNERS: TEXTILES-HOSIERY AND KNIT GOODS

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Arithmetic average of the 12 months.

GENERAL TABLES

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TABLE 29 .-- WAGE EARNERS: TEXTILES-MEN'S CLOTHING (INCLUDING SHIRTS AND COAT PADS)

<u></u>	Number	Average	Per cent minimum					1	lumber en	ployed in					
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	April	Мау	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914. 1915. 1916 -	2226 151	9, 684 9, 808	\$8. 3 87. 3	9, 787 8, 518	10, 033 8, 946	10, 161 9, 448	10, 277 9, 407	9, 971 9, 804	9, 459 9, 241	9, 210 9, 063	9, 385 9, 298	9, 504 9, 478	9, 604 9, 749	9, 393 9, 570	8, 870 9, 618
1917 7	161 168 191 175 178 189 184	9,067 9,497 10,974 10,358 11,771 18,209 18,129	85. 6 77. 7 77. 0 64. 3 87. 8 80. 9 87. 7	9,023 8,668 10,946 7,644 10,957 12,338 18,372	9, 307 8, 730 11, 208 8, 942 11, 511 12, 907 13, 710	9, 659 8, 680 11, 653 9, 658 11, 534 13, 205 13, 928	9, 513 8, 549 11, 626 10, 016 11, 679 13, 277 18, 748	9, 206 8, 762 11, 788 10, 070 11, 645 13, 434 18, 460	9, 165 9, 089 11, 187 10, 207 11, 711 18, 898 12, 889	9,094 9,410 10,831 10,260 11,665 13,193 12,218	8, 951 9, 769 11, 063 10, 918 11, 480 13, 327 12, 638	9, 120 10, 002 11, 040 11, 356 11, 930 13, 471 13, 070	8, 870 10, 450 10, 872 11, 674 12, 280 13, 671 13, 167	8, 546 10, 837 10, 387 11, 887 12, 465 13, 728 12, 826	8, 265 11, 001 9, 041 11, 503 12, 411 13, 282 12, 666
1914. 1915. 1916 \	226 161	8, 086 2, 846	86. 4 86. 2	8, 072 2, 575	8, 145 2, 768	8, 206 2, 891	8, 278 2, 910	8, 160 2, 838	8, 072 2, 793	2, 908 2, 769	8, 003 2, 834	3, 040 2, 886	8, 056 8, 024	2, 958 2, 987	2, 831 2, 942
1917	161 108 191 176 178 189 184	2,703 2,817 3,221 2,080 8,444 8,772 8,603	85. 1 77. 0 78. 8 72. 1 92. 9 87. 5 92. 8	2, 721 2, 499 8, 179 2, 398 8, 326 8, 326 8, 449 8, 864	2, 703 2, 640 8, 303 2, 645 3, 365 8, 531 8, 594	2, 887 2, 585 8, 443 2, 848 8, 300 8, 300 8, 097 8, 985	2, 869 2, 508 8, 308 2, 024 8, 436 8, 436 8, 936	2, 843 2, 560 3, 438 2, 906 3, 892 3, 801 8, 910	2, 744 2, 725 3, 287 2, 920 8, 400 8, 829 8, 774	2, 699 2, 827 8, 165 8, 008 8, 358 8, 358 8, 707 8, 697	2, 725 2, 952 8, 256 8, 078 8, 446 8, 875 8, 797	2, 676 8, 035 3, 280 8, 202 3, 524 8, 918 3, 641	2, 606 3, 133 3, 203 3, 312 3, 581 3, 562 8, 946	2, 509 3, 196 3, 039 3, 327 3, 549 3, 943 3, 943 3, 855	2, 458 8, 245 2, 712 8, 203 8, 542 3, 804 8, 772
1914 1918 1946 •	226 151	6, 569 8, 457	86. 8 85. 3	6, 665 5, 938	6, 888 6, 183	6, 955 8, 567	6, 999 6, 497	0, 811 6, 471	0, 387 6, 44 8	6, 244 6, 294	6, 382 6, 464	0, 404 6, 592	6, 548 6, 795	6, 435 6, 683	6, 039 6, 676
1918. 1919. 1920. 1921. 1922. 1923. 1923.	161 168 191 175 178 199 184	6, 304 6, 640 7, 783 7, 307 8, 327 9, 497 9, 278	85.8 77,9 76.3 61.8 85.5 90,6 85.9	6, 302 6, 169 7, 707 5, 240 7, 611 8, 887 9, 508	6, 004 6, 150 7, 995 6, 297 6, 146 9, 376 9, 816	8, 772 8, 005 8, 210 6, 810 8, 144 9, 508 9, 448	0, 044 6, 041 8, 228 7, 052 8, 243 9, 518 9, 507	6, 453 6, 202 8, 800 7, 173 8, 253 9, 633 9, 560	6, 421 6, 364 7, 900 7, 377 8, 305 9, 569 9, 108	6, 895 6, 602 7, 666 7, 252 8, 297 9, 396 8, 516	0, 226 0, 817 7, 810 7, 840 8, 040 9, 452 8, 841	6, 444 6, 967 7, 810 8, 154 8, 406 9, 553 9, 139	6, 264 7, 837 7, 669 8, 362 8, 708 9, 809 9, 221	6,037 7,641 7,348 8,560 8,906 9,786 8,971	5, 807 7, 756 6, 320 8, 240 8, 849 9, 478 8, 884

¹ Arithmetic average of the 12 months.

I Figures not obtainable.

80 VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

	Number	Avoraze	Per cent					И	lumber en	ployed in-					
Year	of estab- lishments reporting	number of em- ployees I	employ- ment is of maxi- mum	January	February	Merch	April	Мву	June	July	August	Septem- ber	Ootober	Novem- ber	Decom- ber
All employees: 1914 1916	79 104	6, 208 8, 814	67. 1 82. 4	6, 633 7, 914	7, 228 9, 160	6, 916 9, 442	6, 526 8, 949	5, 529 8, 022	6, 029 8, 638	6, 383 8, 992	6, 693 9, 367	6, 552 9, 455	6, 134 9, 350	6, 123 8, 707	4, 847 7, 787
1917 * 1918 - 1919 - 1920 - 1921 - 1922 - 1923 - 1924 -	117 128 127 131 121 112 109	8, 028 8, 158 7, 408 6, 091 5, 671 5, 883 4, 748	81.7 82.0 60.8 76.6 86.2 75.9 73.2	7, 944 7, 739 8, 591 5, 496 5, 312 5, 770 6, 028	8, 599 8, 104 8, 644 6, 418 6, 041 6, 229 5, 348	8, 626 8, 123 8, 500 0, 614 6, 056 6, 289 6, 255	8, 437 7, 000 8, 054 6, 675 5, 674 6, 059 5, 266	7, 792 7, 382 7, 609 6, 202 5, 330 6, 971 4, 930	8, 085 7, 935 7, 574 6, 437 5, 046 5, 980 4, 405	8, 675 8, 547 7, 279 6, 645 5, 884 6, 384 4, 589	7, 572 9, 007 7, 448 6, 675 5, 944 6, 288 4, 883	8, 324 8, 971 7, 184 6, 104 5, 856 5, 949 4, 604	8,070 8,318 6,710 5,628 5,742 5,585 4,576	7, 123 7, 790 6, 070 6, 178 6, 349 5, 241 4, 056	7,086 7,979 6,258 6,113 6,219 4,847 3,912
Males: 1914 1915 1916	79 104	2, 373 2, 958	70.6 77.8	2, 481 2, 702	2, 664 3, 070	2, 631 8, 153	2, 440 2, 918	2, 135 2, 530	2, 374 2, 855	2, 481 3, 038	2, 569 3, 240	2, 606 3, 220	2, 396 8, 173	2, 017 2, 964	1, 880 2, 639
1917 1 1918	117 128 127 131 121 112 109	2, 615 2, 512 2, 506 1, 767 1, 545 1, 444 1, 264	73, 2 76, 5 65, 1 78, 6 85, 7 79, 1 79, 5	2, 763 2, 382 2, 849 1, 768 1, 453 1, 438 1, 310	2, 954 2, 505 2, 860 1, 898 1, 644 1, 542 1, 397	2, 930 2, 562 2, 817 1, 910 1, 629 1, 553 1, 353	2, 781 2, 470 2, 699 1, 824 1, 567 1, 498 1, 347	2, 434 2, 147 2, 310 1, 599 1, 410 1, 453 1, 256	2, 618 2, 308 2, 624 1, 745 1, 604 1, 428 1, 163	2, 815 2, 613 2, 430 1, 893 1, 629 1, 540 1, 276	2, 375 2, 769 2, 560 1, 955 1, 646 1, 610 1, 340	2, 671 2, 806 2, 530 1, 806 1, 589 1, 431 1, 251	2, 647 2, 656 2, 456 1, 693 1, 581 1, 368 1, 235	2, 228 2, 425 2, 264 1, 670 1, 461 1, 310 1, 110	2, 162 2, 447 1, 801 1, 537 1, 411 1, 228 1, 131
1914. 1915. 1916 *	79 104	8, 835 5, 857	65. 0 81. 9	4, 052 5, 212	4, 564 6, 080	4, 885 6, 289	4, 088 6, 031	8, 394 5, 502	3, 655 5, 783	3, 902 5, 954	4, 124 6, 127	4, 048 6, 235	3, 738 6, 177	3, 106 6, 743	2, 967 5, 148
1917 1 1918	117 128 127 131 121 121 112 109	5, 413 5, 046 4, 902 4, 324 4, 126 4, 439 3, 484	83. 5 83. 8 58. 7 75. 3 86. 2 74. 7 70. 4	5, 181 5, 357 5, 742 3, 728 8, 859 4, 332 8, 718	5, 645 5, 599 5, 784 4, 520 4, 397 4, 687 3, 949	5, 696 5, 660 5, 749 4, 704 4, 417 4, 736 3, 902	5, 656 5, 529 5, 455 4, 751 4, 107 4, 561 3, 919	5, 358 5, 285 5, 190 4, 603 3, 914 4, 518 3, 674	5, 467 5, 567 5, 060 4, 692 4, 142 4, 552 3, 302	5,860 5,934 4,849 4,752 4,255 4,255 4,844 8,314	5, 197 6, 248 4, 888 4, 720 4, 298 4, 778 3, 543	5, 653 6, 105 4, 654 4, 258 4, 267 4, 218 3, 413	5, 423 5, 662 4, 254 3, 935 4, 161 4, 197 3, 841	4, 895 5, 365 3, 806 3, 888 3, 925 2, 946	4, 924 6, 632 3, 397 3, 676 3, 808 3, 619 2, 781

TABLE 30.-- WAGE EARNERS: TEXTILES-- WOMEN'S CLOTHING (INCLUDING COBSETS)

¹ Arithmetic average of the 12 months,

Figures not obtainable.

GENERAL TABLES

TABLE 81.-WAGE EARNERS: TEXTILES-CLOTH GLOVES

	Number	Average	Per cent minimum			, ,		ł	tumber ou	ployed in	_				
Year	of estab- lishmante reporting	ployees (mont is of maxi- mum	January	February	Merch	April	May	June	July	August	Septem-	October	Novem- bor	Decem- ber
All employees: 1914 - 1916 -								********	*****				******		******
1917 3	88 83 85 84 80 90	2, 740 9, 178 2, 434 1, 527 1, 740 9, 474	88, 8 70, 8 80, 1 48, 0 78, 0 78, 0	2,490 2,010 2,102 1,871 1,638 0,079	9, 551 9, 409 2, 204 1, 852 1, 018	2, 897 2, 281 2, 361 1, 776 1, 017	2, 589 2, 140 2, 437 1, 385 1, 576	2, 614 1, 800 2, 420 1, 314 1, 504	2,714 1,851 2,450 1,251 1,630	2,802 2,020 9,488 070 1,841	2,000 9,113 2,601 1,100 1,903	2, 885 2, 128 2, 501 1, 322 1, 750	2, 883 2, 180 2, 681 1, 649 1, 877	2,004 2,100 2,594 1,786 1,000	9,000 9,985 9,148 9,083 1,875
1924 Malos: 1914 * 1915 * 1915 *	20	2, 839	78.8	2, 025	9, 201 9, 614	2, 207 9, 680	9, 889 2, 430	2, 337 2, 378	2, 469 2, 243	9, 626 1, 924	9, 633 9, 007	9, 870 9, 244	2, 630 2, 305	9, 736 9, 989	9, 818 9, 348
1917 1	85 83 80 80 80 80 80	870 807 370 908 921 810 815	82.1 75.1 71.3 61.8 81.3 72.7 82.6	304 328 370 230 218 269 842	378 308 383 221 216 283 349	348 284 380 210 209 293 345	850 970 877 205 210 206	340 960 871 191 900 308	850 972 892 185 204 819	878 929 808 158 223 825	400 312 410 143 228 333	424 810 422 102 226 832 832	407 828 809 911 920 810	408 8.30 857 927 941 848	898 846 801 953 246 870
Females: 1914 9 1916 9 1916 9 1917 9	*****			********	****	******	1940	•••••	503				aus	3099	7495 4 **********
1918 1910 1920 1921 1922 1923 1923 1924	85 33 85 80 80 80 80	2, 361 1, 871 9, 045 1, 329 1, 510 2, 158 2, 017	85.0 60.0 79.6 44.6 78.0 78.7 71.7	2, 132 2, 388 1, 822 1, 635 1, 410 1, 804 2, 283	2, 196 2, 101 1, 881 1, 631 1, 402 1, 916 2, 265	2, 240 1, 007 1, 081 1, 600 1, 408 1, 974 2, 235	2, 239 1, 867 2, 000 1, 180 1, 366 2, 086 2, 111	9, 205 1, 000 9, 055 1, 128 1, 364 9, 029 9, 051	2, 355 1, 679 2, 044 1, 060 1, 435 9, 150 1, 949	2, 484 1, 707 2, 090 815 1, 618 9, 301 1, 636	9, 500 1, 801 9, 191 940 1, 675 9, 300 1, 717	2, 431 1, 809 2, 130 1, 130 1, 524 2, 238 1, 526	2,476 1,803 9,980 1,438 1,648 2,311 9,002	2, 501 1, 836 9, 937 1, 500 1, 749 2, 392 1, 963	9, 508 1, 039 1, 847 1, 830 1, 129 2, 448 9, 044

¹ Arithmetic average of the 12 months.

• Figures not obtainable.

Year of estab- ilsbments ployees; eporting number ployees; ployees; employ- of estab- ployees; employ- of estab- ployees; employ- of estab- ployees; mumber of maxi- mum January February March April May June Jnly August Septem- ber October Novem- ber I All employees: 1916 209 12,801 88.2 12,941 13,665 13,774 13,532 13,114 12,380 12,463 12,305 12,481 12,481 12,383 1916 240 12,600 80.0 12,531 13,311 13,813 13,200 12,463 11,825 11,844 12,271 12,415 12,383 1916 240 12,605 80.6 12,205 12,788 13,972 13,840 13,914 13,922 13,066 12,0275 12,962 13,324 13,143 13,922 13,066 12,0275 12,962 13,324 13,143 13,922 13,066 12,033 12,979 13,443 14,177 13,934 13,143 13,						ıployed in-	lumber eu	1					Per cent	Average	Number	h.s
All employees: 209 12,801 88,2 12,941 13,605 13,774 13,632 i3,114 12,380 12,463 12,305 12,148 12,461 12,383 1914 240 12,601 80.0 12,511 13,311 13,813 13,205 12,463 12,405 12,415 12,445 12,321 12,533 1915 240 12,005 89.6 12,205 12,788 12,783 13,205 12,463 12,805 12,415 12,564 1916 242 12,005 89.6 12,205 12,788 13,400 13,144 13,222 13,066 12,075 12,962 13,241 13,132 1917 239 13,405 91.4 13,260 13,650 13,950 13,951 12,977 14,660 14,292 13,941 13,322 12,136 1918 249 13,211 85.4 12,840 13,216 13,131 12,865 12,075 12,683 12,977 13,643 14,177	Decem- bar	Novam- ber	October	Septem- ber	August	July	June	May	April	March	February	January	employ- ment is of maxl- mum	number of ain- ployees 1	of estab- lishments reporting	Year
1015 240 4, 131 82, 7 4, 285 4, 474 4, 646 4, 331 4, 089 3, 552 3, 844 3, 850 8, 960 3, 182 4, 049 1916 242 3, 971 84.9 4, 055 4, 106 4, 133 4, 048 3, 850 3, 844 3, 850 8, 765 3, 786 3, 712 3, 644 1917 2200 3, 815 94.3 2, 085 4, 125 4, 163 4, 043 3, 724 3, 725 3, 024 3, 624 3, 626 3, 148 3, 044 3, 112 3, 104 1918 246 3, 432 76.0 3, 733 3, 999 3, 916 3, 436 3, 305 3, 224 3, 148 3, 048 3, 016 1920 2969 3, 902 89.5 4, 152 3, 194 3, 849 3, 682 4, 063 3, 827 3, 611 3, 547 3, 148 3, 048 3, 633 3, 924 1920 2265 3, 484 84.6 3, 456 3, 653 3, 869 3, 494 3, 682 4, 062 3, 607 3, 676 3, 107	12, 424 12, 578 12, 478 14, 178 14, 526 14, 526 12, 556 4, 114 3, 657 3, 136 4, 114 3, 657 4, 114 3, 657 4, 114 3, 657 4, 114 3, 657 4, 114 3, 656 4, 114 3, 656 4, 115 3, 126 4, 116 4, 116 3, 127 3, 126 4, 116 4, 1164, 116 4, 1164, 116 4, 116 4, 1164, 116 4, 116 4, 116	12, 383 12, 506 12, 136 13, 743 14, 177 16, 190 13, 767 14, 291 13, 458 12, 768 14, 177 14, 291 13, 458 12, 768 3, 911 4, 043 2, 874 3, 016 3, 924 2, 745 3, 185 2, 745 8, 463 8, 262 8, 463 8, 262 8, 463 8, 262 8, 463 8, 262 10, 377 12, 206 10, 222 10, 273 10, 27	12,481 12,415 11,832 13,334 11,913 16,033 13,712 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,700 13,404 13,700 13,700 13,404 13,700 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,700 13,404 13,500 13,500 13,404 13,500 14,5000 14,5000 14,5000 14,5000 14,5000 14,5000 14,5000 14,50000 14,5000000000000000000000000000000000000	12, 148 12, 526 12, 962 12, 777 15, 886 13, 287 12, 560 13, 287 12, 560 14, 575 3, 705 3, 705 3, 707 2, 705 2, 707 2, 705 2, 707 2, 707 2, 705 2, 707 2, 705 2, 707 2, 705 2, 707 2, 705 2, 707 2, 705 2, 707 2, 705 2, 70	12. 305 11. 944 11. 460 12. 075 12. 083 15. 836 12. 991 13. 002 12. 707 12. 226 3. 803 3. 850 3. 850 3. 850 3. 850 3. 850 3. 850 3. 856 3. 876 3. 876 3. 876 3. 876 2. 778 2. 738 8. 004 7. 660 9. 361 9. 431 9. 518 9. 716 9. 731 9. 731 7. 731	12, 463 11, 881 11, 627 13, 066 12, 706 12, 815 16, 011 12, 243 11, 776 11, 955 2, 143 11, 776 11, 955 3, 3054 3, 3054 4, 3, 3054 3, 3056 3, 3057 3, 3057 3, 3056 3, 3056 3, 3056 3, 3057 3, 3056 3, 3056 3, 3056 3, 3056 3, 3057 3, 3056 3, 3	12, 380 12, 446 11, 252 13, 875 12, 728 16, 259 12, 728 16, 259 12, 801 11, 948 12, 861 11, 948 12, 861 11, 948 12, 861 11, 948 12, 861 13, 952 3, 952 3, 953 3, 955 3, 436 3, 955 3, 436 4, 956 3, 955 3, 436 3, 955 3, 436 3, 955 3, 436 4, 956 3, 9566 3, 9566 3, 9566 3, 9566 3, 9566 3, 9566 3, 956	13, 114 12, 689 11, 825 13, 144 12, 927 12, 557 15, 564 11, 640 12, 271 12, 557 15, 564 11, 640 12, 271 12, 320 4, 063 3, 849 3, 879 3, 754 3, 832 3, 833 3,	13, 532 13, 200 12, 376 13, 440 13, 951 13, 951 14, 985 15, 718 13, 951 14, 985 15, 718 13, 167 12, 985 4, 330 4, 331 4, 136 4, 3, 106 7, 3, 496 8, 3, 107 4, 3, 106 7, 3, 496 8, 3, 107 4, 3, 106 7, 3, 496 8, 3, 107 4, 5, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	13, 774 13, 813 12, 787 13, 959 13, 131 15, 521 14, 234 12, 384 13, 825 13, 825 14, 339 5, 217 5, 726 3, 205 3, 217 5, 726 3, 714 3, 869 3, 217 5, 726 3, 714 3, 869 3, 217 5, 726 3, 714 3, 869 3, 217 5, 726 3, 726 3, 727 5, 726 3, 727 5, 726 3, 727 5, 726 3, 727 5, 726 5, 727 5, 726 5, 727 5, 726 5, 727 5, 726 5, 727 5, 726 5, 727 5, 726 5, 726 5, 727 5, 726 5, 727 5, 726 5, 727 5, 727	13, 665 13, 311 12, 768 13, 670 13, 565 15, 310 14, 341 12, 351 13, 073 13, 327 4, 474 4, 478 4, 125 3, 753 3, 942 3, 653 3, 942 3, 655 3, 499 3, 007 9, 268 8, 537 8, 536 9, 812 10, 038 10, 038 9, 812 10, 038 10, 038 9, 812 10, 038 10, 038 9, 812 10, 038 10, 038	12, 941 12, 531 12, 2531 13, 243 13, 405 12, 240 13, 690 13, 590 14, 295 4, 295 4, 295 4, 295 4, 295 4, 295 4, 295 3, 768 3, 152 3, 456 3, 065 8, 726 8, 726	88. 2 80. 0 89. 6 91. 4 84. 8 85. 4 89. 9 87. 5 81. 1 86. 5 89. 4 89. 9 81. 1 86. 5 89. 4 80. 5 89. 4 80. 7 84. 9 84. 9 84. 6 76. 0 77. 6 88. 6 78. 2 88. 6 83. 7 84. 9 84. 9 84. 9 84. 9 84. 6 77. 6 88. 5 78. 2 88. 5 89. 4 88. 5 78. 2 88. 5 88. 5 88. 5 87. 1 88. 5 88. 5 88. 5 88. 5 88. 5 89. 0 80. 7 88. 5 88. 5 88. 5 88. 5 88. 5 88. 5 88. 5 87. 5 88. 5 87. 5 88. 5 88. 5 87. 5 87. 5 88. 5 87. 5 87. 5 88. 5 87. 5 88. 5 87. 5 87. 5 88. 5 87. 5 87. 5 88. 5 87. 1 88. 5 87. 5 87. 1 88. 5 87. 5 87. 1 88. 5 87. 5	12, 801 12, 640 12, 640 12, 645 13, 405 12, 991 13, 211 13, 211 13, 211 13, 211 13, 205 12, 765 12, 76	209 240 242 239 246 249 259 210 210 213 191 209 240 240 240 240 240 240 241 246 246 246 246 246 246 246 246 246 246	Ali employees: 1914

TABLE 32.-WAGE EARNERS: TOBACCO MANUFACTURES

¹ Arithmetic average of the 12 months,

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GENERAL TABLES

TABLE 33 .-- WAGE EARNERS: TOBACCO-BEHANDLING

	Number	Average	Per cent					N	Jumber en	iployed in-					
Year	of estab- lishments reporting	number of sm ployees ¹	employ- ment is of maxi- mum	January	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914 *			******		*******						*****	*****	***	*****	
1916 ¹	74 77	1, 428	59.0 64.3	1, 194 1, 655	1, 181	1,702	1, 863	1,868	1, 097 1 432	1, 435	1, 388	1, 271	I, 169	1, 103	1, 212
1920. 1921. 1922. 1922. 1923.	85 74 69 71	1, 828 1, 650 1, 633 1, 670	78.0 56.9 69.8 48.8	1,003 1,625 1,286 1,336	1, 880 1, 922 1, 278 1, 502	1, 910 2, 102 1, 790 2, 094	1, 813 2, 151 1, 830 2, 131	1, 963 1, 885 1, 731 1, 867	2,035 1,761 1,695 2,022	1, 922 1, 543 1, 307 1, 039	1,795 1,499 1,284 1,562	1, 718 1, 475 1, 451 1, 454	1, 853 1, 720 1, 371 1, 814 1, 647	1, 659 1, 238 1, 617 1, 653	1, 587 1, 224 1, 616 1, 735
1924 Males: 1914 ³ 1915 ³	62	1, 708	73.3	1, 927	1, 795	1, 769	1, 862	2, 040	1, 716	1, 601	1, 558	1, 520	1, 498	I, 528	1, 685
1917 - 1917 - 1918 1919 1920	74 77 85	622 632 769	59, 2 49, 4 67, 3	590 585 044	589 558 055	806 517 880	785 483 770	799 498 810	676 582 621	597 602	605 635	539 022	489 718	477 805	508 977
1921 1922 1923 1923	74 69 71 62	672 615 644 677	62.9 58.9 44.9 64.9	641 507 571 745	792 588 725 717	918 752 964 732	775 760 831 826	699 691 680 804	602 633 712 674	574 448 433 641	579 467 493 621	636 532 468 598	644 611 578 578	610 643 608 538	643 598 657 671
Pemales: 1914 ³ 1916 ³			******	********		*******	****	 *********************************					**********		
1917 *. 1918. 1919. 1920.	74 77 85	801 1, 145 1, 057 079	54.9 73.3 75.8	595 1, 070 959	592 1, 096 925	806 1, 085 1, 021	1, 078 1, 067 1, 043	1,069 1,063 1,144	1, 021 1, 050 1, 210	838 1, 148 1, 221	783 1, 136 1, 103	732 1, 075 1, 066	680 1, 177 1, 064	628 1, 338 987	706 1, 433 944
1922 1923 1924	69 71 62	918 1, 026 1, 030	64. 4 46. 3 74. 6	689 765 1, 182	1, 130 600 777 1, 078	1, 038 1, 130 1, 037	1, 370 1, 070 1, 300 1, 036	1, 186 1, 040 1, 187 1, 236	1, 169 1, 062 1, 310 1, 042	969 859 600 960	920 817 1, 069 931	839 919 986 922	727 903 1,074 923	628 974 1, 045 992	626 959 1, 064 1, 024

¹ Arithmetic average of the 12 months,

Figures not obtainable.

TABLE 34.--WAGE EARNERS: TOBACCO.-CIGABS AND CIGABETTES, CHEWING AND SMOKING TOBACCO, AND SNUFF

	Number	Average	Per cent minimum					ł	lumber en	iployed in					
'Y ear	of estab- lishments reporting	number of em- ployees ¹	employ- ment is of maxi- mum	January	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914 * 1915 *	· · · · · · · · · · · · · · · · · · ·			,			*********	*****	******	* ******	*******		********		********
1916 * 1917 * 1918 1919 1920	172 172 173 184	11, 568 11, 435 13, 899	80.0 89.1 89.6	12, 211 11, 185 13, 761	12, 384 11, 562 13, 430	12, 257 11, 529 13, 611	12,088 11,315 13,900	11,059 11,090 13,701	12, 178 11, 090 14, 224	11, 271 11, 065 14, 089	11, 297 11, 162 14, 041	11,008 11,100 14,108	10, 744 11, 648 14, 204	10, 729 12, 034 14, 531	11, 588 12, 418 13, 027
1921 1922 1923 1924	152 141 142 129	11, 751 11, 223 11, 325 10, 960	85.2 77.8 88.1 88.1	11, 790 11, 000 11, 754 11, 662	12, 419 11, 073 11, 571 11, 532	12, 182 10, 594 11, 731 11, 626	11, 255 10, 165 11, 036 10, 622	10, 679 9, 900 10, 404 10, 280	11, 040 10, 253 10, 839 10, 449	11,000 10,469 10,916 10,546	11, 492 11, 718 11, 145 10, 674	11, 826 11, 836 11, 207 10, 809	12, 341 12, 246 11, 757 11, 112	12, 529 12, 674 11, 805 11, 230	12, 452 12, 738 11, 731 10, 973
Males: 1914 * 1915 * 1915 *		*********		*****			*******	•	******	******			******	*********	****
1915 1910 1920 1921 1921	172 172 184 152 141	2,809 2,750 3,133 2,812 2,851	80. 1 84. 0 86. 5 88. 4 67. 9	3, 169 2, 547 3, 208 2, 814 2, 581	3, 164 2, 622 2, 987 2, 861 2, 562	3, 163 2, 688 2, 825 2, 956 2, 465	8, 131 2, 629 8, 164 2, 724 2, 417	2, 631 2, 612 3, 063 2, 624 2, 358	2, 760 2, 703 3, 237 2, 717 2, 458	2,708 2,726 3,260 2,718 2,655	2, 640 2, 780 3, 183 2, 596 3, 209	2,609 2,753 8,143 2,771 3,235	2, 559 2, 910 8, 188 2, 907 3, 369	2, 539 2, 995 3, 252 2, 937 3, 425	2, 630 3, 031 3, 081 2, 958 3, 474
1923 1924 Females: 1914 # 1916 #	142 129	2, 598 2, 202	88,3 88,9	2, 835 2, 310	2, 774 2, 290	2, 762 2, 325	2, 663 2, 212	2,447 2,199	2, 511 2, 111	2, 481 2, 068	2,483 2,117	2, 549 2, 192	2, 579 2, 192	2, 577 2, 209	2, 515 2, 196
1916 # 1917 * 1918 1919	172 172	8, 759 8, 685	86. 9 88. 8	9, 042 8, 638	9, 220 8, 940	9, 094 8, 841	8, 957 8, 686	8, 428 8, 484	9, 418 8, 393	8, 563 8, 330	8, 648 8, 382	8, 399 8, 347	8, 185 8, 738	8, 190 9, 039	8, 958 9, 387
1920 1921 1922 1923 1923	184 152 141 142 129	8, 939 8, 372 8, 727 8, 758	86. 2 84. 0 81. 5 86. 2 86. 4	8, 976 8, 419 8, 919 9, 352	9, 558 8, 511 8, 797 9, 242	9, 226 8, 129 8, 669 9, 301	8, 531 7, 748 8, 373 8, 410	8, 055 7, 551 7, 957 8, 081	10, 987 R, 323 7, 798 8, 329 8, 338	10, 823 8, 282 7, 814 8, 435 8, 478	10, 858 8, 796 8, 609 8, 662 8, 657	9, 055 9, 055 8, 601 8, 658 8, 617	9, 374 9, 374 8, 878 9, 178 8, 920	11, 279 9, 592 9, 248 9, 228 9, 021	9, 948 9, 496 9, 264 9, 216 8, 775

1 Arithmetic average of the 12 months.

* Figures not obtainable.

GENERAL TABLES

	Number	Average	Por cent minimum					N	lumber em	ployed in-	**				
Year	of estab- lishmonts reporting	pumber of em- ployees i	employ- ment is of maxi- mum	January	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decam- bar
All employees: 1914	318 344 368 369 374 369 410 303 313 328 318 344 363 320 313 328 318 344 363 330 331 328 313 328 313 344 344 344 344 344 343 344 300 374 310 343 343 343 343 343 343 344 320 331 323 343	35, 430 40, 006 83, 620 71, 487 72, 340 60, 923 81, 041 40, 080 64, 520 64, 52	85.0 65.8 87.6 87.6 87.6 87.6 87.6 87.6 87.6 87	26, 973 31, 710 47, 933 46, 934 64, 934 67, 920 67, 920 67, 920 63, 624 45, 605 63, 924 45, 605 60, 709 34, 027 34,	87,085 83,305 81,231 67,073 64,737 08,11,026 80,801 85,855 85,805 82,017 89,201 05,054 80,084 80,217 34,054 80,217 34,054 80,217 34,054 80,217 34,054 80,217 34,054 80,217 34,054 1,270 1,249 8,026 8,027 8,026 8,026 8,026 8,026 8,026 8,027 8,026 8,026 8,026 8,026 8,026 8,026 8,027 8,026 8,026 8,026 8,026 8,026 8,027 8,026 8,027 8,026 8,027 8,026 8,026 8,026 8,027 8,026 8,	88, 168 84, 219 69, 423 69, 425 69, 425 69, 425 69, 425 69, 425 69, 50 69, 50 69, 50 69, 50 69, 50 69, 50 69, 50 70,	38, 589 35, 822 35, 176 68, 588 670, 734 71, 021 81, 807 35, 401 46, 208 70, 377 61, 804 37, 103 37, 1	87, 223 88, 150 53, 406 69, 083 72, 353 62, 083 70, 703 61, 486 85, 605 51, 370 65, 346 50, 347 76, 445 85, 005 50, 347 76, 445 45, 33, 46 45, 345 45, 152 45, 152 15,	84, 282 39, 478 85, 185 73, 900 00, 401 81, 600 81, 600 81, 600 81, 600 83, 200 83, 200 84, 200 84, 200 84, 200 84, 200 85, 201 84, 200 85, 201 85, 20	82,805 40,054 44,762 62,023 74,823 77,882 87,785 823,573 40,585 67,880 838,647 81,863 839,410 82,000 00,456 839,417 839,417 830,417 47,380 86,175 1,002 2,487 2,830 8,878 1,863 2,100 8,878 1,863	32, 802 42, 212 45, 638 62, 271 75, 768 74, 426 41, 217 75, 768 74, 426 41, 213 81, 110 64, 213 83, 752 69, 800 70, 406 71, 698 85, 752 69, 800 70, 406 71, 698 85, 614 85, 614 9, 641 9, 180 2, 471 6, 318 8, 328 8, 237 1, 276 8, 307 9, 308 9, 328 8, 237 1, 276 8, 307 9, 318 8, 328 8, 237 1, 276 8, 307 9, 308 8, 328 8, 237 1, 376 8, 307 9, 308 8, 328 8, 328 8, 328 1, 376 1, 307 1, 307 1	83, 769 44, 524 67, 086 61, 109 72, 700 72, 700 30, 903 20, 013 30, 013 32, 710 42, 982 54, 807 72, 023 64, 807 72, 023 64, 807 72, 086 61, 127 685 64, 102 36, 845 1, 648 1, 542 2, 526 5, 673 3, 748 5, 673 3, 748 5, 673 3, 748 5, 773 5, 765 5, 773 5, 775 5, 775	36, 398 46, 080 50, 526 58, 439 74, 762 70, 132 80, 020 40, 040 88, 042 88, 042 88, 042 88, 042 44, 284 46, 054 44, 284 40, 054 44, 284 40, 054 44, 284 45, 620 86, 301 1, 101 1, 704 2, 387 6, 688 8, 728 1, 820 1,	84, 678 46, 002 65, 478 87, 411 74, 457 79, 337, 775 81, 132 47, 181 50, 360 36, 559 34, 415 51, 416 36, 530 36, 559 38, 590 75, 015 86, 583 20, 717 45, 321 34, 344 1, 074 1, 567 24, 381 5, 560 4, 018 1, 790 8, 199 2, 589 2, 589	84, 512 48, 606 64, 397 55, 941 71, 416 80, 007 84, 174 49, 581 58, 600 87, 327 38, 422 40, 024 452, 100 63, 553 70, 022 40, 024 47, 648 30, 249 47, 648 36, 625 1, 000 1, 681 1, 633 8, 024 3, 025

TABLE 35 .-- WAGE EARNERS: VEHICLES

1 Arithmetic average of the 12 months.

* Figures probably do not include airplanes and ships and boats.

VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

	Number	Average	Per cent	F				Ņ	fumber on	ıployed in-					
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	April	May	June	July	August	Septem. ber	October	Novem- ber	Decem- ber
All employees: 1914 1915 1916 4	72 100	21, 342 28, 952	77. 5 66. 7	19, 473 22, 582	20, 277 23, 446	21, 187 23, 906	21, 887 25, 268	20, 795 27, 244	19, 208 29, 015	19, 208 80, 274	20, 661 31, 682	21, 730 33, 063	24, 784 33, 592	23, 289 33, 009	23, 611 34, 348
1917 4 1918 1919 1920 1922 1922 1923 1924	165 201 240 215 188 108 108	51, 171 51, 179 55, 322 24, 545 37, 491 51, 123 39, 262	86. 3 63. 6 35. 8 70. 7 59. 7 80. 8 55. 9	46, 093 46, 735 66, 022 19, 878 27, 208 40, 560 49, 873	47, 302 46, 413 05, 645 20, 735 28, 313 50, 803 51, 816	51, 017 47, 045 67, 237 28, 074 82, 393 54, 537 53, 382	51, 924 49, 132 05, 903 20, 838 38, 705 56, 120 52, 895	52, 852 39, 925 65, 071 28, 048 42, 330 57, 070 43, 020	53, 427 43, 728 67, 009 28, 105 45, 696 56, 259 35, 590	53, 097 49, 882 65, 754 27, 320 41, 526 54, 336 30, 605	53, 310 52, 679 58, 675 23, 415 42, 296 50, 801 30, 544	50, 418 55, 508 51, 310 23, 179 40, 282 46, 255 31, 655	51, 485 58, 959 38, 782 24, 820 30, 032 46, 134 81, 622	51, 669 60, 414 27, 706 24, 591 36, 518 47, 356 29, 836	50, 554 62, 819 24, 058 24, 632 38, 536 47, 240 30, 302
Manes: 1914 1915 1916 *	72 100	20, 515 27, 743	77.3 66.7	18, 729 21, 648	19, 393 22, 432	20, 229 22, 939	20, 865 24, 214	19, 829 26, 055	18, 514 27, 829	18, 518 28, 993	19, 962 30, 277	20, 954 31, 757	23, 948 32, 129	22, 477 31, 683	22, 765 32, 959
1917	165 201 240 215 188 198 198	47, 404 48, 333 52, 531 23, 509 35, 829 47, 973 37, 100	89. 2 63. 7 36. 4 72. 0 59. 7 80. 7 54. 8	44, 022 44, 007 63, 140 19, 327 26, 157 43, 649 47, 395	44, 988 43, 730 62, 132 20, 231 27, 209 47, 751 49, 197	48, 973 45, 186 63, 717 22, 435 31, 167 51, 183 50, 709	48, 660 40, 415 62, 179 26, 924 37, 166 52, 735 50, 237	49, 379 37, 773 01, 534 28, 848 40, 537 53, 630 40, 878	49, 134 41, 397 63, 451 26, 802 43, 782 52, 838 38, 802	48, 865 47, 471 62, 287 25, 901 39, 441 50, 904 28, 890	48, 631 49, 783 55, 794 22, 308 40, 209 47, 581 28, 833	40, 035 52, 390 48, 871 21, 992 38, 273 43, 417 29, 700	40, 685 55, 690 87, 221 23, 559 34, 379 43, 260 29, 586	46, 964 50, 862 26, 832 23, 341 34, 870 44, 400 27, 787	46, 499 59, 289 23, 211 23, 437 36, 762 44, 325 28, 185
Females: 1914. 1915. 1916 *-	72 100	827 1, 210	67. 5 63. 8	744 934	884 1, 014	958 967	1, 022 1, 054	968 1, 189	694 I, 186	690 1, 281	699 1,405	776 1, 306	838 1, 463	812 1, 326	846 1, 389
1017 1 1018	165 201 240 215 188 198 195	3, 767 2, 846 2, 791 1, 036 1, 662 3, 150 2, 162	43, 2 60, 6 22, 7 36, 5 52, 9 82, 5 64, 0	2,071 2,728 3,482 551 1,111 2,911 2,478	2, 314 2, 683 8, 513 504 1, 104 3, 052 2, 619	2, 944 2, 759 8, 820 639 1, 226 8, 354 2, 673	3, 258 2, 717 3, 724 912 1, 539 3, 385 2, 658	3, 473 2, 152 3, 537 1, 200 1, 793 3, 440 2, 145	4, 293 2, 331 3, 558 1, 303 1, 914 3, 421 1, 788	4, 232 2, 411 3, 467 1, 419 2, 065 3, 432 1, 715	4, 679 2, 896 2, 881 1, 107 2, 087 3, 220 1, 711	4, 383 3, 118 2, 439 1, 187 2, 009 2, 838 1, 949	4, 799 3, 269 1, 561 1, 251 1, 653 2, 874 2, 036	4, 708 8, 552 904 1, 250 1, 648 2, 956 2, 049	4, 055 3, 530 847 1, 095 1, 774 2, 915 2, 117

TABLE 36.-WAGE EARNERS: VEHICLES-AUTOMOBILES AND PABTS

Arithmetic average of the 12 months,

GENERAL TABLES

TABLE 37.-WAGE EARNERS: MISCELLANEOUS PRODUCTS

	Number	Average	Per cent minimum		******			N	lumber en	ployed in-	_				
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	April	May	June	July	August	Septem- ber	Öctober	Novem- ber	Decem- ber
All employees: 1014	469 591 663 715 675 675 675 675 676 700 773 798 460 591 600 703 715 671 680 700 733 708 468 680 700 733 708 468 680 700 733 700 733 708 468 671 680 701 680 701 680 701 680 701 701 680 701 680 701 680 701 680 701 680 701 680 701 680 701 680 701 680 701 680 701 680 701 680 701 680 701 680 701 701 680 701 680 701 701 680 701 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 700 701 680 701 680 700 701 680 701 701 705 701 705 701 705 701 705 701 705 705 705 705 705 705 705 705 705 705	23, 637 32, 604 65, 341 62, 147 66, 084 49, 198 52, 049 31, 754 44, 053 31, 754 44, 053 90, 612 27, 704 44, 570 44, 570 56, 570 44, 570 56, 57	83.44 73.45 85.37 70.65.8 971.94 89.42 77.19 80.27 80.27 85.45 874.19 80.27 85.45 874.55 80.27 85.45 87.85 80.27 85.45 87.85 80.27 85.45 87.85 87.85 80.27 85.45 87.85 87.85 87.85 87.85 87.85 87.85 87.85 87.85 87.85 87.85 87.55 8	24, 503 27, 938 42, 706 52, 611 54, 100 47, 108 54, 864 42, 433 37, 719 44, 036 57, 719 44, 036 57, 719 44, 037 44, 037 44, 037 45, 740 45, 740 45, 767 20, 960 21, 660 21, 660 22, 870 23, 660 24, 653 24, 653 2, 094 4, 020 7, 289 2, 0712 2, 0712 2	24, 830 29, 312 55, 745 55, 552, 558 551, 552, 558 551, 552, 558 551, 650 31, 411 40, 373 45, 965 21, 809 25, 058 30, 149 25, 058 30, 149 45, 607 48, 646 30, 683 344, 423 255, 058 32, 610 32, 691 32, 691 32, 610 32, 691 32, 610 32, 610 32, 611 32, 615 32, 610 32, 611 32, 615 32, 615 32	25, 279 80, 305 48, 505 58, 435 46, 165 825 52, 979 42, 410 746, 405 825 22, 979 42, 410 746, 405 825 825 825 825 825 825 825 825 825 82	25, 036 31, 096 51, 813 55, 708 35, 708 35, 708 35, 708 35, 708 35, 708 34, 908 45, 885 34, 908 42, 911 46, 558 42, 914 43, 183 43, 275 49, 844 43, 185 27, 988 45, 185 27, 988 37, 059 34, 589 37, 059 34, 589 37, 059 3, 072 4, 492 4, 492 4, 493 3, 072 4, 492 4, 493 3, 072 4, 492 3, 954 8, 954 9, 619	24, 339 31, 599 31, 598 39, 788 49, 012 03, 629 44, 172 55, 157 33, 202 37, 858 43, 441 44, 27, 088 44, 387 43, 270 53, 765 36, 400 44, 639 27, 630 30, 655 3, 055 4, 611 8, 896 6, 638 4, 638 4, 638 5, 635 5, 632 7, 305 8, 790 8, 790	24, 179 82, 898 56, 152 69, 050 46, 508 57, 070 32, 538 41, 206 44, 154 44, 154 44, 154 44, 154 44, 154 44, 154 45, 309 27, 154 32, 538 34, 801 3, 004 4, 588 34, 801 3, 004 4, 767 8, 431 10, 767 8, 431 3, 675 8, 431 5, 675 5,	23, 928 32, 377 50, 523 49, 794 49, 794 49, 794 40, 797 43, 491 41, 757 43, 491 41, 757 43, 491 41, 757 43, 491 41, 757 43, 491 41, 687 27, 948 47, 223 43, 046 44, 6349 26, 876 33, 056 88, 918 86, 876 33, 056 88, 719 8, 116 4, 429 8, 506 8, 507 18, 507 18, 507 18, 507 18, 507 18, 507 19, 507 19, 507 10, 50	23,853 32,400 57,110 51,111 72,709 51,753 53,843 31,145 53,843 31,145 53,843 31,016 42,503 41,603 27,032 47,643 44,218 65,872 42,224 45,406 65,871 33,054 3,190 4,552 9,467 9,467 9,467 9,467 5,344 7,713 7,713 7,872	28, 107 38, 811 56, 267 52, 228 71, 570 52, 186 91, 1021 42, 200 42, 200 44, 501 84, 104 57, 018 57, 018 42, 212 57, 202 57, 202 57	22, 150 34, 917 56, 017 53, 187 78, 360 52, 646 48, 305 40, 609 41, 552 40, 609 41, 552 40, 609 41, 552 40, 609 41, 552 40, 609 41, 552 40, 609 41, 552 40, 609 41, 552 42, 608 55, 550 42, 608 55, 609 10, 004 7, 580 10, 005 8, 845 5, 609 7, 755 8, 809 7, 755 8, 800 7, 755 8, 800 8,	21, 343 35, 822 37, 360 30, 55, 125 75, 530 30, 554 42, 819 41, 152 44, 152 56, 152	31,005 38,079 57,429 56,330 65,411 87,639 30,644 41,393 40,400 44,221 18,208 32,182 47,335 47,356 52,627 45,008 47,356 52,627 45,007 53,007 53,007 53,007 53,007 53,007 5,009 4,745 5,007 5,009 4,503 5,745 5,007 5,007 5,009 4,503 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,515 5,5

Arithmetic average of the 12 months.

88 VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

641		Number	Averago	Per cent					N	lumber on	ployed in-	·····				
30°—30	Yest	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	Marah	April	May	Junø	July	August	Septem- bar	October	Novem- ber	Decem- ber
	All employees; 1014. 1015. A016 ³	61 98	6, 955 10, 884	87. 1 70. 2	6, 076 9, 119	6, 993 9, 771	7, 108 10, 003	7, 229 10, 563	7, 091 10, 826	6, 903 10, 850	7, 088 10, 471	7, 189 10, 698	7, 105 11, 212	6, 929 11, 794	6, 437 12, 315	6, 294 12, 990
	1917	118 121 141 130 138 152 168	18, 757 21, 644 24, 661 11, 913 16, 072 16, 206 19, 122	94. 0 (9. 1 51. 0 93. 1 09. 6 84. 5 80. 0	18, 229 20, 467 27, 510 12, 142 12, 577 14, 560 20, 177	18, 326 20, 023 27, 574 11, 755 12, 916 16, 286 20, 840	18, 551 20, 204 28, 318 11, 777 18, 668 17, 282 20, 930	18, 509 20, 054 27, 928 12, 310 14, 461 17, 007 20, 748	18, 974 18, 202 27, 258 12, 300 15, 805 17, 138 18, 642	18, 807 18, 942 27, 830 11, 618 17, 107 16, 797 17, 054	19, 402 20, 886 27, 888 11, 402 17, 248 16, 208 16, 752	19, 011 22, 385 24, 957 11, 802 17, 040 15, 340 10, 759	18, 758 22, 858 24, 005 11, 908 17, 045 15, 967 17, 802	18, 734 24, 064 21, 137 11, 064 17, 027 16, 191 19, 006	18, 863 26, 222 17, 080 11, 708 18, 078 15, 787 19, 657	18, 845 26, 300 14, 448 12, 139 18, 024 15, 801 20, 183
	1914. 1916. 1916 1.	61 06	6, 151 9, 551	86.8 70.6	6, 272 8, 046	6, 276 8, 602	6, 354 8, 780	6, 465 9, 231	0, 303 9, 611	6, 202 9, 507	0, 119 9, 178	6, 180 9, 339	6, 122 9, 827	6, 104 10, 367	5, 770 10, 832	5, 6 12 11, 399
	1017 (118 121 141 136 138 152 108	15, 410 17, 331 10, 840 10, 038 12, 917 13, 134 15, 144	94. 2 70. 6 54, 1 91. 2 72. 8 86. 1 82. 0	16, 833 16, 383 22, 281 10, 463 10, 473 11, 877 16, 643	16, 761 16, 025 22, 124 10, 095 10, 639 13, 134 10, 324	15, 807 10, 207 22, 608 10, 028 11, 103 13, 779 16, 552	15, 507 10, 068 22, 196 10, 525 11, 682 13, 685 10, 270	15, 664 14, 945 21, 620 10, 349 12, 664 13, 796 14, 898	15, 445 15, 167 22, 169 9, 728 13, 694 13, 590 14, 481	16, 549 16, 708 22, 106 9, 000 13, 735 13, 348 13, 652	15, 293 17, 856 19, 085 9, 855 14, 027 12, 422 13, 570	15,003 18,104 19,300 10,025 14,104 13,090 14,340	14, 904 19, 110 17, 418 9, 928 14, 137 13, 189 15, 014	14, 910 20, 094 14, 220 9, 749 14, 391 12, 930 18, 241	15, 124 21, 166 12, 280 10, 004 14, 357 12, 761 15, 533
	1914 1915 1916 ‡	- 61 98	804 1, 883	66. 1 67. 4	704 1, 078	717 1, 169	784 1, 223	764 1, 882	788 1, 315	761 1, 843	964 1, 295	1, 009 1, 359	983 1, 385	825 1, 427	667 1, 483	682 1, 591
	1017 - 1018 - 1019 - 1020 - 1021 - 1022 - 1022 - 1022 - 1024 -	113 121 141 136 138 152 108	3, 347 4, 313 4, 821 1, 877 3, 155 8, 072 3, 978	60.8 62.7 87.8 81.8 67,1 77.7 00.7	2, 300 4, 084 5, 220 1, 670 2, 104 2, 104 2, 683 4, 834	2, 665 8, 908 8, 450 1, 660 2, 277 8, 152 4, 510	2, 744 3, 997 5, 620 1, 749 2, 565 3, 453 4, 387	8,032 3,906 8,732 1,785 2,779 8,412 4,478	8, 310 8, 257 5, 138 1, 951 8, 201 8, 342 8, 744	3, 362 3, 778 5, 078 1, 892 3, 413 3, 108 8, 473	3, 853 4, 118 5, 782 1, 862 3, 513 2, 920 8, 100	8, 718 4, 520 5, 272 1, 047 8, 619 2, 024 8, 189	8, 755 4, 754 4, 705 1, 078 8, 541 2, 877 8, 468	8, 770 4, 954 8, 710 2, 928 3, 490 8, 002 3, 992	3, 943 5, 128 2, 860 1, 059 3, 087 2, 857 4, 416	8, 721 5, 194 9, 168 2, 038 3, 667 3, 040 4, 650

TABLE 38 .- WAGE EARNERS: MISCELLANEOUS-ELECTBICAL MACHINERY, APPARATUS, AND SUPPLIES

¹ Arithmetic average of the 12 months.

* Figures not obtainable.

GENERAL TABLES

	Number	Average	Per cent				•	ĸ	lumber em	ployed in-				```	
Year	of estab- lishments reporting	number of em- ployees t	employ- ment is of maxi- mum	January	Pebruary	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914	1,069 1,2788 2,2537 2,5377 2,5377 2,5377 2,5377 2,5377 2,5377 2,5377 2,5377 2,	21, 578 28, 101 32, 200 38, 420 38, 376 46, 103 48, 745 56, 224 19, 230 16, 678 10, 553 28, 854 19, 230 16, 678 10, 553 28, 856 28, 432 27, 330 28, 474 33, 374 33, 374 33, 374 33, 374 33, 374 33, 374 34, 374 35, 374 11, 312 12, 655 15, 522 15, 523 17, 959 18, 836 19, 525 15, 522 17, 959 18, 836 19, 525 15, 522 17, 959 19, 525 16, 525 16, 525 16, 525 16, 525 17, 959 18, 836 19, 525 16, 525 16, 525 17, 959 17, 959 18, 836 19, 525 19, 52	83,58 87,65 90,52 90,320	21, 502 26, 401 37, 629 37, 626 45, 359 37, 555 45, 646 45, 334 44, 905 59, 582 12, 110 15, 536 17, 608 22, 180 22, 180 21, 190 21, 190 21, 190 21, 190 21, 190 22, 180 21, 190 21, 19	21, 376 26, 458 30, 048 36, 501 37, 562 45, 741 45, 137 52, 741 45, 137 52, 741 45, 137 52, 341 15, 558 17, 965 12, 667 12, 667 14, 66	21, 530 26, 954 30, 610 37, 446 38, 345 38, 475 44, 503 45, 387 46, 118 55, 912 18, 316 36, 345 31, 206 12, 181 15, 912 26, 325 27, 457 31, 451 22, 349 9, 349 11, 042 12, 111 14, 003 17, 426 18, 961 12, 171 14, 543	21, 856 27, 859 31, 212 38, 827 39, 828 39, 828 45, 828 47, 235 47, 237 66, 432 16, 857 8, 828 47, 237 66, 432 16, 857 8, 828 11, 338 8, 32 47, 237 66, 12, 432 16, 857 8, 857 11, 338 11, 338 11, 338 11, 557 12, 557 14, 557	22, 058 28, 290 33, 607 39, 720 39, 720 39, 720 45, 823 45, 823 45, 545 19, 54	22, 159 28, 159 28, 159 28, 159 28, 159 28, 159 28, 159 29, 15	21, 811 20, 878 33, 452 30, 757 30, 548 41, 247 44, 302 47, 130 60, 219 63, 034 12, 332 23, 054 20, 214 47, 130 60, 219 63, 034 12, 332 23, 054 24, 918 29, 035 22, 056 23, 074 33, 800 36, 074 33, 800 11, 670 13, 202 14, 075 16, 075 11, 670 13, 071 14, 075 16, 07	21, 656 20, 906 34, 050 40, 134 39, 421 41, 579 48, 350 48, 113 50, 449 57, 944 63, 527 12, 325 18, 261 20, 853 22, 901 25, 232 24, 901 25, 232 24, 901 25, 233 31, 000 34, 573 38, 299 9, 331 11, 646 13, 200 16, 233 16, 337 18, 440 18, 520	21, 652 29, 606 38, 140 38, 654 40, 814 44, 814 48, 000 50, 564 64, 329 12, 318 18, 212 20, 136 22, 503 24, 704 23, 692 22, 553 32, 776 32, 578 34, 803 9, 334 11, 304 15, 802 16, 113 16, 013 16, 113 16, 113 17, 113 16, 113 16, 113 17, 113 17, 113 18, 114 19, 113 19, 113 19, 113 11, 113	21, 369 28, 163 33, 321 38, 821 38, 821 38, 605 41, 187 47, 421 47, 7421 47, 7421 47, 742 47, 742 48, 8015 48, 510 18, 543 16, 545 16, 545	21, 185 37, 964 33, 271 38, 234 40, 764 46, 634 46, 634 46, 213 57, 569 12, 039 16, 033 20, 350 21, 750 24, 790 24, 804 25, 440 25, 440 25, 440 25, 440	20, 789 27, 779 37, 750 37, 750 37, 750 40, 715 44, 473 44, 674 49, 768 61, 486 11, 709 20, 054 21, 643 24, 850 24, 100 25, 130 25, 130 26, 130 26, 130 26, 130 26, 130 26, 130 26, 130 26, 130 26, 130 27, 150 26, 130 26, 130 26, 130 26, 130 27, 130 26, 130 27, 130 26, 130 26, 130 27, 130 27, 130 26, 130 27, 130 27, 150 26, 130 27, 150 26, 130 27, 150 26, 130 27, 150 26, 130 27, 150 26, 130 26, 130 27, 150 26, 130 27, 15

¹ Arithmetic average of the 12 months.

	Number	Average	Per cent		_				lumber en	ployed in-					
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	Jenuary	February	March	April	Мву	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914	237 270 281 281 282 281 285 295 281 287 305 281 287 285 284 281 287 305 305 305 305 305 305 305 305 305 305	$\begin{array}{c} 6,757\\ 7,732\\ 8,439\\ 8,627\\ 7,705\\ 7,837\\ 8,326\\ 7,837\\ 7,172\\ 8,800\\ 7,172\\ 8,800\\ 7,172\\ 2,180\\ 0,717\\ 2,180\\ 0,717\\ 2,180\\ 0,713\\ 3,319\\ 3,319\\ 3,319\\ 3,319\\ 3,707\\ 4,577\\ 5,110\\ 5,820\\ 5,166\\ 5,052\\ 5,234\\ 4,473\\ 5,570\\ 6,010\\ 5,570\\ 5,234\\ 4,473\\ 5,570\\ 6,010\\ 5,570\\ 5,234\\ 4,473\\ 5,570\\ 6,010\\ 5,570\\ 5,234\\ 5,570\\ 5,$	92.3 89.8 91.6 93.9 89.6 94.5 94.5 94.5 94.5 94.5 94.5 94.5 94.5	$\begin{array}{c} \textbf{6,771}\\ \textbf{7,419}\\ \textbf{8,748}\\ \textbf{8,643}\\ \textbf{8,643}\\ \textbf{8,643}\\ \textbf{8,643}\\ \textbf{8,643}\\ \textbf{8,643}\\ \textbf{8,643}\\ \textbf{8,643}\\ \textbf{8,643}\\ \textbf{8,2228}\\ \textbf{9,258}\\ \textbf{2,761}\\ \textbf{2,774}\\ \textbf{2,222}\\ \textbf{2,22}\\ \textbf{2,222}\\ \textbf{2,222}\\$	6, 332 7, 507 8, 537 7, 58 8, 57 7, 58 8, 51 7, 58 8, 51 8, 50 8,	6,759 7,748 8,071 8,071 8,075 8,059 9,022 8,0000 8,0000 8,0000 8,0000 8,00000000	$\begin{array}{c} 6,880\\ 7,586\\ 8,761\\ 8,761\\ 8,511\\ 7,047\\ 7,070\\ 8,581\\ 7,070\\ 8,784\\ 2,910\\ 2,788\\ 2,910\\ 3,178\\ 2,846\\ 3,178\\ 2,910\\ 3,178\\ 2,910\\ 3,178\\ 2,910\\ 3,178\\ 2,910\\ 3,178\\ 2,910\\ 3,178\\ 2,910\\ 3,178\\ 2,910\\ 3,178\\ 2,910\\ 3,178\\ 2,910\\ 3,178\\ 2,910\\ 3,178\\ 2,910\\ 3,178\\ 3,3610\\ 4,012\\ 3,3610\\ 4,012\\ 3,3610\\ 4,012\\ 3,3610\\ 4,012\\ 3,3610\\ 4,012\\ 4,01$	6, 992 8, 131 8, 537 8, 625 7, 507 7, 505 10, 025 10,	$\begin{array}{c} 0.987\\ 7,952\\ 8,510\\ 8,606\\ 7,983\\ 7,883\\ 7,390\\ 9,221\\ 2,872\\ 2,872\\ 2,872\\ 2,872\\ 2,878\\ 2,672\\ 2,848\\ 2,672\\ 2,848\\ 2,672\\ 2,848\\ 2,672\\ 3,455\\ 3,794\\ 4,505\\ 5,728\\ 8,300\\ 5,728\\ 8,5300\\ 5,246\\ 5,572\\ 8,465\\ 5,732\\ 6,010\\ 5,732\\ 5,732\\ 6,010\\ 5,732\\ 5,732\\ 5,732\\ 6,010\\ 5,732\\ 5$	6, 860 7, 077 8, 692 8, 837 7, 7092 8, 308 7, 749 9, 873 7, 257 9, 967 2, 559 2, 853 2, 854 2, 855 2, 855 2	$\begin{array}{c} 6,741\\ 7,718\\ 8,817\\ 7,854\\ 8,825\\ 7,854\\ 8,156\\ 7,051\\ 7,243\\ 9,033\\ 9,027\\ 2,182\\ 2,594\\ 2,848\\ 2,848\\ 2,848\\ 2,848\\ 2,848\\ 2,848\\ 2,848\\ 3,071\\ 2,720\\ 3,086\\ 5,124\\ 6,599\\ 5,070\\ 5,082\\ 5,070\\ 5,082\\ 5,070\\ 5,085\\ 5,082\\ 5,070\\ 5,085\\ 5,085\\ 5,$	6, 747 7, 815 8, 648 8, 710 7, 851 7, 851 8, 363 7, 142 9, 759 2, 105 2, 629 2, 769 2, 769 2, 769 2, 769 2, 769 2, 769 2, 769 2, 769 2, 806 2, 524 2, 805 2, 524 2, 805 2, 703 3, 809 4, 552 5, 186 6, 578 5, 000 5, 216 5, 808 5, 803	6, 630 7, 700 8, 5589 8, 643 7, 199 7, 477 9, 772 9, 760 2, 194 2, 580 2, 195 3, 195 2, 580 2, 195 3, 195 2, 580 2, 195 3, 195 2, 580 2, 195 3, 195 3, 195 2, 580 2, 580 2	$\begin{array}{c} 6.588\\ 7.741\\ 8.688\\ 8.404\\ 7.934\\ 8.7234\\ 8.403\\ 7.934\\ 8.7234\\ 8.403\\ 7.1472\\ 9.677\\ 7.4782\\ 9.677\\ 7.4782\\ 9.677\\ 2.28339\\ 2.28714\\ 2.4879\\ 3.163\\ 8.724\\ 8.716\\ 3.8776\\ 3.721\\ 3.855\\ 5.6332\\ 5.6333\\ 4.825\\ 5.6333\\ 4.825\\ 5.6333\\ 4.825\\ 5.6333\\ 4.825\\ 5.6333\\ 4.825\\ 5.6333\\ 5.6533\\ 4.825\\ 5.6533\\ 5.6$	6,457 7,760 8,200 7,7782 8,004 7,551 7,562 8,004 7,551 7,563 2,272 2,263 2,272 2,550 2,263 2,272 2,550 2,263 2,272 2,550 2,263 2,272 2,550 2,263 2,2750 2,3750 2,2750 2,3750 2,2750 2,37500 2,375000 2,375000 2,375000000000000000000000000000000000000

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TABLE 40.-WAGE EARNERS: SERVICE-LAUNDRIES AND DRY CLEANERS

¹ Arithmetic average of the 12 months.

GENERAL TABLES

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	Number	Average	Per cent				•	۲	lumber en	ployed in-					
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	∆pril	Мву	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1014 1015 1016 1017 1918 1920 1922 1923 1914 1917 1921 1922 1924 Males: 1916 1917 1918 1924 1914 1916 1917 1922 1924 1915 1915 1916 1917 1922 1924 1915 1916 1917 1918 1919 1922 1924 1915 1916 1917 1918 1919 1921 1922 1923 1924	166 24(5) 300 351 352 318 303 348 300 166 351 356 350 351 356 350 352 318 303 348 390 106 351 356 348 390 351 356 351 356 351 356 352 318 352 352 318 352 352 318 352 352 318 352 352 318 352 352 352 352 352 352 352 352 352 352	$\begin{array}{c} 5, 410\\ 7, 955\\ 8, 650\\ 9, 924\\ 9, 026\\ 10, 700\\ 10, 670\\ 10, 670\\ 10, 670\\ 10, 671\\ 10, 470\\ 10, 671\\ 11, 726\\ 3, 383\\ 5, 163\\ 5, 599\\ 0, 232\\ 5, 790\\ 0, 232\\ 5, 790\\ 0, 232\\ 5, 790\\ 0, 232\\ 5, 790\\ 0, 417\\ 11, 726\\ 3, 600\\ 5, 655\\ 2, 027\\ 2, 793\\ 3, 060\\ 3, 603\\ 4, 133\\ 4, 529\\ 4, 530\\ 4, 133\\ 4, 529\\ 4, 133\\ 4, 529\\ 4, 530\\ 4, 133\\ 4, 529\\ 4, 530\\ 4, 133\\ 4, 529\\ 4, 530\\ 4, 133\\ 4, 529\\ 4, 530\\ 4, 133\\ 4, 529\\ 4, 530\\ 4, 133\\ 4, 529\\ 4, 530\\ 4, 133\\ 4, 529\\ 4, 530\\ 4, 133\\ 4, 529\\ 4, 530\\ 4, 133\\ 4, 530\\ 4, 133\\ 4, 530\\ 4, 133\\ 4, 530\\ 4, 133\\ 4, 530\\ 4, 133\\ 4, 530\\ 4, 133\\ 4, 530\\ 4, 133\\ 4, 530\\ 4, 133\\ 4, 530\\ 4, 133\\ 4, 530\\ 4, 133\\ 4, 530\\ 4, 133\\ 4, 530\\ 4, 100\\ 4, 100$	95,99,1 90,13990,25 94,0,70,99,133990,27 94,0,70,99,14,89,90,35 94,0,70,99,14,89,15 94,0,70,14,89,15 94,0,70,14,89,15 94,17,99,12,10,20,10,10,10,10,10,10,10,10,10,10,10,10,10	$\begin{array}{c} 5,493\\ 7,392\\ 8,273\\ 9,690\\ 9,771\\ 10,258\\ 10,276\\ 10,258\\ 10,276\\ 10,392\\ 10,10,842\\ 5,392\\ 10,10,842\\ 5,392\\ 5,764\\ 5,396\\ 5,764\\ 5,539\\ 5,908\\ 6,049\\ 2,044\\ 2,741\\ 2,916\\ 3,640\\ 4,336\\ 3,840\\ 4,336\\ 3,852\\ 4,796\end{array}$	5, 431 7, 385 8, 209 9, 608 9, 852 10, 147 10, 147 10, 147 10, 148 10, 147 10, 148 10, 147 11, 114 3, 406 4, 634 4, 634 5, 591 5, 799 5, 449 5, 304 5, 718 5, 718 5, 718 5, 749 5, 549 5, 540 5, 540 5	5,474 474 1,5,374 9,7750 9,7750 9,0,247 10,0,334 10,0,344 11,1,445 5,5,3553 10,0,247 10,0,344 11,1,4455 5,5,555 5,555 6,555 8,554 8,555 8,	$\begin{array}{c} 5,450\\ 7,470\\ 8,456\\ 9,742\\ 9,992\\ 10,520\\ 10,371\\ 10,520\\ 10,371\\ 11,638\\ 3,425\\ 4,698\\ 5,493\\ 5,4698\\ 5,4698\\ 5,4698\\ 5,4073\\ 6,104\\ 1,5638\\ 6,073\\ 6,504\\ 2,072\\ 2,968\\ 3,603\\ 4,020\\ 4,422\\ 4,432\\ 4,432\\ 4,432\\ 3,335\\ 4,423\\ 5,035\\ 4,423\\ 5,035\\ 5,035\\ 6,035\\$	5,339 7,8635 8,7080 10,531 10,577 11,903 8,4554 5,022 6,328 6,045	5,584 9,986 9,986 10,330 11,330 11,328 10,477 12,84 5,187 6,588 5,578 2,578 2,578 3,274 2,578 3,274 2,578 3,274 2,578 3,274 4,785 2,578 4,785 2,578	$\begin{array}{c} 5,405\\ 8,877\\ 8,784\\ 9,865\\ 10,234\\ 8,784\\ 9,865\\ 11,187\\ 11,891\\ 11,577\\ 12,408\\ 6,154\\ 6,154\\ 6,154\\ 6,154\\ 6,154\\ 6,154\\ 6,154\\ 6,154\\ 6,154\\ 7,176\\ 6,821\\ 1,5,176\\ 7,155\\ 7,176\\ 1,155\\ 7,176\\ 1,155\\ 7,176\\ 2,723\\ 3,160\\ 3,666\\ 4,295\\ 6,476\\ 1,155\\ 2,723\\ 3,160\\ 3,666\\ 4,914\\ 5,258\\ 5,485\\ 6,485\\ 4,760\\ 6,674\\ 5,258\\ 5,485\\ 5,$	$\begin{array}{c} 5,346\\ 9,014\\ 9,086\\ 10,074\\ 11,287\\ 11,287\\ 11,287\\ 12,258\\ 3,317\\ 6,225\\ 4,629\\ 6,270\\ 6,429\\ 6,270\\ 6,428\\ 6,680\\ 0,566\\ 6,570\\ 6,448\\ 6,480\\ 6,537\\ 7,411\\ 7,213\\ 7,079\\ 2,789\\ 2,789\\ 3,304\\ 4,333\\ 4,839\\ 4,333\\ 4,839\\ 5,313\\ 5,312\\ 5,313\\ 5,312\\ 5,31$	$\begin{array}{c} 5,389\\ 9,240\\ 8,915\\ 10,277\\ 9,855\\ 10,744\\ 11,140\\ 11,430\\ 11,430\\ 11,430\\ 12,430\\ 11,430\\ 12,430\\ 6,401\\ 5,554\\ 6,461\\ 5,554\\ 6,461\\ 5,554\\ 6,461\\ 5,554\\ 6,207\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,300\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,183\\ 6,7300\\ 7,183\\ 7,000\\ 7,183\\ 6,7300\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\ 7,183\\ 7,000\\$	5,404 7,895 9,007 10,233 9,709 10,736 11,204 10,171 11,319 12,200 11,718 3,339 5,030 5,657 6,426 6,366 5,556 6,366 5,556 6,365 8,367 6,365	$\begin{array}{c} 5,401\\ 7,839\\ 8,907\\ 10,155\\ 9,664\\ 10,944\\ 10,944\\ 10,941\\ 13,985\\ 11,398\\ 3,352\\ 4,970\\ 5,346\\ 6,479\\ 5,430\\ 6,573\\ 6,773\\ 6,773\\ 6,773\\ 6,773\\ 6,773\\ 6,773\\ 6,773\\ 1,398\\ 6,173\\ 7,81\\ 6,294\\ 6,539\\ 6,173\\ 6,773\\ 7,112\\ 7,951\\ 6,778\\ 7,783\\ 7,793$ 7,793 7,793 7,793 7,793	$\begin{array}{c} 5,267\\ 7,724\\ 8,769\\ 9,938\\ 9,664\\ 10,497\\ 10,731\\ 9,741\\ 10,598\\ 4,902\\ 5,281\\ 11,105\\ 3,288\\ 4,902\\ 5,281\\ 2,4467\\ 5,281\\ 2,4467\\ 5,281\\ 2,282\\ 4,6630\\ 5,623\\ 5,623\\ 5,6414\\ 6,647\\ 9\\ 1,979\\ 2,3077\\ 4,252\\ 4,467\\ 4,1184\\ 4,775\\ 5,755\\ 4,785\\ 4,7$

TABLE 41.-WAGE EARNERS: SERVICE-HOTELS

¹ Arithmetic average of the 12 months.

VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

	Number	Average	Per cent minimum					1	Yumber en	iployed in					
Year	of estab- lishments reporting	of em- ployees ¹	employ- ment is of maxi- mum	January	February	March	April	Мву	June	July	August	Septem- ber	Öctober	Novera- ber	Decem- ber
All employees: 1914	167 220 273 406 410 365 421 465 615 167 220 272 280 280 280 280 285 440 465 615 167 272 280 280 287 272 280 280 287 272 280 280 287 273 280 280 273 405 440 855 440 855 440 855 440 855 440 855 877 80 877 80 80 80 80 80 80 80 80 80 80 80 80 80	2,300 4,063 4,668 5,177 5,868 5,850 7,368 8,076 8,076 8,076 8,076 8,076 8,076 8,134 1,772 2,233 2,368 1,134 2,233 2,309 1,167 1,1769 1,369 4,399 1,167 1,769 1	96.6 95.1 82.5 89.7 84.0 94.7 85.0 94.7 88.0 94.7 88.0 94.1 95.4 95.4 94.1 95.4 95.4 95.5 94.5 95.5 9 96.5 9 85.8 91.9 96.5 9 85.6 85.5 9 85.5 9 85.5 9 85.5 9 85.5 9 85.5 9 85.5 85.5	2 283 3, 105 3, 679 4, 432 4, 432 4, 5107 4, 432 4, 5107 4, 107 4, 10	2,258 3,674 4,461 5,4092 5,803 6,819 6,819 6,819 6,819 6,819 6,819 6,819 6,854 6,819 7,554 6,1166 8,124 6,819 7,554 6,1166 2,16466 2,1646 2,1646 2,1646 2,1646 2,1646 2,1646 2,1646 2,16	2 277 2, 105 3, 734 4, 468 6, 075 6, 174 6, 174 6, 174 6, 174 6, 174 6, 174 8, 600 1, 123 1, 1643 1, 1643 1, 1643 2, 718 3, 777 4, 286 1, 1642 2, 718 3, 777 4, 286 1, 1642 2, 2164 3, 775 4, 286 1, 1642 3, 2014 2, 718 3, 2014 3, 775 4, 286 1, 1642 3, 2014 2, 718 3, 2014 3, 775 4, 286 1, 1642 3, 2014 2, 718 3, 2014 2, 715 3, 240 1, 1642 2, 914 2, 914 2, 914 3, 918 3, 918 3, 918 3, 918 3, 918 1, 1642 3, 918 3, 918 1, 1645 1,	2, 316 3, 167 3, 824 4, 167 5, 167 7, 072 6, 220 7, 072 6, 220 7, 072 6, 220 7, 072 6, 220 1, 139 1, 065 2, 047 7, 072 2, 316 3, 758 3, 758 3, 758 3, 758 3, 758 4, 203 1, 177 1, 498 2, 982 2, 982 2, 970 3, 758 3, 758 4, 203 1, 770 4, 203 4, 204 4,	2, 337 3, 191 3, 816 4, 599 5, 821 4, 599 5, 826 7, 7, 546 6, 376 7, 7, 54 6, 376 7, 7, 55 8, 797 1, 158 1, 158 2, 492 2, 492 3, 603 3, 603 1, 778 4, 603 3, 603 1, 778 4, 603 2, 492 4, 492 2, 492 2, 492 2, 492 2, 492 2, 492 2, 492 3, 743 3, 603 1, 778 4, 603 3, 603 1, 778 4, 603 4, 777 2, 855 3, 603 3, 603 1, 778 4, 7787 4, 7787 4, 7787 4, 7787 4, 7787 4, 7787 4, 7787 4, 77877 4, 7787778 4, 778778778778778778778778777877877877877	2,3,3,5,2,2,1,3,3,2,3,3,3,3,3,3,4,4,5,6,3,4,4,4,5,6,7,5,4,4,3,7,5,6,7,5,4,4,3,7,5,6,7,5,6,2,4,4,3,7,5,6,2,4,4,3,3,3,3,1,1,3,3,2,1,1,3,3,3,3	2, 323 3, 218 3, 218 4, 719 4, 217 5, 990 6, 244 8, 362 5, 963 1, 152 2, 141 1, 726 2, 236 4, 089 4, 051 2, 141 1, 725 4, 089 4, 070 4, 512 1, 172 1, 408 5, 094 4, 512 1, 726 1, 726 1, 726 1, 726 1, 726 2, 988 4, 070 4, 512 1, 726 3, 881 1, 152 2, 236 1, 752 2, 236 2, 256 2,	2, 301 3, 221 4, 074 4, 783 5, 248 6, 056 7, 797 6, 324 8, 303 1, 148 1, 724 2, 204 4, 083 8, 975 8, 975 8, 975 8, 975 8, 975 8, 975 1, 155 1, 479 1, 155 1, 4810 2, 368 2, 369 3, 639 3, 639 3, 639 4, 233 3, 125 1, 12	$\begin{array}{c} 2, 321\\ 3, 265\\ 4, 143\\ 5, 354\\ 6, 192\\ 7, 801\\ 6, 532\\ 8, 516\\ 8, 598\\ 1, 149\\ 1, 756\\ 2, 289\\ 2, 216\\ 3, 111\\ 3, 947\\ 2, 289\\ 2, 216\\ 3, 111\\ 3, 947\\ 3, 120\\ 5, 003\\ 4, 176\\ 4, 469\\ 1, 592\\ 4, 176\\ 4, 469\\ 1, 592\\ 4, 176\\ 4, 469\\ 1, 592\\ 4, 176\\ 4, 469\\ 1, 592\\ 4, 176\\ 4, 469\\ 1, 592\\ 4, 176\\ 4, 469\\ 1, 592\\ 4, 3, 138\\ 3, 081\\ 3, 614\\ 3, 412\\ 3, 788\\ 4, 340\\ 4, 340\\ 4, 340\\ 5, 602\\ 5, 6$	2, 294 3, 203 4, 490 4, 596 5, 163 6, 2010 7, 615 8, 423 8, 412 9, 036 1, 121 1, 755 8, 423 2, 469 2, 169 8, 990 8, 990 8, 756 4, 474 1, 173 3, 657 2, 460 2, 94 4, 685 4, 474 1, 173 1, 857 2, 460 3, 348 8, 110 3, 348 3,	2,287 3,221 4,153 5,085 6,145 6,243 8,331 9,018 1,116 1,745 2,442 2,179 3,588 3,013 4,518 3,013 4,518 4,070 4,466 1,172 2,107 3,588 3,013 4,518 1,888 2,491 1,888 2,491 1,888 2,906 3,534 4,240 1,888 2,906 3,534 4,240 1,888 2,906 3,534 4,240 1,888 2,906 3,534 4,240 1,888 2,906 3,534 4,240 1,888 2,906 3,535 4,240 2,906 3,538 3,033 4,538 3,033 4,538 3,030 4,240 2,906 3,538 3,030 4,240 2,906 3,538 3,030 4,240 2,906 3,538 3,030 4,240 3,038 4,030 3,038 4,030 3,038 4,030 3,038 4,030 3,038 4,030 3,030 4,240 3,038 4,030 3,038 4,030 3,038 4,030 3,038 4,030 3,038 4,030 3,038 4,030 3,038 4,030 3,038 4,030 3,038 4,030 3,038 4,030 3,038 3,033 4,030 3,030 4,030 3,030 4,030 3,030 4,030 3,030 4,030 3,030 4,030 3,030 4,030 3,030 4,030 3,030 3,030 3,030 3,030 4,030 3,030 3,030 3,030 3,030 3,030 4,030 3,030 4,030 3,030 4,000 3,000 3,000 4,000 3,000 4,000 3,000 4,0000 4,0000 4,00000000	2, 271 2, 201 4, 418 4, 999 5, 008 6, 003 7, 001 5, 265 8, 351 8, 872 1, 105 1, 222 4, 318 4, 348 1, 105 1, 222 4, 318 4, 348 1, 105 1, 222 4, 318 4, 440 1, 186 1, 267 2, 458 3, 306 3, 306 3, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,

TABLE 42.-WAGE EARNERS: SERVICE-BESTAURANTS

⁴ Arithmetic average of the 12 months.

GENERAL TABLES

	Number	Average	Per cent				-	N	lumber em	ployed in-	_				
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	April	May	June	July	August	Septem-	October	Novem- ber	Decem- ber
All employees: 1914	798 996 1,137 1,149 1,134 1,081 1,346 1,048 1,048 1,071	34, 380 45, 179 50, 098 53, 084 52, 037 53, 357 56, 115 51, 368 51, 462	80.0 80.4 81.1 88.0 94.0 94.5 87.5 94.0 87.5 94.0 83.9	31, 443 41, 409 45, 201 49, 600 50, 952 51, 545 52, 467 51, 052 46, 538	31, 292 39, 330 48, 813 48, 941 51, 340 51, 622 51, 702 49, 881 46, 809	30, 625 40, 285 44, 057 50, 882 51, 979 51, 778 50, 042 40, 764	32,705 42,826 47,622 52,734 52,162 52,805 54,155 51,718 47,932	85, 323 45, 717 49, 948 55, 449 52, 702 53, 807 53, 807 51, 265 51, 265 51, 265	87, 189 48, 928 51, 722 55, 405 53, 463 53, 953 57, 858 57, 858 52, 181	88, 193 47, 370 55, 615 55, 615 53, 156 54, 551 57, 748 52, 914 54, 614	38, 305 47, 488 53, 978 55, 023 53, 062 64, 570 58, 147 52, 012 55, 420	36, 771 48, 036 54, 025 54, 208 52, 054 54, 519 58, 359 58, 359 52, 138 55, 500	35, 831 47, 060 53, 053 53, 950 52, 044 53, 961 59, 061 51, 193 54, 156	33, 622 46, 848 52, 827 53, 090 51, 253 54, 064 58, 487 50, 983 54, 129	31, 255 46, 824 51, 307 51, 511 50, 263 53, 094 57, 521 49, 725 53, 303
1023	1, 120 1, 271 798 996 1, 137 1, 140 1, 134 1, 041 1, 048 1, 071 1, 129	56, 677 59, 320 28, 221 37, 350 41, 620 42, 637 40, 604 41, 846 43, 759 40, 423 40, 564 45, 132	84.6 91.0 77.1 78.0 79.2 87.3 90.8 87.1 92.5 80.5 80.5 82.8	52,076 56,009 25,436 33,645 87,331 40,111 40,197 39,437 40,880 39,814 35,751 40,869	51, 568 56, 906 25, 340 31, 814 35, 859 39, 320 40, 257 39, 507 40, 176 38, 755 36, 215 36, 215	53,004 57,450 24,586 32,685 86,538 40,941 40,803 89,879 41,111 38,977 36,085 41,483	54,772 59,158 26,604 35,089 39,554 42,553 41,042 41,101 42,250 40,720 40,720 40,710 43,116	56, 807 60, 589 29, 148 37, 923 41, 655 41, 655 42, 234 43, 547 40, 284 39, 421 45, 046	58, 909 61, 807 30, 859 40, 770 43, 199 44, 774 41, 732 42, 398 44, 809 41, 853 44, 223 46, 975	59, 841 62, 277 39, 405 44, 380 44, 704 41, 501 43, 171 44, 806 41, 808 41, 808 43, 400 47, 778	60, 955 61, 427 39, 613 45, 140 44, 167 41, 606 43, 429 45, 461 41, 666 41, 663 44, 403 48, 801	59, 423 60, 320 30, 444 40, 148 45, 205 43, 486 40, 723 43, 363 45, 675 41, 335 41, 337 47, 472	59, 476 59, 300 29, 737 39, 286 44, 343 43, 146 40, 369 42, 905 46, 116 40, 399 43, 153 47, 729	58, 544 58, 452 27, 592 39, 025 43, 819 42, 812 30, 529 42, 875 45, 512 40, 303 42, 985 42, 756	57, 144 57, 415 25, 208 38, 738 42, 349 40, 619 38, 420 41, 853 44, 774 39, 067 42, 274 45, 167
1924. Formales: 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1920. 1922. 1922. 1923. 1924.	1, 271 798 996 1, 137 1, 149 1, 134 1, 081 1, 081 1, 048 1, 048 1, 048 1, 071 1, 129 1, 271	47, 241 6, 160 7, 829 8, 478 10, 447 11, 373 11, 511 12, 356 10, 944 10, 869 11, 745 12, 070	89.6 92.2 87.4 87.0 90.0 91.4 88.8 94.8 92.0 94.8	44, 743 6, 007 7, 764 7, 870 9, 489 10, 785 12, 108 11, 587 11, 288 10, 787 11, 207 11, 207	44, 801 5, 952 7, 516 7, 954 9, 621 11, 033 12, 116 11, 126 11, 126 10, 684 11, 181 12, 166	45, 211 6, 039 7, 601 8, 119 9, 941 11, 176 11, 897 11, 067 11, 067 11, 679 11, 521 12, 239	48, 897 6, 201 7, 737 8, 088 10, 181 11, 120 11, 704 11, 905 10, 989 10, 515 11, 656 12, 261	48, 358 6, 175 7, 794 8, 290 10, 433 11, 007 11, 573 12, 049 10, 630 11, 761 12, 231	49, 470 6, 330 8, 156 8, 523 10, 631 11, 730 11, 655 12, 551 11, 0058 11, 934 12, 337	49, 928 6, 376 7, 905 8, 645 10, 911 11, 806 11, 380 12, 942 11, 016 11, 214 12, 003 12, 349	49, 186 6, 408 7, 876 8, 838 10, 858 11, 476 11, 141 12, 696 10, 946 11, 017 12, 154 12, 241	48, 476 6, 327 7, 888 8, 731 10, 722 11, 831 11, 156 12, 684 10, 803 11, 063 11, 063 11, 951 11, 848	47, 590 6, 104 7, 803 8, 710 10, 804 11, 676 11, 076 12, 945 10, 704 11, 003 11, 747 11, 710	46, 724 6, 030 7, 822 9, 008 10, 878 11, 724 11, 169 12, 975 10, 680 11, 144 11, 788 11, 728	45, 505 5, 957 8, 086 8, 958 10, 802 11, 837 11, 241 12, 747 10, 658 11, 089 11, 977 11, 910

TABLE 43 .--- WAGE EARNERS: TBANSPOBTATION AND PUBLIC UTILITIES

I Arithmetic average of the 12 months.

			*							••••					
	Number	Average	Per cent					Þ	lumber en	iployed in					
Year	of estab- lishments reporting	number of em- ployees !	employ- ment is of maxi- mum	January	February	March	April	Мву	June	July	August	Septem- ber	October	Novem- ber •	Decem- ber
All employees: 1914	2077 341 403 414 3393 260 287 265 405 399 390 391 297 241 403 365 405 309 390 390 390 390 390 390 390	9, 558 13, 188 14, 611 18, 147 17, 760 19, 024 19, 000 19, 000	• 80.9 77.4 87.6 94.9 90.4 90.4 90.4 90.4 91.9 94.5 85.7 85.4 85.7 85.8 80.4 85.7 85.8 80.4 85.7 85.8 80.4 85.7 85.6 95.6 86.8 87.4 87.4 81.8 80.8 81.8 80.4 92.5 87.4 81.8 80.4 91.8 92.5 87.4 81.8 80.8 80.4 92.5 87.4 81.8 80.8 80.4 92.5 87.4 80.8 80.4 92.5 87.4 80.8 80.4 92.5 87.4 80.4 92.5 87.4 80.4 92.5 87.4 87.6 87.6 87.6 87.6 87.6 87.6 87.6 87.6	9, 396 13, 362 14, 342 16, 812 17, 087 17, 087 17, 087 17, 075 18, 237 19, 385 17, 176 18, 237 19, 387 3, 481 5, 579 6, 638 7, 7, 444 6, 637 7, 444 6, 637 7, 342 5, 015 7, 653 7, 765 9, 365 9, 365 9	9, 572 11, 787 13, 497 16, 928 17, 823 18, 029 18, 029 18, 021 17, 004 18, 140 9, 4351 5, 062 7, 425 6, 221 6, 221 7, 351 5, 863 7, 425 6, 588 7, 201 7, 799 5, 863 7, 436 7, 436	9, 272 11, 518 13, 993 17, 901 17, 881, 17, 919 17, 419 18, 332 17, 447 18, 215 19, 670 1, 449 3, 322 4, 301 5, 904 4, 303 4, 301 5, 904 6, 672 6, 672 6, 632 6, 632 6, 632 6, 642 7, 615 5, 049 7, 517 7, 995 9, 621 11, 397 10, 815 11, 273 11, 958	9, 460 12, 204 13, 304 15, 330 17, 735 18, 884 17, 785 18, 884 17, 852 18, 854 19, 67 8, 854 19, 67 4, 855 6, 60 7, 252 6, 788 6, 501 7, 146 7, 605 6, 100 8, 856 10, 872 10, 836 11, 832 10, 737 10, 305 11, 412 11, 976	9, 431 12, 557 14, 644 17, 557 18, 944 17, 778 18, 958 17, 600 17, 073 18, 897 19, 807 19, 807	9, 806 14, 836 14, 836 19, 017 18, 272 17, 673 19, 576 17, 633 19, 320 20, 119 3, 679 20, 129 20, 129	10, 110 13, 300 16, 630 19, 202 18, 619 17, 679 20, 334 5, 400 3, 894 4, 607 6, 642 5, 642 5, 642 6, 616 6, 616 7, 327 6, 634 7, 283 8, 223 8, 224 8, 225 8,	9,945 13,210 15,223 18,696 17,351 19,705 17,510 19,1000 19,1000 19,1000 19,10000000000	$\begin{array}{c} 9,726\\ 13,351\\ 15,157\\ 18,109\\ 17,416\\ 17,405\\ 18,097\\ 19,488\\ 19,694\\ 3,697\\ 10,488\\ 3,640\\ 5,596\\ 6,686\\ 7,552\\ 6,443\\ 6,686\\ 7,256\\ 6,845\\ 7,254\\ 8,106\\ 8,571\\ 10,573\\ 10,655\\ 10,657\\ 10,657\\ 10,655\\ 10,657\\ 10,657\\ 10,655\\ 10,657\\ 10,657\\ 10,655\\ 10,657\\ 10,6$	9, 847 13, 173 14, 879 17, 685 17, 685 17, 635 20, 000 17, 648 18, 034 18, 034 19, 291 10, 334 4, 468 6, 300 6, 438 6, 66 4, 488 6, 408 6, 438 6, 608 7, 720 7, 386 6, 608 7, 700 7, 834 7, 580 8, 673 11, 220 10, 771 11, 250 10, 556 10, 751 11, 457 11, 454	9, 330 13, 405 15, 406 18, 023 17, 778 17, 778 19, 880 17, 788 19, 880 19, 283 19, 216 3, 420 5, 681 9, 216 5, 681 6, 536 7, 304 6, 537 6, 546 7, 304 6, 537 7, 739 5, 910 7, 7724 8, 870 10, 919 11, 329 10, 908 12, 618 10, 442 10, 919 11, 601 11, 477	9,001 16,232 17,910 17,942 17,949 19,567 17,213 18,064 ,19,537 19,351 3,231 7,243 6,331 7,243 6,331 7,174 6,071 7,009 7,161 6,795 7,268 7,834 7,834 7,834 7,834 10,736 11,969 8,831 10,736 11,969 11,7979 11,0940 11,0

TABLE 44.—WAGE EARNERS: TBANSPORTATION AND PUBLIC UTILITIES—TELEGRAPH AND TELEPHONE (INCLUD-ING MESSENGER SERVICE)

¹ Arithmetic average of the 12 months.

GENERAL TABLES

<u>6</u>9

	Number	Average	Per cent minimum	l			•	N	lumber en	ployed in-		•			have a second se
Year	of estab- lishments reporting	number of em- ployees ¹	employ- ment is of maxi- mum	January	February	March	April	Мву	June	July	Åugust	Septem- ber	October	Novem- ber	Docem- ber
All employees: 1914	3, 361 4, 112 4, 437 4, 908 5, 657 6, 538 6, 007 6, 276 7, 659 3, 361 4, 112 4, 437 4, 908 5, 330 5, 637 6, 589 6, 067 6, 276 7, 689 3, 361 4, 112 4, 437 6, 589 5, 638 6, 067 6, 276 7, 689 3, 361 4, 112 4, 437 6, 589 5, 638 6, 657 6, 589 6, 638 6, 667 6, 589 6, 638 6, 667 6, 589 6, 638 6, 667 6, 589 6, 638 6, 657 6, 589 6, 638 6, 667 6, 589 6, 638 6, 667 6, 589 6, 638 6, 667 6, 589 6, 638 6, 667 6, 589 6, 589 6, 638 6, 667 6, 589 6, 589 7, 689 7, 689 8, 687 6, 589 8, 589 6, 589 6, 589 7, 687 6, 589 7, 689 7, 689 7, 688 7, 688 8, 687 6, 589 8, 589 8, 588 7, 688 8, 589 8, 588 8,	26, 744 33, 178 35, 411 42, 374 43, 764 45, 764 45, 764 45, 286 45, 286 46,	93, 4 86, 9 86, 2 96, 5 96, 5 96, 5 94, 2 95, 5 88, 8 90, 7 94, 2 95, 5 88, 8 90, 7 94, 2 94, 20	25, 801 31, 433 35, 130 41, 279 42, 898 42, 000 40, 831 45, 297 40, 831 45, 297 40, 831 54, 221 20, 844 25, 483 29, 807 33, 100 40, 855 44, 567 4, 967 5, 920 8, 760 8, 760 8, 740 8, 74	25, 603 30, 801 30, 017 30, 017 41, 443 42, 065 40, 716 54, 820 20, 804 25, 386 20, 896 34, 085 34, 848 33, 711 39, 902 35, 897 36, 131 7, 378 8, 120 9, 101 9, 624 8, 056 8, 896 9, 629	26, 178, 31, 974 36, 817 42, 035 43, 909 42, 388 50, 953 44, 741 50, 971 54, 609 21, 033 34, 741 50, 971 54, 609 21, 033 34, 991 33, 337 40, 584 44, 893 34, 584 44, 893 5, 142 6, 087 7, 876 8, 909 9, 351 10, 415 8, 902 8, 354 9, 776	26, 665 32, 992 38, 2049 42, 449 43, 896 44, 115 55, 021 55, 044 55, 021 55, 044 55, 021 55, 044 55, 045 55, 044 34, 327 44, 327 44, 327 44, 327 44, 327 44, 327 45, 526 55, 144 36, 308 55, 144 36, 308 56, 144 36, 308 56, 307 56, 307 56, 308 56, 307 56, 3	26, 917 33, 313 38, 109 42, 701 43, 834 44, 705 51, 308 45, 079 21, 862 27, 073 31, 173 34, 832 27, 073 31, 173 34, 832 35, 211 36, 128 41, 084 36, 346 38, 008 42, 837 45, 971 5, 055 6, 240 7, 026 7, 869 8, 623 9, 077 10, 224 8, 663 8, 593 9, 048 9, 048 109 109 109 109 109 109 109 109	27, 335 32, 988 33, 305 42, 854 44, 227 45, 874 45, 874 45, 874 45, 874 45, 874 45, 874 45, 874 45, 800 53, 388 55, 500 22, 509 27, 038 55, 448 500 35, 118 36, 512 41, 805 41, 805 41	27,000 32,539 37,759 37,759 37,769 43,653 46,653 62,741 44,684 48,780 52,603 55,505 31,309 35,206 35,117 37,214 42,485 36,432 40,252 45,049 46,052 4,619 5,521 6,390 7,472 8,837 9,330 10,2169 8,228 8,283 8,454 9,458	26, 762 32, 408 37, 530 42, 202 43, 433 47, 103 52, 478 52, 310 55, 292 22, 407 31, 623 34, 657 34, 65734, 657 34, 657 34, 657 34, 657 34, 65734, 657 34, 65734, 657 34, 657 34, 657 34, 65734, 657 34, 657 34, 65734, 657 34, 657 34, 65	27, 497 33, 743 39, 061 42, 528 42, 697 47, 707 52, 540 44, 942 49, 155 56, 225 56, 225 56, 225 56, 225 22, 474 47, 763 32, 227 34, 983 33, 767 37, 924 44, 0439 43, 501 40, 553 5, 023 6, 920 6, 824 7, 545 8, 930 9, 783 10, 540 9, 704 8, 716 8, 716	27, 206 35, 169 40, 507 42, 629 43, 085 52, 420 50, 336 53, 885 57, 438 21, 808 21, 808 21, 808 21, 808 21, 808 21, 808 33, 043 34, 957 33, 735 38, 263 37, 404 41, 128 6, 805 7, 464 47, 176 5, 398 6, 805 7, 464 7, 673 9, 065 10, 057 8, 765 8, 207 10, 0149 10, 812 10, 812 10, 812 10, 812 10, 812 10, 912 10, 912 10	27, 054 35, 066 41, 210 42, 781 42, 890 62, 197 46, 443 55, 307 57, 907 21, 640 28, 343 33, 676 33, 1802 33, 676 33, 1802 34, 1902 34, 1902 35, 1902 36, 1902 37, 1902 38, 1902 39, 190	26, 668 35, 536 41, 651 42, 880 43, 785 49, 785 40, 102 53, 663 66, 203 69, 783 21, 405 26, 861 34, 100 35, 167 33, 889 38, 820 41, 111 36, 627 43, 003 45, 209 6, 675 7, 753 6, 675 7, 753 9, 906 10, 525 10, 608 11, 296 11, 484

· TABLE 45.-WAGE EARNERS: TRADE, BETAIL AND WHOLESALE

Arithmetic average of the 12 months.

	Number	Average	Per cent					N	lumber en	iployed in-					
Yest	of estab- lishments reporting	number of em- ployees !	employ- ment is of maxi- mum	January	February	March	April	Мву	Jane	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914	14, 140 17, 981 20, 072 21, 624 22, 709 23, 652 27, 241 24, 552 25, 904 30, 439 14, 149 17, 981 20, 017 21, 624 22, 709 23, 652 27, 241 23, 552 25, 904 30, 439 14, 149 17, 681 17, 681 20, 017 21, 624 22, 709 23, 652 25, 904 30, 439 14, 149 17, 681 20, 017 21, 624 22, 709 23, 652 25, 904 30, 439 30, 43	58, 889 66, 574 79, 300 91, 247 110, 123 130, 857 110, 481 128, 470 133, 264 470 133, 264 470 133, 264 10, 481 128, 470 133, 264 130, 857 110, 481 128, 470 133, 264 130, 857 130, 857 14, 857 1	98. 3 91. 2 92. 6 97. 6 97. 6 97. 4 90. 6 98. 9 90. 6 98. 9 90. 6 98. 9 90. 6 98. 9 90. 6 98. 9 90. 7 98. 9 98. 9 99. 9 98. 9 99. 9	58, 799 63, 026 74, 114 87, 121 99, 427 108, 982 121, 208 132, 203 34, 864 37, 284 43, 096 44, 114 65, 586 59, 388 61, 217 67, 089 23, 035 24, 633 37, 453 36, 204 61, 217 67, 089 52, 646 31, 018 37, 453 36, 204 61, 941 57, 361 56, 091	58,601 58,6732 57,5732 100,119 120,673 114,827 120,673 114,827 120,673 114,827 120,673 114,827 120,673 114,827 120,673	58, 835 64, 608 76, 666 88, 497 110, 727 131, 663 113, 728 133, 129 37, 644 44, 714 80, 589 133, 194 37, 644 44, 714 80, 589 56, 257 56, 257 56, 215 66, 107 61, 117	59, 208 64, 917 77, 267 80, 440 101, 797 112, 013 133, 173 111, 965 124, 673 133, 984 44, 089 51, 089 54, 502 54, 502 54, 603 65, 081 65, 081 67, 810 24, 008 27, 085 35, 276 35, 276 35, 276 66, 032 27, 085 36, 2012 27, 085 36, 276 37, 850 27, 085 38, 361 47, 285 36, 022 265, 022 265, 022 265, 022 265, 022 265, 023 31, 574	89,011 65,5221 77,537 90,2521 133,2521 111,15580 133,2521 111,15580 133,2521 111,15580 133,2521 111,15580 133,2525 112,2522 133,255 122,520 133,252 134,252	59, 182 66, 506 79, 083 91, 513 105, 384 114, 476 134, 724 110, 431 127, 599 132, 069 46, 208 55, 512 55, 5125	59, 273 66, 336 90, 237 92, 339 106, 657 117, 523 109, 146 128, 544 133, 639 39, 418 47, 121 52, 602 55, 392 55, 392 55, 392 55, 154 65, 154 6	59, 184 67, 314 81, 190 110, 014 134, 068 106, 414 133, 479 36, 621 133, 479 36, 621 133, 479 36, 621 39, 807 47, 808 64, 720 65, 208 64, 722 65, 390 67, 798 23, 663 27, 663 28, 664 28, 654 68, 654 68, 654 68, 654 68, 654 68, 654 68, 654 68, 654 68, 654 69, 6556 69, 6556 69, 65566 69, 655666 69, 655666666666666666666666666666666666	59, 024 67, 013 81, 62, 000 106, 749 120, 070 131, 138 107, 555 128, 520 133, 435 35, 293 40, 024 47, 786 52, 290 53, 269 61, 486 66, 382 64, 241 65, 134 67, 556 23, 731 27, 869 33, 838 40, 770 53, 480 55, 384 40, 770 55, 480 55, 384 55, 385 56, 385 57, 570 57, 575 57, 575 575 57, 575 57, 575 57, 575	58, 605 65, 361 82, 223 93, 450 120, 556 122, 539 106, 540 122, 539 106, 540 122, 539 132, 991 34, 684 40, 297 48, 031 52, 015 52, 068 61, 533 64, 676 53, 577 23, 711 28, 004 34, 192 22, 711 28, 004 34, 192 55, 923 65, 925 65, 925 63, 241	58, 239 68, 559 68, 559 94, 137 106, 761 122, 749 122, 749 122, 749 122, 213 106, 994 122, 749 122, 213 106, 994 122, 538 133, 001 34, 581 40, 585 43, 400 52, 133 63, 004 65, 067 67, 218 28, 537 434, 616 42, 007 54, 628 52, 658 53, 069 63, 471	68, 612 70, 057 83, 988 94, 070 106, 223 124, 264 124, 268 107, 409 129, 248 133, 781 34, 790 41, 127 45, 856 61, 169 62, 386 64, 169 62, 386 64, 169 62, 385 85, 216 67, 354 28, 822 28, 930 35, 132 42, 121 54, 167 60, 195 61, 873 53, 538
1924	80, 439	65, 779	98. 1	66, 174	65, 359	65, 730	66, 124	65, 801	65, 684	65, 855	65, 681	65, 879	65, 699	65, 873	66, 427

TABLE 46.-BOOKKEEPERS, STENOGRAPHERS, AND OFFICE CLERKS: ALL INDUSTRIES

¹ Arithmetic average of the 12 months.

* Figures not obtainable.

GENERAL TABLES

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TABLE 47.-BOOKKEEPERS, STENOGRAPHERS, AND OFFICE CLERKS: TRADE, BETAIL AND WHOLESALE

	Number	Average	Per cent				· ·	r	Number en	aployed in					
Year	of estab- lishments reporting	number of em- ployees ¹	employ- ment is of maxi- mum	January	February	Marah	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees:													· · · · · · · · · · · · · · · · · · ·		A. p
1914.	8, 361	16, 537	96.4	16, 549	16, 565	16, 596	16, 640	16, 518	16, 513	10, 323	16, 812	16, 485	16, 516	16, 504	16, 927
1916.	4, 437	19, 438	91.1	10,008	18,813	10,009	16,068	10,122	16,190	10,141	10,179	16, 393	16, 502	16,701	17, 085
1917	4,908 5,330	23, 159 22, 303	94.0	22, 612	22,022	22,696	22,828	22,836	23,081	28, 241	23, 264	23, 322	23, 585	23, 761	24,061
1919	8, 657	26, 638	87.9	24, 967	25, 180	25, 484	25, 785	25, 998	26, 302	27, 111	27, 845	27, 580	27, 587	27, 943	28, 391
1921	5, 638	30, 905 27, 778	90. 2 93. 4	28,988	30, 128 28, 425	30, 514 28, 377	20, 815 28, 120	30, 832 27, 925	27, 763	81,487	81,485	81, 220	31,059	81, 159	81, 196
1922 1. 1923	6. 276	31, 839		30 407	80 839	21 068	91 219	81 673	31 060	90 020					21,001
1924.	7, 689	34, 070	96. 8	83, 638	33, 693	83, 958	34, 218	33, 958	33, 874	33,992	88,975	84, 289	84,122	84, 224	82,980
1914	8, 261	8, 611	97.9	R. 604	R 597	8, 585	8 A13	8 550	8,600	9 244	R 570	6.000	0 430		0 144
1915	4,112	7, 730	93.9	7, 587	7, 511	7, 578	7, 614	7, 666	7,711	7,705	7,780	7, 825	7,875	7,932	8,740
1917	4, 908	10, 297	92.8	8, 004 10, 192	8, 754 10, 235	8,956 10,275	8, 901 10, 333	8, 803 10, 275	8,842	9,044 10,412	9,119	9,177	0,243	9,273	9, 335
1918	6, 330	8,288	89.6	8, 681	8, 642	8, 635	8, 555	8, 587	8,426	8, 253	8,200	7, 971	7, 808	7, 782	7, 912
1920.	6, 589	11, 802	95.2	11,022	11,043	11, 231	9, 215 11, 304	9,109	9, 624	10,005	10, 193	10, 197	10, 257		10,440
1921 1922 3	8 , 638	10, 642	94. 2	11, 048	10, 884	10, 823	10, 753	10, 682	10, 679	10, 590	10, 496	10, 482	10, 402	10, 404	10, 464
1923	6, 276	12,016	98.9	11, 548	11, 651	11, 873	11, 888	12, 028	12 074	12, 226	12, 259	12, 293	12, 147	12, 287	12, 282
Females:	7,089	18, 000	96.5	19,834	12, 909	13, 016	13, 018	12,078	12,094	13,064	18, 124	18,091	18, 162	18, 179	13, 295
1914	8, 361	7,927	94.6	7, 945	7,968	8,011	8, 027	7, 959	7, 911	7,759	7, 742	7, 856	7, 886	7, 876	8, 181
1916.	4, 437	10, 429	972.5 89.6	8, 441 10, 064	8,439	8, 431 10, 142	6, 154 10, 232	8,400 10,261	8,479	8, 136	8,899	8,568	8, 627	8,769	9,083
1917	4,908 8,930	12,862	89. D	12,420	12, 387	12, 421	12, 495	12,561	12,785	12, 829	12, 887	18,007	18, 316	13, 454	18, 774
1919.	5, 657	16, 922	89. ð 90. l	10, 030 1	16, 250	18, 197 16, 339	18, 421	18, 679	18,914	14, 198	14,220	14,606	14,499	14,639	14,906 17,951
1920	6, 589 5, 638	19, 548 17, 136	95. 2 98. 0	18,966	19,065	19, 283	19, 511	19, 548	19,025	19,913	19,837	10, 894	19,698	19, 580	19, 779
1922 3		10, 100			******	A7,00%		11,210	17,009	10,940	10,090	10,700	10,031	10,770	17, 203
1924	7,099	21,016	92.5	19, 151 20, 799	19, 187 20, 784	19, 382 20, 937	19, 330 21, 195	19, 645 20, 980	19,906 20,880	20,026	20,004	20,023	19,916 20,960	20, 239	20, 704
				•	• • •										

¹ Arithmetic average of the 12 months.

* Figures not obtainable.
| | Number | Average | Per cent | | | | | N | lumber en | ployed in- | | . <u></u> | | | |
|--|---|---|---|---|---|--|--|--|--|--|---|--|--|---|---|
| Year | of estab-
lishmenta
reporting | number
of em-
ployees t | employ-
ment is
of maxi-
mum | January | February | March | April | Мву | June | July | August | Septem.
ber | October | Novem-
ber | Decem-
bar |
| All employees: 1914 1915 1016 1017 1018 1019 1019 1019 1020 1021 1022 1 1022 1 1022 1 1023 1046 1916 1917 1918 1918 1919 1921 1922 1923 1924 Malee: 1916 1917 1920 1921 1922 1924 1925 1924 1925 1924 1925 1924 1924 1925 1924 1924 1924 1924 1924 1924 1924 1924 1916 | 2,708
3,157
3,300
4,021
4,271
4,932
4,26
4,26
4,26
4,26
4,26
4,26
4,26
4,2 | 11, 658
10, 871
12, 681
14, 052
14, 052
19, 006
19, 456
5, 562
5, 562
5, 570
6, 703
6, 703
6, 703
6, 746
6, 746
6, 746
6, 746
6, 746
6, 747
6, 126
6, 126
7, | 93.7
92.1
91.1
92.1
94.3
89.0
93.6
94.6
94.6
94.6
95.3
95.3
96.9
92.7
96.3
96.9
92.7
93.3
96.9
90.2
2
85.2
2
85.2
95.4
96.4
96.6
91.7
90.4
89.6
990.5 | 11, 764
10, 742
12, 317
15, 793
17, 643
17, 608
16, 428
16, 400
4, 778
5, 588
6, 500
6, 301
6, 302
6, 302
7, 449
8, 556
6, 302
6, 302
7, 449
8, 556
6, 302
7, 449
7, 449
8, 456
8, 549
8, 549
8, 549
8, 549
7, 449
7, 449
7, 449
8, 549
8, 5 | 11, 741
10, 655
12, 315
13, 670
14, 404
15, 813
17, 560
17, 258
18, 459
19, 231
5, 569
4, 336
4, 877
5, 138
4, 946
4, 823
5, 391
5, 791
5, 791
5, 906
6, 302
6, 172
6, 319
7, 438
8, 5532
9, 548 | 11, 730
10, 657
12, 468
13, 720
14, 645
15, 937
17, 771
17, 748
18, 662
19, 420
5, 532
4, 972
4, 903
5, 157
4, 940
5, 752
4, 920
5, 752
6, 168
6, 368
6, 198
6, 368
6, 198
6, 366
39, 666
9, 666
11, 017 | 11, 799
10, 703
12, 606
13, 803
14, 408
16, 137
17, 094
17, 105
18, 521
19, 579
5, 570
4, 387
4, 080
5, 105
5, 570
4, 387
4, 083
5, 670
5, 181
5, 710
6, 003
6, 336
7, 726
8, 622
9, 632
9, 532 | 11, 646
10, 752
12, 472
13, 837
14, 612
16, 978
18, 759
18, 759
18, 759
19, 356
5, 517
5, 181
4, 943
5, 540
5, 676
6, 520
6, 325
6, 325
6, 325
6, 325
6, 326
9, 669
9, 669
9, 11, 142 | 11, 024
10, 760
12, 400
13, 001
14, 672
18, 068
16, 804
19, 203
5, 540
4, 438
4, 903
5, 540
4, 438
4, 903
5, 192
5, 635
5, 192
5, 635
6, 118
8, 316
6, 084
6, 342
7, 587
7, 877
9, 877 | 11, 431
10, 753
12, 585
14, 000
16, 702
18, 403
19, 189
19, 305
5, 407
4, 670
5, 303
6, 751
5, 666
6, 777
6, 338
5, 934
5, 934
5, 757
10, 031
11, 339 | 11, 392
10, 738
12, 579
14, 008
14, 773
16, 644
16, 663
19, 143
19, 275
5, 496
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5, 634
6, 210
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10, 907
12, 761
14, 158
14, 972
17, 017
18, 455
16, 701
19, 183
19, 903
5, 670
4, 583
5, 416
5, 656
6, 216
6, 380
6, 044
6, 376
6, 216
6, 380
6, 044
6, 376 | 11, 678
11, 078
12, 965
12, 965
12, 965
14, 371
14, 828
17, 030
16, 601
19, 393
5, 566
4, 550
5, 123
5, 248
4, 500
5, 461
5, 623
5, 637
6, 228
6, 417
6, 112
6, 122
9, 123
10, 319
11, 578 | 11, 689
11, 183
13, 214
14, 527
14, 051
17, 340
18, 556
10, 519
19, 537
5, 573
4, 696
5, 156
5, 156
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5, 156
6, 276
4, 502
5, 646
6, 283
6, 451
6, 116
6, 688
8, 059
9, 251
10, 449
11, 704 | 12, 160
11, 573
18, 514
14, 849
15, 340
17, 753
18, 742
20, 056
20, 187
5, 729
4, 678
5, 211
5, 800
4, 604
4, 604
5, 609
5, 772
5, 632
6, 347
6, 542
6, 543
10, 736
12, 144 |
| 1920
1921
1922 1
1923
1923 | 4, 932
4, 218
4, 634
5, 686 | 12, 635
11, 289
12, 859
13, 083 | 93, 7
94, 2
90, 9
94, 4 | 12, 148
11, 702
12, 502
12, 986 | 12, 178
11, 467
12, 463
12, 929 | 12, 282
11, 496
12, 554
18, 062 | 12, 443
11, 395
12, 458
13, 222 | 12, 486
11, 302
12, 669
13, 041 | 12, 483
11, 205
12, 941
12, 948 | 12, 052
11, 144
13, 012
12, 967 | 12, 673
11, 029
12, 924
12, 905 | 12,700
11,055
12,967
13,223 | 12,700
11,024
12,969
12,976 | 12, 709
11, 129
19, 236
13, 086 | 12, 970
11, 524
13, 709
13, 665 |

TABLE 48.-BOOKKEEPERS, STENOGRAPHERS, AND OFFICE CLERKS: TRADE-STORES, RETAIL AND WHOLESALE

Arithmetic average of the 12 months.

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* Figures not obtainable,

GENERAL TABLES

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	Namber	Average	Per cent minimum	t Number employed in										······································	
Year	of estab- lishments reporting	number of em- ployees)	employ- ment is of maxi- mum	January	February	March	Ápril	Мау	June	July	August	Septem- ber	October	Novem- ber	Decam- ber
Ail employees: 1014 1015 1016 1017 1018 1019 1019 1019 1010 1011 1012 1012 1012 1012 1012 1022 1023 1024 1016 1017 1018 1014 1015 1016 1016 1016 1017 1018 1014 1015 1016 1017 1018 1019 1021 1022 1023 1024	235 2890 3899 4853 515 5644 803 670 7722 7779 982 2355 5154 803 676 722 779 982 235 235 235 235 235 235 235 235 235 23	3, 816 4, 151 5, 359 7, 537 5, 856 8, 430 9, 351 10, 989 12, 601 2, 405 2, 412 3, 123 4, 109 4, 109 4, 109 4, 109 4, 109 4, 109 5, 665 1, 411 1, 608 8, 394 1, 661 8, 252 6, 121 6, 125 1, 252 6, 121 7, 025	97.0 96.5 90.5 95.5 95.5 95.5 94.0 90.7 91.7 97.9 91.7 97.9 91.7 97.9 91.7 97.9 91.7 97.9 91.7 97.9 91.5 96.1 88.6 81.8 91.5 90.1 83.0 95.4 95.4 95.4 95.4 95.4 95.4 95.4 95.4	3, 819 4, 071 5, 003 7, 324 5, 768 7, 630 9, 736 8, 806 10, 520 112, 440 2, 405 2, 430 2, 405 2, 430 2, 405 2, 430 2, 405 3, 717 3, 214 4, 723 4, 300 3, 732 4, 300 3, 732 4, 300 5, 527 1, 414 1, 641 1, 641 1, 642 3, 195 3, 195 3, 195 3, 265 4, 618 6, 918 1, 618 1, 653 1, 655 1,	3, 854 4, 100 5, 104 7, 450 5, 771 7, 822 10, 855 9, 586 9, 041 10, 621 12, 562 2, 415 2, 415 2, 409 3, 026 4, 167 4, 744 4, 268 3, 207 4, 744 4, 268 3, 207 4, 744 4, 268 3, 207 4, 744 4, 268 3, 207 5, 595 1, 439 1, 691 2, 168 3, 273 4, 525 0, 111 5, 318 5, 106 6, 966	3, 880 4, 138 5, 809 7, 045 6, 809 7, 005 11, 015 9, 570 9, 109 10, 788 12, 637 2, 431 3, 103 4, 243 4, 2431 3, 103 4, 243 4, 243 4, 243 4, 243 4, 243 4, 243 4, 245 5, 688 1, 440 1, 772 5, 688 1, 440 1, 772 5, 688 1, 440 1, 772 5, 274 4, 585 6, 829 1, 440 1, 772 5, 688 1, 440 1, 69 1, 69 1, 60 1,	3, 845 4, 139 5, 834 5, 834 9, 279 10, 888 12, 728 2, 419 3, 380 4, 228 4, 228 4, 228 4, 228 4, 826 1, 656 1, 656 1, 626 4, 826 1, 626 4, 826 1, 626 4, 826 4, 826 5, 650 1, 626 4, 826 5, 214 4, 681 4, 624 8, 626 1, 626 8, 626 1, 626	$\begin{array}{c} \textbf{3,845}\\ \textbf{4,124}\\ \textbf{5,7433}\\ \textbf{5,858}\\ \textbf{8,558}\\ \textbf{8,588}\\ \textbf{8,588}$	3,819 4,256 7,557 5,5775 5,5775 5,5775 5,5775 5,5775 5,5775 5,5775 5,5775 5,5775 5,5	$\begin{array}{c} 3,790\\ 4,122\\ 6,428\\ 7,614\\ 6,016\\ 8,754\\ 11,323\\ 11,323\\ 11,180\\ 12,756\\ 2,398\\ 12,750\\ 2,398\\ 2,427\\ 3,157\\ 4,220\\ 2,626\\ 3,825\\ 4,984\\ 4,192\\ 5,002\\ 5,710\\ 1,397\\ 1,696\\ 4,831\\ 4,920\\ 4,920\\ 6,332\\ 5,085\\ 5,301\\ 6,178\\ 7,046\\ \end{array}$	$\begin{array}{c} 3,800\\ 4,157\\ 5,497\\ 7,619\\ 5,987\\ 8,820\\ 11,203\\ 8,971\\ 2,302\\ 12,747\\ 2,342\\ 3,189\\ 4,920\\ 4,102\\ 4,920\\ $	3,790 4,189 5,5903 5,903 5,803 11,007 8,803 11,007 8,672 11,231 12,736 2,301 2,403 3,223 4,005 2,403 3,223 4,005 4,005 2,463 3,884 4,841 3,984 4,841 3,984 4,841 5,016 5,671 1,309 1,778 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 2,368 3,402 3,403 3,402 3,403 3,503 3,503 4,505 5,603 3,503 4,505 5,603 3,503 4,505 5,603 3,804 4,505 5,603 3,505 4,505 5,607 1,755 2,301 3,808 4,905 5,607 2,403 3,808 4,907 5,007 5	3, 700 4, 190 5, 561 8, 850 9, 567 10, 975 12, 771 2, 407 2, 407 2, 422 3, 898 4, 802 4, 802 4, 802 5, 714 1, 389 4, 802 4, 802 4, 802 5, 339 3, 368 4, 952 6, 173 3, 365 4, 104 4, 802 5, 408 4, 952 6, 173 5, 359 4, 105 5, 50 5,	8,790 4,213 5,544 5,575 10,8835 8,601 11,77 4,503 8,601 11,77 4,503 8,601 11,77 4,503 8,601 11,77 4,503 8,601 11,77 4,503 8,601 11,77 4,503 8,601 11,77 4,503 8,601 11,77 4,503 8,601 11,77 4,503 8,601 11,77 4,505 8,601 11,77 4,505 8,601 11,77 4,505 8,601 11,77 4,505 8,601 11,77 4,505 8,601 11,77 4,505 8,601 11,77 4,505 8,601 11,77 4,505 8,601 11,77 4,505 8,601 11,77 4,505 8,601 11,77 4,505 8,601 11,77 4,505 8,50	3, 763 4, 219 5, 610 7, 634 5, 810 8, 625 10, 708 8, 927 9, 580 11, 009 12, 789 2, 384 2, 392 3, 224 4, 927 3, 956 4, 909 5, 746 1, 370 1, 777 2, 395 3, 549 3, 549 4, 907 1, 577 5, 610 1, 777 2, 395 3, 539 4, 907 4, 907 1, 577 5, 610 1, 778 1, 789 1, 777 1, 777 1, 789 3, 556 1, 777 1, 777 1, 789 3, 556 1, 777 1, 777 1, 789 3, 559 3, 560 1, 777 1, 777 1, 789 3, 560 1, 777 1, 777 1, 789 3, 560 1, 777 1, 777 1, 777 1, 789 3, 579 1, 777 1, 777 1, 777 1, 789 3, 579 1, 777 1, 777 1, 789 3, 579 1, 777 1, 7777 1, 7777 1, 7777 1, 7777 1, 7777 1, 7777 1, 7777 1, 7777 1, 7777 1, 77777 1, 77777 1, 777777 1, 7777777 1, 7777777777

TABLE 49.-BOOKKEEPERS, STENOGRAPHERS, AND OFFICE CLERKS: TRADE-OFFICES

¹ Arithmetic average of the 12 months.

100 VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

· · · · · ·	Number	Average	Per cent						Number employed in—						
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	April	Мау	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
A () employees: 1914	6, 749 7, 884 8, 299 8, 605 8, 605 8, 652 8, 652 8, 701 9, 125 6, 749 7, 884 8, 209 8, 660 8, 858 9, 011 9, 125 6, 749 7, 884 8, 209 8, 652 8, 632 8, 632 6, 749 9, 125 6, 749 9, 125 6, 749 9, 125 6, 749 9, 125 8, 632 8, 632 8, 632 8, 701 9, 125 8, 701 9, 125 8, 600 8, 858 8, 600 8, 858 8, 701 9, 125 8, 701 8, 701 9, 125 8, 701 9, 125 8, 701 9, 125 8, 701 9, 125 8, 701 8, 858 8, 858 8, 701 9, 125 8, 701 9, 125 8, 701 9, 125 8, 701 8, 800 8, 701 9, 125 8, 701 9, 125 8, 701 9, 125 8, 701 8, 701 9, 125 8, 701 9, 749 8, 749 7, 749 8, 749 8, 749 8, 749 8, 749 8, 749 8, 749 8, 749 8, 749 8, 749 7, 749 8, 749 8, 749 8, 749 8, 749 8, 749 8, 749 7, 749 8, 749 8, 749 8, 749 8, 749 8, 749 7, 749 8, 749 7,	35, 576 41, 512 49, 079 55, 741 62, 155 74, 035 57, 965 57, 965 65, 538 65, 503 22, 224 96, 150 30, 950 34, 306 35, 315 38, 489 41, 863 32, 713 37, 743 37, 743 13, 852 15, 862 15, 859 29, 760 21, 436 226, 859 29, 760 31, 172 25, 252	97. 0 89. 0 87. 2 91. 6 91. 7 87. 2 85. 4 88. 1 98. 4 95. 9 98. 4 95. 9 98. 4 95. 9 98. 4 97. 9 86. 0 97. 9 86. 0 97. 9 86. 0 87. 4 87. 4 88. 4 95. 9 86. 9 87. 9 86. 9 97. 9 98. 8 99. 8 99. 8 99. 9 99. 9 90. 8 90. 90. 90. 90. 90. 90. 90. 90. 90. 90.	36, 861 39, 200 41, 322 52, 865 58, 750 62, 885 62, 885 62, 885 65, 984 22, 213 24, 703 24, 703 25, 886 22, 213 24, 703 24, 991 35, 385 41, 990 35, 889 34, 991 35, 385 41, 980 35, 889 36, 889 36, 889 37, 845 37, 84	35, 453 39, 730 48, 074 55, 359 56, 355 74, 244 61, 417 63, 488 66, 279 22, 024 24, 949 29, 007 35, 759 35, 759 35, 759 35, 759 35, 759 36, 197 37, 992 13, 429 14, 781 17, 047 124, 285 28, 596 81, 404 26, 431	35, 633 40, 190 47, 212 53, 636 60, 506 65, 003 75, 214 60, 504 64, 558 66, 365 22, 088 25, 186 33, 558 35, 847 36, 237 36, 237 36, 237 36, 237 36, 355 36, 345 36, 35, 345 36, 345, 34536, 345 36, 345, 345, 345, 345, 345, 345, 345	35, 806 40, 228 47, 649 54, 510 66, 647 76, 012 65, 604 76, 012 65, 100 65, 653 22, 417 25, 233 29, 948 33, 899 35, 478 33, 859 33, 859 35, 707 43, 765 33, 553 37, 138 38, 563 37, 138 38, 392 15, 035 17, 701 12, 025, 134 22, 134 23, 924 24, 924 28, 902 28, 902	35, 658 40, 732 48, 206 55, 270 61, 518 65, 549 76, 080 58, 782 65, 767 66, 105 22, 321 25, 557 30, 45, 557 30, 43, 816 33, 200 37, 457 37, 452 13, 37, 582 13, 37, 582 13, 37, 582 13, 147 25, 717 28, 264 22, 264 25, 582	35, 795 41, 307 49, 076 55, 871 62, 637 66, 872 76, 163 66, 420 66, 585 22, 430 26, 036 31, 017 34, 616 36, 154 37, 588 43, 823 32, 418 37, 507 13, 3566 15, 271 18, 059 21, 225 26, 483 20, 286 22, 459 22, 450 22, 450 21, 450 22, 450 23, 450 24, 4	36, 031 41, 824 49, 817 56, 470 63, 488 68, 740 76, 306 65, 684 66, 770 65, 041 22, 616 26, 487 31, 565 35, 010 36, 181 22, 616 26, 487 31, 780 38, 747 43, 767 31, 780 38, 085 37, 802 37, 802 37, 822 21, 469 32, 620 27, 327 29, 973 32, 620 24, 804	36, 944 42, 215 50, 589 57, 207 63, 963 70, 616 74, 699 66, 661 66, 813 22, 500 26, 717 32, 131 33, 203 35, 694 40, 303 42, 506 31, 592 33, 694 13, 562 13, 354 15, 498 13, 354 13, 498 13, 354 13, 498 13, 354 13, 498 13, 354 13, 498 13, 354 13, 498 13, 354 13, 498 13, 354 15, 498 16, 498 17, 498 18, 458 22, 004 28, 019 20, 00, 019 20, 019 20	35, 654 42, 505 50, 573 57, 086 63, 795 72, 386 85, 731 66, 443 65, 695 22, 337 26, 892 31, 946 34, 897 35, 054 40, 034 41, 188 31, 300 31, 307 37, 874 37, 607 13, 317 15, 703 18, 628 22, 189 28, 741 30, 419 30, 419 31, 945 31, 94	35, 344 42, 9786 560, 8811 67, 273 63, 5723 71, 254 665, 6531 22, 067 27, 114 32, 054 34, 749 34, 227 40, 464 30, 616 81, 129 37, 797 37, 452 13, 277 15, 8222 18, 827 15, 822 18, 827 19, 198 24, 252 24, 252 24, 252 24, 252 24, 252 25, 448 25, 149 26, 149 27, 150 27, 150	34, 037 43, 297 51, 402 87, 700 64, 003 72, 502 67, 400 66, 041 65, 769 21, 691 27, 302 32, 306 34, 820 34, 82	34, 003 43, 717 52, 002 57, 332 63, 371 73, 444 65, 385 65, 417 66, 743 21, 881 27, 630 32, 752 34, 785 34, 438 42, 194 87, 230 31, 121 16, 087 10, 250 22, 547 28, 933 31, 250 28, 422 28, 295
1924	9, 125	28, 720	98.8	28, 129	28, 287	28, 382	225, 406	225, 2223	28, 0/8	225, 139	28, 130	20, 088	20, 109	20, 340	20, 000

TABLE 50.-BOOKKEEPERS, STENOGRAPHERS, AND OFFICE CLERKS: ALL MANUFACTURES

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¹ Arithmetic average of the 12 months.

Figures not obtainable.

GENERAL TABLES

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t	Number	Average	Per cent				,	N	fumber en	ployed in-					
Your	of estab- lisbments reporting	number of em- ployees ¹	employ- ment is of maxi- mum	January	February	March	April	May	June	July	August	Septem- ber	October	Novam- ber	Decem- ber
All employees: 1914	14, 149 17, 981 20, 017 21, 624 22, 709 23, 652 27, 241 23, 562	29, 710 32, 188 36, 909 40, 422 42, 002 46, 861 50, 173 46, 784	83. 1 91. 0 78. 5 83. 4 85. 5 80. 6 85. 2 84. 2	29, 193 31, 185 35, 073 39, 151 41, 027 43, 506 48, 434 46, 773	28, 717 30, 445 34, 405 38, 023 40, 847 43, 732 47, 923 45, 573	29, 307 31, 409 35, 330 40, 097 42, 088 44, 458 48, 992 48, 683	30, 204 31, 924 36, 976 40, 527 41, 801 45, 543 49, 572 48, 670	20, 835 32, 251 36, 403 40, 119 41, 402 45, 704 49, 823 46, 435	29, 595 31, 661 36, 045 30, 854 41, 800 46, 285 49, 072 46, 314	28, 684 31, 000 35, 723 39, 516 40, 809 46, 225 49, 675 45, 326	27, 967 30, 490 34, 773 38, 641 40, 237 46, 335 49, 041 44, 727	28, 907 31, 832 36, 747 40, 628 41, 700 47, 661 50, 121 45, 374	29, 932 32, 853 38, 249 41, 158 42, 120 48, 407 50, 621 46, 835	30, 540 33, 611 39, 363 41, 758 42, 934 50, 512 51, 971 47, 597	33, 641 37, 591 43, 818 45, 598 47, 068 53, 967 56, 236 53, 099
1922	25, 904 30, 439 14, 149 17, 981 20, 017 21, 624 22, 709 23, 652 27, 241 22, 563	54, 901 63, 106 14, 636 16, 602 18, 421 20, 348 20, 116 32, 405 24, 848 24, 848 24, 278	77.9 81.5 91.1 90.7 95.1 95.4 83.8 93.2 94.4	51, 032 58, 947 14, 451 16, 254 17, 825 19, 969 20, 399 20, 573 24, 028 23, 859	51, 028 59, 279 14, 435 16, 108 17, 707 20, 061 20, 339 20, 873 24, 137 23, 890	52, 703 61, 022 14, 536 16, 201 18, 004 20, 360 20, 588 21, 168 24, 488 24, 488 24, 107	53, 461 62, 608 14, 690 16, 458 18, 257 20, 368 20, 504 21, 627 24, 658 24, 278	53, 405 61, 353 14, 644 16, 528 18, 323 20, 370 20, 286 22, 044 24, 826 24, 320	54, 323 01, 264 14, 675 16, 613 18, 208 20, 408 20, 203 22, 324 24, 976 24, 355	53, 910 66, 621 14, 523 16, 534 18, 326 20, 370 19, 963 22, 777 25, 018 24, 187	53, 082 59, 034 14, 456 16, 389 18, 202 20, 218 19, 647 22, 954 24, 819 24, 084	55, 663 61, 432 14, 552 16, 632 18, 520 20, 331 19, 720 23, 230 25, 644 24, 178	56, 145 03, 142 14, 712 16, 771 18, 759 20, 296 19, 557 23, 609 26, 114 24, 305	58, 327 64, 307 14, 792 17, 043 19, 018 20, 434 19, 617 23, 932 25, 273 24, 500	65, 525 72, 363 15, 160 17, 690 19, 626 20, 991 20, 495 24, 564 25, 790 25, 271
1923	25, 904 30, 439 14, 149 17, 983 20, 017 21, 634 22, 709 33, 662 27, 241 23, 562 28, 904	28, 870 34, 136 15, 074 16, 586 18, 488 20, 075 21, 886 24, 887 24, 397 25, 328 22, 506	87.9 90.6 73.1 70.9 68.1 73.0 77.2 77.7 78.1 74.2	27, 212 32, 628 14, 742 14, 931 17, 248 19, 182 20, 028 22, 933 24, 406 22, 914	27, 448 32, 005 14, 282 14, 337 16, 608 17, 962 20, 608 22, 859 23, 786 21, 683	28, 015 33, 364 14, 771 15, 308 17, 326 19, 737 21, 510 23, 300 24, 604 22, 576	28, 255 34, 056 15, 514 15, 460 18, 719 20, 159 21, 387 23, 916 24, 914 22, 392	28, 506 34, 141 15, 191 15, 723 18, 060 10, 749 21, 200 23, 660 94, 097 22, 115	29, 017 34, 355 14, 920 15, 048 17, 747 19, 448 21, 337 23, 961 24, 006 21, 969	20, 094 34, 308 14, 101 14, 466 17, 397 19, 146 20, 848 23, 448 24, 657 21, 130	28, 800 34, 184 13, 511 14, 101 16, 481 18, 423 20, 590 23, 381 34, 222 20, 643	29, 536 34, 416 14, 358 15, 200 18, 218 20, 297 21, 971 24, 431 25, 077 21, 198	20, 440 34, 431 15, 220 10, 082 19, 400 20, 862 22, 603 24, 808 25, 507 22, 530	30, 067 34, 782 15, 748 16, 568 20, 346 21, 324 23, 317 26, 580 26, 698 23, 097	30, 947 36, 000 18, 472 19, 901 24, 192 24, 607 28, 573 20, 403 30, 448 27, 828
1924	30, 439	27, 970	70.8	23, 850	26, 314	24, 778 27, 658	20, 200	24, 989 27, 212	26, 909	24, 818	24, 192 25, 750	27,016	27, 711	225, 260	34, 578 36, 303

TABLE 51 .- SALES PEOPLE (NOT TRAVELING): ALL INDUSTRIES

¹ Arithmetic average of the 12 months,

.

I Figures not obtainable.

102 VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

	Number	Average	Per cent					N	(umber em	ployed in-	····				
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	Japuary	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
All employees: 1914	6, 749 7, 884 8, 290 8, 600 8, 658 9, 011 9, 652 8, 632 8, 701 8, 701	3, 902 3, 762 5, 035 5, 316 5, 103 5, 346 5, 735 5, 080 6, 363 7, 680	96. 1 95. 9 94. 5 94. 8 97. 0 85. 3 93. 7 96. 9 90. 9 94. 0	3, 825 3, 683 4, 870 5, 104 5, 077 4, 886 5, 507 8, 622 6, 061 6, 061	3, 839 3, 678 4, 915 5, 241 5, 072 4, 979 5, 585 5, 613 6, 120 6, 753	3, 858 3, 692 4, 986 5, 328 5, 081 5, 067 5, 648 6, 625 6, 154	8, 904 3, 743 4, 983 5, 135 5, 135 5, 717 5, 852 6, 198 6, 198	3, 908 3, 789 5, 012 5, 335 5, 152 5, 152 5, 723 5, 629 0, 316 6, 980	3, 908 3, 708 5, 055 5, 363 5, 175 5, 322 5, 749 5, 660 6, 380 7, 063	3, 909 3, 787 5, 098 5, 365 5, 160 5, 456 5, 456 5, 654 6, 450 7, 108	3, 899 3, 797 5, 153 5, 173 5, 183 5, 520 5, 183 5, 520 5, 759 5, 695 6, 385 7, 137	3, 921 3, 787 5, 060 5, 382 5, 061 5, 556 5, 803 5, 725 6, 548 7, 117	3, 934 3, 780 5, 066 5, 340 5, 018 5, 584 5, 875 5, 725 6, 505 7, 075	3, 937 3, 807 5, 098 5, 314 5, 042 5, 669 5, 843 5, 729 6, 558 7, 146	8, 980 8, 837 5, 122 5, 349 5, 103 5, 731 8, 838 5, 831 6, 665 7, 149
IV24 Males: 1914 1916 1916 1917 1918 1919 1919 1920 1921 1922 *	9, 120 6, 749 7, 884 8, 209 8, 600 8, 858 9, 011 9, 652 8, 632 8, 701	7, 012 3, 153 3, 013 4, 025 4, 243 4, 005 4, 214 4, 507 4, 646 5, 171	97. 5 95. 2 94. 3 95. 8 95. 9 86. 3 94. 4 96. 4 92. 2	0, 722 3, 098 2, 918 3, 804 4, 129 4, 015 3, 860 4, 335 4, 575 4, 925	8, 109 2, 917 3, 038 4, 222 4, 007 3, 920 4, 387 4, 583 4, 076	0, 024 3, 132 2, 942 3, 988 4, 287 4, 012 4, 454 4, 597 5, 007	0, 950 3, 151 2, 010 3, 987 4, 254 4, 042 4, 050 4, 494 4, 614 5, 054	0, 540 3, 160 8, 050 4, 023 4, 287 4, 062 4, 132 4, 505 4, 604 5, 140	3, 166 3, 039 4, 046 4, 308 4, 060 4, 208 4, 208 4, 545 5, 165	3, 185 3, 063 4, 079 4, 306 4, 306 4, 602 4, 644 5, 206	3, 165 3, 050 4, 128 4, 288 4, 056 4, 361 4, 537 4, 680 5, 221 5, 221	3, 168 3, 046 4, 047 4, 205 3, 953 4, 391 4, 548 4, 666 5, 335	3, 176 3, 032 4, 050 4, 210 3, 912 4, 405 4, 503 4, 601	3, 170 3, 046 4, 058 4, 181 3, 915 4, 469 4, 681 4, 690	3, 172 3, 043 4, 069 4, 182 3, 927 4, 471 4, 555 4, 747 5, 341
1924 Females: 1914	0, 125 6, 749 7, 884 8, 200 8, 800 8, 858 9, 011 9, 652 8, 632 8, 632 8, 701 9, 125	5, 834 749 740 1, 010 1, 072 1, 098 1, 132 1, 228 1, 034 1, 192 1, 169	94. 2 89. 9 91. 2 92. 1 83. 5 90. 3 81. 4 91. 3 93. 2 85. 8 87. 6	5,605 727 765 976 976 1,062 1,028 1,172 1,047 1,136 1,117	5, 654 730 761 977 1, 019 1, 005 1, 059 1, 199 1, 030 1, 183 1, 099	5,719 726 750 998 1,041 1,062 1,065 1,104 1,065 1,104 1,028 1,147 1,123	5, 774 753 733 1, 001 1, 035 1, 039 1, 105 1, 223 1, 038 1, 144 1, 166	5, 831 748 733 959 1, 048 1, 040 1, 119 1, 218 1, 025 1, 176 1, 165	6,896 742 720 1,009 1,055 1,095 1,14 1,204 1,204 1,215 1,187	5, 936 744 724 1, 019 1, 059 1, 069 1, 126 1, 122 1, 010 1, 103 1, 172	5, 049 734 747 1, 025 1, 001 1, 107 1, 169 1, 222 1, 016 1, 164 1, 188	0, 948 753 741 1, 013 1, 117 1, 108 1, 105 1, 255 1, 039 1, 213 3, 171	5, 878 748 748 1, 016 1, 130 1, 100 1, 179 1, 282 1, 034 1, 212 1, 197	5, 923 767 761 1, 040 1, 133 1, 127 1, 200 1, 202 1, 039 1, 228 1, 223	0, 894 808 794 1, 060 1, 167 1, 176 1, 203 1, 283 1, 084 1, 324 1, 326

TABLE 52 .- SALES PEOPLE (NOT TRAVELING): ALL MANUFACTURES

Arithmetic average of the 12 months.

⁷ Figures not obtainable,

GENERAL TABLES

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	Number	Average	Per cent					N	lumber en	ployed in-					
Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum.	January	February	March	April	Мау	June	July	August	Beptem- ber	October	Novem- ber	Decem- ber
All employees: 1914	3, 361 4, 112 4, 437 4, 689 5, 635 6, 689 5, 638 6, 276 6, 276 6, 380 5, 638 6, 638 6, 638 6, 638 6, 659 7, 689 5, 638 6, 276 6, 657 5, 653 5, 538	24, 874 27, 335 30, 156 32, 761 34, 605 38, 745 41, 583 43, 833 44, 671 50, 188 10, 630 12, 624 13, 006 14, 035 14, 035 14, 035 17, 171 20, 240 23, 838 14, 244 14, 771 20, 385 22, 987 23, 767 21, 176 22, 431	80. 3 78. 4 76. 5 80. 3 80. 3 80. 3 80. 3 80. 3 70. 5 83. 4 81. 8 70. 0 93. 4 80. 8 92. 1 80. 3 92. 1 80. 3 92. 1 80. 3 92. 8 92. 7 7. 9 7. 9 7. 9 7. 9 7. 9 7. 9 7. 9 7	24, 486 26, 480 28, 638 31, 775 36, 080 40, 348 38, 475 10, 658 12, 410 12, 677 13, 835 14, 405 14, 743 17, 419 16, 916 19, 531 22, 073 39, 048 14, 005 17, 040 19, 182 21, 346 22, 929 21, 559	23, 903 25, 748 27, 838 30, 508 33, 401 36, 144 39, 578 47, 351 41, 351 47, 366 10, 508 12, 271 12, 597 14, 351 14, 351 12, 271 12, 597 14, 351 14, 355 13, 477 15, 343 19, 555 21, 277 20, 347 22, 277 20, 347	24, 535 20, 077 28, 729 32, 420 34, 628 40, 609 40, 609 38, 315 42, 581 49, 348 10, 561 12, 319 12, 734 13, 992 14, 582 14, 582 14, 582 14, 582 15, 609 23, 252 18, 974 14, 338 16, 635 21, 642 20, 046 21, 632	26, 377 27, 101 30, 345 32, 871 34, 367 37, 615 38, 102 43, 443 50, 643 50, 643 12, 475 12, 959 14, 020 14, 459 14, 620 17, 586 17, 147 19, 781 23, 711 14, 680 17, 586 17, 586 17, 586 18, 551 19, 571 19, 571 19, 571 19, 573 22, 219 23, 347 21, 045	25,003 27,383 29,720 32,425 33,968 37,922 41,234 49,279 10,637 12,501 12,930 14,263 14,263 14,263 17,195 19,856 23,668 14,852 14,856 23,668 14,856 23,668 14,856 23,658 19,705 21,930 25,4300 25,4300 25,4300 25,4300 25,4300 25,43000000000000000000000000000000000000	24, 091 20, 797 29, 256 32, 066 34, 240 38, 159 41, 029 38, 159 41, 029 38, 169 41, 029 38, 169 41, 029 38, 169 40, 017 12, 584 12, 58	23, 776 26, 107 28, 815 31, 758 33, 288 37, 962 40, 919 36, 874 43, 440 43, 378 10, 465 12, 482 12, 776 13, 949 13, 949 13, 949 13, 949 13, 949 13, 349 17, 047 20, 221 23, 604 13, 311 13, 311 13, 328 16, 039 19, 339 21, 783 22, 209	23, 081 24, 603 30, 891 32, 763 36, 289, 000 40, 329 36, 223 36, 223 36, 223 36, 223 37, 699 10, 413 12, 371 12, 699 13, 832 20, 687 23, 625 12, 668 13, 225 20, 687 23, 625 12, 668 13, 225 14, 131 17, 059 19, 067 21, 631 22, 632 19, 334	24, 085 26, 973 29, 885 32, 850 34, 377 39, 228 41, 338 45, 160 49, 345 12, 619 13, 005 13, 944 13, 921 16, 545 17, 883 16, 970 20, 660 23, 944 13, 529 14, 354 16, 880 18, 906 20, 456 22, 835 19, 872 24, 500	25, 062 27, 990 31, 383 33, 467 34, 974 35, 087 45, 087 45, 087 12, 772 13, 242 14, 205 15, 900 16, 840 17, 167 16, 227 18, 121 19, 442 29, 074 23, 845 21, 224	25, 681 28, 720 32, 458 34, 129 35, 864 42, 014 43, 233 89, 169 47, 768 52, 333 10, 773 13, 019 18, 404 14, 233 14, 002 17, 208 18, 148 17, 381 21, 150 24, 479 14, 908 15, 701 18, 964 19, 804 25, 085 21, 778	28, 743 32, 667 36, 871 37, 969 39, 858 46, 406 47, 556 44, 576 54, 885 60, 421 11, 154 13, 666 17, 541 18, 117 14, 819 14, 819 14, 819 14, 819 17, 541 18, 741 18, 741 18, 741 18, 741 18, 741 18, 741 18, 741 18, 741 22, 754 25, 774 25, 774 22, 754 23, 755 24, 952 27, 565 28, 815 26, 831 24, 952 27, 565 28, 815 26, 831
1924	7, 689	26, 350	69.6	24, 763	24, 770	28,096	20, 932	25, 597	25, 278	24, 684	24, 102	25, 401	26, 069	27, 859	34, 647

TABLE 53 .--- SALES PEOPLE (NOT TRAVELING): TRADE, RETAIL AND WHOLESALE

Arithmetic average of the 12 months,

* Figures not obtainable.

104 VARIATIONS IN EMPLOYMENT TRENDS OF WOMEN AND MEN

6	Number	Averara	Per cent	er cent											
₩ Year	of estab- lishments reporting	number of em- ployees 1	employ- ment is of maxi- mum	January	February	March	April	Мау	June	July	August	Septem- ber	October	Novam- ber	Decem- ber
Ail employees: 1914	2,708 3,157 3,366 3,695 4,021 4,271 4,932 4,218 4,473 4,634 4,634 5,666	24, 550 26, 506 20, 768 32, 286 33, 999 38, 003 40, 840 37, 058 38, 842 43, 146 48, 293	50. 1 77. 8 75. 2 80. 1 81. 8 79. 5 83. 2 80. 8 73. 2 74. 8 78. 3	24, 158 25, 642 28, 208 31, 320 35, 504 39, 627 37, 240 36, 438 40, 139 45, 950	23, 603 24, 912 27, 562 30, 055 32, 799 35, 554 38, 951 36, 042 35, 507 39, 904 46, 028	24, 209 25, 843 28, 380 31, 958 36, 052 39, 871 37, 034 36, 360 41, 474 47, 518	25, 047 26, 262 28, 962 32, 406 33, 761 36, 889 40, 273 36, 900 38, 607 41, 977 48, 747	24, 672 26, 539 29, 310 31, 955 33, 361 38, 993 40, 482 36, 713 38, 287 41, 732 41, 732 47, 353	24, 376 25, 944 28, 858 31, 506 33, 601 37, 568 40, 256 36, 543 78, 721 42, 323 47, 089	22, 441 25, 251 28, 425 31, 287 32, 646 37, 297 40, 160 35, 571 37, 853 41, 862 40, 439	22, 751 24, 748 27, 437 30, 410 32, 155 37, 346 39, 555 34, 936 36, 943 41, 122 45, 800	23, 733 26, 114 29, 489 32, 386 33, 751 38, 554 40, 689 35, 548 38, 001 43, 572 47, 424	24, 735 27, 144 30, 972 33, 005 34, 379 30, 311 41, 050 37, 005 30, 729 44, 125 48, 244	25, 351 27, 868 32, 065 23, 668 35, 217 41, 307 42, 465 37, 834 41, 451 46, 200 50, 423	28, 414 31, 816 36, 481 37, 512 39, 267 44, 674 45, 798 43, 279 48, 495 53, 321 58, 506
Males: 1014	2, 708 3, 157 3, 360 3, 005 4, 021 4, 932 4, 932 4, 218 4, 473 4, 634 5, 066	10, 306 11, 780 12, 620 13, 576 13, 635 15, 525 17, 123 15, 911 16, 414 18, 750 21, 994	93. 1 89. 2 89. 0 91. 6 82. 7 92. 9 85. 9 85. 9 86. 9 88. 8	10, 216 11, 576 12, 308 13, 302 13, 830 14, 271 16, 734 15, 706 15, 670 17, 833 21, 227	10, 184 11, 439 12, 222 13, 375 13, 749 14, 422 16, 709 15, 721 15, 589 17, 891 21, 300	10, 241 11, 489 12, 353 13, 533 14, 013 14, 535 16, 910 15, 528 15, 770 18, 273 21, 465	10, 267 11, 640 12, 578 13, 558 13, 903 14, 888 16, 959 15, 891 16, 215 18, 348 21, 872	10, 312 11, 601 12, 534 13, 677 15, 143 17, 086 16, 961 16, 178 18, 369 21, 818	10, 288 11, 735 12, 448 13, 487 13, 508 15, 374 17, 141 16, 933 10, 335 18, 706 21, 862	10, 135 11, 630 12, 389 13, 483 13, 328 15, 685 17, 126 16, 323 18, 688 21, 804	10,037 11,519 12,309 13,362 13,109 15,828 16,965 16,631 16,230 18,533 21,746	10, 210 11, 765 12, 612 13, 484 13, 316 15, 980 17, 173 16, 566 19, 108 22, 073	10, 349 11, 921 12, 853 13, 566 13, 325 16, 279 17, 224 16, 873 16, 784 19, 089 22, 229	10,448 12,171 13,103 13,774 13,432 16,037 17,419 16,085 17,007 19,627 22,620	10, 830 12, 819 13, 729 13, 729 14, 364 14, 316 17, 203 16, 825 16, 825 16, 825 16, 179 20, 529 23, 914
Permites: 1914 1915 1916 1917 1918 1919 1920 1922 1923 1924	2, 708 3, 157 3, 366 3, 105 4, 021 4, 271 4, 232 4, 218 4, 473 4, 634 5, 666	14, 244 14, 726 17, 148 18, 722 20, 364 22, 568 23, 717 21, 147 22, 428 24, 366 26, 300	72.0 69.6 66.5 72.1 77.2 77.1 77.3 73.0 65.7 67.1 69.5	13, 942 14, 066 15, 960 17, 937 19, 162 21, 233 22, 893 21, 534 20, 768 22, 306 24, 723	13, 479 13, 473 15, 340 16, 680 19, 030 21, 132 22, 242 20, 321 19, 918 22, 013 24, 728	13, 968 14, 364 16, 032 18, 425 20, 025 21, 547 22, 965 21, 200 20, 580 23, 201 26, 053	14, 680 14, 622 17, 384 13, 847 19, 868 22, 101 23, 314 21, 018 22, 482 23, 629 26, 875	14, 380 14, 878 16, 709 18, 421 19, 684 21, 850 23, 366 20, 752 22, 109 23, 333 25, 540	14,008 14,209 16,410 18,105 20,003 22,134 23,115 20,610 22,385 23,017 25,227	13, 306 13, 621 16, 036 17, 804 19, 318 21, 612 23, 034 19, 745 21, 260 23, 174 24, 636	12, 604 13, 237 15, 128 17, 054 19, 646 21, 517 22, 580 19, 305 20, 547 22, 589 24, 054	13, 523 14, 340 16, 877 18, 902 20, 435 22, 574 23, 416 19, 844 21, 435 24, 464 25, 351	14, 386 15, 223 18, 119 19, 430 21, 054 23, 032 23, 828 21, 192 22, 945 25, 036 26, 015	14, 903 15, 697 18, 962 19, 894 21, 785 24, 670 25, 047 21, 749 24, 384 26, 573 27, 803	17, 584 18, 997 22, 752 23, 148 24, 971 28, 776 26, 434 30, 310 32, 792 34, 592

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TABLE 54 .--- SALES PEOPLE (NOT TRAVELING): TRADE--- STORES, RETAIL AND WHOLESALE

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¹ Arithmetic average of the 12 months,

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GENERAL TABLES

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APPENDIXES

APPENDIX A. SCHEDULE FORM, DIVISION OF LABOR STA-TISTICS, OHIO

APPENDIX B. STATE CLASSIFICATION OF WAGE EARNERS IN 1923

APPENDIX C. VABIATIONS IN MEN'S AND WOMEN'S EM-PLOYMENT IN IRON AND STEEL AND TEX-TILE MANUFACTURING

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APPENDIX A.—SCHEDULE FORM, DIVISION OF LABOR STATISTICS. OHIO

[FRONT OF SCHEDULE]

Return promptly. Retain duplicate. See instructions on reverse side.

STATE OF OHIO DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF LABOR STATISTICS.

REPORT FOR YEAR ENDING DECEMBER 31, 1924

Norzs: A. If engaged in more than one industry, use a separate sheet for each. Re-

- port on Ohio operations only. B. If operating in more than one county, separate reports must be made for each county

- c. Send for additional copies of this form if you need them.
 D. When it is impossible to give an exact answer to an inquiry, enter the best possible estimate and add to the answer "E."
 E. Your report is not acceptable to this department until each of the following 12 questions has been answered.

1. Name of firm and establishment ------

(Answer for both when names differ)

1____

1

Give name and address of present owner..... 6. Number of days in operation during year 1924... 7. Number of hours normally worked-

.

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-		Office	Othe	belp	Number employed	(includ time pie wor)	e both and oce ters)	Bookk stend phers office	eepers, sgra- , and clerks	Sales peopl (not travel ing)	
- e. b.	Per day or shift		Male	Female	on the 15th of	Males	Fe- males	Males	Fe- males	Makes	Fe- maiss
8.	Give total wage and only during year 1 premiums and val furnished (do not i a. To wage earners. b. To bookkeepen and office clark c. To salespeople (n d. To superintende: Total of above	salary pay 1924, includ use of boar nclude sala s, stenogr s, stenogr s, stenogr s, s, stenogr s, s, stenogr s, s, stenogr s, s, stenogr s, s, stenogr s, s, stenogr s, s, stenogr s, s, stenogr s, s, s, stenogr s, s, s, s, s, s, s, s, s, s, s, s, s,	Finents i ling bon d and la ries of c aphers, ig) nagers.	in dollars uses and origing, if ficials): \$	Jan Feb Mar Apr May June July						

10. Classified weekly rates of wages and salaries for week of greatest employment during year.

10. Classified weekly rates of wages and sularies for week of greatest employment during year. IMPORTANY.—Please note that it is weekly rate of wage rather than actual weekly wage which is asked for under this question. See instructions for question 10 on the back of this form. If your pay roll shows rates for 2 weeks or for 1 month, divide rates for 2 weeks by 2 and the rates for a calendar month by 4%. Include both time workers and piece workers. In reporting rates of piece workers use a normal week's earnings as a basis. Bonuses and premiums, if any, should be prorated and included with rates of wages or salaries. If board or lodging is furnished in addition to wages or salaries, estimate the value and include in reporting rates of wages or salaries. In reporting for retail stores do not report for week of special sales or week during holiday period.

In correspondence, please re-fer to this file number.

APPENDIX A .--- SCHEDULE FORM

		Wei cli sr	re est ude l ud piec	rner s xoth xs wor	(in- time kers)	Boo no of	kkeep grapi lice ci	ers, Iers, I Erks	ste- and	රික්	es pec trave	eople (not veling)	
Charified rates	of many por mark for	M	ales	Fen	12166	M	ales	Fen	uales	M	ulos	Fen	ales
the we	ek ending	Adults (18 years of age or over)	Young persons (under 18 years of ago)	Aduits (18 years of age or over)	Young persons (under 18 years of age)	Adults (18 years of age or over)	Young persons (under 18 years of age)	Adults (18 years of age or over)	Young persons (under 18 years of age)	Adults (18 years of age of over)	Young persons (110der 18 years of age)	Adults (18 years of age or over)	Young persons (under 18 years of age)
Under \$5. \$5 but under \$10 \$10 but under \$11 \$15 but under \$1 \$15 but under \$2 \$20 but under \$2 \$25 but under \$3 \$30 but under \$3 \$35 but under \$4 \$40 but under \$5 \$60 or over	2 5												
11. IMPORTANT should be i Give name Name	-If manufacturing, giv in dollars for all produci and value of different i Value Ni	e tota ts f. o article article	al val b. fa 19 mai	ue of ctory, pulaci V	produ lêss s ured. alue	icts n elling	anuf expe Ni	acture 138 \$. MD6	d in	1924. Vi . \$	Valu alue	lê rêp	orted
(Do not use this space.)	This is to certify that to the best of my k £	the a nowle Signed .By	nswer dge al	s to ti nd be	he jaq lief. (uiries Name	on th	nis she	et are (Of	com; ficial	xlete d	and o	orrect

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[FRONT OF SCHEDULE-continued]

[BACK OF SCHEDULE]

GENERAL EXPLANATIONS AND INSTRUCTIONS FOR ANNUAL INDUSTRIAL REPORT OF ALL OPERATIONS IN OHIO DURING 1924

For authorization and penalties see section 885 of the General Code, section 4 of the act defining the powers, duties, and jurisdiction of the State Liability Board of Awards, and section 22, paragraph 10, and sections 24 and 43 of the act creating the Industrial Commission of Ohio.

Questions 1 to 7.—These questions are self-explanatory.

Question 8.-The total wage and salary payments during the year should be given separately for each of the four classes of employees indicated under Sa. Sb, Sc, and Sd. Do not include officials of the company. Question 8a. — Wage earners: Include mechanics of all kinds, factory em-

ployees, shop foremen, laborers, laundry employees, cleaners and caretakers in buildings, employees of alteration departments and of delivery departments in stores, cash girls, check boys, farm hands, etc. Question 8b.—Bookkeepers, stenographers, and office clerks: Include book-

keepers, typists, stenographers, copyists, timekeepers, draftsmen, filing clerks, sales office employees, cashiers, etc.

Question 8c.—Sales people (not traveling): Include the selling force in stores and other establishments. Do not include traveling sales people. Office clerks handling sales should be included under 8b rather than under this heading.

Question 8d.-Superintendents and managers: Include all superintendents and managers but not shop foremen. Shop foremen should be included under 8a.

Question 9.—The information desired is the number of persons, under each of the classifications given, in your employ on or near the 15th of each month, as shown by the pay-roll records. Employees should be grouped under the same classifications as in Sa, Sb, and Sc. Superintendents and managers should not be reported under question 9.

Question 10.-Under this question we wish you to select the week of greatest employment, except as noted in regard to retail establishments, and enter your people in the proper column opposite the weekly wage which they would have received had they been in your employ full time during the entire week selected.

The usual timekeeper's rate book, in which is shown the amount earned per week at each rate per hour and each number of hours per week, will be of great assistance in bringing hourly rates to a weekly basis.

Enter sales people who work on a strictly commission basis opposite their average weekly rate of wage for the year.

Employees should be grouped under the same classifications as in 8a, 8b, and 8c. Superintendents and managers should not be reported under question 10.

Question 11.—This question is self-explanatory. Fill this form as indicated above and return it as promptly as possibly to the division of labor statistics in the inclosed self-addressed envelope.

Form 1124.

THE DEPARTMENT OF INDUSTRIAL RELATIONS.

APPENDIX B.--STATE CLASSIFICATION OF WAGE EARNERS IN 19231

GENERAL GROUPS

Agriculture. Construction. Fisheries. Manufactures: Chemicals and allied products. Food and kindred products. Iron and steel and their products. Leather and leather products. Liquors and beverages. Lumber and its products. Metals and metal products other than iron and steel. Paper and printing. Rubber products. Stone, clay, and glass products. Textiles. Tobacco manufactures. Vehicles. Miscellaneous manufactures. Service. Trade, retail and wholesale. Transportation and public utilities.

DETAILS OF CLASSIFICATION

AGRICULTURE

Dairy farming.

Florists, fruit growers and nurserymen; seedmen; hothouses.

General farming.

Operating farm machinery, not by farmers; threshing; ensilage cutting; corn shredding; hay baling.

Agriculture not otherwise classified.

CONSTRUCTION

Brick, stone and cement work; mantle setting.

Electrical contracting.

Erecting or installing machinery.

General contracting, includes wrecking.

Oil, gas, and water; drilling or producing.

Painting and decorating.

Plastering, includes lathing.

Plumbing and steam fitting.

Sand and gravel excavating.

Sheet-metal work and roofing.

Street, road, and sewer contracting; water mains; grading, excavating, and teaming.

Ventilating and heating.

Construction not otherwise classified.

FISHERIES (no subheads)

MANUFACTURES

Chemicals and allied products:

Baking powder and yeast. Blacking, cleaning, and polishing preparations. Bluing. Bone, carbon, and lamp black.

¹ This list includes many items for which no figures appear in the 1923 report.

Chemicals and allied products-Continued. Chemicals, acids, and wood distillation; sulphuric, nitric and mixed acids. not including turpentine and rosin charcoal. Dyestuffe and extracts. Explosives. Fertilizers, tankage. Ink, printing and writing. Oil, linseed, lubricating, and cottonseed, and oil cake. Paint and varnish. Patent medicines and drug compounds, includes drug grinding. Petroleum refining. Salt. Soap, candles, grease and tallow. Chemicals and allied products not otherwise classified. Food and kindred products: Bakery products. Canning and preserving. Coffee, spices, and peanuts, roasting and grinding. Confectionery. Cordials, sirups, and flavoring extracts. Dairy products and ice cream. Flour-Inill and grist-mill products; grain elevators and small businesses connected with them. Food preparations; breakfast foods; stock foods; macaroni; ice cream cones. Glucose and starch. Oleomargarine. Slaughtering and meat packing. Sugar. Vinegar and cider. Food and kindred products not otherwise classified. Iron and steel and their products: Blast-furnace products. Boilers and tanks. Bolts, nuts, washers, and rivets. Burial vaults, steel. Calculating machines, includes cash registers; time clocks and locks; gas and water meters. Cutlery and tools. Doors and shutters, iron and steel. Files. Forgings. Foundry and machine-shop products; bells; plumbers' supplies; steam fittings; hardware; structural-steel fabrications. Gas engines and tractors. Horseshoes not made in steel works or rolling mills. Locomotives not made by railroad companies. Nails and spikes, cut, wrought, and wire. Pipe, wrought. Pumps and windmills. Safes and vaults. Saws. Scales and balances. Screws, machine and wood. Sewing machines, cases and attachments. Springs, coil. Springs, steel car and carriage. Steel works and rolling mills. Stoves and furnaces. Tin plate and terneplate. Typewriters and parts. Wire. Wirework, wire rope, and cable. Iron and steel and their products not otherwise classified. Leather and leather products: Belting, leather. Boots, shoes, cut stock and findings. Gloves and mittens, leather.

Leather and leather products-Continued. Leather, tanned, curried, and finished. Saddlery and harness. Trunks and valises. Leather and leather products not otherwise classified. Liquors and beverages: Liquors, mait. Liquors, vinous. Malt. Mineral waters and beverages. Liquors and beverages not otherwise classified. Lumber and its products: Baskets, wood, rattan, and willow. Billiard tables and materials. Boxes, cigar. Boxes and packing crates. Coffins and undertakers' goods. Cooperage and related goods. Furniture. Furniture, wicker and reed. SERVANTS OF INDIA SOCIETY'S Lasts. BRANCH LIBTARY Looking-glass and picture frames. Matches. BOMBAY Wood pulp. Saw-mill and planing-mill products. Show cases Wood bending, turning, carving. Wood preserving. Lumber and its products not otherwise classified. Metals and metal products other than iron and steel: Babbitt metal and solder. Brass, bronze, and aluminum products. Clocks, watches, and materials. Copper, tin, and sheet-iron products, includes stamped and enameled ware. Electro plating. Galvanizing. Furniture (metal) and office fixtures. Gas and electric fixtures and lamps and reflectors. Gold and silver, leaf and foil. Jewelry, includes reducing and refining. Lead, bar, pipe, and sheet. Needles, pins, hooks and eyes. Silverware and plated ware. Smelting and refining, aluminum, brass, and copper. Smelting and refining not from the ore. Metals and metal products other than iron and steel not otherwise classified. Paper and printing: Bags, paper. Boxes, fancy and paper; drinking cups. Card cutting and designing. Engraving and die sinking. Envelopes Labels and tags. Paper, includes stationery. Photo-engraving. Printing and publishing. Stereotyping and electrotyping. Type founding and printing materials. Wall paper. Paper and printing not otherwise classified. Rubber products: Druggists' sundries and toys, rubber. Tires and tubes. Rubber garments. Rubber products not otherwise classified.

Stone, clay, and glass products: Brick and tile. clay. Cement. Concrete products. Crucibles. Burial vaults, concrete. Emery wheels and other abrasives, includes sand and emery cloth. Glass. Glass cutting and ornamenting. Lime. Marble and stone work; stone yards. Mirrora. Pottery, terra-cotta, and fire-clay products. Statuary and art goods. Stone and clay, crushing and grinding. Wall plaster, includes hydrated lime. Stone, clay, and glass products not otherwise classified. Textiles: Awnings, tents, and sails, includes auto fabrics. Bags other than paper. Buttonholes. Carpets and rugs. Clothing, men's, includes shirts and coat pads. Clothing, women's, includes corsets. Cordage, twine, jute and linen goods. Cotton goods and small wares. Custom tailoring, men's and women's. Dyeing and finishing textiles, includes sponging. Flags, banners, and regalia. Furnishing goods, men's. Gloves, cloth. Hats and caps other than felt, straw, or wool. Horse clothing. Hosiery and knit goods. Mattresses, pillows, and cotton felts. Millinery and lace goods, includes artificial flowers and feathers. Oilcloth and linoleum. Shoddy. Silk and silk goods, includes throwsters. Upholstering materials. Waste. Wool pulling, includes scouring. Woolen, worsted, and wool-felt goods, includes fur and felt hats. Textiles not otherwise classified. Tobacco manufactures: Chewing and smoking tobacco and snuff. Cigars and cigarettes. Tobacco rehandlers. Vehicles: Airplanes and parts. Automobiles and parts. Bicycles, motor cycles, and parts. Carriages and sleds, children's. Carriages, wagons and materials, includes repairing. Cars, steam and street railroad, not including operations of railroad companies. Ship and boat building. Wheelbarrows. Vehicles not otherwise classified. Miscellaneous manufactures: Agricultural implements. Artists' materials. Belting and hose, woven and rubber. Brooms and mops. Brushes. Buttons. Coke,

Miscellaneous manufactures-Continued. Dairymen's, poulterers', and apiarists' supplies. Dentists' supplies. Electrical machinery, apparatus, and supplies. Enameling and japanning. Engravers' materials. Fancy articles. Fire extinguishers, chemical. Fire arms and ammunition. Fireworks. Foundry supplies. Fuel, manufactured. Fur goods. Hair work. Hand stamps, stencils, and brands. House-furnishing goods, miscellaneous. Ice, manufactured. Instruments, professional and scientific. Jewelry and instrument cases. Lapidary work. Models and patterns other than paper. Mucilage and paste. Munitions. Musical instruments and materials other than pianos and organs. **Optical** goods. Paving materials. Pens, fountain, stylographic, and gold. Photographic apparatus and materials. Pianos, organs, and materials. Roofing materials. Signs and advertising novelties. Soda-water apparatus. Sporting and athletic goods. Steam packing. Surgical appliances and artificial limbs. Toys and games. Umbrellas and canes. Washing machines and clothes wringers. Window shades and fixtures. Miscellaneous manufactures not otherwise classified.

SERVICE

Advertising. Banks. Barbers and hair dressers. Bowling alleys and parks. Garages. Hospitals. Hotels. Laundries and dry cleaners. Office buildings, includes window cleaning. Photographers. Professional. Restaurants. Saloons. Schools and colleges. Shoe repair. Social agencies. Theaters. Undertakers. Service not otherwise classified, includes horseshoeing, cemetery care, etc.

TRADE, BETAIL AND WHOLESALE

Offices. Retail delivery, milk, ice, and water. Stores, retail and wholesale. Yards, lumber, coal, and sorap. Trade not otherwise classified.

TRANSPORTATION AND PUBLIC UTILITIES

Drayage and storage, includes livery stables and teaming. Electric light and power. Electric railroads. Gas, illuminating and heating. Natural gas. Pipe lines (petroleum). Steam railroads (intrastate). Stockyards. Taxicab service. Telegraph and telephone, includes messenger service. Transportation by water, includes stevedoring. Waterworks. Transportation and public utilities not otherwise classified.

APPENDIX C.--VARIATIONS IN MEN'S AND WOMEN'S EMPLOYMENT IN IRON AND STEEL AND TEXTILE MANUFACTURING

The report in earlier pages of this volume has shown in a general way some of the outstanding variations in trends of men's and women's employment and has illustrated the influence of different factors in causing these variations. With so great a mass of material as that involved in the monthly employment figures by sex for a period of 11 years in 54 classifications,¹ obviously it is impracticable to give a detailed analysis of each set of figures and curves. Nevertheless, in many instances such analysis will yield most significant information regarding the many economic factors that influence employment trends. To illustrate the importance of detailed information about the industry in any attempt to interpret the real meaning of the trends of employment indicated in the curves and figures, there is presented in the pages following an analysis of the figures for two industrial classifications—the manufacture of iron and steel and their products and the manufacture of textiles.

These two classifications represent two very different situations, as far as women's employment is concerned. In iron and steel manufacturing women form a very small percentage of the wage earners, but their proportionate importance has tended to increase during the 11-year period under discussion, and changes and developments in industrial practices of recent years indicate that women may become a more essential part of the working force in the industries that form a part of or are allied with this leading industrial classification in Ohio.

In the manufacture of textiles women form by far the greater part of the working force. Their proportionate importance in the industry as a whole changed practically not at all during the 11-year period 1914 to 1924. In fact, textile manufacturing has been for many years one of the chief strongholds of wage-earning women, and the comparative variations in employment for men and women in this classification should afford examples of the influence of factors very different from those applying in iron and steel manufacturing, where women's employment is comparatively new and unimportant.

THE MANUFACTURE OF IRON AND STEEL AND THEIR PRODUCTS.

The manufacturing group that is of the greatest importance in the State of Ohio is the iron and steel industry. In fact, the production of iron and steel and the manufacture of their products is one of the basic industries in the United States. With it are clearly interrelated other great industries, from which it buys materials, as fuel, certain minerals, transportation services, etc., or to which it sells its products. There is no manufacturing industry that does not consume iron or steel or their products in one form or another and in varied quantities.

The conditions and fluctuations in other industries, therefore, are quickly reflected in the iron and steel industry, while the latter, in turn, influences other industries to a very marked degree. Therein lies the reason why the iron and steel industry is counted as belonging to the "basic group" of the Nation's industries and why it is considered as being a "barometer of trade." The trend of employment in this industry should, therefore, be of more than local significance. In fact, figures showing the employment of men and women in this basic industry are indicative of trade and industrial activity throughout a very broad field.

Especially is this true in Ohio, for this State contributes a large part of the total iron and steel output of the country.

Within the State itself the industry assumes an even more important position, so that employment figures may become of even greater significance when they are considered from the viewpoint of the State.

In the first place, the industries classified by the Ohio Division of Labor Statistics cover a wide range of industrial activity, from the basic process in the

¹ For four of the classifications figures from 1916 to 1918 were not available.

making of pig iron to the production of finished articles for consumption use. The list of specific industries so included in 1923 is as follows:

Blast-furnace products.	Pipe, wrought.
Boilers and tanks.	Pumps and windmills.
Bolts, nuts, washers, and rivets.	Safes and vaults.
Burial vaults, steel.	Saws.
Calculating machines (including cash	Scales and balances.
registers, time clocks and locks, and	Screws, machine and wood.
gas and water meters).	Sewing machines, cases and attach-
Cutlery and tools.	ments.
Doors and shutters, iron and seel.	Springs, coil.
Files.	Springs, steel car and carriage.
Forgings.	Steel works and rolling mills.
Foundry and machine-shop products.	Stoves and furnaces.
Gas engines and tractors.	Tin plate and terneplate.
Horseshoes, not made in steel works	Typewriters and parts.
and rolling mills.	Wire.
Locomotives, not made by reilroad	Wire work, wire rope, and cable.
companies	Iron and steel and their products, not
Nails and mikes, cut, wrought, and	otherwise classified.
wite.	

In view of the scope of this list it is not surprising that more than one-fourth of all the wage earners in the industries of the State are engaged in the production of iron and steel and their products.² For this reason the figures showing trend of employment for the industry as a whole will repay careful analysis as an index of conditions throughout the State. As an example of variations between the trends of employment for men and for women the figures for iron and steel are less important in view of the very small proportion of women employed. Nevertheless, the figures and curves for this industry make possible an illustration of the significance of total figures when one of the component groups is very much in the minority. They provide also an opportunity to study the comparative effects on the two series of the war, the 1920-21 depression, and the steel strike of 1919, in an industry that was, of all the industries in the State, probably the most seriously affected by each of these events.

From the standpoint of women's employment it will be necessary also to consider certain branches of this industrial classification, as in the majority of individual industries included women form so unimportant an element in the labor force.

Of the various branches of the iron and steel industry, foundries and machine shops and steel works and rolling mills employ the largest numbers of workers. Together they employed over two-thirds of the men in the iron and steel group of the State in 1923. Women, however, are but a small proportion of the total working force in this group of industries, being only 3 per cent of the average number of wage earners in 1923. More women were employed in foundries and machine shops than in any other branch of the industry, but here, too, only a small proportion of the total working force of those plants was made up of women. The next largest group of women was that engaged in the manufacture of bolts, nuts, washers, and rivets, and here they formed approximately onesixth of the wage earners. Although the number of women employed in the manufacture of screws was smaller than in any of these other groups, they formed a much larger proportion of the working force in this branch of the industry than in the others, one-third of the total in 1923. Therefore, the industry last mentioned—the manufacture of bolts, nuts, washers, and rivets and the manufacture of screws—have been selected for supplementary analysis.

Seasonal fluctuations.

The figures on employment for the years 1914 to 1924 indicate no normal seasonal movement of employment of any significance for either sex. In this respect, therefore, the curve for the total is representative of conditions for each sex.

Nor does the lack of seasonality in the iron and steel group seem to arise from a balancing of the slack and dull seasons of the individual industries of which it is composed. For none of these industries do the figures for either sex indicate any fluctuations that tend to reappear each year.

^{*} U. S. Bureau of the Census. Biennial Census of Manufactures: 1923, pp. 1343-1352,

There were years in which there were wide differences between minimum and maximum employment of both men and women, but such differences were due ordinarily to conditions peculiar to the year rather than to recurring seasonal factors. Changes from periods of great depression to periods of prosperity, or the reverse movement, had more effect on employment of both men and women than had seasonal demand.

Secular trend in iron and steel industry in Ohio.

The upward secular or long-time trend in the growth of the iron and steel industry in Ohio from 1914 to 1924 had more bearing upon the trend of employment than had any small seasonal fluctuations.

During the severest depression in 1921 employment fell by 600 persons below the lowest level in 1914. The average for the year 1924 shows a growth of employment over the year 1914 of 64,000 persons. On the whole, discounting the big fluctuations due to the war, depressions, and strikes, there has been a steady secular trend upward, and this upward movement has been more marked for women than for men.

Another factor that would materially affect the employment figures for the period under consideration is that labor-saving devices and improved machinery were being introduced in great volume into iron and steel mills and metal-working establishments. Each year brought its own special inducements for plants to save on human labor. The war years made workers scarce and birt working establishments are determined by the fortune of the start of the start of the save of the start of high-priced and at the same time called upon the factories to produce an additional amount of work. The years of depression, 1914, 1921, and 1924, reduced or eliminated profits and forced plants to center attention on means to reduce labor costs.

So the effort to replace labor by machinery and by more intelligent planning was never ending. And the results were successful. Fewer and fewer men became necessary to produce the same or even an increased quantity of finished material. An illustration of a plant in which the labor force was cut practically in half is as follows:

In 1916 a Cleveland factory making automobile springs employed 1,800 men, working in three shifts of 8 hours; they fabricated 2,500 tons of steel a month. In 1917, by improvement of the internal transportation system, the addition of more efficient methods of production, the introduction of labor-saving devices, and the more intelligent application of the energy expended, the factory was able to fabricate about the same amount of steel, 2,500 tons a month, with a force of only 950 men, still working in three shifts of 8 hours.³

Wire mills were enabled, by the introduction of improved material-handling machinery, to increase the size of the wire bundles handled from the 50-to-75pound bundles in the early days to 200-pound bundles and, in 1923 or 1924, to 300-pound bundles. A mill that substituted 300-pound bundles for 150-pound bundles could discharge 25 per cent of its employees, and at the same time increase the capacity of the mill.4

In view of this constant and successful movement to replace labor by mechanical means, it is evident that the number of workers in the industry in Ohio did not rise so high toward the end of the period 1914-1924 as it would have done without the labor-saving installations and inventions. Although it is difficult to estimate the actual extent of the influence of such changes in manu-facturing methods they are important factors for consideration in connection with any figures showing trend of employment. It is especially important to take into account these changes when examining the greater increase among women during the 11-year period. With so few women employed in the industry changes leading to greater efficiency in production probably would apply to the greatest extent among men's occupations, thereby giving women's employment a position of apparently greater importance.

General factors affecting trends of employment.

For both men and women wage earners in the iron and steel industry in Ohio the curves of employment based on the average of 1914 as 100 rose and fell from 1914 to 1924 in response to the general expansions and contractions of trade. This was the great influence shaping the course of employment in the industry. Strikes were a secondary cause; their influence was responsible for

Daily News Record. June 4, 1917. p. 5. Fairchild publications, New York.
 Bennington, E. T. Standardization of Product Aids Handling. In The Iron Age, Jan. 29, 1925, pp. 344, 345. Iron Age Publishing Co., New York.

the sharp and sudden descent of the curve of employment for men late in 1919 and for many of the slight fluctuations in other years.

In general it is clear that the industry has a tendency to make rapid changes in the employment of both sexes. Even so, however, the declines in the employment curves due to business depression or inactivity do not show the full extent of the decline in production, for "In slack times in the iron and steel industry a larger number of men are carried on the pay roll than are required for mere production. * * * As the industry picks up, more full-time operation develops, and the output per man-hour does not rise so greatly as does the output per man."⁵

The period 1914-1924 opened with a year of marked depression. The curve of employment consequently was very low and descended in November to a point approached only once thereafter, and that in July of 1921, a time of most acute depression.

Throughout 1915 and 1916, urged upward by the tremendous growth and expansion of the industry that began shortly after the outbreak of the World War, largely due to the great volume of war orders placed with the iron and steel trade in Ohio, the curve of total employment rose in an almost unbroken line, arriving at a position about 70 points above the 1914 average. Until the close of 1916 the trend of men's and women's employment was very similar and is accurately represented by the total curve. For the next two years, however, the trend of women's employment showed great fluctuations and marked deviation both from the total curve and from that of the men.

With the exception of these two war years, 1917 and 1918, when women workers were being introduced into iron and steel plants in great numbers, and of the latter part of 1919, when the steel-strike influence was active, the employment curve of women paralleled that of men with great exactness. Differences were outweighed by similarities. It might be observed, however, that the employment of women was more sensitive than that of men, increasing in greater proportion during periods of advancing activity and decreasing with greater proportionate rapidity when the specter of depression appeared. This occurred during the periods of rising employment in the early part of 1920, in 1922-23, and in the first months of 1924; and in the periods of declining employment found after the armistice, in 1920-21, and in the middle months of 1924.

Certain of the factors that apparently have influenced a deviation in trend between women's employment and that of men are of interest in estimating the validity of the total curve as an indication of trends for both sexes. For example, in 1917 the employment curve for men showed throughout the year a slight increase and no very great fluctuation. On the other hand, the employment of women declined during the year from a high point in January and was very erratic. January showed an increase of 43.8 per cent over the preceding December, and it was the high point in 1917. The number of women on the pay roll was 7,227, or 2.8 per cent of the total, for January. Their numbers declined sharply until the low point for the year was recorded in May at 4,871, or 32.6 per cent below January.

The employment of women increased somewhat in June but dropped again slightly in July, so that from May through July it was far below the high points of employment in the spring and fall. Large increases were made in September and October, and employment in the latter month was only 9.9 per cent below January. In November and December considerable declines again were recorded, and the year ended with the number of women at 5,462, or 24.4 per cent below January.

The declaration of war by the United States in 1917 affected industries in two direct ways: First, after some weeks it greatly increased war orders, and second, it made an inordinate demand upon the man power of the country for both military and industrial purposes. The orders for war supplies continued to come from the Allies abroad and now came from the home Government in a continuous and ever-increasing stream. Accordingly, the manufacturers of war implements and other war supplies constantly had to enlarge production facilities. The producers of iron and steel and the manufacturers of their products in the State of Ohio got their due share of the orders.

As a result, the iron and steel mills and the plants manufacturing their products were busy as never before. Employment increased, as seen in the employment figures. The production of iron and steel, as a basic industry, was essential

Haney, Lewis H. Labor: Employment-Earnings-Efficiency. In The Iron Age, Jan. 29, 1925, p. 357. Iron Age Publishing Co., New York.

for the carrying on of the war, and therefore the men employed in this industry were exempt from conscription, which meant that the men already employed held to their jobs and new men were taken on. This explains why the employment of men increased during the year while the number and the proportion of women tended to decrease in the total group of iron and steel. Not only that, but it throws light on the fluctuations in the employment of women. Men were pressing for employment, while women could easily find more suitable work in the industries not exempt from conscription and therefore more in need of workers.

But the entrance of the United States into the war in April was not followed immediately by a stream of contracts for iron and steel products. On the contrary, there was a period of comparative quiet for two months or so-domestic buyers and foreign governments hesitated, standing aside until the United States Government should make known its wants. This uncertainty was a dominant factor in the market as late as the end of May. On June 7 it was reported in The Iron Age, from the Cleveland district, that iron and steel mills were taking on as little additional tonnage as possible, holding themselves in readiness for the Government's call upon them. Additional Government orders had been placed, but only for small lots. The Iron Age of June 14 stated that metal-working plants as a class had felt for some weeks that Washington was too slow to take advantage of the manufacturing facilities of the country. At this same time the machine-tool industry of the Cleveland district was said to be still marking time pending Government orders. By the end of June Government buying of iron and steel was steadily increasing.⁶

Production in the industry was hampered from beginning to end of the year by an insufficient fuel supply and insufficient railroad service. The lack of coke caused the pig-iron output of 1917 to fall behind that of 1916—blast furnaces were banked for days at a time waiting for coke. And steel works fell short of normal output at times because there was no coal for gas producers.⁷ All these influences played a definite part in the fluctuation in the employment curve for both men and women in this and other industries.

It is in 1918 that the greatest difference in the trends for the two sexes occurs in fact, the employment curves show an enormous increase for the women but only a small one for the men. Nineteen-eighteen was almost entirely a war year. Orders for war supplies were more pressing than ever before. This explains the increasing employment in the manufacture of iron and steel and their products. At the same time the heavy drafts of men for military service overseas, approximately 2,600,000 men during the year, began to weigh even upon the industries exempt from conscription, and among these the iron and steel industry was constantly expanding, which meant that there was a constant need for new hands. As men became scarce, women had to be taken on. This in part explains the proportionate gain of women's employment over that of men during the year, which was, in that sense, a women's year in the iron and steel industry. The number of establishments reporting in 1918 was 1,635, an increase of only 52 over the previous year. Men's employment fluctuated even less during 1918 than during the preceding year, the minimum figure being 96.3 per cent of that for the peak. Although women did not replace men they formed an additional labor force to meet the pressure for increased production. Their employment advanced rapidly until November, when 88 per cent more women

The almost perpendicular rise in the employment of women was unbroken through November, in which month more than 10,000 women were employed in the manufacture of iron and steel products in Ohio, the largest number at any time during the period 1914-1924. The bulk of this increase came in foundries and machine shops and in factories normally engaged in the manufacture of calculating machines but at that time devoting a large part of their capacity to the manufacture of war materials. The gains were most conspicuous in the latter industry, with an increase of over 30 per cent in each of three successive months in the spring of 1918. Although the peak of women's employment in these factories was reached in July, the number employed throughout the rest of the year remained far in advance of employment at its opening. In the foundries and machine shops women's employment, although advancing more slowly, continued to increase steadily through November, and it was not until after the armistice that it showed any slump. The number of men employed in the iron and steel

⁴ The Iron Age, June 7, 1917, p. 1421; June 14, pp. 1446, 1475; and June 28, p. 1575. Iron Age Publishing Co., New York. ⁷ Ibid., Jan. 3, 1918, p. 65.

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group in December was slightly in advance of what it had been at the beginning of the year, in spite of the fact that by that month their employment had begun to fall off.

After 1918 the trends for men and women were very similar, with the exception of the temporary decrease for the men resulting from the steel strike in 1919. This strike, which caused a great break in the employment figures, lasted about three months, beginning September 22 and ending officially early in January.

The Ohio employment figures for September were not affected by the strike, since the call was issued for the 22d of the month. By October 15, total employment showed a drop of 44,464 (of whom 44,386 were men and 78 were women), although on October 9 the union estimated that the number of men out in the Ohio districts was 107,000.³ By the time the November reports were compiled, more than 25,000 men had returned to work. By December the numbers of both men and women employed were in excess of the numbers employed in September before the calling of the strike. It is evident that the employment of women was affected very little by the strike.

The effect of the 1920-21 depression was similar for women and men. Late in September, 1920, the iron and steel industry in Ohio, as elsewhere, came to the turn of the year and felt the beginning of the business recession that was to continue into the following year. Iron and steel remained active longer than did some of the other industries. Declines in silk, cotton, rubber, and wool, that started early in the year, caused a disturbance in mercantile lines in May. The automobile slump started in June. There was a sharp decline in building contracts in the first half of 1920. These and other branches of industry began their declines because of the final revolt of buyers against high prices, and the consequent very effective, though unorganized, general strike of buyers.

There was a feeling in the steel industry, in the summer and early fall, when other lines were slowing up, that for once steel was not a barometer of general trade, for signs of reaction were not noticed in steel until September. Employment in the industry in Obio was higher at the middle of September than in August, and almost as high as in March.

Many in the trade thought that the industry would run at a good rate practically until the end of the year. "October gave a blow to all such hopes. It was proved again that the industries of the country are bound together in a way that makes prosperity in one impossible alongside of depression in another. The steel industry's readjustment might lag a little behind that of others, but it was inevitable."⁹

Women's employment in iron and steel industries began to decline in August, 1920, and their number continued to fall off with each month throughout the rest of the year. Although men's employment was less in August than in July, it increased again in September and it was not until October that the depression showed itself. However, although activity began to fall off in October, employ-ment of men in October was only 3.7 per cent below the September figure and in some of the 25 branches under which the industry is classified in 1920 there was an increase rather than a decrease. Most of the men who were out in October had been in foundries and machine shops. Steel works and rolling mills practically held their own, while tinplate and terneplate mills actually were taking men on. The per cent of loss was highest in the factories making gas engines and tractors. By November men were being laid off much more rapidly. About 7,000 men were let out of foundries and machine shops alone, and steel works and rolling mills also began to feel the real force of the depression, letting almost 5,000 men go in one month. Tin mills practically held their own. December saw a decrease approximately half again as great as that in November. Over 10,000 men were laid off in steel works and rolling mills alone and 10,000 more were let out of foundries and machine shops. Tinplate and terneplate mills, which had maintained their forces well up to this time, turned off almost 2,500 workers, or more than two-fifths of their labor force of November. Blast-furnace workers dropped in number more than during any previous month. By the close of the year employment in the iron and steel industries had been hard hit, although activity had been maintained longer in these industries than in most others. In the opinion of the leading trade journals, the steel strike of 1919 served to keep activity high in the early part of the year because of the resulting scarcity of steel. Eventually slackening of work in other industries caused a reaction in the steel industry.¹⁰

U. 8. Bureau of Labor Statistics. Monthly Labor Review. December, 1916, p. 84.
 The Iron Age, Jan. 6, 1921, p. 2. Iron Age Publishing Co., New York.
 Pibid., p. 1.

Not only did women's employment begin to fall off earlier in 1920 than did men's, but up to the end of the year their decline had been more rapid than was the case with the men. In May women formed 3.2 per cent of the total number of wage earners in the iron and steel industry, but by the end of the year only 2.7 per cent of those employed were women.

On the whole, however, the depression of 1920-21 hit men and women in the iron and steel industry with approximately equal force. Men's employment showed a decrease of 54.8 per cent between the month of highest employment in 1920 and the time of least activity in 1921, while the number of women wage earners decreased 55.2 per cent during the same period.

In the recovery after the depression women seemed to share almost equally with men. This may have been due somewhat to the fact that partly because of the shortage of labor—its numbers being wholly inadequate to the demands of the industry as orders came pouring in—and partly because of its high cost, efforts were continued this year to find means of securing the same production at a lower labor cost. To this end, in the machine-tool industry many of the simple types of automatic machines were, in 1922, originated or modified.

The use of single-purpose or special machines, for which there was such an enthusiasm during the time of the war, was markedly diminishing in favor of the standard or all-purpose types of machine tools, but special machines still were being used to some extent, often to handle the second operation on work coming from automatic screw machines. This may have had some effect on maintaining the employment of women, for women had been, during the war, considered especially adapted for work at the special-purpose machines.

Conclusions.

Variations in employment in the iron and steel industry in Ohio were frequent and comparatively large during the period 1914-1924.

The variations were caused usually by changes in the state of trade, rising demand or falling demand. Behind this were overexpansion and overcapacity.

Strikes and lockouts were a secondary influence upon the course of employment. Seasonal influences appeared to be absent and consequently had no effect upon amployment.

employment. The employment curve for women followed very closely that of men in the total group of iron and steel manufacturing, except for 1917 and 1918.

The proportion of women workers increased during the war years and after the war remained higher than it had been before.

The employment of women was not so adversely affected by strikes as was that of men. During the great steel strike in 1919 women's employment declined by an amount that was small in comparison with the decrease of men, so that the result was an increase in the proportion of women workers.

The employment curve of women tended to be more sensitive than that of men. It often rose comparatively higher during periods of advancing activity and declined comparatively lower during periods of depression. In almost every movement shared by the employment curves of both men and women, that of women rose or fell with comparatively greater sharpness.

During the period 1914-1924 there were in the iron and steel industry many improvements in machinery, many introductions of labor-saving devices. Consequently, for the same or a greater production toward the end of the period the employment curve did not rise so high as it had done in the earlier years.

BOLTS, NUTS, WASHERS, AND RIVETS

The manufacture of bolts, nuts, washers, and rivets not made in rolling mills is not a large branch of the iron and steel industry, but Ohio has more wage earners thus employed than has any other State.¹¹ Furthermore, it is of more importance as a woman's industry than are most of the others in the group. In 1923, foundries and machine shops were the only establishments employing a greater number of women and screw factories were the only ones in which women formed a larger proportion of the wage earners. In fact, compared with the figures for the iron and steel industry as a whole women appear to be a fairly important factor in this smaller group, as in 1914 they formed 17.3 per cent and in 1924 they were 17.5 per cent of the total employees.

In spite of the small number of establishments reporting in the group classified as manufacturing bolts, nuts, washers, and rivets (from 15 to 30) there is a very striking similarity between the general trends of employment in this industrial

group and those for all iron and steel. In the smaller group the fluctuations both up and down are more extreme than for the larger, but the shape of the two curves, for the total employees, is remarkably similar. This is not so, however, when the trends for men and women are considered separately. The relative importance of the two sexes in the manufacture of bolts, nuts, etc. does not seem to have altered to any significant extent as it has done in the entire industry. The greater proportion of women in the smaller group naturally would result in a closer resemblance between the curve for women and the curve for all employees, but an even more potent factor in bringing about this similarity probably is the small number of establishments reporting and the consequent homogeneous character of the entire classification.

On the whole, the total curve in the manufacture of bolts, nuts, etc. could be accepted as a very reliable indication of the trend for each sex. The only period during which there appear marked differences in trend for the men and the women is the year 1918, when the men's employment stayed practically on a level throughout the year while women's increased considerably. This difference was anticipated in 1917, when men's employment decreased slightly and women's increased, and it is due, of course, to the war. From the late months of 1917 the employment of women increased until by the end of 1918 their index had about reached that of the men, a condition that had not existed since 1914.

The depression of 1920-21 did not affect the women in this industry quite so severely as it did the men, although trends for the two sexes were very similar. Decreases for the women began a couple of months earlier than for the men and the recovery of the women in 1921 began a month later.

SCREWS, MACHINE AND WOOD

Fewer workers were employed in the manufacture of screws than in most of the industries of the iron and steel group for which the Ohio employment figures were secured. However, the figures for this group are given separate consideration here because of the fact that in Ohio women form a larger proportion of the workers than in any other industry of the iron and steel group. Several branches employ a larger number of women than does the manufacture of screws, but the State employment figures show that in 1924 more than a third of all the wage earners in screws were women. Furthermore, according to the census of 1923 Ohio has more people employed in manufacturing machine screws than has any other State in the Union.¹⁰

Figures for this industry are available for all the years from 1914 to 1924 except 1915, when too few establishments reported to justify publishing separate figures. From the records of these 10 years there is no indication of a repeated seasonal movement in activity. Although there were years in which there was a rather wide range between minimum and maximum employment, these same variations did not tend to recur year after year but rather were due to cyclical fluctuations that varied in character from year to year.

The figures for 1914 are scarcely comparable with any of the other years for which reports were made. More establishments reported during that year than in any other and the minimum employment of men in 1914 was more than twice the maximum employment of men in any other year. The probable explanation of this has been discussed elsewhere in the report (see p. 10). In this industry, therefore, it is more satisfactory to start comparisons with 1916. In the graph showing fluctuations from month to month based on the 1914 average the changes in men's employment in the later years appear less important because of the fact that the number for the base year was very high in comparison with the other years.

The chief value of the curves for this very small group is as an illustration of the violent fluctuations and deviations from the general trends in the larger group that may be expected when a classification includes so few establishments. In a classification that covers only from three to eight establishments, employing only from 68 to 337 women over the 11-year period, the fluctuations of the curve of employment necessarily are violent and can not be considered as indicative of any but very local situations. It is apparent that in these few establishments there were great irregularities in the employment of women and that these irregularities did not affect the men, whose employment was steadier. Even so, however, study of the trend of employment within each year indicates a certain general similarity in a number of years. Women apparently increased and decreased more rapidly than did men and their increases were likely to come after and their decreases before those of men.

The numbers included probably are too small to shed much light on the effect of the war and the depression of 1920-21 on the relative trends for the two sexes. The curves for this group should be used merely as an example of the greater sensitiveness of women's employment than men's and the violent irregularities that can be looked for when the figures are so small that the effect of any local situation is not minimized by the counteracting influence of conditions in other localities.

THE MANUFACTURE OF TEXTILES

Textiles is the manufacturing group that employs the largest number and next to the largest proportion of women wage earners. In this group as a whole an average of more than 26,000 women were employed in 1924, and those women formed 66.1 per cent of all the wage earners in the group. The curves of employment in textile manufacturing illustrate, therefore, the very opposite of the situation that is shown in the manufacture of iron and steel and their products, where the women employed in 1924 amounted to only 2.9 per cent of the total employees.

The textile group as a whole, however, does not yield especially significant information when considering the differences in trend of men's and women's employment and the factors that influence these differences. For the classification "textiles" includes not only the various stages in the manufacture of the products ordinarily included under that designation but their products—articles made from cloth. The list of industries included under this classification is as follows:

Awnings. Tents and sails. Bags, other than paper. Buttonholes. Carpets and rugs. Clothing, men's. Clothing, women's. Cordege, twine, jute, and linen goods. Cotton goods and small wares. Custom talloring, men's and women's. Dyaing and finishing textiles. Flags, bunners, and regalia. Furnishing goods, men's. Gloves, cloth. Hats and caps, other than felt, straw, and wool. Horse clothing. Hosiery and knit goods. Mattresses, pillows, and ooton felts. Millinery and lare goods. Oilcloth and linoleum. Shoddy. Silk and silk goods. Upholstering materials. Waste. Woolen, worsted, and wool-felt goods. Textilas, not otherwiss specified.

It is evident, with a knowledge of the great diversity of products within this group, that the curves showing trends of employment will show little that is significant in the likeness or unlikeness between the trends of men's and of women's employment in textile manufacturing.

Examination of the curves for this industrial group reveals an astonishing degree of similarity between the employment trends for the two sexes. In no other of the groups studied is there so close a resemblance in the trends of employment for men and women. It is possible that this marked resemblance may be due in part to a tendency when men are in the minority for their employment to follow closely the development of women's employment, but more probably the similarity is due to the combination of individual industries, with conflicting trends, into the larger classification.

The possibility of such a balancing effect is well illustrated by the lack of indication of distinct seasonal trend for either sex in the curves for all textiles. In none of the years reported did the textile group show marked seasonal fluctuation. In 8 of the 11 years the number of men employed during the lowest month was 85 per cent or more of the maximum employment for the year, while for women the percentage was at least that high in 7 years. For both men and women the greatest difference between minimum and maximum employment came in 1920 and was due to the general business depression rather than to sharp changes of a seasonal character.

During most of the other years there tended to be two peaks of employment, spring and fall, but the contrast with the slack months was not startling. Probably this tendency is due primarily to the prominent part that the clothing industry forms of the larger textile group. The figures for textiles are the result of combining those for industries that have marked busy and slack seasons at certain times of the year with others whose seasons are in direct contrast or just miss of coinciding, as well as those that show no tendency for brisk and slow months to succeed each other in the same order each year. The spring and fall

seasons for women's clothing normally begin before those of men's clothing, while hosiery and knit goods have a single extended season with a tendency for employment to be at its lowest in December, January, and February, and the manufacture of cloth gloves shows no regular seasonal movement in employment. Scrutiny of seasonal changes in other subindustries that employ considerable numbers of workers indicates the variety of conditions that exists within the textile group. The manufacture of millinery and lace goods has two definite busy seasons, but ordinarily the spring season comes earlier than in the two main clothing groups, while the two busy seasons in custom tailoring come somewhat later than in the ready-made-garment industry. The manufacture of cordage, twine, jute, and linen and the manufacture of woolen, worsted, and wool-felt goods show very little seasonal variation. These examples indicate the way in which some industries tend to balance others within the same group and to lessen the extent of fluctuation in the textile group as a whole. It is probable that a person out of work because of the slack season in one branch of the textile classi-fication is able to secure work in another branch whose busy season is on when he is out of work. Thus the combined figures really fail to indicate the seriousness of the fluctuations.

Taking the textile groups as a whole, apparently the war had little effect on the employment of either men or women. Here again it is probable that this is due to the combination of conflicting figures for various groups. However, it is interesting to see that for this group as a whole the only marked fluctuation of employment came as a result of the depression of 1920-21, when employment for both men and women started to decrease in April, 1920, and reached a low point in January of the following year. From the middle of 1923 on there was a tendency to a decrease in employment but it was not nearly so severe as the decrease in 1920. In both cases the decreases applied alike to men and women. There was also a short slump in employment at the close of the war, in the last months of 1918, but the amount lost was rapidly regained during the latter half of 1919 and employment for both men and women reached a high point in the early months of 1920.

For this industrial group the curve for the total gives an almost completely accurate picture of the trends for either sex. As a significant indication of the trends for an industrial group, however, the curves for all textiles combined probably are not of great value, as the classification covers too varied a group to be fitted into an apparently limited industrial classification, while at the same time it does not include a sufficiently great variety of products to make the classification representative of a broader and more generally significant grouping.

The clothing industry.

Among the varied industries that are included in the classification of textiles by far the most important is the manufacture of men's and women's clothing. The manufacture of men's clothing employed in the year 1924 an average of 13,139 wage earners, of whom 70.6 per cent were women. This was not far from one-third of all the wage earners included in the textile group, and the women in the manufacture of men's clothing formed more than one-third of the women wage earners in the larger classification. Closely allied to the manufacture of men's clothing is the manufacture of women's clothing, and although it does not rank so importantly a very considerable proportion of the wage earners in textiles are employed in the manufacturing of women's clothing. In 1924 the average employment in this industry was 4,748, of whom 73.4 per cent were women, and this was 11.8 per cent of all wage earners in textiles. These two industries form outstanding examples of the so-called women's industries, and, as such, examination of their employment curves should throw much light on whether or not the similarity indicated in the all-textiles curves between the trends for the two sexes can be considered typical for these more limited, but far more significant, classifications.

For there are certain conditions that are characteristic of the clothing trades. In the first place, small manufacturing units prevail. In 1914 there were 14,953 establishments in the United States engaged in these industries, 85.2 per cent of which employed not more than 50 wage earners, almost two-thirds employing not more than 20. Only 24 establishments in all had more than 1,000 employees.³⁸ Establishments in Ohio have been, in general, of greater size than those in New York or in the United States as a whole.

¹⁰ U. S. Buresu of the Census. Census of Manufactures: 1914, vol. 2, p. 177.

The manufacturing units are not in the hands of great corporations. On the contrary, a large proportion of the plants belong to or are under the control of individuals. Of the 5,564 women's clothing establishments in the United States in 1914, 42.9 per cent were under individual control, 16.8 per cent were operated by corporations, and 40.2 per cent were under other forms of ownership, such as partnerships, cooperative associations, etc. Of the 4,830 men's clothing estab-lishments in the country in 1914, 52.2 per cent, or more than half, were under individual control, 14.8 per cent were operated by corporations, and 33 per cent were under other forms of ownership.14

Among these many small establishments there is little teamwork. Lack of organization in the industry, lack of cooperation among the manufacturing units and among the various markets, were named by one of the leading men's clothing trade journals ¹⁵ as being responsible in part for the sorry plight of the industry in the years of business depression beginning in 1920. This authority also said that the clothing industry was the only important one without a central, organized system of technical and business information, which accounted largely for the crudities of the business. The many independent manufacturers have not been governed by a clear and comprehensive purpose that would have enabled them to control certain conditions to the benefit of their industry.

A third characteristic of the men's and women's clothing industries is that they employ a larger proportion of women than of men as wage earners. Over 68 per cent of the average number of wage earners in 1919 were women.¹⁶

Fourth, in the needle industries at least, the number of highly skilled workers Most of the operations require a degree of skill that is easily acquired.¹⁷ is small.

Fifth, the clothing industries are seasonal, some of them highly so. Since most people buy their clothes for the summer in April and May and their winter clothes in October and November, the industries that supply this clothing naturally are seasonal industries, working to capacity during the months just previous to the buying seasons, then slowing down until the approach of the next season causes renewed activity.

In the men's clothing industry in Ohio the employment figures for 1914-1924 show that February, March, and April were months of increasing employment, the increase sometimes beginning earlier, in January, sometimes extending later, into May. After a period of decreased employment, activity recommenced, and the months of August, September, and October witnessed increasing employment, which sometimes reached its height in November.

In the women's clothing industry the Ohio employment figures show that January to March was the period of greatest activity, in preparation for the spring buying season, the second peak of employment being reached in July, August, or September. Frequently from 1,000 to 1,500 more workers were employed at the height of the season than during the dullest month preceding or following it.

From these figures it is evident that the two busy seasons in the women's garment industry tend to occur earlier than the corresponding seasons in the manufacture of men's clothing and to be more sharply defined.

This is true in Ohio because the men's clothing industry in this State does a good deal of special-order business, in which the manufacturer sells directly to the individual who wears the suit, so that he gets his orders only a short time before the wearing season.

The manufacture of men's clothing tends to be less sharply seasonal than that of women's clothing. In each of the nine years for which data were supplied by the Ohio Division of Labor Statistics, except two, the per cent that minimum employment was of maximum was higher for men's clothing than for women's, indicating that employment was steadier and did not suffer such large increases and decreases as did employment in the women's clothing branch.

This is accounted for originally by the different demands that men and women have in buying clothes. Men's garments have become standardized along certain lines that change little from season to season, while women's garments change a great deal.16

The differences in the seasonal character of the two industries and the demand that they make on their men and women wage earners would not appear, therefore,

 ¹⁴ U. S. Burean of the Census. Census of Manufactures: 1914, vol. 2, pp. 179, 188.
 ¹⁴ Clothing Trade Journal. July, 1924. Editorial. New York.
 ¹⁴ U. S. Bureau of the Census. Fourteenth census: 1920. vol. 9, Manufactures, 1919, p. 1143.
 ¹⁴ D. S. Bureau of the Census. Fourteenth census: 1920. vol. 9, Manufactures, 1919, p. 1143.
 ¹⁴ D. S. Bureau of the Census. Fourteenth census: 1920. vol. 9, Manufactures, 1919, p. 1143.
 ¹⁵ See Experience with Trade Union Agreements—Clothing Industries. National Industrial Conferences
 ¹⁶ Baryor, Edna. The Garment Trades. Survey Committee of the Cleveland Foundation. Cleveland, Ohio. 1918. p. 29.

where figures are combined for the two. Instead, the tendency would be to flatten out the curve so that the seasonal tendency for both industries would appear to be much less marked. It is because the seasonal character of the clothing industry presents such problems from the standpoint of both men and women workers that the employment figures showing trends for the two sexes are especially important. In studying these figures, moreover, it is well to bear in mind that in respect to the seasonal problem the clothing industry is in a better situation in Ohio than in many other localities, and the difference in trends for the two sexes resulting from seasonal demands therefore would be less apparent.

Manufacturers of men's and women's clothing in Ohio have made determined efforts to bridge over the dull seasons and to make employment more constant throughout the year. It was said in 1918 that Cleveland appeared to be the only women's clothing manufacturing center of any significance in which certain methods were applied successfully for the regularizing of employment.¹⁰ Dovetailing of products is the principal method adopted. There are several

One form is the manufacturing of simpler or lower-priced garments forms of this. during the slack season. This is possible because the seasons for products in the lower grades do not coincide with those for goods in the higher grades. Another form of dovetailing is used by some firms that manufacture several

different lines of goods. One house makes eight lines of lighter garments for women and shows practically no seasonal fluctuation.

Manufacturing one other line at such times as will fill in the slack season of the principal line is a third form of dovetailing. The dress and waist factory that supplemented this line with petticoats was an early example. The manufacture of garments for stock is still another type of dovetailing.

For this purpose there is selected a garment so staple and so much in demand that it can be made without regard to style or season. The foremost example of this is the blue serge suit."

One large Cleveland men's wear house makes the suit during slack periods when last season's contracts have been filled and before orders have come in for the next season. The entire force is then engaged in making blue serge suits, lighter weight for summer and heavier weight for winter. There are six weeks

in the fall and eight weeks in the summer thus occupied.³¹ A policy adopted by some Ohio firms to regularize employment is that of extensive advertising of a few specific styles. This advertising creates a large and permanent demand for a few styles and thus enables firms to manufacture in advance of sales without incurring great business risks.

Some firms have adopted the policy of demanding longer delivery dates, to obviate the necessity of temporary short-time expansion.

Another method used is that of engaging in some contract work for an allied trade during the slack season of the year, and of giving the overflow during the busy season to contract houses in order to avoid putting additional people on the pay roll.22

The Clothing Trade Journal for May, 1924, speaks of the wonderful results obtained by two firms from specializing on a few lines in place of the old-fashioned endless diversity of styles and models. It does not, however, disclose where the firms are located. The paper says: firms are located.

A complete line of 150 models reduced to 24; another cut from 60 to 8; 30 to 60 hyers cut at one time, instead of as few as 3 or 4 under the old system; overhead reduced one-tenth and production and selling costs one-third; prices lowered, sales doubled, profits increased; production continuous the whole year around; salesmen on the road 12 months of the year; number of customers from two to seven times greater than before—these are some of the remarkable banefits reaped.²⁹

There are two large clothing firms in Cleveland, one of which may have been described in the paragraph above, that have been very successful in achieving continuity of employment. One of them, manufacturing men's clothing, had had in 1921 continuous production of from 45 to 51 weeks a year for several years. This result was secured by standardizing products, adjusting them to a large class of consumers who valued durability and service above style. By con-centrating its advertising on this product, by giving proper inducements to its retail distributors in return for their accepting deliveries over an extended period

 ¹⁰ Emmet, Boris. Labor Survey of Cleveland Cloak Industry. U. S. Bureau of Labor Statistics. Monthly Labor Review, August, 1918. p. 221.
 ⁴⁰ U. S. Department of Labor. United States Training Service. Training Workers in the Women's Cloak Suit, and Skirt Industry. Bul. 17. 1919. pp. 67-68.
 ⁴¹ Bryner, Edna. The Garment Trades. Survey Committee of the Cleveland Foundation. Cleveland, Ohio. 1916. p. 73.
 ⁴² Emmet, Boris. Labor Survey of Cleveland Cloak Industry. U. S. Bureau of Labor Statistics. Monthly Labor Review, August, 1918. p. 222.
 ⁴⁴ Clothing Trade Journal. May, 1924. p. 71. New York.

instead of at the opening of the season, the plant managed to have continuous work.

The other firm manufactures women's garments. This company has closely coordinated its selling policy with its production policy under scientific management. It follows the rule of "selling what it makes" instead of "making what it Months before the selling season it determines the number and kinds of sells. garments it wants to make the following season in order to keep its plant at capacity production. Designs are approved and quantity manufacture is begun. The company has inspired its retailers with confidence in its judgment, the reliability of its promises, and the value of its merchandise. Its salesmen are given their quota and expected to sell it. Usually they do so. They are helped because the goods of the company are sold under a trade-mark, widely known to the public through national advertising. In the long run the firm is eminently successful in maintaining production 51 weeks in the year, one week, during which workers have a vacation with pay, being devoted to plant repair.*

The unions in their agreements with employers have attempted always to do what they could to distribute employment more evenly throughout the months They have made equal distribution of work and no overtime of the year. during the dull season part of their contract. They have constantly endeavored to raise wages to such an extent that the annual income of a garment worker would enable him to maintain his family in comfort and decency, considering that most of the workers are either totally or partially unemployed about 21 weeks yearly. They have tried to reduce the hours of work so as to make room for the employment of a larger number of workers who otherwise would be unemployed.*

There was inaugurated in 1921 in Cleveland an agreement between the union and employers in the women's clothing industry under which the employers guaranteed to the workers a certain number of weeks of employment each year. This is discussed in greater detail below, under the heading "Cleveland plan." Although equal distribution of work in dull seasons is the rule, in many cases

it becomes necessary finally to lay off some workers. In Cleveland several firms have a regular method of laying off so as to work as little hardship as possible. "One method is to distribute the lay-off among the workers, each being laid off from four to six and one-half weeks, one or two weeks at a time. Another method is to lay off the workers in proportion to the period of service they have had with the firm, those longest with the firm having 100 per cent of employment during the year. Some firms maintain that the extra workers they take on in busy seasons are only makeshifts, not of a grade of skill that would warrant keeping them."

In Cleveland methods of laying off are supplemented sometimes by devices to assist workers over the dull seasons. "In one establishment the workers are paid a regular weekly wage, and account is kept of what they do at piece rates. What they make above their regular weekly wage is held back each week and paid in a lump sum at the end of the season to tide them over the dull period."²⁶

The results of these various methods of regulating employment in Ohio are apparent in a study of the regularity of employment in the women's ready-towear-garment industry undertaken by the United States Bureau of Labor Statistics in 1915. This study gives a comparison of regularity of employment in this industry as it occurred in Cleveland, New York, Chicago, and Boston. This survey used variation in the amount of pay roll from week to week as the index of unemployment. The average weekly pay roll for the year, found by dividing the annual total pay roll for the establishment by 52, was taken as the standard, 100 per cent.³⁷

In the cloak, suit, and skirt industry the greater irregularity in the trade in New York was found to be very marked. Cleveland showed the greatest regularity of employment, with Boston ranking second, Chicago third, and New York fourth. Cleveland's range of variation from the average weekly pay roll was 74 per cent, as compared with 121 per cent in New York. The number of weeks during which the variation was at least 20 per cent amounted to 21, as compared

^{*} Stores, N. I. Continuity of Production in the Clothing Industry. The American Labor Legislation Review. March, 1921. pp. 29-31. * Reisberg, Blias. Combating Beasonal Unemployment in the Women's Garmani Industry. American Pederationist. September, 1927. pp. 1078-1083. * Bryner, Edna. The Garment Trades. Survey Committee of the Cleveland Foundation. Cleveland, Ohio. 1916. pp. 76-76. Bureau of Labor Statistics. Regularity of Employment in the Women's Ready-to-Wear-Gar-ment Industries. But. 183, 1916. pp. 11-12.

with 38 in New York. Violent fluctuations occurred in only two weeks of the year, as compared with eight weeks in New York.

The report said that Cleveland should rank next to New York in irregularity if specialization were the only cause of irregularity, since the Ohio city was second to New York in the extent to which its manufacturers confined themselves to the one broad line of cloaks, suits, and skirts. But Cleveland had two steadying factors-the somewhat cheaper quality of the goods made and the method of selling goods.28

This difference in method of selling was described as follows:

New York City is, as far as women's garments are concerned, what is technically called a "buying" New York City is, as he as women's gaments are concerned, what is technically ealed a "odyme", market; that is, the goods are sold on the pramises of the manufacturer to buyers who come for the purpose of purchasing. Cleveland, on the other hand, is a "salling" market; that is, the goods are disposed of by traveling salesmen who secure orders from buyers outside the city. These salesmen make every effort to secure orders as far in advance of the season as possible, a method that diminishes the manufacturer's risk and tends to regularize production.²

In the dress and waist industry, Cleveland showed greater regularity of employment than did New York, but less than did Boston, while its position in regard to Chicago could not be exactly determined.²⁰

Other factors that undoubtedly were partly responsible for the greater regularity of employment in Cleveland were the relatively larger size of establishments in Ohio than in the country as a whole and the greater proportion of regular factories as distinguished from contract shops, for it was brought out in the Bureau of Labor Statistics survey that large-scale production tends to regularize employment and that steadier employment is found in regular factories than in contract shops. Data on the size of establishments and the proportion of regular factories in the women's clothing industry will be found in the section of this report devoted to the women's clothing industry.

Although no study is available comparing regularity of employment in the men's clothing industry in Ohio with that of other States, all the evidence tends to show that employment in this industry has been steadier in Ohio than in New York or many of the other clothing centers. Among the facts pointing to this conclusion are the following: Seasonal variations shown by the curve of employment from 1914 to 1924 are very alight; establishments in Ohio are of relatively larger size than in the country as a whole, much larger than in New York City. where most of the firms are of medium size or small, the industry being particularly in the hands of small manufacturers;* Ohio has a larger proportion of regular factories and a smaller proportion of contract shops than are found in the United States as a whole; in a survey made in Cleveland of 15 of the largest manufacturing industries, the men's clothing industry led all the others in regularity of employment.

This greater regularity in the clothing industries of Ohio in comparison with other localities should be borne in mind constantly when the Ohio figures showing trends of employment for men and women wage earners are studied. If the seasonal curve is more accentuated for women than for men in Ohio, it may be supposed that an even greater difference will appear between the seasonal trends for the two sexes elsewhere.

THE MEN'S CLOTHING INDUSTRY

The men's clothing industry in 1914 ranked seventeenth among the industries of Ohio according to value of product and thirteenth according to number of wage earners employed.²² In 1919 the industry took fifteenth place according to both value of product and number of wage earners."

Cincinnati and Cleveland are the two great centers in the State for the making of men's clothing. Cincinnati employed in 1923 one-half of all the men's clothing workers in Ohio, and Cleveland more than one-third," so that over five-sixths of the men's clothing made in the State was manufactured in these two cities. The percentage of women employed in making men's clothing is high. In fact, this industry can be called one of the outstanding women's industries. In Ohio, during the period from 1914 to 1924, there were about 70 per cent of

[&]quot;U.S. Burean of Labor Statistics. Begularity of Employment in the Women's Besdy-to-weer Garment Industries. Bul. 183. 1916, p. 78. "Ibid., p. 60.

Ibid., p. 60.
 Ibid., p. 80.
 U. S. Department of Commerce. Bureau of Foreign and Domestic Commerce. The Men's Factory-Made Clothing industry. Miscellaneous Series, No. 34. 1916. p. 145.
 U. S. Bureau of the Census. Census of Manufactures: 1914. vol. 1, p. 1148.
 U. S. Bureau of the Census. Fourteenth census: 1920. vol. 9, Manufactures, 1919. p. 1142.
 U. S. Bureau of the Census. Blennial Census of Manufactures: 1820. pp. 1404, 1405.

women workers to about 30 per cent of men workers. Because of this great preponderance of women and because of the extremely seasonal character of the work the figures showing trends of employment for the two sexes will illustrate the effects of some very important factors.

Since size of establishment has its relation to regularity of employment, and since form of ownership throws some light upon size of establishment, it is of interest to examine the prevailing forms of ownership in the industry.

The percentage of men's clothing establishments owned by corporations is alightly higher in Ohio than for the country as a whole, for in the same year, 1919, almost three-tenths of the establishments were in the hands of corporations as against one-fifth in the United States. Almost one-half were owned by individuals and one-fourth by other forms, including partnerships. Furthermore, 66.9 per cent of all the men's clothing workers in Ohio were employed in corporateowned factories.³⁶

In 1914 the average number of wage earners to an establishment (found by dividing total average number of wage earners by number of establishments) was 39 in Ohio, 28 in New York, 27 in Massachusetts, 59 in Illinois, and 20 in Pennsylvania.³⁶ In 1923 the average was 75 in Ohio, 26 in New York, 33 in Massachusetts, 92 in Illinois, and 35 in Pennsylvania.**

From this it is seen that Ohio and Illinois continued to report larger establishments than did the other States foremost in the manufacture of men's clothing.

This fact, that the men's clothing factories of Ohio tended to be of larger size than those of the rest of the country, should have had its influence in making employment in this industry somewhat steadier in Ohio, since greater regularity of employment has been found to exist in larger plants.

Regularity of employment also depends to a certain extent upon whether the establishment is a regular factory or a contract shop.

In 1923 Ohio had a larger proportion of regular factories than had the United States as a whole. Of the men's clothing establishments in Ohio, 63.8 per cent were regular factories, whereas of men's clothing establishments in the United States 59.6 per cent were regular factories. In Ohio 36.2 per cent of the establishments were contract shops, whereas in the United States 40.4 per cent were contract shops.38

This fact of having a larger proportion of regular factories, combined with that of having, in general, shops of larger size and a larger proportion owned by corporations, should make employment in the men's clothing industry in Ohio more regular than in the country as a whole.

Another and a very important factor in stabilizing employment in the clothing industries is the extent of trade-union organization among the workers. The history of the employment of trade-unionism in this industry in Ohio therefore is of great significance in connection with a study of trends of employment.

Prior to 1914 the United Garment Workers had jurisdiction over the men's clothing and shirt industries. However, its membership had always been uncertain and small in these trades, whereas it kept a fairly steady membership in the overall industry. In 1914 the Amalgamated Clothing Workers of America split from the United Garment Workers and claimed jurisdiction over the men's clothing and shirt industries.

With the Amalgamated, unionism spread rapidly in the men's clothing industry. The union was accepted in New York, Chicago, and Rochester in 1919, a year in which a series of strikes occurred. By 1920 the Amalgamated wielded a preponderating influence in these three cities and in most of the other men's clothing centers. It has become a highly effective industrial union, with a mem-bership increased to 170,000. During the prolonged period of depression in the clothing industry, beginning late in 1920, the Amalgamated lost heavily in num-ber of members, but by 1923 it showed a slight increase.³⁰

Cincinnati and Cleveland were two men's clothing markets that remained persistently nonunion. In 1918 Cincinnati was not in "the column of organized clothing centers." " In 1924 it was reported that the union's attempts to organ-

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[&]quot; U. S. Bureau of the Census. Fourteenth Census: 1920. Manufactures, 1919, vol. 8, p. 110, and vol.

⁴⁵ U. S. Buresu of the Census. Fouriement Census. From Census. From Census of Manufactures: 1914. vel. 2, p. 180.
⁴⁷ Ibid. Biennial Census of Manufacturers: 1923. p. 288.
⁴⁸ Ibid., pp. 282, 288.
⁴⁸ Wolman, Leo. The Growth of American Trade Unions, 1880-1923. National Bureau of Economic Research. New York. 1924. pp. 80-52. Also Gilbertson, H. S. Meeting the Labor Problem in the Clothing Industry. Administration, February, 1923, pp. 181-189.
⁴⁰ Amaigamated Clothing Workers of America. Documentary History, 1914-1920. (Section 1916-1918).

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ize the Cincinnati market met with distressingly little success. All forces appeared to combine to keep the market nonunion. The press was hostile, organized labor unfriendly, the city authorities not averse to using their influ-ence against the union. A very important factor in the market was the large firm of A. Nash Co. By refusing to accept the union, this company contributed to "the prestige of Cincinnati as a flourishing nonunion center." ⁴¹

However, during all these years, 1914 to 1924, the Amalgamated was striving to create a permanent, effective union organization of the Cincinnati market. Many strikes and lockouts occurred in the course of the long struggle. There was a hard-fought strike of about three months in 1919, following which collective-bargaining agreements were signed between the Amalgamated and a number of individual clothing firms. The union did not remain at peace very long, for a series of strikes and lockouts was brought into Cincinnati in 1920 by the open-shop wave that was then sweeping the country. Agreements were renewed with a number of houses in 1922, but on the whole the union's attempts to organize the market made little headway until the close of 1925, when an agreement was effected between the Amalgamated and the A. Nash Co.⁴²

The Cleveland market has been only partly unionized, and only since 1920, though a few agreements were signed with individual houses between 1915 and 1920. The first collective agreement in Cleveland was the indirect result of a strike terminated in February, 1920, by acceptance of the decision of an arbitrator, who recommended that an agreement be concluded. Such an agreement was made in October, 1920, between the Cleveland Clothing Manufacturers' Association and the Amalgamated Clothing Workers of America. The contract followed the Chicago contract of 1919 in the main, but omitted the trade board. It was for one year. Among the nonunion shops in Cleveland are two very large ODES.

Most of the strength of the United Garment Workers is now in the overall industry, and this union has agreements with a number of individual firms in Cincinnati and Cleveland.⁴⁸

An examination of the Ohio employment figures shows that the proportion of women employed in men's clothing in that State during the nine years for which statistics are available remained extremely close to 70 per cent throughout. The lowest such figure was for 1914, at 68.2 per cent, or 1.8 points below 70. The year 1915 showed the next lowest percentage, 69.4. In all the other years except 1921 and 1923, which reported the highest proportions of 71.2 and 71.6 per cent, respectively, the average proportion of women remained almost stationary at a few tenths of a point above 70 per cent.

The proportion of women varied very slightly within the year. In only one of the nine years did it vary by as much as 3.4 points, and that was in 1921, the year Within the other eight years the proportion varied by less than 2 of depression. points; indeed, in one year it changed by only eight-tenths of a point.

Thus the proportion of women was far more constant in the men's clothing industry than in the women's clothing industry, where in four of the years the proportion varied by 2 to 4 points and in two of the years by as many as 6.4 points. Furthermore, throughout the period 1914–1924 the figure showing pro-portion of women for the year varied by only 3.4 points in the men's clothing industry though in the women's clothing industry, where the tendency was for the proportion to increase, it varied by as much as 13.7 points.

The curve of employment for wage earners in men's clothing does not at all resemble that for wage earners in all manufacturing industries in the State, except during 1924, the last year of the period. The chief difference, at once apparent, is that employment in men's clothing, instead of rising as high as 80 points above the 1914 average during the war years 1915-1918 and the two years immediately following, as did employment in the total of all wage earners in manufacturing, remained close to the 1914 average until the end of 1919. In 1920 it did go above this average, as high as 20 points above it, declining in December to below the average, but in this same year employment of wage earners in all manufacturing was for the most part about 80 points above the

average, declining by December to about 25 points above the average. In 1915 orders from Europe for war materials, giving a vast incentive to the production of all kinds of metals, caused the curve of employment in all manu-

⁴¹ Amalgamated Clothing Workers of America. Documentary History, 1924-1926. pp. 17-18. ⁴³ The Amalgamated in Cincinnati: A Record of Struggle and Achievement. Cincinnati Joint Board, Amalgamated Clothing Workers of America. May, 1928. pp. 23-30. ⁴³ U.S. Bureau of Labor Statistics. Development of Collocive Barganing in the Men's Clothing Indus-try in the United States. Monthly Labor Review. June, 1922, pp. 1063-1108.

facturing to rise sharply almost from the beginning of the year, but the rise of employment in men's clothing was not nearly so great. This industry was a branch of the purely domestic trade, which was repressed earlier in the year by uncertainty and the fear of involvement in war. At the end of the year the industry was somewhat stimulated by a wave of purchasing that followed large earn-

ings in industrial centers and the harvesting of record food crops. Employment figures for men's clothing are lacking for 1916 and 1917, but con-sidering the fact that the curves for 1915 and 1918 showed no tendency to rise above the 1914 average there is no reason to suppose that they rose far above it, if at all, in 1916 and 1917. In 1916 there was record activity throughout, due to the enormous European orders for war materials, especially food and munitions. The year was conceded by all to have been prosperous; wages were high. It is evident, from reports in Bradstreet's, that clothing manufacturers in Ohio did a business considerably above that in 1915. Without doubt, therefore, the curve business considerably above that in 1915. Without doubt, therefore, the curve of employment in 1916 was somewhat higher than in 1915. In 1917, when the United States itself was at war, the same influences were active as in 1918, and in all probability the curve of employment in men's clothing was very much the same as in 1918, that is, close to the 1914 average.

Total employment was, of course, at a high level during 1917 and 1918, because of the feverish activity in supplying food, munitions, and other manufactures to the armed forces. Men's clothing, however, was an industry that was not stimulated by the war; at any event, not in Ohio. To understand this one must realize that the clothing industry is one that suffers readily from changes in the prosperity of the consumer. "Clothing in the bulk may be a necessity, but the garments that are actually sold includes large proportion of semilaruries, which are out off in time of orisis."⁴⁴ During the war people were forced to economize. Numerous campaigns were carried on to induce economy where it was not forced. People were urged to wear old clothes and to be proud of doing so. It is noted in Bradstreet's many times in the course of these two years that the buying of wearing apparel had failed to broaden in a degree commensurate with employment and record wages, presumably because of high prices dictating economies, because of economy campaigns, and because saving by small investors for the purpose of participating in the Liberty loans was quite general. Everywhere there was a turning away from luxuries and a tendency to forego anything that was not essential. Also, of course, there were many thousands of young men who had little or no use for civilian garb. For these reasons 1917 and 1918

is a greatly slackened production in men's civilian clothing. It is true that the uniform trade partly filled the breach. But, though considerable work in the making of uniforms, overcoats, overalls, and other clothing for the Army was carried on in Ohio, the great bulk of these contracts were placed in New York, Philadelphia, and Baltimore.⁴⁴ In all the long list of war contracts of \$100,000 and over placed from April 6, 1917, to June 1, 1919, covering 1,116 pages, there were only seven contracts with men's clothing houses in Ohlo, and two of these were for the manufacture of canteen or breech mechanism covers. It can be assumed that Ohio did not enjoy any larger share of the clothing con-tracts of less than \$100,000. It was stated in the Daily News Record of January 1, 1928, that little uniform work was being done in Cleveland in proportion to the contracts being executed in the New York market."

Another factor that reduced employment in the clothing industries, even when there were plenty of orders, was the inability of manufacturers at times to get as much material as was needed. Firms frequently had contracts but no goods, and they were even forced to lay off workers. As an example of the inability of companies to deliver on contracts, one men's clothing house of Cleveland received on June 7, 1917, a contract of \$148,665 for the making of woel service costs. Eight months later, on February 2, 1918, the greater part of the contract was canceled, leaving the net contract as amended at only \$25,000.4

During the first half of 1919 employment in the men's clothing industry in Ohio was still below the 1914 average, although employment in the total of all wage earners in manufacturing was far above such average. The war, with its

⁴⁴ Budish, Jacob M., and Soule, George. The New Unionism in the Clothing Industry. Hercourt, Brace, and Howe. New York. 1920. p. 32. ⁴⁵ United States House of Representatives. 66th Cong., 1st and 2d sessions. Select Committee on Expenditures in the War Department. Hearings. War contracts of \$100,060 and over. Serial 1, vol. 2, pp. 675-1791. Washington. 1919. ⁴⁶ Daily News Record. Jan. 1, 1918. Fairchild publications, New York. ⁴⁷ United States House of Representatives. 66th Cong., 1st and 2d sessions. Select Committee on Expenditures in the War Department. Hearings. War contracts of \$100,000 and over. Serial 1, vol. 2, p. 114. Washington. 1919.

emphasis on economy, was over, but high prices were holding down sales of clothing; merchants were slow in placing orders, anticipating price reductions; the mildest winter in years discouraged the buying of heavy winter apparel; there was a good deal of unemployment, especially in centers that had specialized in war work. Throughout the country wearing apparel was one of the least

favorably situated industries as regards new business coming in. However, from about the middle of 1919 employment in the men's clothing industry rose sharply to well above the 1914 average and remained there till December, 1920. It was remarked in Bradstreet's that consumptive demand seemed to have singled out lines that had been under the ban of war necessity and that men's and women's clothing of all kinds was leading in activity. pent-up demand of the past years and buying by returned soldiers were incentives. There were large crop yields, sold at high prices. The country was prosperous and labor well employed. Men's clothing manufacturers of Cincinnati and Cleveland reported business very good, their only difficulty being to secure enough labor and material to fill all the orders. The

At the close of 1920 and in the early part of 1921 employment in men's clothing declined again below the 1914 average. In doing so it reflected the general business depression prevailing at the time. As the chairman of the board of arbitration in the clothing industry in Chicago said in one of his decisions, "The clothing industry is a very dependent one; very dependent upon the ups and downs in the general business situation." "

The fact that employment in men's clothing rose again above the 1914 average by the spring of 1921 and remained at varying heights of from 20 to 40 degrees above this average during the remaining years of the series is due not so much to improved business and better demand for clothing as to conditions in the industry peculiar to Ohio.

One factor that alone accounted for much of the increase was the men's clothing firm of A. Nash Co., famed for its application of the "golden rule" policy. This establishment was said by the Amalgamated " to have been by all odds the most important and the largest factor in the Cincinnati market between 1920 and 1924. Organized in 1918, when it employed 29 persons, it grew by leaps and bounds until in 1925 it reached a volume of business of more than \$12,000,000 and employed several thousand wage earners. The number of wage earners was said to have been about 6,000 in 1924.⁴⁰ Since the average of the total number of wage earners in the industry in Ohio in 1924 was 13,139, it can easily be seen what a determining influence the growth of this firm had upon the employment curve of the industry during these years.

Another condition responsible for much of the increase in employment from 1921 to 1924 was the fact that Cincinnati, as a clothing market, was known as the place favorable to nonunion settlement. The Amalgamated had failed to unionize the market, although it had some agreements with separate houses. The influence of the A. Nash Co. was felt here, too. The Amalgamated has said ^a that with regard to unionization Mr. Nash "maintained a policy of silence and inaction. Whatever his intentions, the leadership of his firm in the market contributed to add to the prestige of Cincinnati as a flourishing nonunion center."#

In 1924 the employment curve for men's clothing in Ohio declined somewhat, very much as did that for all manufacturing, influenced by the general business depression of 1924, but it still remained well above the 1914 average, due to the factors outlined.

In the course of almost every year certain seasonal variations in the curve of employment of the men's clothing industry will be noted. The spring peak is reached anywhere in the five months February to June, and the fall peak in the five months August to December. The two points of minimum employment are reached in April, July, or August and in December or January. However, it will also be noted that the seasonal variations are not sharp nor decided, sometimes being barely perceptible or conceded by other movements. This is in marked contrast to the sharp seasonal fluctuations shown in the women's clothing industry, and is an evidence of the greater regularity of employment in the manufacture of men's clothing.

Amalgamated Clothing Workers of America. Research Department. The Clothing Workers of Chicago, 1910-1922. Chicago Joint Board. 1922. p. 180.
 Ibid. Documentary History, 1924-1926. p. 17.
 The Golden Rule's Success in Business. Literary Digest. July 12, 1924. p. 30.
 Amalgamated Clothing Workers of America. Documentary History, 1924-1926. p. 18.
 In 1925, however, an agreement was effected between the Nash company and the Amalgamated. See The Amalgamated Inclinnati. A Record of Struggle and Achievement. Cincinnati Joint Board, Amalgamated Clothing Workers of America. May, 1928. p. 102.

Perhaps the most significant thing about the trends of employment in the men's clothing industry is the degree to which they are similar for men and women. Both the long-term and seasonal trends are remarkably alike for the two sexes. The curve for the total wage earners indicates within a very few degrees the trend for each sex. It does not show the very slightly increased superiority gained by the women by the end of the 11-year period, and it does not show a somewhat more rapid and more extensive decrease among the women wage earners at the time of the depression of 1920. With these exceptions, however, it can be accepted as a remarkably accurate presentation of the situation for the two sexes.

THE WOMEN'S CLOTHING INDUSTRY

The women's clothing industry in Ohio is not so important as the men's clothing industry, but nevertheless it is an important employer of women and illustrates trends of employment for the two sexes in an industry that has very distinct seasonal problems and in which the proportionate employment of women has increased during the 11-year period.

In Ohio in 1919 the industry ranked eighteenth according to the value of its product and twentieth according to the total number of wage earners employed,³⁸ so it does not assume a leading place among the State's industries. From the standpoint of women, however, it has a more significant rank, for in 1924 the Ohio employment figures show that only seven of the individual manufacturing industries considered in this study employed more women workers and only three employed a larger proportion of women.

In this industry, as in the manufacture of men's clothing, the seasonal trends are somewhat modified in Ohio by local conditions that make for greater steadiness in employment. For example, in Ohio a far larger proportion of the women's clothing establishments were owned by corporations and a much higher percentage of the workers were employed in such establishments than in the United States as a whole. In 1919, 50.3 per cent of the Ohio establishments were owned by corporations and 30.3 per cent by individuals, while in the United States the figures were 21.3 per cent corporate owned and 35.5 per cent individually owned establishments. Of the wage earners in the industry in Ohio, 78.5 per cent, but in the United States only 37.5 per cent, were in the corporate-owned factories, and only 12.3 per cent in Ohio, but 24.4 per cent in the United States, were in plants owned by individuals.⁴⁴

Since factories owned by corporations tend to be of larger size and to be governed by better accounting systems, and since greater regularity of employment is found in such establishments, the fact that Ohio has a far higher proportion of corporate-owned establishments and of workers employed in such establishments than the United States as a whole should indicate, other things being equal, that employment in the women's clothing industry is more regular in Ohio than in the country as a whole.

The proportion of workers employed by corporations is smaller in the women's clothing industry than in the men's clothing industry for the United States, namely 37.5 per cent as compared with 56.2 per cent. However, the opposite is true in Ohio, where 78.5 per cent of the wage earners making women's clothing are found in corporate-owned factories, against 66.9 per cent of the wage earners making men's clothing.³⁵

Another factor making for greater steadiness of employment in the manufacture of women's clothing in Ohio is the larger size of the establishments. In 1924 the small shop dominated the women's clothing industry as compared with the period 10 years earlier. In size of establishment the industry had become decontralized and the small shop had gained on the large shop in a striking degree. This was in direct contrast to the tendency in the men's clothing field, where the average size of establishment increased during these years. Although there was a distinct decrease in size of establishment in Ohio as well as in the rest of the country during this period, the average number of employees per establishment remained considerably higher than in other States.

In Ohio the average number of wage earners to an establishment in the industry, found by dividing the total average number of wage earners by number of establishments, decreased from 58 in 1914 to 45 in 1923; in New York State it decreased

U. S. Bureau of the Census. Fourteenth Census: 1920, vol. 9, Manufactures, 1919. p. 1142,
 Ibid., vol. 8, p. 110, and vol. 9, p. 1160.
 Idem.
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from 28 to 16; in Massachusetts, from 30 to 19; in Illinois, from 34 to 20; in Pennsylvania, from 36 to 24.⁴⁶

The trend toward decentralization in the industry, in marked contrast to the trend in industry generally, is explained by the growth of submanufacturing and the fact that there were practically no changes in the technical conditions of manufacture from 1914 to 1924. Most important of all, the experiments made in scientific management and in efficiency schemes have shown that the large shop based on division of labor becomes merely a collection of small shops under one roof and that the advantages of such a large shop can be offset by the small shops in a number of ways.57

The encroachment of the small shop upon the larger one in the various branches of the industry has gone the furthest in the older centers of the industry, namely, New York, Chicago, Philadephia, Boston, Cleveland, and Baltimore. In the smaller communities to which the various branches of the industry migrated between 1914 and 1924 the trend was to establish medium-sized and at times even fairly large shops.¹⁶ It will be noted from the census figures quoted that from the beginning to the end of the period 1914-1924 Ohio had women's clothing establishments of larger average size than had the other States of importance in the industry. The fact of the superior size of Ohio's establishments is brought out by other census statistics, as follows: Ohio had in 1914 a smaller proportion of women's clothing establishments employing as few as 50 wage earners than had the United States as a whole, namely 75.9 per cent against 84.8 per cent; it had a larger proportion of such establishments employing 51 to 250 wage earners than had the United States as a whole, namely 19.4 per cent against 14.3; it had a larger proportion employing 251 to 1,000 wage earners than had the United States, namely 4.1 per cent against 0.9 per cent. Also, Ohio had one establishment employing over 1,000 wage earners, and as only one establishment employing over 1,000 wage earners was reported for the United States, that one must have been in Ohio.^a

In Cleveland, though the average number of workers per cloak-and-suit shop decreased from 126 in 1914 to 66 in 1921, it still remained over three times greater than the average for New York, which was 19 workers per cloak-and-suit shop in 1921.**

About one-fifth of the cloak-and-suit houses of Cleveland employed in 1918 about two-thirds of the total workers in that branch of the industry, indicating a considerable degree of concentration.⁴¹

Ohio had, in 1923, a much larger proportion of regular factories and a much smaller proportion of contract shops than had the United States as a whole. Of the women's clothing establishments in Ohio 92 per cent were regular factories, whereas of women's clothing establishments in the United States only 77.4 per cent were regular factories. In Ohio only 8 per cent of the establishments were contract shops, whereas in the United States 22.6 per cent were contract shops. The final factor that should be considered in determining to what extent the

employment fluctuations in a State or locality are typical of a broader field is the extent to which the industry is organized and operating under trade-union agreementa.

It is in the clothing industry that perhaps the most conspicuous examples are found of trade agreements tending to regularize wages and employment and it is quite possible that in a well-organized locality trends of employment may appear far less flactuating and seasonal than would be the case where no such trade agreements exist.

The International Ladies' Garment Workers' Union is the one great union exercising jurisdiction over the women's clothing industry.

The women's dress trade, in general, using lighter materials and requiring less skilled work, employs great numbers of inexperienced girls and has been very largely unorganized, even in New York City where the union is powerful. Women's coats and suits, however, require expert tailoring and are made very largely by men.

[#] U.S. Bureau of the Census. Census of Manufactures: 1914, vol. 2, p. 159; Biennial Census of Manufactures: 1923, p. 303. E Levine, Louis. The Women's Garment Workers. B. W. Buebsch, Inc. New York. 1924. p. 415.

<sup>Levine, Louis, The women's Garment workers. B. W. Huebsch, Inc. New York. 1928. p. 114.
D.S. Bureau of the Census. Census of Manufactures: 1914, vol. 1, p. 1174, and vol. 2, p. 177.
Levine, Louis, The Women's Garment Workers. B. W. Huebsch, Inc. New York, 1924. p. 395.
Emmet, Baris. Labor Survey of Cleveland Cloak Industry. U. S. Bureau of Labor Statistics.
Monthly Labor Review, August, 1918, p. 229.
U. S. Bureau of the Census. Biennial Census of Manufactures: 1923, pp. 297, 304.</sup>

The cloak-and-suit industry had been highly organized, and the union controlled the trade to a very large extent in Cleveland, Cincinnati, and Toledo.* In Cincinnati, effective collective bargaining on a large scale existed in the women's ready-to-wear industries. In 1918 more than two-thirds of the cloak and suit workers of the city were members of the union and worked under union conditions. They were organized in three locals of the International, and all trade agreements with employers were entered into in the name of the joint board that connected the locals.

There was no unionism to speak of in the house-dress, kimono, and white-goods The branch last named, however, was of comparatively little importance, trade. since of the 1,600 garment workers estimated to be in Cincinnati in 1918, about 1,200 were in cloaks, suits, and skirts and only 400 in house dresses, kimonos, and white goods."

In Cleveland, the International Ladies' Garment Workers' Union, beginning with an unsuccessful strike in 1911, attempted for several years to build up an organization but made little progress. In the summer of 1918 a strike was called, the demands including a higher wage and machinery for adjusting disputes. As some of the firms affected were engaged on Army contracts, Secretary of War Baker intervened, and the questions at issue were submitted to a board of referees. The awards of the referees were observed down to December 24, 1919, when an agreement was signed by the Cleveland Garment Manufacturers' Association, the International Ladies' Garment Workers' Union, and the joint board of six locals, and the board of referees. The agreement was to run for two years. It was renewed in December of the years 1921, 1922, and 1923.⁴⁴ Thus the women's clothing market in Cleveland was nonunion until the close of 1919, after which it was for the most part a union market, though there were some women's clothing firms, including the largest, that did not sign the agreement with the union.

The agreement entered into on December 24, 1919, between the Cleveland Manufacturers' Association and the Cleveland joint board of locals of the International Ladies' Garment Workers contained several new and unusual features. In fact, the agreement marked a revolution in the relations of Cleveland manufacturers and union members. The new understanding was well expressed in the preamble of the agreement:

In view of their primary responsibility to the consuming public, workers and owners are jointly and separately responsible for the cost and quality of the service rendered. It is agreed that cooperation and mutual helpfulness are the basis of right and progressive industrial relations, and that intimidation and coercion have no proper place in American industry.⁴⁴

Under the agreement a permanent board of referees was established, with power to adjust matters that could not be settled between the parties, to provide periodical wage scales for the industry, and to see that the agreement was fairly observed. The agreement contained many customary arrangements in the industry, such as the following: Inside subcontracting was eliminated, each worker to be employed directly by the firm; workers in outside shops were to receive union wages; during slack periods work was to be distributed among all workers as equitably as possible; strikes and lockouts during the agreement were forbidden unless authorized by the referees."

The most serious friction between employers and employees in the women's clothing industry is caused by the alternation of busy and slack seasons. In the slack season it is thought to be in the employer's interest to lay off as many as possible; in the busy season it is sometimes said to be to the interest of workers to decrease their rate of production as much as possible to keep them at work for a longer period. In an effort to eliminate this seasonal difficulty, week work was to be introduced into the shops under the agreement, but week work that was based on "fair and accurate" standards of production. The distinctive featureof the agreement was the provision that the union and the association, should jointly engage and pay industrial engineers to establish by means of time studies fair and accurate standards of average production for a minimum weekly wage. Each worker was to receive additional pay for every unit he or she produced in excess of the minimum standard."

^{*} National Industrial Conference Board. Experience with Trade-Union Agreements-Clothing Indus-

National industrial Conference Board. Experience with Trade Union Agreements—Cuthing Industriet of Cincinnati and St. Louis, Weight and St. Louis, 1921. p. 85.
 * Emmet, Boris. Trade Agreements in the Women's Clothing Industries of Cincinnati and St. Louis, U. S. Bureau of Labor Statistics. Monthly Labor Review, March, 1918, p. 554.
 * National industrial Conference Board. Experience with Trade Union Agreements—Clothing Industries. Research Report No. 38. June, 1921. pp. 90-91. Also, Levine, Louis. The Women's Garment.

Tries. Research Report Royes, Toney and The Nation. Feb. 16, 1921, p. 262. New York.
 Mack, William J. Industrial Pesce in Cieveland. The Nation. Feb. 16, 1921, p. 262. New York.
 U.S. Bureau of Labor Statistics. Adjustment of Labor Disputes in the Garmant Industries in Cleveland. Monthly Labor Review, July, 1920, p. 66.
 Mack, William J. Industrial Peace in Cleveland. The Nation. Feb. 16, 1921, p. 263. New York. land.

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In the two years that followed, the distinctive features of the agreement were developed and put into operation. The report of the industrial engineers was submitted in March, 1920, and in June of that year one of the plans of the engineers was put into operation. In July a joint bureau of standards was organized, maintained by the manufacturers and the workers.

At a hearing in April, 1921, a scheme for continuity of employment in the industry was adopted by the board of referees, and became the first experiment of its kind in America. The board declared that the time had come to "break up one of the vicious features of seasonal industry by providing for as much continuity of employment as possible."

Under the plan adopted, all regular workers were guaranteed 41 weeks of employment during the year. If a worker failed to receive such employment he was entitled to two-thirds of his minimum weekly wage for every week during which he was unemployed. The employer's liability was limited to 7½ per cent of his direct labor cost for the guaranty period. To provide for the payment of incomplement barrefic each applications and applications are applied to the payment of the second secon unemployment benefits, each employer was to deposit each week a sum equal to 7½ per cent of his pay roll for the week. All the guaranty funds were placed in the custody of the impartial chairman.

With the adoption of this scheme the essential features of the Cleveland plan were complete. After six months' operation of the employment-guaranty plan it was said that in four plants the full 20 weeks' employment guaranteed was provided and the fund was returned to the employers. A number of establishments saved the greater part of their guaranty deposit. In four plants the entire fund was consumed and in two of these the fund was insufficient and a deficit was incurred.⁷⁰ According to the manufacturers' association-

The result of the plan has, without any doubt, been an increase of work in the shops. It is true that the work has often been increased at a loss to the employer and it is a question whether some manufac-turers would not rather take a loss through the employment fund. However, the incentive is direct and appending, and appears to be the only way in which the evil of unemployment can be eradicated or limited in this seasonal industry.⁷¹

The agreement was renewed in 1921, 1922, and 1923, but only after some friction and maneuvering and due to the patient efforts of the board of referees. In May, 1923, the workers were granted an increase in wages. But in December, 1923, the board reduced the obligations of the employers. The guaranteed period of employment was reduced to 40 weeks, and the compensation of the workers during the time of unemployment was reduced from two-thirds to one-half of the minimum weekly wage. Employers were to give a surety bond to the board of referees each week for an amount equal to 10 per cent of their direct labor pay roll. The worker was not to draw on the fund until he had accumulated the full 12 weeks of permissible unemployment, but during his lay-off he could work at snother job and still draw his unemployment pay. Each employer was permitted to employ once in each of the two seasons, for a period not exceeding four weeks, additional "casual" workers not to exceed 20 per cent of the workers in any department of his plant.

Also under the agreement going into effect on January 1, 1924, the joint board of standards was abolished and thus was admitted to have failed of its purpose. The failure was due to several causes, one of them being the personal element, in that the time-study men were young and inexperienced. In general, the workers felt that the standards were neither fair nor accurate and that the machinery was unduly influenced by the employers. Nevertheless, the idea of maintaining production standards under joint control of the workers and the employers still remained part of the working agreement in Cleveland.

As to the employment-guaranty feature of the Cleveland plan, Dr. Levine believes it has given the most satisfactory results.

This scholare was prompted by the two-fold purpose of making the industry partly responsible for the venforced killeness of the workers and of supplying an incentive to the employers to reduce seasonality of supplyonent. Both purposes have been achieved in marked measure. The employers have devised various ways of keeping their employees working to the fullest extent possible. They have increased their sales force, and have out garments shead of sales. They have added other lines of work and have accepted orders to be made us in idle time without any profit and at times even at a slight loss. * * The Cleveland garment market six years of unbroken speace. In the works of the board of referees, it has passed out of the period of experiment.

[&]quot; Levine, Lonis. The Women's Garmant Workers. B. W. Huebsch, Inc. New York. 1924. pp.

To Jack Bureau of Labor Statistics. Experience Under Employment Guaranty in Cleveland Garmant Industry. Monthly Labor Review. August, 1922, pp. 365-368.
 ³¹ Ibid., p. 388.

Still, its future depends on many uncertain factors, * * *. If the Cleveland market should continue to shrink in size and importance, it may soon not have a wide enough basis for the maintenance of the "plan". "

In considering what effect the operation of the Cleveland plan might have in reducing irregularity of employment as shown by the Ohio employment figures, it must be remembered that the number of wage earners who were directly or indirectly affected by the Cleveland plan was only about 3,000, while the total average number of wage earners in the industry reported to the Ohio Division of Labor Statistics was 6,091 in 1921, 5,671 in 1922, 5,883 in 1923, and 4,748 in 1924. The largest plant in Cleveland did not sign the agreement. The number of workers employed by the 28 firms that signed the agreement with the union in 1919 was about 3,000, but this decreased to about 2,000 between 1919 and 1924.⁷⁴

In spite of the fact that the agreement under the Cleveland plan covered around 45 per cent of the workers reported by the Ohio employment figures, the curves of employment do not show that the seasonal trend in the industry was very greatly diminished.

In 1914 there were two periods of depression, during which the number of wage earners was reduced 10.9 and 21.9 points, respectively, below the average of that year, while the peak of employment in February was 16.4 points above the yearly average and in August it was 7.8 points above that figure.

During 1921, 1922, 1923, and 1924 such peaks and depressions were somewhat lessened but not eliminated. By 1924 the numbers for the times of greatest employment were increased only 12.6 and 2.8 points above the average for the year, while for the slack periods the numbers declined 6 and 17.6 points below such average.

The following tabulation shows, for the two periods of greatest and least employment, the deviation from the average for the year.

High and low employment in women's clothing

1918 1921 1914 1915 and 1917 1918 1910 1920 1922 1922 1924 107. 4 107. 1 91. 0 107. 8 116.7 98.3 108.8 94.0 104.8 112.6 94.0 102.9 116.4 0000 99.6 106.6 101.8 106. 9 101. 5 90.5 110.4 89.1 107.8 97. 1 108. 1 100.5 109.6 106.5 88.1 88.3 96.5 7L 0 83.9 92.0 82.4 82.4 78.1

[Average for the year equals 100]

¹ Figures not available.

It is evident from this tabulation that more detailed employment figures would be needed if the exact effect of this agreement were to be measured. In spite of the fact that the majority of workers affected by this agreement were men, and although the Ohio employment figures show a considerable degree of seasonal fluctuation, the curves indicate a great similarity in the seasonal trends for the two seres. From this standpoint the total figures seem to give a very reliable indication of the trend for each sex.

But the total figures do not indicate a conspicuous change that had come about in the employment of women in this industry. In Ohio, from 1914 to 1924, the proportion of women employed in the women's clothing industry showed a distinct tendency to increase. The average proportion of women in 1924 was 73.4 per cent, 11.6 points higher than the proportion in 1914, which was 61.8 per cent. An increase was recorded in each year of the series (1916 and 1917 not being reported) except 1920 and 1924.

There is no evidence that the war and the drafting of men was responsible for any of the increase in the proportion of woman labor. As already stated, figures for 1916 and 1917 are lacking, but in 1918, the year in which the greatest substitution of women for men in factories took place, the proportion of women was very little higher than in 1915. In 1918 the average for women was 67.4 per cent of the total, only nine-tenths of a point higher than in 1915, three years previous.

* Levine, Louis. The Wamen's Garmant Warkers. B. W. Huebech Inc., New York, 1924, pp. 572-180.

ⁿ Ibid., p. **174**.

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This was not so large an increase as was usually shown from year to year throughout the rest of the period. And 1919, the year of demobilization and the return of men to industry, showed an increase of 1.8 points over 1918 in the percentage of women employed. Furthermore, the average number of both men and women workers was lower in 1918 than in 1915. It may be concluded that war conditions caused no increase in the proportion of women employed in the industry and may even have contributed to the decline in their actual numbers, although a decline in number of workers was a continuing tendency in the women's clothing trade. This conclusion is in harmony with the recognized fact that the trend of woman labor during the war was away from the older food and fabric industries to the newer war-implement industries. During the first part of the period under discussion, from 1914 to 1920, the

During the first part of the period under discussion, from 1914 to 1920, the percentage of women employed in the manufacture of women's clothing was lower than the percentage in the manufacture of men's clothing. But, with the tendencies noted for women wage earners to increase proportionately in the women's clothing industry and to remain at a more or less fixed proportion in the men's clothing industry, the average proportion of women employed became very nearly identical for the two industries in 1921: It was 71 per cent for women's clothing and 71.2 per cent for men's clothing. After that, from 1922 to 1924, with the same tendencies continuing, a higher percentage of women were engaged in the making of women's clothing than of men's.

An explanation that may account for the lower proportion of women in women's clothing during the earlier years of the period is that the making of men's garments was more fully standardized and subject to fewer changes than the making of women's garments, with the result that more women could be used to advantage; and that styles in women's garments were more changeable and their manufacture not so routine in nature, with the result that fewer women could be used than in the older and more stable branch of the work.⁷⁴ The increased proportion from 1922 to 1924 of women engaged in making women's clothing is believed to be largely due to a trend toward the making of lower priced garments in Ohio, lower priced garments allowing greater standardization.

lower priced garments allowing greater standardization. Although the long-term trend for the men and women seems to have been slightly different, resulting in an increased employment of women in the later years, there is only one time during the entire period when the trends for the two sexes appear very different. This was during the last part of 1920, when women's employment decreased more rapidly, and then in the first half of 1921 women increased more rapidly and did not experience the seasonal depression that occurred for men. Obviously this was the result of the business depression that occurred during those years. This depression apparently affected the women'sclothing industry a few weeks earlier than the men's clothing industry, but the more rapid decline of women was typical of both. In the recovery from the depression the women's curve quickly resumed its normal position in relation to the men's in both industries.

On the whole, although no very extensive deviations from the total curve occurred for either sex, differences in trend were somewhat more marked in women's than in men's clothing and very much more marked than in all textile manufacturing.

Hoslery and knit goods.

A third group of industries classified as textiles in which women form a very important proportion of the wage earners is the manufacture of hosiery and knit goods. Only two of the industrial groups for which the Ohio employment figures were secured (cloth gloves and cigars and cigarettes) showed a proportion of women wage earners larger than the 76.6 per cent they formed of the wage earners in hosiery and knit goods.

In this industry, the curve of the total wage earners follows more closely the trend for women than the trend for men. In fact, the curve for the total can be considered to be accurately representative of the trends and fluctuations of women's employment throughout the 11-year period. This is due, of course, to the great numerical superiority of women among the wage earners. The men's curve does not deviate very greatly from the curve for the total but shows certain minor differences.

Periods of depression apparently hit men's employment somewhat less severely than they did women's. This is probably because, in this industry, many of the men's occupations might be classed almost as part of the "overhead." In

M Bryner, Edna. The Garment Trades. Survey Committee of the Cieveland Foundation. Cleveland, Ohio, 1916. p. 19.

periods of depression work usually can be reduced easily by laying off the women, but the men, being already employed practically to the minimum extent, can not be let out without a greater dislocation of the plant.

Women constituted the major part of the working force, but in all the years since 1914 they formed a slightly smaller percentage of the total than they did in that year. In 1914 women were 80.8 per cent of all workers, on the average, while in 1924, 76.6 per cent of the employees were women. This probably is due to the increased employment of men on full-fashioned knitting machines.

Cloth gloves.

Of the industries studied under the textile classification, the group that employed the largest proportion of women in 1924 (86.5 per cent) was the manufacture of cloth gloves. Although the number of women employed was not very large (2,017 was the average for 1924), in no other industrial group for which figures were obtained was there so great a proportion of women among the wage earners. This industrial group, therefore, offers a conspicuous example of the validity of total employment figures as an indication of trends for women when women are in the majority among the employees. It is evident from a study of the employment curves for the seven years (from 1918) for which figures were obtainable, that the curve for the total number of wage earners is almost identical with that for the women only. The curves showing the fluctuations within each year indicate even more strongly than in the manufacture of hosiery that women's employment is more sensitive than men's. Apparently women are taken on more rapidly during periods of rising employment and laid off more rapidly when employment is decreasing. This probably is due—also as in hosiery manu-facturing—to the fact that this is a woman's industry and men are employed to a minimum extent at all times, so that reductions in the staff of men are not made so easily as are reductions in the women's end of the work. During the entire 7-year period, apparently, there has been little permanent change in the relative importance of the two sexes, although during the period of rising employment in 1919 and 1920 the men's index increased slightly more than the women's, and in 1922 and 1923 the increases for the men lagged a little behind those of the women. On the whole, however, the developments were very simi-lar for men and women. Unfortunately, the figures for this industry were not procurable before 1918, so the effect of the war on the relative trends of the two sexes can not be estimated. The effect of the depression of 1920-21, however, is indicated in the curves. Apparently this depression hit cloth glove manufacturing a few months later than hosiery, and more than half a year later than the manufacture of women's clothing. In fact, the beginning of the depression in the manufacture of cloth gloves coincides more nearly with the depression in iron and steel manufacturing than with the other textile groups for which figures were secured. The fact that cloth gloves are work gloves, used by trainmen and men in various forms of heavy manual work, explains this similarity in trend between the manufacture of cloth gloves and that of iron and steel.