61st 2d	Congression	^{ss} }

SENATE

DOCUMENT

REPORT ON CONDITION

OF

WOMAN AND CHILD WAGE-EARNERS IN THE UNITED STATES

IN 19 VOLUMES

VOLUME IX: HISTORY OF WOMEN IN INDUSTRY IN THE UNITED STATES

Prepared under the direction of CHAS. P. NEILL Commissioner of Labor by

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WASHINGTON GOVERNMENT PRINTING OFFICE 1910

IN THE SENATE OF THE UNITED STATES,

June 15, 1910.

Resolved, That the complete report on the condition of woman and child wage-earners in the United States, transmitted and to be transmitted by the Secretary of Commerce and Labor in response to the act approved January twenty-ninth, nineteen hundred and seven, mittigh "An act to authorize the Secretary of Commerce and Labor to report upon the industrial, social, moral, educational, and physical condition of woman and child workers in the United States," be printed as a public document.

CHARLES G. BENNETT, Secretary.

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LETTERS OF TRANSMITTAL.

DEPARTMENT OF COMMERCE AND LABOR, OFFICE OF THE SECRETARY, Washington, November 23, 1910.

SIR: In partial compliance with the Senate resolution of May 25, 1910, I beg to transmit herewith a report on the history of women in industry in the United States.

This report is the ninth section available for transmission of the larger report on the investigation carried on in accordance with the act of Congress approved January 29, 1907, which provided "that the Scortary of Commerce and Labor be, and he is hereby, authorized and directed to investigate and report on the industrial, social, moral, educational, and physical condition of woman and child workers in the United States wherever employed, with special reference to their age, hours of labor, term of employment, health, illiterary, sanitary and other conditions surrounding their occupation, and the means employed for the protection of their health, person, and morals."

The remaining sections of the general report are being completed as rapidly as possible and will each be transmitted at the earliest practicable moment.

Respectfully,

BENJ. S. CABLE, Acting Secretary.

HOR. JAMES S. SHERMAN,

President of the Senate, Washington, D. O.

DEPARTMENT OF COMMERCE AND LABOR, BUREAU OF LABOR,

Washington, November 23, 1910.

Stre: I beg to transmit herowith Volume IX of the report on woman and child wage-carners in the United States which relates to the history of women in industry in the United States. This is the ninth section transmitted of the report of the general investigation into the condition of woman and child workers in the United States, carried on in compliance with the act of Congress approved January 20, 1007.

The preparation of this study is the work of Miss Helen L. Sumner. The work has been carried on under the direction of Chas. II, Verrill.

I am, very respectfully,

G. W. W. HANGER, Acting Commissioner.

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The SECRETARY OF COMMERCE AND LABOR, Washington, D. C.

CHAPTER L

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INTRODUCTION AND SUMMARY.

CHAPTER L.

INTRODUCTION AND SUMMARY.

The listory of women in industry in the United States is the story of a great industrial readjustment, which has not only carried woman's work from the home to the factory, but has changed its economic character from unpaid production for home consumption to gainful employment in the manufacture of articles for sale. Women have always worked, and their work has probably always been quite as important a factor in the total economy of society as it is to-day. But during the insteemth century a transformation occurred in their economic position and in the character and conditions of their work. Their unpaid services have been transformed into paid services, their work has been removed from the home to the factory and workshop, their range of possible employment has been increased at at the same time their monopoly of their traditional occupations has been destroyed. The individuality of their work has been lost in a standardized product.

The story of woman's work in gainful employments is a story of constant changes or shiftings of work and workshop, accompanied by long hours, low wages, insuitary conditions, overwork, and the want on the part of the woman of training, skill, and vital interest in her work. It is a story of monotonous machine halor, of division and subdivision of tasks until the woman, like the traditional failor who is called the ninth part of a man, is merely a fraction, and that rarely as much even as a toult part, of an artisan. It is a story, moreover, of underbidding, of strike breaking, of the lowering of standards for men breadwinners.

In certain industries and certain localities women's unions have raised the standard of wages. The opening of industrial schools and business colleges, too, though affecting almost exclusively the occupations entered by the daughters of middle-class families who have only recently begun to pass from home work to the industrial field, has at least enabled these few girls to keep from further swelling the vast numbers of the unskilled. The veil of long hours and in constant cases other conditions which lead to overstrain, such as the constant standing of aslessomen, have been made the subject of legislation. The decrease of strain due to shorter hours has, however, been in part multified by increased speed of machinery and dher

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devices designed to obtain the greatest possible amount of labor from each woman. Nevertheless, the history of womar's work in this country shows that legislation has been the only force which has improved the working conditions of any largo number of women wage-earners. Aside from the little improvement that has been effected in the lot of working women, the most surprising fact brought out in this study is the long period of time through which large numbers of women have worked under conditions which have involved not only great hardships to themselves but shocking waste to the community.

CHANGES IN OCCUPATIONS OF WOMEN.

The transfer of women from nonwage-earning home work to gainful occupations is evident to the most superficial observer, and it is well known that most of this transfer has been effected since the beginning of the nineteenth century. In 1870 it was found that 14.7 per cent of the female population 16 years of age and over were breadwinners, and by 1900 the percentage was 20.6 per cent. During the period for which statistics exist, moreover, the movement toward the increased employment of women in gainful pursuits was clear and distinct in all sections of the country " and was even more marked among the native-born than among the foreign-born.* It must be borne in mind, however, that even in colonial days there were many women who worked for wages, especially at spinning, weaving, the sewing trades, and domestic service. Many women, too, carried on business on their own account in the textile and sewing trades and also in such industries as the making of blackberry brandy. The wage labor of women is as old as the country itself and has merely increased in importance. The amount, however, of unremunerated home work performed by women must still be considerably larger than the amount of gainful labor, for even in 1900 only about one-fifth of the women 16 years of age and over were breadwinners.

Along with the decrease in the importance of unremunerated home labor and the increase in the importance of wage labor has gone a considerable amount of shifting of occupations. Under the old domestic system the work of the woman was to spin, to do a large part of the weaving, to saw, to knifti in general, to make most of the clothing worn by the family, to embroider tapestry in the days and regions where there was time for art, to cook, to hore wal as and wine, to clean, and to perform the other duties of the domesite servant. These things women have always done. But machines have now come in to aid

[&]quot;See Table I, p. 245.

^b See Table II, p. 245. Table III (p. 2/5) also shows that the proportion of married, as woll as of single, widowed, and divorced women at work is increasing.

CHAPTER L-INTRODUCTION AND SUMMARY.

in all these industrice—machines which in some cases have brought in their train men operatives and in other cases have enormously increased the productive power of the individual and have made it necessary for many women, who under the old régime, like Priscilla, would have calarly set by the window spinning, to hunt other work. One kind of spinning is now done by men only. Mon tailors make overy year thousands of women's suits. Mon dressmakers and even milliners are common. Men make our bread and brew our ale and do much of the work of the steam laundry where our clothes are washed. Recently, too, men have learned to clean our houses by the vacuum process.

Before the introduction of spinning machinery and the sewing machine the supply of female labor appears nover to have been excessive. But the spinning jenny threw out of employment thousands of "spinsters," who were obliged to resort to sewing as the only other occupation to which they were in any way trained. This accounts for the terrible pressure in the clothing trades during the early decades of the nineteenth century. Later on, before any readjustment of women's work had been effected, the sewing machine was introduced, which enormously increased the pressure of competition among women workers. Shortly after the substitution of machinery for the spinning wheel the women of certain localities in Massachusetts found an outlet in binding shoes-an opportunity opened to them by the division of labor and by the development of the readymade trade. But when the sewing machine was introduced this field, at least for a time, was again contracted. Under this pressure, combined with the rapid development of wholesale industry and division of labor, women have been pressed into other industries, almost invariably in the first instance into the least skilled and most poorly paid occupations. This has gone on until there is now scarcely an industry which does not employ women. Thus woman's sphere has expanded, and its former boundaries can now be determined only by observing the degree of popular condemnation which follows their employment in particular industries.

ATTITUDE OF THE PUBLIC TOWARD THE EMPLOYMENT OF WOMEN.

The attitude of the public toward the employment of women has, indeed, made their progress into gainful occupations slow and difficult, and has greatly aggravated the adjustment pains which the industrial revolution has forced upon woman as compared with these of man, whose traditional sphere is bounded only by the humanly possiblo. This attitude has, moreover, been an important factor in determining the woman's choice of occupations.

The proper sphere of woman has long been a subject of discussion, At least as early as 1820 opinions upon the subject were divided along practically the same lines as to-day. A writer in the Boston

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Courier asserted, from the radical viewpoint, that women should have their full share of the labor of the world and should be adequately rewarded. He commented upon the fact that "powerful necessity is rapidly breaking down ancient barriers, and woman is fast encroaching, if the assumption of a right may be deemed an encroachment, upon the exclusive dominion of man." "Custom and long habit." he said, "have closed the doors of very many employments against the industry and perseverance of woman. She has been taught to deem so many occupations masculine, and made only for men, that excluded, by a mistaken deference to the world's opinion, from innumerable labors, most happily adapted to her physical constitution, the competition for the few places left open to her has occasioned a reduction in the estimated value of her labor, until it has fallen below the minimum, and is no longer adequate to present comfortable subsistence, much less to the necessary provision against age and infirmity or the everyday contingencies of mortality,"a In 1830 the same paper asserted that "the times are out of joint" because "the women are assuming the prerogatives and employments which, from immemorial time, have been considered the attributes and duties of the other sex," and suggested that soon "our sons must be educated and prepare to obtain a livelihood in those dignified and more masculine professions of scamstresses, milliners, cooks, wet nurses, and chambermaids."b

The National Trades' Union was decidedly opposed to the employment of women in industry, and one of its leadors, William English, in'a Fourth-of-July oration before the Philadelphin Trades' Union, hoped that the time might scon come 'when our wives, no lenger donned to servil labor, will be the companions of our fireside and the instructors of our children; and our daughten; reared to virtue and usefulwase, baccome the sealese of our declining years.'' He did not consider it possible for women to ''recede from labor all at once.'' but urged tabor now performed will suffice to live upon. * * * And the less you do,'' he added, 'the more there will be for the runs to do, and the botter they will be paid for doing it, and ultimately, you will be what you ought to be, free from the performance of that kind of labor which was designed for man alone to perform.''

Again in 1866 the Daily Evening Voice complained that, though women rejoice in men's successe, they themselves receive from men "cold justice, perhaps, but no enthusiam". ""Thus isolated," said the Voice, "she labors under a disadvantage. It is poor work to acceed under the frown and cold shoulder of halt the oreation."⁴

a Boston Courier, July 13, 1829.

⁴ Idem, August 25, 1830.

[&]quot;Radical Reformer and Workingman's Advocate, Philadelphia, August 1, 1835.

d Daily Evening Voice, Boston, January 27, 1866. This was a labor paper.

Against this hardening force of tradition have worked, however, two other great forces, the need of women for renumerative employment and the need of employers for cheap labor. And hand in hand with these two forces have come vast improvements in machinery, in motive power, and in division of labor, as well as other historical changes, such as wars, industrial depressions, and the growth of trade unions with their accompaniment of strikes.

CAUSES OF THE ENTRANCE OF WOMEN INTO INDUSTRY.

Complaints of machinery as a means of bringing women and children into industry were not lacking in the early labor press. This point was repeatedly urged, illustrated mainly by English examples, by the writer of a series of articles on "Labor-saving machinery" in the Mechanics' Free Press in 1829. Speaking of Philadelphia, he said: "Look at some of our city machinery-young girls are earning a scanty pittance, by standing many hours in a day attending the monotonous motion, till their faculties of body and mind are in a fair way of being benumbed." His chief complaint was against child labor, but he asserted that "so far, the effect of machinery has been to impose burdens on sex and age, not necessary in former periods." What became of "the adult workmen who were heretofore engaged in the fabrication of staples, now fabricated by women and children" was, he said, "a gloomy picture, though we are forced to admit that they are not necessarily thrown out of all employment."a

Machinery, combined with division of labor and the substitution of water, steam, and electric power for human muscles, has cortainly made it possible to employ the unskilled labor of women in occupations formerly carried on wholly by men. Machinery, however, has as yet affected only slightly the broad lines of division between woman's work and man's work. And especially upon its first introduction the sex of the employees is rarely at once changed to any considerable extent. Thus when spinning machinery was first introduced women and children were employed to operate it. Later women became the power-loom weavers. The sewing machine, too, has always been operated largely by women. On the other hand, most of the machinery of the iron and steel industry is operated by men. In watchmaking, to be sure, formerly man's work, a large part of the machinery is now managed by women. But division of labor, itself made possible by the machinery, is probably the primary cause of the introduction of women into the manufacture of watches.

Division of labor, indeed, which has always accompanied and frequently preceded machinery, is probably even more responsible

^a Mechanics' Free Press, Philadelphia, November 7, 1829. This was the first labor paper published in the United States.

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than the latter for the introduction of women into new occupations. The most stricting aingle tendency in manufacturing industries has been toward the division and the subdivision of processes, thereby making possible he use of voman's work, as well as of unkilled man's work, in larger proportion to that of skilled operatives. A more recent tendency toward the combination of several machines into one has even been checked, in some cases, because a competent machinist would have to be hired. Unless the advantage of the complicated mechanism is very great, in many industries simpler machines: would can be assistive run by women, is preferred.

As a result, both of machinery and of division of labor, the sotual occupations of women, within industries, do not differ so widely as do the occupations of men within the same industries. If frequently happens, indeed, that the work of a woman in one industry is almost precisely the same as that of another woman in an entirely different industry.

Other historical forces have brought about changes in the occupations of women. Often, especially in the printing trades and in eight making, women have been introduced as strike breakers. On the other hand trade unions have in some places been strong enough to prevent the introduction of women in industries to which they were wall adapted. Usually, however, this has been only for a short berief.

The energies of labor supply in particular places or at particular times has often been responsible for the use of women's work. Thus during the sorly years of the Republic the employment of women in manufacturing industries was doubtless greatly accelerated by the scarcity and high price of other labor. This, too, was doubtless largely responsible for the fact that, in the sarly years of the cotton influstry, a larger proportion of women was employed in the cotton mills of Massachusatts and New Hampshire than in those of Rhode Island, New Jersey, and Pennsylvania. One of the remedies frequently women sufficient was that "the excess of spinsters" should be transported to the places where "there is a deficiency of women, "a

The Givil War was another force which not only drove into grainful compations a large number of women, but compelled many changes in their amployments. In 1889 it was estimated that there were 25,000 working women in Boston who had been forced by the war to earn their living.³ The war, too, caused a large number of conton factories to shut down, and thousands of women thus thrown out of employment were obliged to ease Atlance occupations.

Similar to war in its influence, and in some ways more direful, has been the influence of industrial depressions. The industrial

⁴ Poulson's American Daily Advertiser. Philadelphia, January 4, 1832, and New York Daily Tribune, March 7, 1845.

^b Workingman's Advocate, Chicago and Cincinnati, May 8, 1869.

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depression which began in 1837, for example, temporarily destroyed the newly-arise wholeade clothing manufacture, and caused untold hardships to the tailoresses and sexanstresses of New York and Philadelphis. These women turned, naturally, to any occupation in which it was possible for them to engage. Industrial depressions, too, like war, have taken away from thousands of women the support of the men upon whom they were dependent and have forced them to enatch at any occupation which promised them a plitance.

EXPANSION OF WOMAN'S SPHERE.

As a result of these factors and forces and in many cases of others less general in their operation, worman's sphero of employment has been greatly expanded during the past hundred years. The number of occupations open to women during the early part of the nineteenth century has, however, been greatly underestimated. Harriet Martineau in 1836 mentioned eight occupations as open to women in this country-teaching, needlowork, keeping boarders, work in mills, show binding, typesetting, bookbinding, and domestic service. But in the same year the committee of the National Trades' Union, which was appointed to inquire into the evils of female labor, reported that in the New England states, "printing, saddling, brush making, tailoring, whip making, and many other trades are in a certain measure governed by formales," and added that of the 58 socioites composing the Trades' Union of Philadelphia 24 were "seriously affected by female labor."

As early as 1820, indeed, women were employed in at least 76 different kinds of marufacturing establishments¹, and in 1823 women employees wore found in about 20 other industries.⁴ The consus of 1850, moreover, enumerated nearly 175 different industries in which women were employed. In 1864, among the 6,422 women applicants for employment to the New York Working Women's Protective Union, there were representatives of 50 different trades or occupations.⁴ And in 1867 this union reported that "during the three years of our active operations, we have been the means of introducing 30 females into seven branches of labor of a mechanical tharneter not generally occupied by them.¹⁴ In New York Gity in 1870

» Documents Relative to the Manufactures of the United States. Executive Documents, Twenty-second Congress, first session, Vols. I and II.

4 Daily Evening Voice, December 15, 1864.

* Daily Evening Voice, March 2, 1867. This organization appears not to have furnished domestic servants. (Daily Evening Voice, May 20, 1865.)

49450°-S. Doc. 645, 61-2-vol 9-2

a National Laborer, Philadelphia, November 12, 1836. Abbott, Women in Industry, p. 66, estimated, after a study of three reports belonging to the period from 1820 to 1840, that at least 100 occupations were open to women at that time. Reprinted in Documentary History of American Industrial Society, Vol. VI, p. 285.

^b American State Papers, Finance, Vol. IV, pp. 29-223. (Statistics of manufacturing industries collected by the census of 1820.)

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there were said to be some 75 employments at which women worked.² The next year, 1871, the Revolution called attention to the need for a labor exchange for women in New York who were engaged in other compations than housework--those employed in composing rooms, bookbinderies, ormanental-china settablishments, places where settificial flowers were made, etc.³

During the period for which statistics on the subject are available, the proportion of all the gainfully employed women engaged in "agricultural pursuits"¹⁴ decreased from 21.6 per cent in 1870 to 18.4 per cent in 1000, and the proportion engaged in "dimensional dependent service" decreased from 65.1 per cest in 1870, or 44.6 per cent in 1880, to 39.4 per cent in 1900. "At the same time the proportion engaged in "professional service" increased from 6.7 per cent in 1880 to 8.1 per cent in 1900, the proportion engaged in "manufacturing and mechanical pursuits" increased from 6.9 per cent in 1870 to 24.7 per cent in 1900, and the proportion engaged in "trade and transportation" increased from 19.0 4 per cent in 1870 to 9.4 per cent 1000.

The importance of agriculture and of "domestic and personal service" has evidently decreased, while the importance of "manufacturing and mechanical pursuits," "trade and transportation," and "professional service" since 1880, when this division was first induced, has increased. Two other facts, however, are noticeable—first, that the importance of the group "manufacturing and decreased since 1890; and, second, that the most pronounced increase has been in the group "trade and transportation," in which only 1 per cent in 1870 and nearly 10 per cent in 1900 of the women breadwinces were employed. In general the movement has been the same among the native and the foreign born/ and much the same among the married as among the single wome."

⁴ American Workman, Boston, August 20, 1870. The Woman's Journal, Boston and Chicago, February 25, 1870. Quoted from the New York Evening Post.

^b The Revolution, New York, January 12, 1871. This was the organ of the woman suffrage movement.

• Agricultural pursuits and professional service are not considered as part of this tudy accept for their indirect influence on womain's work in other occupations. Nevertheless it is of instrove is not the employment of German woman in harvoat work in nothern Hindes and Wascomia, at it a day, records in the New York Weekly in Minna Advance in the employment of the Mexico and the employment of the New York Weekly in Minna Advance and the employment of the New York Weekly in Minna Advance and the employment is the New York Weekly in Minna Advance and the New York Weekly and the New York New York Weekly and the New York New York Weekly and the New York New Yo

"d'The group "professional service" was included in "domestic and personal service" in 1870, thus affecting comparisons of the latter group. See Table 1V, p. 248.

 See Table IV, p. 246. It will be observed that these figures refer to females 10 years of age and over, while in the provious tables only women 15 or 10 years of age and over are included.

/ See Tables V and VI, pp. 246 and 247.

ø See Table VII, p. 248.

For manufacturing industries the statistics of the employment of women date heak to 1350, and for special industries, such as colton manufacture, or single States, as Massachusta, oren sarlier.² In 1550 and 1560 the consus of manufactures contained figures for "male employees" and "fomale employees," scording to which 23.3 per cent in 1850 and 20.7 per cent in 1860 of all the employees in manufacturing industries were fomales of all ages. The age distinction was added in 1870 and in that year it appeared that women 16 years of age and over constituted 15.5 per cent, and again increasing in 1900 to the same figure as in 1880, 19.5 per cent, and again increasing in 1900 to the same figure as in 1880, 19.5 per cent, and again increasing in 1900 to the same figure as in 1880, 19.5 per cent, and again increasing in 1900 to the same figure as in 1880, 19.5 per cent, and again which were included in other censues.²

When, however, the occupations in which women are engaged are considered with reference to the relative number of women amployed in each, at different periods, it is evident that the vast majority of working women have remained within the limits of their traditional field. Table IX, which is a summary for various groups of manufacturing industries, shows that in every consult era considerably more

As early indeed, as 1860 the census of manufactures collected figures in regard to the employment of men, warmen, and hoys and girls, but its results were ovidently unclocasidered of sufficient value to worth a summary. Rouphly speaking, it was found that about 10 per cent were oblysed in masulatorizing industries were wormen and shout 24 per cent were oblysed and fight but it was not stated what were this ages of the latter. (American State Papers, Finance, Vol. IV, pp. 29-223, 291-297).

• Even by adding all the children this proportion little more than equals that given for 1860 and does not equal that given for 1850. This is, however, the first year for which the statistics may be considered as fairly trustworthy.

Coe also Table VIII, p. 249, for an analysis of the employment of women in manufacturing industries by geographical divisions.

This industries are grouped in Table IX as textile industries, clathing industries, tools and kinded products, liques and bowenges, and other manufacturing industries, including tobacce and clarst, paper and printing, iros and steel, etc. As far as possible the groups, as given in the "Weith Conseau Globy), have been used, but the creases agrees?" "exciting" has been divided, the various branches of clathing manufacture basing fails can be also spin coulders with "blocks and shows" "from the dividing much basing fails can be also spin coulders with "blocks and shows" from the dividing collisions infomation," a naw group, "clothing industries." See the footnoises to Table X to . 200

The figures for 1850 and 1860 refer to all "formals hands," regardless of age; those for 3380, 1860, and 1870 have been promoted by the substrand muthors for 1066 were collected upon a semanwhat different basis than previously used, the principal difference being the omission in 310% of the land intrades. Per theme and other reasons the figures are only coughly comparable. Physical and the distribution of the second second intervence in the second second second second second second second to black.

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than half of all the women employed in manufacturing industries have been in the first two groups, textlie and oluthing industries. These industries and also, in large part at least, those included in the group "food and kindred products" and "liquors and beverages" have as household industries been theirs from time immemorial. But women have been driven, by the industrial forces alreidy in part analyzed, into many occupations formerly considered as bolonging exclusively to man's sphere. Thus, in the manufacture of tobacco and eigars in 1850, 13.9 per cent, and in 1906, 41.6 per cent, of all the employees were women, and in the manufacture of "metals and metal products other than iron and steel" the propertion of women has increased during the same period from 3.6 per cent 0.13.6 per cent.

It is avident that, on the whole, there has been a certain expansion of woman's sphere--a decrease in the proportion employed in certain traditional occupations, such as "sexrants and waitresses," "asamstresses," and "toxtile workers," but an increase in the proportion supployed in most other industries, many of them not originally considered as within woman's domain. There has been, for instance, an increase in the proportion of women engaged as "bookkeepers and accountants," as "subsewmen," as "stenographers and typewriters," and in "other manufacturing and mechanical pursuits," and this movement has affected, roughly speaking, all elements, according to nativity or conjugal condition, of the population of working women-

HISTORY OF LABOR CONDITIONS.

The history of the conditions under which women have worked in this country is a history of the relative importance of wags labor in the home and in the factory, of sanitary and other health-affecting conditions, of hours, of wages, of the effect of the employment of women upon men's work, and wages, of the relation of charity to woman's work, and of the industrial education and efficiency of women.

HOME AND FACTORY WORK.

In general, it may be said that during the past contury the amount of home work of women for pay has steadily decreased and the amount of factory work has steadily increased. The shoe binders, who hom so large in the Massachusetta industrial census of 1837, were almost all home workers, but the women engaged in hoot and shoe making to-day are nearly all working in factories. In the sewing trades, though the change has not been so complete, a similar movement from the home to the workshop and factory and the seving trades, though the change has not been so complete,

See Table IX, p. 250.

has been going on. Home workers have become sweat-shop workers and sweat-shop workers are gradually becoming factory workers. So long ago as now to be almost forgotien a similar transformation took place in the textile industries. Indeed, this is the general turing industries. Independent domestic production has practically become a thing of the past.⁹ But the history of woman's work shows that their wage labor under the domestic arystem has dfean been under worse conflictions than their wage labor under the factory system. The hours of home workers have been longer, their wages lower, and the sanitary conditions aurrounding them more unvholesome than has generally been the case with factory workers. The movement away from home work can hardly, then, be regretted.

. GENERAL CONDITIONS OF LIFE AND LABOR.

The conditions under which the working women of this country have toiled have long made them the object of commiseration. Mathew Carey devoided a large part of the last years of his life, from 1828 to 1839, to agitation in their behalf. Again and again he pointed out in newspaper articles, pampholes, and speeches that the wages of working women in New York, Philadolphia, Baltimore, and Boston were utterly insufficient for their support; that their food and lodging were miserably poor and unwholesome; and thus the bays were obliged to work were almost beyond human endurance.

In a letter in regard to the strike of the women shoe binders in Philadelphia in 1836, he declared, for instance, that he was convineed that many of the working women of Philadelphia were so inadequately paid that their wages, if they had children, ayou when fully employed, were "harely sufficient to procure them a scant supply of the very commonest food and raiment; that they are frequently very partially employed, and sometimes wholly unemployed, particularly in the dreary season of winter; and that in such cases they suffice intense distress, and are actually reduced to a state of pauperism."⁴

As hat, however, as 1856 the Census of New York Statis, pp. 411–414, reported upder "miscellances manafacturing industries" in the following articles which must have been made in part by women: One humdred and lorg-one blankets, 368 pairs of compete, 31,867 parts of careport, 31,867 parts of market, 368 pairs of sock, 31,868 pairs of sock, 31,868 pairs of sock, 31,868 pairs of sock, 32,869 pairs of sock and mittens, 32,867 pairs of sock, 31,868 pairs of sock, 31,868 pairs of sock, 31,868 pairs of sock and mittens, 32,861 pairs of sock and mittens of hubber you no, ato.

b Pennsylvanian, Philadelphia, May 2, 1836. The Pennsylvanian was not a labor paper, but sympathized with the labor movement.

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In 1845 an investigation of "female labor" in New York, used as the basis of a series of articles in the New York Tribune, devaloped "a most deplorable degree of servitude, privation, and misery among this halpless and dependent class of people," including "hundreds and thousands" of abso binders, type rubbers, artificialflower makers, match-box makers, straw braiders, etc., who "drudge on in miserably cooped-up, liberabitized lass and garrests, pinning away, heartbroken, in want, disease, and wretchedness." • Said the Tribune:*

In addition to the constant supply to the ranks of these classes furnished by the poor population of our city, poor girls continually flock to the city from every part of the country, either because their friends are dead and they have no home, or because they have certain vague dreams of the charms of city life. Arriving here, they soon find how bitterly they have deceived themselves, and how rashly they have entered a condition where it is almost impossible for them to subsist, and where want and starvation are their only companions. They have been educated and reared in such a manner as to render the idea of servitude quite unendurable, and their only resort is the needle or some similar employment. Here they find the demand for work greatly oversupplied, and competition so keen that they are at the mercy of employers, and are obliged to snatch at the privilege of working on any terms. They find that by working from 15 to 18 hours a day they can not possibly earn more than from \$1 to \$3 a week, and this, deducting the time they are out of employment every year, will barely serve to furnish them the scantiest and poorest food, which, from its monotony and its unhealthy quality, induces disgust, loathing, and disease. They have thus absolutely nuching left for clothes, recreation, sickness, books, or intellectual improvement, and the buoyancy and exquisite animality of youth become a slow torturing fever from which death is a too-welcome. relief. Their frames are bent by incessant and stooping toil, their health destroyed by want of rest and proper exercise, and their minds as effectually stanted, brutalized, and destroyed over their monotonous tasks as if they were doomed to count the bricks in a prison wall-for what is life to them but a fearful and endless imprisonment, with all its horrors and privations ?

Again in 1800 the working women of Boston, in a putition to the Masachusetal legislature for the establishment of "garden homesteads" for their class, assorted that they were insufficiently paid, annilly clothed, poorly fed, and badly ledged, that their physical health, if not already undermined by long hours and had conditions of work, was rapidly becoming so, and that their moral natures were heing undermined by lack proper society and by their inability to attend church on account of the want of proper clothing and the necessity, being constantly coempied throughout the week, "to bring

[&]quot; Voice of Industry, Fitchburg and Lowell, Mass., August 28, 1845. This was the organ of the factory operatives.

⁴ New York Daily Tribuno, August 19, 1845,

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up the arrears of our household duties by working on the Lord's Day." •

HOURS OF LABOR.

Hours, however, except for home workers, have been reduced by legislation. In the early part of the mineteenth century from 12 to 13 hours a day was common, and it is safe to say that 12 hours was about the average day's work in factories. Gradually, through legislation, these hours have been reduced to perhaps neare 10 a day. The change, too, from home to factory labor has tended to reduce hours, for women home workers have always lived up to the old adage that "woman's work is never done."

WAGES AND UNEMPLOYMENT.

The low wages paid to women and the inequality of men's and women's wages have always been the chief causes of complaint. The National Laborer estimated in 1836 that "the compensation of a female for her labor, in every branch of business, does not average 374 cents a day."* Twenty-five cents a day was the wage of thousands of sowing women at this time. The New York Journal of Commerce, however, asserted that at the beginning of the centry " 30 cents a week was a common price for founds labor and 50 cents them was for their use not worth as much as 25 cents now."* I 1846 the New York Tribune estimated that of the 50,000 working women in factories, etc., at wages averaging less than \$25 per week. Thousands, aid this editorial, could not cam more than \$1.50 a week. "4

The average wages paid to women in New York in 1863, taking all the trades together, were said to have been about $\2 a week and in many instances only 20 cents a day, while the hours ranged from 11 to 16 a day.^c The price of board, which before the war had been about \$1.50 a week, had been raised by 1864 to from \$2.50 to \$3.'

During the war period, indeed, according to Mr. Mitchell, the wages of women increased less, on the whole, than the wages of men,⁶ while their cost of living increased out of all proportion to their

 New York Journal of Commerce, June 23, 1835. The Journal of Commerce was decidely hostile to the labor movement.

d New York Daily Tribune, July 9, 1846. Horace Greeley, editor.

• Fincher's Tradie's Review, Philodelphis, November 21, 1863. This was a labor paper. Practically the same statement was made in 1867 by Mayor Hoffman helors a mass meeting of citizons in behali of the Working Women's Protective Union (Daily Evening Voice, March 2, 1867), and again in 1870 in a "Letter from a working woman" to the New York Tribuno of March 29, 1870.

/ Idem, April 2, 1864.

ø Mitchell, History of the Greenbacks, p. 307.

[.] Workingman's Advocate, April 24, 1869.

b National Laborer, April 23, 1836.

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wages. This fact was recognized, at least, by the labor papers of the portod. "While the wages of workingmen have been increased more than 100 per cent," said the Daily Evening Voice, in commenting upon the report for 1864 of the New York Working Women's Protective Union," " and complaint is still made that this is not sufficient to cover the increased cost of food and fuel, the average rate of wages for female labor has not been raised more than 20 per cent since the war was inaugurated; and yet the poor widow is obliged to pay as much for a loaf of bread or a pail of cost as the woman who has a husband or a stalwart son to assist her. In many trades the rate of wages has been lowered during the year, until it has become a more pittance, while in other occupations the prices paid to females are generally insufficient to maintain them confortably."

By 1870, however, the wages of women in the 75 employments in which they were said to be engaged in New York were given as from \$3 to \$\$ ner week.⁸

One of the causes of complaint of the organized working women of Boston in 1869 was "the present fragmentary nature, the insufficiency, and great precariounness of the poor working women's labors," which "render it impossible for tham to procure the common necesaries of existence, or make any provision for iskiness and old age." It was complained that real wages were lower than they had been twenty-five years before, "while board had risen from \$2.25 per weak in 1840 to 50 per weak by 1870.⁴ In the same year Miss Philps itstified before the Massachusetts legislative committee on hours of labort hat, though some women in Boston recived \$1 to \$1.50 a day, a far greater number samed \$2 to \$2.50 per weak and many only \$1.75 per weak.⁴

In 1887 it was said that in New York City 9,000 and in Chicago over 5,000 women earned less than **33** per week.⁷ And in 1886 a resolution of the assembly of the State of New York assorted that in the city of New York there were 100,000 women, on many of whom families were dependent, working for an average wage of 60 cents a day. A large proportion, it was said, received much smaller suns?

Report and Testimony, Special Committee of the Assembly Appointed to Investigate the Condition of Fomele Labor in the City of New York, 1890, p. I.

a Daily Evening Voice, December 15, 1864.

^b American Workman, Boston, August 20, 1870. The Woman's Journal, Boston and Chicago, February 26, 1870. Quoted from the New York Evening Post.

[«] Idem, June 26, 1869. Resolutions adopted by the Industrial Order of the People and presented to the Labor Reform Convention by Miss Phelps.

d'The Revolution, January 13, 1870. Letter from Jennie Collins,

American Workman, May 1, 1869.

f Industrial Leader, July 9, 1887.

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History teaches that working women have suffered fully as much and perhaps more than workingmen from unemployment. Especially is this true in the sewing trades, nearly all of which are seasonal in character. Domestic servants, who have always been in great demand, have long had employment agencies to aid them in their search for work," but little aid has been given the women engaged in manufacturing industries, except by wholly or partially charitable societies, which have given them work, often at starvation prices. The Working Women's Protective Association of New York, it is true, during the three years ending in April, 1868, obtained employment for 3.222 young women.^b and during the year 1870 is said to have procured employment for about 2,000." But in 1869 the applications for employment were given as 16,625 and the places filled as only 3,318.4 While these figures may not be strictly accurate, there can be no doubt that there was in these years an enormous amount of unemployment among women workers.

In the sewing trades, since the early part of the intectent icentury, the proportion of workers who have been without steady employment has always been large. Thecework and a fluctuating domand for labor, combined with a constant oversupply, have been largely responsible. Even in other trades, however, women, partly hecausa of their lack of training and skill, have continually suffered from unemployment. In 1860, according to the census figures, 12.7 per cent, and in 1000, 23.3 per cent of all the femative segged in gainful occupations were unemployed during some portion of the census year.⁴

The imequality of the wages received by men and by women has long been the subject of complaint. In 1820 an ''intelligent and respectable lady of Nw Jorsey,'' in a letter addressed to Mathew Carey, urged that women, as well as men, often have families to support, and that ''usenig that women labor quality with the menthat their life is of no longer duration—showing an equality of suffering—that their necessities are as great (for J will not allow that the dobhing of a poor woman, properly fadi, is of less cost than a

• The Corporation of New York in 1834 passed an ordinance that there should be a place appointed in servery market for persons with owarded employment to inset those who wanted to hits. Certain hours of altendance were fixed for most and others for woman. (New York Evening Peck, Mar. 28, 1834). This was apprentiatly the find "public employment offleq," and appears to have been for servanis. A society "figuring proceining give instantion without suppose", it is also thave existed in Tation a, hour 1850, which, according to the account, phecel about a hundred girls a day. (Mooney, Nine Yans io America, 1869, m. 18, 10.)

b Workingman's Advocate, June 6, 1808.

"The Revolution, Decomber 15, 1870.

4 Idem, January 21, 1889.

* Twelfth Census, Occupations, 1900, p. cexxri.

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man's) and that $||S|_{V_{p}} |_{q_{0}} \otimes D$ per cent more moral and industrious than the men—they ar's fugge entitled to an equality of wages." "Give woman bread, $dr^{2}h_{h}h_{q_{1}}$ and shelter enough for her obliden," site exclaimed, "and/"urp prisons will be turned into workshops, and your houses of refuge will $h_{0} \in \operatorname{ouverted}$ into schools."

One of the argu-heating for an increase of wages used by the women show binders of Dyrap in 1834, was that, as few mechanics could earn more than $\exists \mathbf{n}_{-} \mathbf{q}_{-}$, "Un wife of the mechanic should receive a sufficient remark stop, for her services, in order that she may assist her husband-to defray their expresses, and to provide for their children." Daugitiers, too; should receive wages sufficient to enable them to pay "attribute price for their board, and to support themsolves respectably" for a independently."

On the other length a writer in the New York Evening Post, during this early disquestion of women's warges, seriously asserted link the mly very to make busbands sober and industrious was to keep women dependent if "where there was such a demand for frenda labor, of a perturbation, that the wages of the women would support definition, The consequence was, that a demand for final habor, of a perturbation, that the wages of the women would support definition, The consequence was, that the town was filled with the reasel may, deutken, worthless set of men I save knew." Upon which Releve half words are assistedly remarked that in order to reform the half key of the landmarks this writer proposed to keep women's wages 'zs $h_{\rm ev}$ that a widow, if she attempted to support hesself and childrah, quite starve."

That working $i \sim i_{Tag}$ should receive the same pay as men for the same work has kirty hear the desire of trade-unionists. Though not expressly stated, it was implied in the resolution of the National Tradiec Union in $85_{0.5}$ ghied complianed that "the extreme low prices given for frame leffser, iffer exercisy sufficient to satisfy the necessary wants of life, $uu^{-2}|_{cropto}$ a destructive competition with the male laborer." (= In TS25, h₁₀ of National Tradee' Union acknowledged that woman's work is industry was necessary in "the present state of society." but rec3manded the women to organize and strike for higher winges." h_{ac} and the the National Labor Union, moreover, repeatedly fussed refolutions expressing sympathy for the "sewing women and h_{ac} there of 0.01," unjing them to unit in tradee

Quoted in the I'm Enquirer, September 23, 1829.

d Free Enquiter, St Phynhor 23, 18 29.

« National Trades' Uson, New York, October 10, 1835. Reprinted in Documentary History of America al: Manucial Society, Vol. VI, p. 251.

/ National Labore, Sr. Vepriler 12, 1836, Reprinted in Documentary History af American Industrial Sectory, Vol. VI, p. 281.

[&]quot; Free Enquirer, Seen York, May 6, 1820. This was a free thought weekly edited by Robert Date O with and Frances Wright and was in sympathy with the labor movement.

b Lynn (Mass.) Recent, Japuary 8, 1834.

unions, and demanding for them "equal pay for equal work." The New England, Massaoluweits, New York, and other labor conventions of the time passed similar resolutions. In 1656, too, the National Labor Union passed a resolution urging Congress and all the state legislatures to pass laws securing equal pay for equal work to all women in public employment.⁶

The actual relation between the wages of men and women was given in 1833 as 4 to 1^{-10} for instance, a man receives 81, whilst the woman only gets 25 cents."⁴ About the same time it was asserted that three-fourths of the working women of Philadelphia "do not receive as much wages for an entire week's work, 13 or 14 hours perday, as journeymen receive in same branches for a single day of 10 hours."⁴ A In 1868 the Workingman's Advocate declared that "women do not get, in the average, one-fourth the wages that men receive."⁴ About this time a report presented to the New York Working Women's Association stated that rag picking was the only business in that city "where women have equal opportunities with men."⁴ A hol a little later Virginia Ponny estimated that women's wages in the industrial branches were from one-third to one-half those of men.⁴

DISPLACEMENT AND EFFECT OF WOMEN'S WORK ON MEN'S WAGES.

As for the effect of the employment of women upon the work and wages of men, it is exceedingly doubtful, in spite of popular opinion, whether women have, in the long run, displaced men. It has not been possible, in this study, owing to the hack of material, to make any detailed investigation of the difficult subject of displacement, but a broad survey of industrial history appears to justify certain general conclusions. Thut women have been the cause of reductions in the wages of men is more probable, though it is a serious question whether, if they had never been engaged in industrial labor, employers would not have found other sources of clicap, unskilled labor. The mere fact, however, that they have worked at wages as much lower than those of men has undoubtedly been a menace to the man's standard.

The gainful employment of women, however, must be regarded rather as an industrial readjustment than as a substitution of one

^a Proceedings of the National Labor Union, 1868, p. 24. Reprinted in Documentary History of American Industrial Society, Vol. 1X, p. 205.

b Workingmon's Shield, Cincinnati, January 12, 1833.

c Carey's Select Excerpts, vol. 13, p. 184. This is a collection of about 100 volumes of newspaper clippings made by Mathow Carey, and is now in the Ridgway Hranch of the Library Company, Philadelphia. Unfortunately the clippings are not dated, nor are the names given of the papers from which they wore attacted.

[#] Workingman's Advocate, June 6, 1868.

The Revolution, December 31, 1868.

J Penny, Think and Act, p. 84.

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sax for the other. To a cortain extent women have displaced menforced in part ant of their traditional sphere by machinery primarily, and secondarily by men introduced as the result of the readjustment due to machinery, they have followed the machine into other occupations not theirs by tradition. But much of their problem of employment has been solved by the growth of new industrias, which, of course, men have chimed, hat in many of which women have entered almost if not quite from the beginning and have successfully held their nwn.

The menace of woman's low wage scale, however, was early felt by the leaders of the trade-union movement. In 1836 the committee on female labor of the National Trades' Union declared "the aystem of female labor, as practiced in our cities and manufacturing towns. * * * the most disgraceful escutcheon on the character of American freemen, and one, if not checked by some superior cause, will entail ignorance, misery and degradation on our children to the and of time." They complained, first, of the injury to the health and morals of "the young females," and, second, of "the ruinous competition brought in active opposition to male labor," for "when the females are found capable of performing duty generally performed by the men, as a natural consequence, from the cheapness of their habits and dependent situation, they acquire complete control of that particular branch of labor." The wages of a woman's labor, they asserted, were scarce sufficient to keep her alive, and were each year being reduced, and she should realize, they said, "that she in a measure stands in the way of the male when attempting to raise his prices or equalize his labor; and that there her efforts to sustain herself and family are actually the same as tying a stone around the neck of her natural protector, man, and destroying him with the weight she has brought to his assistance. This is the true and natural consequence of female labor, when carried beyond the necessities of the family." The number of females employed in the United States "in opposition to male labor" was estimated as over 140,000, "who labor on an average from 12 to 15 hours per day." The committee recommended the formation of women's unions, and also that females "under a certain age" be forbidden by law "from being employed in large factories, and then only under the care and superintendence of a parent." a

Mathaw Carey's remedy, moreover, for the evils of women's workor 'multiply descriptions of labor,' or seek out new occupations for them—was seriously objected to by the trade-unionists of that day. At the 1835 convention of the National Trades' Union a resolution was passed recommending that the workingmen oppose, 'by all housest means, the nutliplying of all description of labor for formales—

^a National Laborer, November 12, 1836. Reprinted in Documentary History of American Industrial Society, Vol. VI, p. 281-291.

inarmuch, as the competition it creates with the males, lends inevitably to improve in both." "Any project which introduces foundass into employments belonging to the male operative," said the National Laborer, "necessarily mins his occupation and forces him to resort to some other mode of procuring a subsistence. The prices given to a destructive competition commences between the male and founda which must invitably end in the improverialment of both." The arguments is of that day also objected to wormn's wark on the ground of its "effect upon the character of the formale, and the conjustion of our family proposed as a remedy that." The prosective is not of the male operative be raised so as to emble him to train up in a proper manner his own family, and then the raised to their sourch's war." h

A generation later the labor papers complained of "a persistent effort, on the part of capitalists and employers, to introduce females into various departments of labor heretofore filled by the opposite sex." " "After trying many experiments in vain," said Fincher's "Trades' Review, "to keep down wages to the old standard, when paner and gold were equal in value, they now attempt to substitute female for male labor." The result of this must be, said the Review. to bring down the price of labor "to the female standard, which is generally less than one-half the sum paid to men." This forcing of women into men's occupations was not, it was said, any advantage to the women. The trouble with women's work was not that it was insufficient in quantity, that new avenues of employment were needed, but that it was not fairly compensated. And if the effort to substitute female for male labor was successful it was predicted that it would "take but a few years to reduce their wages for mechanical labor down to the pittance now received for needle-work." #

The Address of the National Labor Congress to the Workingmon of the United States, issued in 1867, deplored the prejudice against the employment of female labor and declared that the position of the laboring classes on this point had been grossly misrepresented. "They have objected," it using 'and naturally, too, to the introduction of female labor when used as a means to depreciate the value of their own, and accompliab the selfish ends of an employer, when under the specieus plot of disinterseted 'philamthrough', the ulterior object has not been the elseviation of women, but the depradiation of man, as has been the easts in almost every instance, where the labor of one

^a National Trades' Union, October 10, 1835. Reprinted in Documentary History of American Industrial Society, Vol. VI, p. 251.

⁴ National Laborer, April 23, 1836.

^{*} Pincher's Trades' Roview, January 28, 1865.

d Idom, October 1, 1864.

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has been brought into competition with the other. We claim that if they are capable to fill the position now occupied by the stronger sac—and in many instances they are cominently qualified to do so they are outiled to be treated as their equals, and receive the same compensation for such services. That they do not is prima facic evidence that their employment is entirely a question of self-interest, from which all other considerations are excluded. Why should the semantress or female factory operative receive one-hird or one-half the amount demanded by and paid to men for the performance of the same work? Yet that such is the case, is a fact too well established to require corroboration." \bullet

Again in 1868 the president of the National Labor Union, in his opening address to the congress, referred to "the extent to which formale labor is introduced into many tracket" as "a serious guestion," and stated that "the effect of introducing female labor is to undermine prices, that character of labor being usually employed, unjustly to the woman, at a lower rate than is paid for male labor on the same kind of work." He also spoke of "the damaging physical effects and domoralizing tendencies of the prevailing system," and suggested that the Government should be induced to set "the example of equal computers of the male labor."

INDUSTRIAL EDUCATION AND EFFICIENCY OF WOMEN.

Apprenticeship for girls has never meant any thorough training. Even in colonial days girl apprentices were rarely taught a trade, though sometimes their indentures specified that they were to be taught to spin and sew. But generally, apprenticeship meant simply a bring out at domestic service till of age. In the manufacturing industries, too, apprenticeship has usually meant to girls merely work and no industrial education. In many cases, indeed, it has been used as a means of procuring cheap labor, and the girls have been discharged, as soon as their term was over, to make room for a new set of apprentices at very low wages or none at all.

As early as 1863 a writer in the Unat suggested that an industrial association should be formed for the reliaf of working women, where they could be taught "to be effects, shoemakers, watchmakers, saitons [aie], florists, horticulturists, chandlers, hatters, nurses, midwives, accountants, scribes, tolographers, daguercotypists, and a dozen other things." In the same year there was a "Girk" Industrial

^a Address of the National Labor Congress to the Workingmen of the United States, pp. 10, 11.

bThe Revolution, October 1, 1868.

^c The Una, Providence, R. L. July 4, 1853, p. 02. The Una was a woman's rights journal.

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School" in New York," but nothing of real importance along this line appears to have been done until after the war, when schools were opened in Philadelphia, New York, Boston, and other cities to teach girls various industrial arts. In Boston, too, an effort was made about this time by the Massachusettä Working Womer's Lacque to encourage girls to serve regular apprenticeships so that they should acquire akill and therefore command higher wages⁴. A little later Miss Jannie Collins proposed to establish in Boston an institution to be called the "Young Woman's Apprentice Association" for the education of girls in needlework, machine work, and scientific housework. In 1871 she petitioned the state legislature for aid for this institution, 'but nothing appears to have been done.

The industrial schools and business colleges which originated in the sixtics and seventies, it is true, have made it possible for women to enlarge somewhat heir field of activity by entering new employments. They have done little or nothing, however, to make women wagecarrers in mechanical industries more skilled or more efficient.

The condition of the great majority of working women, indeed, as regards skill and efficiency, is probably worse now than that of their grandmothers who were not wage-carners. Before the introduction of machinery women were probably, on the whole, as compared with men workers, more skillful and efficient than they are to-day. The occupations taught them then were theirs for life. A girl could well take pride and pleasure in learning to spin, to weave, to sew. and to cook. She was preparing herself for the great event in her life-her marriage, and for the career every girl looks forward tothe keeping of the home and the care of children. Gradually, however, as girls have been forced, on the one hand by machinery, which has taken away their work, and on the other hand by division of labor, which has drawn them into all manner of strange occupations. to undertake tasks which have no direct interest to them as prospective wives and mothers, there has grown up a class of women workers in whose lives there is contradiction and internal discord. Their work has become merely a means of furnishing food, shelter, and clothing during a waiting period which has, meanwhile, gradually lengthened out as the average age of marriage has increased. Their work no longer fits in with their ideals and has lost its charm.

Woman wage-survers, too, have always been and still are held down by the very real difficulty, already mentioned, of acquiring proficiency in their occupations. In the olden days girls were earce fully taught the domestic arts, but when woman's industrial revolution came to sweep these arts out of the home their industrial edution earm to sweep these stres out of the home their industrial edu-

a New York Daily Tribune, June 20, 1853.

^b American Workman, November 20, 1869. Constitution of the Massachusetts Working Women's League.

The Revolution, April 13, 1871.

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cation became a thing of the past. Only in the intellectual classes, which are largely influenced by the fact that intellectual work can often be carried on in the home, have parents recognized the need of educating their daughters for a useful occupation. Girls are taught the same branches as boys and are expected to marry. Formely a girl who did not marry had a useful occupation as a "spinster." Now she has no useful occupation in the home and is therefore thrown upon her own resources to obtain outside employment.

Denied adequate training while under her parents' protection, once a wage-earner also is obliged to labor incessantly to obtain food, clothing, and shelter. Her wages are rarely sufficient to alford her opportunity to improve her position by self-education or attendance at industrial schools, aven if such schools were not woeffully lacking where most seriously needed.

Finally, the possibility of promotion, or even of praise for excellence of workmashing, is practically denied to her. In most cases, probably, woman's expectation of marriage is responsible for her lack of exil, but in some instances, doubles, her enforced lack of skill is responsible for her longing for marriage as a relief from intelerable drudgery. The only certain deductions are that, in the days when instrance and skill were not diversed, wome were proficient, according to the standards and knowledge of their time, in the work which they performed, but that, since the general upheaval in their accoupations which has accompanied the industrial revolution, they have come to be to an alarming extent the chaep labourse of the employment market, the unskilled and underpaid drudges of the industrial world.

In spite, however, of all these difficulties, a study of the history of the working women of this country shows that there has been a gradual pushing up of women workers from the level of the purely mechanical pursuits to the level of semi-intellectual work. There is hope in this tendency, slight as it may be. There is some hope, too, in the gradual relaxation of the old rigid rule that the good positions in business and industry could be given only to men.

SCOPE AND SOURCES OF THE REPORT.

In this report on the history of women in industry, wage-earning occupations alone are considered. The unremunerated home work of women, which has probably dovetailed in with their wage labor in such a way that at all periods approximately the same proportion of the work of the world has been done by them, is necessarily angle ted. Women engaged in professions, in independent business, and in agriculture, too, are considered only in their relation to the wage-carning women in industry. That is, these occupations are studied statistically as outlets for women who would otherwise be competitors of these engaged in wage labor in the industrial field. The pressure of competition in other branches of labor is in part to be ascertained by a study of the statistics of these industries. But they are not primarily the subject of this history.

For convenience of study and presentation of the changes in the employment of women as reflected in the principal sources, the industries to be studied have been classified in six main groups, (1) the textile industries, (2) clothing and the sewing trades, (3) domestic service, (4) the manufacture of food and kindred products. including beverages, (5) other manufacturing industries, including tobacco and cigar manufacture, the paper and printing industries, the manufacture of metals of all kinds, and of wood, clay, glass, and chemicals, and (6) trade and transportation. Of these, the first four are within woman's traditional sphere, and only in the last two groups can their work be said to really encroach upon that of men. The study of the history of these first four groups of industries is. then, not a study of the entrance of women into new occupations, but merely a study of changes in the conditions under which they have labored. In the fifth and sixth groups, however, the history of woman's employment is of an entirely different character, for here women have infringed upon man's traditional domain.

The history of women in industry in the United States is a broad subject, nearly as broad as the bistory of men in industry, and the material for such a study is voluminous. The principal sources used in this study have been the census and other publications of the federal Government, state labor and statistical bureau reports, the reports of legislative committees, and old books, pamplilets, and newspaper files, the latter located primarily through the search set up by the American Bureau of Industrial Research. Representative establishments, too, of nearly all the principal influstries have been wisted, and persons familiar with the industries have near consulted.

As a result, however, of the breadth of the subject as compared with the space albetted, and of the comparedive innecessibility of the sources of information prior to the establishment of labor and statistical hureaus as compared with the reports of these bureaus and with other sources mada accessible during the past thirty years or so, it has been thought best to give a somewhat disproportionate amount of space to information and quotations derived from the rare early sources. The character and conditions of woman's work within recent years have been fully described in reports, hooks, magazines, and newspapers which can be easily obtained, but the history of the formative period of woman's work has long been furied away in rare old hooks and appens, many of them intil recently unknown even to

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close students of the labor question. The history of the wage labor of women during and shortly after this formative period, moreover, is not only comparatively unknown, but furnishes the only possible basis for any historical interpretation of women in industry.

The sources of information in regard to labor conditions during these early years are largely pamphlets and newspaper files. Outside of these the existing material is extremely meager, for thorough investigations of labor problems in an impartial way were unknown. In consequence, anything that will throw light from whatever angle upon the conditions of those early days is worthy of examination. Most of the pamphlets were written by persons thoroughly familiar with the conditions which they discussed, and some of the newspaper articles, such, for instance, as the sories in the New York Tribune, are comparable with the better class of articles upon similar subjects in the magazines of to day. On the other hand, many of the statements from these old files disclose the intensity of the controversy of which they were a part and the strong personal bias of the authors; in many instances statements of facts are directly contradictory. So far as the material exists, great care has been exercised to present both sides in all matters of controversy, as closely as possible in the original words, and always with the authority cited. The reader must take into consideration the character of the material and the relative value of the sources of information, just as he would in reading similar material of recent publication.

CHAPTER II.

TEXTILE INDUSTRIES.

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TEXTILE INDUSTRIES.

GENERAL CHARACTERISTICS.

The first appearance of women in industry, apart from their employment in domestic service, was in the manufacture of textiles. Not merely was this their recognized occupation from time immemorial, but it was the first employment in which women in any large numbers worked for compensation outside of their immediate families, or were gainfully employed. Since the dawn of civilization women have provided the great bulk of the labor required in the manufacture of textile fabrics, and in 1791 Alexander Hamilton, in his report to Congress on manufactures, spoke of the "vast scene of household manufacturing" and stated that, in a number of districts, it had been computed "that two-thirds, three-fourths, and oven four-fifths of all the clothing of the inhabitants are made by themselves." As late as 1810 Gallatin estimated that "about twothirds of the clothing, including hosiery, and of the house and table linen, worn and used by the inhabitants of the United States, who do not reside in cities, is the product of family manufacture." a

The history of women's employment in the cotton industry may be divided roughly into three periods, that of land labor before the, use of improved machinery, that of the use of spinning machinery before the introduction of the power loom, and that of the complete textile factory, in which all the branches of manufacture were carried on under one roof. The first period lasted approximately from the first settlement of the country to 1787, when the first "cotton mill," which was, in reality, simply a spinning mill, was erected at Beverly, Mass. The second period begau with the introduction of improved spinning machinery and by water power and ended with the erection of the first complete cotton factory, constraining both spinning and weaving machinery, at Waltham, in 1814. The third period extends from that date to the present time.

In the other toxtile industries the same industrial development was somewhat more backward, especially the introduction of the power loom. Woolen cloth was woven on a large scale by men hand-hoom weavers in Philadelphia and other places until after the middle of the ninoteenth century. It is possible, however, to

American State Papers, Finance, Vol. 11, p. 427.

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treat these three periods as approximately coextensive, though with variations in time, in all the textile industries. But it must not be forgotten that there was a considerable amount of overlapping of the different methods of production.

In general, it may be said that during the first period all the spinning and a large part of the weaving was done by women; during the second a small number of men were employed in various occupations connected with spinning, but women assumed a much larger proportion of the weaving; and during the third the proportion of women to men has, upon the whole, standily declined.

Spinning had always been women's work, but in weaving there has been a certain amount of displacement of men by women. Much weaving of the lighter goods was done by women in colonial days. but the heavier goods were woven by men. In the days of the hand loom, for instance, carpets were woven almost if not exclusively by men, but the Bigelow power loom, introduced between 1840 and 1850, brought women carpet weavers. In 1846 a letter from a Thompsonville, Conn., "Factory Laborer" appeared in the Harbinger which spoke of the future prospects of carpet weavers as "very gloomy," since power looms were sure to come in "and if we are allowed to work at them at all, we shall have to work at very low waves, probably at the same rate as girls.". The year before, the carpet mill at Lowell was said to be the only one in the world using power looms. But by these looms "a young woman easily does the work, which, by the hand process, required the hard labor of three mon." b

Naturally, public sontiment has never been vigorously opposed to the employment of women in the textile industries. Throughout the period from the beginning of textile manufacture until its thorough establishment, indeed, one of the chief arguments for its protection by tariff legislation was that it would amploy women and children who would oblervise "rat the bread of idleness." In colonial days it was taken as a matter of course that women should spin and weave, and the establishment of "manufactories" or "spinning sciools" was one of the favorite methods of relieving poverty. Thus a patition presented to the Massachusetts legislature January 15, 1780, by the company of persons who established

a Harbinger, Brook Farm, Mass., June 20, 1840, Vol. 111, pp. 29, 30. The Harbinger was the organ of the Brook Farm movement.

b Miles, Lowell as It Was and as It Is, 1845, p. 100.

• In arguing for the establishment of manufactures the Republican Tendé, of Pouglakeopaie, N. Y., and in 1816: "Many poor processous and many children, who would there wise be brought up in ignorance and idlenses, find employment; and employment; loo, of a natore will be their age and circumstances. The public striloyed from the aupport of paupers, who would be a serious tax upon 'honest industry'." (Quoted in the lottor: Independent Chronic (LA, pp. 13, 1816).

the Beverly factory, set forth that "it will afford employment to a great number of women and children, many of whom will otherwise be useless, if not burdensome to society."ª In 1792 Tench Coxe asserted that the objection to manufactures that it took people from agriculture was not valid, "since women, children, horses, water and fire all work at manufactures and perform four-fifths of the labor." In 1812 he congratulated the country on the fact that "female aid in manufactures, which prevents the diversion of men and boys from agriculture, has greatly increased."e And the increase of woman's work in textile factories during the war of 1812 was referred to by White, in his Memoir of Slater," as "adding to the public prosperity." As early as 1827, too, the establishment of manufactories in the slave States was urged on the ground that it would "employ thousands of the idle women and children (slaves) who are to be found on every plantation in Maryland and Virginia and the adjacent States."e

By 1836, however, the evils of the factory system had developed considerable opposition to the employment of women in factories, and the Baltimore Transcript was driven to reply to these criticisms that "the notion. * * that factory labor should be restricted to men, is too visionary to merit refuttation..."

THE HOME WORK AND HANDICRAFT STAGE.

It is impossible to say just how early women began to spin and wears for profit. Miss Edith Abbott's shows that at least as early as 1855 women were employed in weaving by a Boston shopkceper. It is probable, indeed, that almost from the very beginning of industry in this country some women were employed in spinning and weaving for profit.

Very early in the history of the country, too, public effort was made to encourage textile manufactures. The Massechusetta assonbly, for instance, passed an order in 1640 for the encouragement of the manufacture of Jinen eloth and of the spinning and weaving of cotton wool, requiring the magistrates and deputies of the several towns "to make inquiry what seed is in every town, what usen and wearem are skillful in the bracking, spinning, weaving; what means for the providing of wheeles; and to consider with those skillful in that munifacture, what course may be taken. * * for teaching the

Bagnall, Textile Industries of the United States, Vol. I, p. 91.

b Coxe, Reflections on the State of the Union, p. 8.

Coxe, Statement of Arts and Manufactures, p. xiv.

⁴ White, Momoir of Slater, second edition, 1836, p. 200.

Carey's Excerpta, New Series, vol. 7, pp. 467, 408. Carey, Miscellaneous Essays, pp. 232-234.

[/] Quoted in Public Ledger, Philadelphia, December 6, 1836.

[#] Abbott, Women in Industry, pp. 23, 24.

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boys and girls in all townes the spinning of the yara;" etc. **A** similar order was made in Connectiout in the same year. Other colonies followed. In Virginis, for instance, an act was passed in 1066 to promote manufactures, providing that each company should set up a loom. In 1666 the General Court of Massechnestet Bay passed an order enjoining all hands not otherwise employed, "as women, girls, and boys," to spin "according to their skill and ability" and preseriing the amount of yarn to be produced in a years. The chief attention, however, before the introduction of the cotton gin, was given to linen. By 1708 the Southern States produced a large amount of linen cloth of fine quality. "The material was mosely grown upon the farms of the planters and the breaking and hecking being done by the men, while the carding, spinning, weaving, bleaching, and dyoing, were performed by the wives and duaptites of the planter."

In 1718 the arrival in Boston of a number of Irish spinners and weavers, bringing the implements of their craft, caused "a great stir." "Directly the 'spinning craze,' as it was aptly called, took possession of the town, and the women, young and old, high and how, rich and poor, looked into the spinning school, which, for want of better quarters, was set up on the Common, in the open air. Here the whire of their wheals was heard from morning to night."^d In 1721, too, a spinning school was erected in Boston for the instruction of poor children.^d

A public effort was made in Boston in 1748 to promote manufactures as a means of relieving the poor by the employment of women and children, and in 1753 there was erected as a linen manufactory. by act of the General Court, a handsome brick building bearing on its front wall the figure of a woman holding a distaff. In the same year, on the second anniversary of the Society for Encouraging Industry and Employing the Poor, about 300 young women appeared on the Common scated at their spinning wheels. This factory after a few years was abandoned./ Again in March, 1770, a memorial was prosented to the General Court of Massachusetts by William Molineux. who, for the purpose of relieving the poor of Boston, had caused about 400 spinning wheels to be made "and hired a number of rooms for spinning schools, as also a number of mistresses to properly teach such children, and so successful has been his endeavour that, in the course of the summer only, not being able to continue through the winter's cold season, he had learned at least 300 children and women

a Bagnall, Textile Industries of the United States, Vol. I, p. 4.

/ Idem, pp. 35-37.

⁴ Idem, p. 8.

^{*} Bishop, History of American Manufactures, 1868 adition, Vol. 1, p. 330.

⁴ Baganil, Textile Industries of the United States, Vol. 1, p. 18. Quoted from Wincor's Memorial History of Boston, Vol. II, p. 511.

[#] Bagnall, Textile Industries of the United States, Vol. 7, p. 19.

to spin in the most complext manner; and has constantly employed to this day all such as would work, and paid them their money to a large amount."

About 1764 a Philadelphia association employed more than 100 persons in spinning and weaving. * The United Company of Philadelphia, too, formed for the purpose of promoting American manufactures, is said to have employed in October, 1775, "in spinning and other work four hundred women, who would otherwise have been destitute."e This manufactory advertised, on December 4, 1775, that it would "employ every good spinner that can apply, however remote from the factory, and, as many women in the country may supply themselves with the materials there, and may have leisure to spin considerable quantities, they are hereby informed that ready money will be given at the factory, up Market street, for any parcel, either great or small, of hemp, flax, or woolen yarn,"d In addition to spinning, women were employed to "attend on the weavers to wind their chains and quills for about seven shillings and sixpence per week, and find themselves. One woman can attend three looms."e As late as 1788 the Pennsylvania Society for the Encouragement of Manufactures and the Useful Arts reported that, to employ the poor, they had purchased flax and employed between 200 and 300 women in spinning linen yarn during the winter and spring,"

In New York, too, in 1704, a society was formed for the purpose of encouraging the manufacture of linen as a means, among other things, of giving amployment to the poor. This association employed in 1707-68 in spinning and weaving "Abova 300 poor and necessitous persons"⁹ In 1789 the New York Society for the Encouragement of American Manufactures employed 130 spinners.⁴

Encouragement was also only given to the manufacture of silk. In 1749 Georgia offered boundies "to overy women who should, within the year, become a proficient in reeling,"¹⁴ and sheels were created and supplied with machines for that purpose. "The bounty was chained," asy Bishloy, "by 14 young women, who were ito next year orggoed at the fibrature."⁴ In 1750 a public fibrature or silk lonses was erected in Kavannah to instruct in the management of private

4 Bagnall, Toxtile Industries of the United States, Vol. 1, pp. 70, 71. Quoted from the Pennsylvania Packet and General Advertiser, December 4, 1775.

Bishop, History of American Manufactures, 1868 edition, Vol. I, p. 400.

a Bagnall, Textile Industries of the United States, Vol. 1, p. 43.

b Idem, p. 51.

e Hishop, History of American Manufactures, 1868 edition, Vol. I, p. 387.

[/] Idem, p. 407; White, Memoir of Slater, p. 58.

g Bagnall, Textile Industries of the United States, Vol. I, p. 53.

⁶¹dem, p. 124.

Bishop, History of American Manufactures, 1863 edition, Vol. I, p. 357.

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filatures. Another filature was opened in Philadolphia in 1770.¹⁰ Unlike the manufacture of octota and wool. England encouraged the silk husiness, but she could afford to do so as the colonies were not prepared to produce anything but unwrought material. In 1788, however, a company was incorporated in Connecticut to manufacture silk into stochings, handkereinös, ribbons, otc. Binhop asy that at that time a woman and two or three children could make 10 or 12 rounds of raw silk in five or six weaks.³⁰

Isolated instances of the manufacture of silk cloth during the sighteenth century have been discovered, but the real history of women silk weavers began many years later. The making of saving silk was, however, a household industry of some degrees of importance at the period of the Revolution, and for at least. 50 years afterwards. ' All the silk raised in the United States before 1828, indeed, was spun by hand, and it was not until the introduction of the sewing suchina that ther manitability for its consumption of the sewing silk then in use brought about, in 1852, the invention of a satisfactory machine for the manufacture of saving silk.⁴

The work of women in the localic industries during these years was probably in the first instances "the order" or centsom work, and there must have been a great deal of this kind of manufacture throughout the entire project. This wholesale manufactures where the sense must of the considerable amount of wholesale manufacture which later developed. This wholesale manufactures was either for retail shopkee, are or for "manufactories," where a number of spinning wheels or booms were gathered together under one roof and their products controlled by a single individual. The manufactories already noticed furnish instances of the latter kind in which women were employed. In the waveling along, which appear to lave been somewhat more common, the employees were probably men; but the years was spun by women in their homes. No instance is known during the period in which both spinning and weaving were carried on in the same manufactor.

The clief characteristic of custom work was link the manufacturer foreished the materials and said the product. Though a good deal of custom work was doubless done by women independently, in many eases, probably, as during the same period in Fördend, a 1 rufessional max werker would buy the materials and have his wife and children s: in the yara for his home. The furthand, too, doubless often soil hus work dame by his wife and doughters. It is, indeed, impossible to distinguish in this period the labor of the wife from that of the husband.

a Hazard's Register, Philadelphia, January 26, 1828.

b Bisliop, History of American Manufactures, 1868 edition, Vol. I, p. 361.

[•] Special Report on Silk Manufacture, Teath Census, 1880, p. 13.

[#] Greeley and others, Great Industries of the United States, 1872, p. 545.

CHAPTER II .- TEXTILE INDUSTRIES.

In the wholesale manufacture of textiles the shopkeeper or manufacturer furnished the material, and in work for a manufactory this appears to have been the general plan, but much of the work for shopkeepers was doubles custom work.

Hand spinning & home continued for a number of years, even after the introduction of power and improved muchinery. Mr. Thomas R. Hazard, of Rhodo Ialand, stated that in 1816 and aven later he "used to ourgloy secores of women to apin at their homes at 4 cents a skein, by which they earned 12 cents a yard, attrastic the state of the state ings sold them at 50 cents a yard, thus requiring 4 days' work of the woman to pay for 1 yard of celton oloth, she boarding herself. The wool was earded into rolls at Pencedule and transported to and from on the backs of horses." A In 1810 Gallattin reported that in New Hamsshire "overy farmer"s home is provided with one or more wheels, according to the number of formale," and that "every second house, at least, has a born for weaving linen, cotton, and coarso woolan cloths, which is almost wholly done by women," &

Knitking was, naturally, one of the textile industries carried on for profit by women during the colonial days. It is recorded that knit stockings sold for 2s, or more a pair.^{*} In 1698 Marthas Vineyard is said to have exported 9,000 pairs of knit hese.⁴ Throughout this colonial period, and until well into the inherenth century, hand-knit hese were an important article of manufacture. The work, of course, was done by women and children.

The manufactories, as has been already pointed out, were of two kinds, for spinning or for weaving, and only in the former were women generally employed. A few women may have been employed in the weave shops as assistants to men, but in general the factory employment of women in the textile industry during this period was confined to asimming.

^a United States Bareau of Statistics, Wool and Manufactures of Wool, Special Report, 1888, p. x1-90.

6 American State Papers, Finance, Vol. 11, p. 435.

"Wendon, Economic and Social History of New Eugland, Val. I, p. 302.

4 Campbell, Women Wage-Earners, p. 74.

* Bagnall, Textile Industries of the United States, Vol. I, p. 113. Quoted from Boston Continel of September 6, 1788.

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steady matron" were said to have been employed in spinning at this factory.³ Again, in October, 1780, President Washington visited the factory and recorded that he saw "14 girls, apinning with both hands (the flax being fastened to their waist). Children (girls) turn the wheels for them." The spinners were paid by the piece, and President Washington added to the account in his diary: "They are the daughters of decayed families and are girls of Character-mone others are admitted." In 1702 there were 400 employees.⁴

At other places in New England the manufacture of duck was carried on by similar methods, and manufactories of cotton goods were attempted in a considerable number of places. In 1789 the Baltimore Cotton Manufactory, in advertising for experienced weavers, added: "Apply to the subscriber at the factory, where a few women can be employed at winding yam."⁶

In these spinning factories, even before the introduction of machinery various improvements had been made, but none af great importance. In a factory at Haverhill, for instance, Washington recorded in 1780 that "one small person turns a wheel which employs eight spinners, each taching independently of the other." A This reminds us of the helated movement by which, about 1812, portable spinning frames, capable of spinning from 6 to 23 threads and made expressly for family uss, were quite extensively sold about the country for prices ranging from about \$25 to about \$80.0*

¹ In at least one case, and probably in more, it appears that the effort to introduce improvements in machineary resulted in the substitution of men for women spinners. This case was in the factory at Pawineket, afterwards the scene of State's enterprise, where the "billies and jennies" were driven by men, though 'the cotton for this experiment was carded by hand and roped on a woolon wheel by a "Jennies" and "billies" of imperfect construction are also said to have been used before 1790, 'chiefdy by Steutish and Trisk spinners and wavers,' in Providence, New York, Heverly, Worcester, and other places.

It is safe to say, in general, that before the introduction of the factory system practically all of the spinning and a large part of the

d Dinry of Washington, October, 1786, to March, 1790, New York, 1856, p. 42.

- / Batcheldar, History of the Cotton Industry, p. 10; White, Memoir of Sinter, p. 76.
- ø White, Memoir of Slater, p. 93,
- Aldem, p. 95.

⁶ Bagnall, Textile Industries of the United States, Vol. 1, p. 114. The first stateumat is quoted from a petition to the Massachusethe legislature, and the second from the Gazette of the United States, New York, May 6, 1789.

^b Diary of Washington, October, 1789, in March, 1790, New York, 1858, p. 33.

[«]Bagnall, Textile Industries of the United States, Vol. I, p. 133.

^{*} Peek and Earl, Fall River and Its Industries, p. 79.

weaving, whether for home consumption or for the market, was done by women and girls. At the time of the Revolution, for instance, a considerable amount of woolen and linen goods were manufactured at the Bethlehem community in Pennsylvania, and the records show that while most of the heavy weaving was done in the "Brethren's House," where the unmarried men lived, most of the spinning and the lighter weaving was done in the "Sisters' House," where the unmarried women lived, and in the "Widows' House.". If we consider only gainful employment, to be sure, the men may have had the advantage in numbers, for most of the itinerant weavers who went from house to house, much as some seamstresses or dressmakers do to-day, were men, while they generally used yarns spun by the women of the family in which they were hired and not by gainful labor. A little later, however, the introduction of spinning machinery created such a great demand for weavers that weaving came to be almost as much woman's work as spinning formerly had been. It is probable. moreover, that from the beginning a much larger part of the hand weaving was done by women in the United States, where labor was dear, than in England, where labor was chean,

The price, in 1688, for spinning worsted or linen, we are told, was usinally 2 shillings the pound, and for knitting coarse yaru stockings, half a crown s pair. The price for weaving linen of line a yard in width was 10 or 12 pence per yard. Wool combers or carders received 12 pence per pound.⁴

Another important home industry connected with the manufacture of textiles in colonial times, and even in the early years of the nineteenth century, was the manufacture of hand cards for combing cotton and wool. The teeth and the cards were out in the factory, new machinery being invented for this purpose toward the end of the eighteenth century, and were then distributed to the women and children of the neighborhood, who inserted the teeth separately by hand. A single factory in Boston employed in this work in 1704 about 1,200 persons, chiefly women and children.º Before 1707 three large factories in Boston are said to have employed nearly 2,000 children and 60 mon. There were also in Boston at that time three smaller factories." Some women also worked in the factories. examining the cards returned and correcting imperfect work. In 1812, too, it is recorded that the largest card factory in Leicester. Mass., employed about 18 hands in the cutting of teeth, two-thirds of them girls engaged in turning the machines. The pay for setting teeth averaged, for a "sheet" about 5 inches wide by 36 inches long,

a Bagnall, Textile Industries of the United States, Vol. I, p. 27.

⁶ Bishop, History of American Manufactures, 1868 edition, Vol. 1, p. 317.

o Idom, p. 497.

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from 25 to 40 cents, according to the finences of the teeth.* Cardmaking machinery was patented, however, in 1797, and we hear no more of this employment for women.

THE PERIOD OF SPINNING MACHINERY.

The second period of textile manufacture in this country began in 1789 with the Beverly, Mass., cotton factory, which is claimed to have been the first in America to carry on under one roof all the operations of the manufacture of cotton cloth. But the first Arkwright machines were used at the Slater factory at Pawtucket in 1790, and as this type of factory seems to belong naturally to an earlier stage of development it seems best to describe it first. The Slater factory, like many if not the majority of the 168 "cotton factories" in operation in the United States in 1810, was merely a spinning mill. At first it sold its cotton yarn, but later hired weavers to work in their homes and sold the cloth thus manufactured, as well as varn. During 1790 and 1791 its employees consisted entirely of children from 7 to 12 years of age, most of them boys.b Women were later introduced as spinners, but we have no record of the date. Upon the first introduction of machinery it appears to have been common, indeed, for children to displace women in their traditional occupation, spinning. In the Globe Mills at Philadelphia, for instance. in 1707, most of the spinning was done by boys."

The spinning of woid by machinory was introduced later than that of cotton. In the Hartford (Conn.) Woolen Manufactory, started in 1788 and supposed to have been the first which used more than one loom, the yara, as late as 1794, when the factory was reported by Henry Wansey, the "Willshim Globine" to have been "in decay," was all spun by hand.⁴ This work was doubless done by women, and probably outside of the factory. As late as 1800 there appeared, in a newspaper article on the wool manufacture, an account of "the new constructed spinning jennies, lately rande by the newspaper and the sourd' on which "a single woman can assily spin from 20 to 30 runs of fine yara per day" and which "can be conveniently worked in a uny-private family."

In these early spinning mills the spinners were generally girls from neighboring towns, and the weaving was done by wonan, or by both men and women of the neighborhood. In 1811 President Timothy Dwight visited the cotton and woolen mills in Humphreys-

[&]quot; Greeley and others, Great Industries of the United States, 1872, p. 648

^b Baguall, Textila Industries of the United States, Vol. I, pp. 158,150; White, Memoir of Slater, p. 90.

Bishop, History of American Manufactures, 1868 edition, Vol. 11, pp. 71, 72.

d Wansey, Journal of an Excursion to the United States, pp. 60, 258.

[«] Haguall, Textile Industries of the United States, Vol. I, p. 264. Quoted from the Pittsfield Sun, November 18, 1809.

wills, Conn., and he stated that in both "the principal part of the labour * is done by women and children; the former hired at from 50 cents to 11 per week; the latter, apprentices." He added that the health and moral conditions were excellent, and that all of the operatives were Americans.⁴ Three years earlier, when the "Baltimore Cotton Manufactory" was put in operation, the announcement stated that i' a number of boys and giving, from S to 12 years of age are wanted," and that "work will be given out to women at their homes, and wildows will have the preference in all eases where work is given out, and satisfactory recommendations will be expected."

The records of the Poignaud and Plant mill show that both sexes were employed as weavers, about one-third being women. But in other cases the weaving appears to have been done entirely by women. Mr. Batchelder related that, six or seven years before the commencement of weaving by power loom at Waltham, he was one of the owners of the second cotton mill built in New Hampshire, and that, in order to dispose of his part of the product, he "undertook to manufacture yarn by the hand loom into shirting, gingham, checks, and ticking." Nearly overy farmhouse, he said, was furnished with a loom and spinning wheels "and most of the females were weavers or spinners, and were very willing to undertake to weave such articles as I proposed, in order to purchase calicoes and such other goods as they could not manufacture themselves." Before the war of 1812 he made a contract, he said, with the other owners of the mill to purchase the whole of the varn for several years, and extended his business so that at times he had about 100 weavers in his employ-"not constantly at work, but as they had leisure from other household employment. They came from the neighboring towns for the distance of 6 or 8 miles for the yarn and to return the webs. The price for weaving the different articles was from 3 to 7 cents a vard." He continued this business several years after the introduction of the power loom at Waltham, which was at first confined to plain sheetings and shirtings, while most of the goods he produced by hand looms were twilled or checks, such as were not then produced by the power loom."

Similiar customs prevailed in the neighborhoad of Providence, R. I., which was early a contex of cotton manufacture. By 1812 diere arcs said to have been, within a radius of 30 miles of Providence, in Khode Jahand hirty-three factories, and in Massachusetts twenty factories.⁴ Before the introduction of the power Ioma at PAII River

a Baguall, Textilo Industries of the United States, Vol. I, pp. 353, 354.

⁶ Idem, p. 489,

[&]quot; Webber, Manual of Power, pp. 24, 25.

d White, Momeir of Slater, p. 188.

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in 1817 little but the spinning of the yarm was done in the factorise there. "The cottom was picked by hand in the homes at 4 cents a pound, spun in the mills and then woven by the housewives in their dwellings."⁶ "The mills in the neighborhood of Providence kept wagons running constantly into the rural districts, infrading both Messechnesets and Connecticut, bearing out yarn to be woven and returning with the product of the hand looms, worked by the farmers' wives and dampthere of the country side."¹⁰

The rapid multiplication of factories using the improved spinning machinery almost immediately caused a great indrease in the demand for weavers to use the greatly increased amount of varn, and to fill this demand women took up, to a greater extent than ever before, the art of weaving. In 1812 Tench Coxe remarked that "women, relieved in a very considerable degree from their former employments, as carders, spinners, and fullers by hand, occasionally turn to the operations of the weaver with improved machinery and instruments, which abridge and soften the labor."e He recommended. at the same time, that "young females, particularly those who are bound as apprentices or otherwise, by the public guardians, and who continue for a time in private families," be taught the art of weaving. "It is a business," he said, "a good knowledge of which may be obtained in a few weeks, and it would be a great advantage to those families through the whole of their lives. It is principally by female weavers, that the States of North Carolina and Virginia have been unobservedly enabled to exceed all the others in the number of working looms, and that the Southern States have so imperceptibly advanced in the various cloth manufactures. The stocking looms of England and Germany," he added, "and the new broad and other hose-web looms of England are peculiarly and manifestly worthy of female attention, being much more profitable than the common very unproductive knitting needles."4

In a considerable number of early cotton factories, however, spinning by machinery appears to have been combined with hand weaving. This was the case at the Bovely factory, already mentioned, which in 1700 employed 40 persons, both new and wemen.⁴ This factory was closely followed by the Philadelphin 'manufactory' also previously mentioned, which was replexished with apparatus for both spinning and weaving of cotton goods in the spring of 1788.⁴ Other similar factories followed the intraduction of the Arkwright medines.

B Fenner, History of Fall River, p. 23.

b Peck and Earl, Fall River and Its Industries, p. 70.

[&]quot; Coxe, Statement of Arts and Manufactures, p. xxtv.

⁴ Ident, p. twn.

^{*} Rantout, The First Cotton Mill in America, Collections of Eccor Institute, Vol. XXXIII, p. 38.

[/] Bagnall, Textile Industries of the United States, Vol. 1, p. 78.

In these factories women and children appear to have been employed in spinning, and perhaps some women were also employed in weaving. A lotter written in 1790 by one of the proprietors of the Beverly factory proves further that even at that early date Beverly was not the only place where women were employed to operate machines. This letter complained that Worcester ''people'' had bribed a Beverly woman spinner who had been taught to use the machines ''to desert us as soon as ho could be useful to us.'' Rhode Island ''undertakers,'' too, were said to have ''treated us in the same manner.''

In some cases, however, the introduction of spinning machinery appears to have caused a kemocrary displacement of women by men. In the Dickson Cotton Factory at Heil-Gates, about 5 miles from New York, visited by Henry Wansey, the "Wilksline Clothier," in 1794, spinning machinery of the Arkwright type seems to have been operated at least in part by men, though Wansey recorded that "they are training up women and children to the business, of whom I saw 20 or 30 at work. They give the women," he added, "\$2 a wook and find them in hoard and lodigin," N I was further stated, however, that "they have the machime called the nule," which doubles accounts for the men spinners.

This type of "manufactory" survived, and new factories oven wore started upon this plan for a number of years after the first introduction of the power loom. In 1822, for instance, when the manufacture of cotton sail duck was first commenced at Paterson, N. J., hand hooms were used. Power looms, however, were substituted in 1824.*

It is impossible to make aven a rough estimate of the number of women engaged in the manufacture of textiles during this period. Some statistics can be given, to be sure, for the cotton industry, but these relate only to their employment in factories and take no account of the probably larger number of women who worked at home.

The first estimates which we have of the proportion of women to men in the textile industries relate only to cotton manufactures. Secretary Gallatin estimated in 1810, from the returns received from 87 mills, that the cotton mills of the country employed about 500

^a Rantoul, The First Cotton Mill in America, Collections of Essox Institute, Vol. XXX111, pp. 37, 38.

4 Wansoy, Journal of an Excursion to the United States, p. 84.

eWobber, Manual of Dever, p. 43. The town of Pateson had artiginally hean started in 1701 under a charter granted to an ambitious ection manufacturing corporation, but the schemes were too extensive to be cartied out and the factory ran only for about two years, from 1704 to 1796, when the 125 operatives were discharged. (Bugnall, Texulta Industrias of the United States, Vol. 1, pp. 178-182). It is recorded of this first cotton factory at Pateson that "the workshouses of New York Giv" were searched it to supply openatives." (Tranubul, History of Industrial Fasteson, 183.)

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men and about 3,500 women and children, or 87.5 per cent women and children.* It is, of course, impossible to determine how many of the children were girls and how many boys. In one factory near Providence there were employed on August 31, 1809, in the manufactory 24 mailes and 29 females, and in neighboring private families 50 males and 76 females.⁴ In this case, then, only 54.7 per cent of the persons employed in the factory and 58.4 per cent of all the employees were women, which would seem to indicate that a large number of boys were included in the estimate above given for the whole United States.

Another estimate of the relative employment of men and women in the cotton industry was made by the Committee of Commerce and Manufacturers in a report to the House of Representatives of the United States on February 13, 1816. It was as follows:*

 Males employed from the age of 17 and upward
 10,000

 Women and Jemale children
 66,000

 Boys under 17 years of age
 24,000

It appears from this estimate that about two-thirds of the employees wore women and girls. But four years earlier Tench Coxe estimated that in the manufacture of cotton yarn only one-eighth part of the employees should be adult males.⁴

Employment in textile mills or even in the manufacture of textiles for sale can not be said, however, to have become an important employment for women until the time of the second war with England and the introduction of the power loom. In 1800 only "500 bales of cotton ware manufactured in manufacturing establishments; in 1805, 1,000; in 1810, 10,000, and in 1815, 90,000." \star

THE COMPLETE FACTORY SYSTEM.

The third period of textile manufactures in this country began with the introduction in 1814 of the first successful power loom at Waltham, Mass. This brought weaving, as well as spinning, into the factories, and women followed the occupation in which, by reason of the growing elemand for weavers, they had already, to a great extent, displaced man. The change affected at first only cotton weaving, in which women had always surged to a far greater extent than in the woaving of wood. But gradually the power loom displaced the hand loom in other taxillo industries until women became weavers of all kinds of cloth and even of camptat. At the same time, too, the textile industries were brought completely under the dominance of the factory system.

⁴ American State Papers, Finance, Vol. IJ, p. 427.

[&]amp; Idem, p. 434, note D.

^{*} American State Papers, Pinance, Vol. III, p. 82.

Coxe, Statement of Aris and Manufactures, 1812, p. x.

American State Papers, Finance, Vol. 111, p. 32.

The changes which have occurred since the insuguration of the complete factory system in the textile industries of this country may be divided into changes in the relative employment of men and women, changes in hours, changes in wages, and changes in other labor conditions, such as in the character and nationality of employees, in their home environment, their amusenents, and their social position, and in factory regulations and the character and comparative healthflutness of their work.

The proportion of women as compared with men engaged in all the textile industries combined has decreased since the imaguration of the complete factory system. Table X shows that in 1860 half of the employees in textile industries were women and in 1900 only 40.6 per cent were women, but thore were such variations in the intervening years, and the opportunities for error due to changes in census classification are so great that the figures can be considered as only a rough indication of true changes.^a

In the complete textile factorics there was doubtless, from the beginning, a higher proportion of men than in the spinning mills, but the scarcity of labor supply and the high price of male labor both contributed to make women the chief dependence. The rapid development of the country and the many opportunities open to men for more remunerative employment made their assistance exceedingly difficult to obtain until immigration began upon a large scale. Even to women, with their far narrower opportunities, it was necessary to offer comparatively high wages as an inducement. But it was their occupations which were being transferred to the factory, and naturally they followed. As a correspondent of the Banner of the Constitution b said in 1831: "There is in fact no other market for this description of labor; there is no other mode in which, so far as national wealth is concerned, it can be made productive at all. The improvements in machinery have superseded all household manufactures so entirely, that labor devoted to them. so far as useful production is encorned, is as much thrown away as if it were employed turning so many grindstones. * * * Take

⁴ Special Roports of Comuse Office, Manufactures, 1005, Part III, Selected Industrics, p. ², gives the following as the preparion of women to all employees in the combined lexitik industries, including cotton manufactures, hosizy- and kriti geeds, wool manufactures, silk and silk goods, flax, homp, and jute products and dyeing and finishing textiles:

	Per cont.
1880	44.2
1800	48.4
1900	44.2
1905	44.7
b Banner of the Constitution, New York and Philadelphia, June 29, 183	. This
paper was perhaps the most important organ of the free trade movement of the	

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away the employment of females in the different branches of manufactures, chiefly in cotton and wool, and there is absolutely no market, no demand, for the great mass of female labor existing in the community. It is an inert, unproductive, untried power—an unknown canability."

COTTON MANUFACTURE.

It is, however, in particular branches of textile manufacture that the movement can be most accurately and profitably studied. For the cotton industry the figures show a steady and decided drop in the proportion of women employees. Even though no formal statistics existed, there is abundant evidence in contemporary descriptions that the cotton factories of the early part of the century employed many more women than men. Thus in 1819 the Waltham factory is said to have employed 14 men and 286 women," and one at Fishkill had from 70 to 80 employees, five-sixths of whom were women.^b In 1825 the Poignaud and Plant factory near Worcester, Mass., employed only 8 men and 39 women," and a couple of years later, in 1827, it was estimated a that the Lowell factories employed 1.200 persons, nine-tenths of them females and 20 of these from 12 to 14 years of age. In the same year the factories at Newmarket, N. H., are said to have employed 20 men as overseers and assistants, 5 boys, and 250 girls.4 The Chicopee cotton factory at Springfield, Mass., was reported in 1831 to employ about seven-eighths women. In Lowell, moreover, in 1833 all the factories are said to have employed 1.200 males and 3.800 females, and in 1834, 4,500 females out of a total of 6.000 employees.^A In 1835 seven Lowell companies employed 1,152 males and 4,076 females,⁴ and one company 65 men. 148 women, and 98 children. Other figures for all the Lowell fac-

a Carey, Essays in Political Economy, 1822, p. 162.

5 Idem, p. 459.

Seven men aud an oversee. See Abbett, Women in Industry, p. 89. Record taken from the Manuscript Time Books, Pelgnaud and Plant Papers, in the Town Izbarry at Lancaster, Mess.

⁴By Kirk Boott, a prominent Lowell manufacturer, in a lotter written in answer to questions from Mathew Carcy, of Philadelphia. This lotter was published in a number of contemporary newspapers, in White's Memoir of Slater, pp. 252-266, and a copy is to be found in Carcy's Exceepts, Vol. I, p. 250.

. White, Memoir of Slater, p. 134.

/ Niles' Register, July 2, 1831, vol. 40, p. 307.

g Boston Courler, June 27, 1833; quoted from the Lowell Journal. People's Magazine, March 8, 1834, Vol. I, pp. 201, 202.

4 Boston Transcript, May 27, 1834. Quoted from Bunker Hill Aurora.

(From a lotter dated Lowell, April 20, 1835, published in White's Momoir of Slater, pp. 255, 256. This does not include the Lawrence Company, which was running four mills

J Carey, Essay on the Rate of Wages, p. 95.

tories give in 1839, 2,077 males and 6,470 females;" in 1844, 2,345 males and 6,285 females; " in 1846, 2,415 males and 6,420 females;" in 1846, 3,340 males and 7,915 females; and in 1848 about 4,000 males and 9,000 females."

The proportion of women to men employees in cotton mills appears, however, not to have been as high in other parts of the country as in Lowell and its neighborhood. The cotton factories at Paterson, N. J., for instance, in 1830, are supposed to have employed about 2,000 males and 3,000 'smalles.

When the factory system was first introduced in this country two distinct "schools" of cotton manufacture arose, based in part upon the difference between mule and throstle (ring) spinning, in part upon the kind of loom employed, and in part upon the labor system. The Lowell "school," which followed the plan originally worked out at Waltham, used throstle spindles operated by women. Mule spinning was not introduced at Lowell until after 1830, and in 1845 it was said that a large mill soon to be completed, in which the spinning was to be done by mules, would be "the only one of the kind in the city." At Lowell, too, the employees were almost entirely girls from the farming districts, who were housed in factory boarding houses. At Fall River, on the other hand, mule spindles operated by men were used and the employees were hired by families-men, women, and children-and were housed in company tenements. The Fall River plan appears to have been followed by the factories of New York, Pennsylvania, and New Jersey.

Nevertheless, upon the whole, the proportion of women employees appears to have been much higher in the early outon factorise of this country than in those of England, a fact which Henry C. Carey accounted for by the more general use here of threath spinning? According to English statistics of this period about three-fourths of the mult spinners were men and three-fourths of the threath spinners were women./ In 1906 the census report shaved that the mult spinners

 As both types of loom were operated by women, this difference is not here of imporlance.

A Batchelder, Cotton Manufacture in the United States, p. 73.

(Miles, Lowell as It Was and as It Is, 1845, p. 80,

J Caroy, Kesay on the Rate of Wages, 1835, p. 75.

a Montgomery, Practical Dotail of Cotton Manufacture of the United States, p. 170.

^b Scoresby, American Factories and their Founde Operatives, p. 32.

^{*} New York Daily Tribune, August 16, 1845.

d Prairie Farmer, 1847, Vol. VII, p. 148.

[&]quot; An estimate from Handbook for the Visitor to Lowell, 1848, p. 9.

f'Trumbull, History of Industrial Patenton, p. 52.

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were almost exclusively men.⁴ In 1832 the females employed in cotton factories in England exceeded the males by about 9 per cent, while in the United States they were estimated to exceed the males by more thus 10 per cent.⁶

Gradually, however, the differences in the employment of women in cotton factories in various parts of this country and between this country and England have disappeared. The first statistics for the country as a whole are those of the consus of 1820, which are avowedly incompleta. According to these figures more than half the employees engaged in the manufacture of cotton goods and yarns were "boys and girls" ages not specified; only about 25 per cent were classed as women.⁶ The next statistics upon the subject, which are far more satisfactory, were collected in 1831 by a society called the Friends of Domestic Industry, and though also incomplete, appear to have been gathered- and compiled with care.⁴ The results of this investigation are contained in the following table:

• Special Reports of Consus Office, Manufactures, 1006, Part III, Selected Inductrics, p. 50. In genome the relative inperface of mule pointing by mone and thestilo or rigging apinning by mone and thestilo or rigging apinning by mone subtract of mule spinners and the kind of yara required. Lutin at least one instance astrike of mule spinners led directly to the methed status of the solution of monitories of the bard of the spin status of the status of the spin s

b Carey, Essay on the Rate of Wages, 1835, pp. 71, 72.

^c American State Papers, Finance, Vol. IV, pp. 20-223. In the manufacture of mixed cotion and woolen gooda about 40 per cont of the employees were "hoys and girls" and ubout 20 per cout women.

⁷⁴ "The information was collected by means of circulars addressed to all establishments "within the knowledge of the committee." The impartant estimation known to exist were in Vormont, from which returns were received only from the three vectures counties, and in the Southern and Western States, where no lean tas all establishments were haven to exist, hat from which is no examt for turns were received. The results were no holder to exist, hat from which is no examt for turns were received. The results were how the exist, hat from which no excent for turns were received. The results were published in the New York Coivention of the Friende of Domestic Industry, Report on the Production and Mannfesture of Cotum, 1332.

CHAPTER IL. TEXTILE INDUSTRIES.

	Total number of em- ployces.	Males om- ployed.	Formales em- ployed.	Children under 12 years.	Hond weavers.	Per cent of women of all era- ployees.*
Cotton millis: New Lisupplite	259 5,026 484 13,343 8,500 4,315 5,510 6,498 18,290 1,352 2,617 418	64 876 102 2,665 1,731 1,399 1,374 2,151 0,545 670 824 143	205, 4,000, 383 10,078 8,297 2,477 2,477 3,1070 3,070 8,351 6,351 6,351 6,700 1,703 275	(0) 19 3,472 439 4M 217	1,000 3,700	70.1 81.4 75.0 70.0 338.8 67.4 66.3 41.2 60.0 60.0 68.6 65.8
Total	66,917	18, 539	38,927	4, 601	4,760	.64.1
Bleacherles.	738	613 950	120 125	1430		47.1 8.3
Grand total	87,000	d 23, 301	39,178	6,121	4,700	H4.0

COTTON INDUSTRY OF THE UNITED STATES, 1831. .

Table from the Report on the Prediction and Manufacture of Cotton, 1372, p. 18. New York Conversion of the Friends of Domensie Infinity; I These preventions are not given in the "report," huit are added for conventence. They are based upon the supportion that all the hand we'vers were units. Clicity on the Production and Manufacture of Cotton, 1837, p. 18. These 430 "children" were called a support of the Production and Section 2010 (Souther 1997). "Report on the Promotion note encounter the second second

Assuming that all the hand weavers were men,ª it appears that of all the employees in cotton mills about 58 per cent were women. If the hand-loom weavers be entirely disregarded, 62.6 per cent of the omployees were women.^b Another fact which is evident on the face of these figures is the high proportion of women in Maine. New Hampshire, Vermont, and Massachusetts, and the comparatively low proportion in the other States, especially New Jersey and Pennsylvania, where the hand-loom weavers were found." The low proportion of women employed in Rhode Island is accounted for by the surprisingly large proportion of children under 12 years of age, about 40 per cent of the total number of employees. Children were also in evidence in Connecticut, New York, and New Jersey, and a fow in Maine and New Hampshire. This table brings out strikingly the differences in the employment of women in different sections of the country.

In a chapter on the employment of women in cotton mills,4 Miss Abbott gives the following percentages, which are supposed to

"This assumption is probably not far from the truth, as the hand weaven are reported only from the States of New Jersey and Pennsylvania, where the hand-leam weavers, so far as is known all men, were active trade-unionists between about 1835 and 1855. But of the "weavers" given in the consus of 1850 nearly 30 per cent were women.

^b Miss Abbott gives this percontage as 68 (Women in Industry, p. 102), but her figures, as there given, do not include either the 4.691 "children under 12 years" or the "hand weavera," and both were evidently neglected in obtaining this percentage.

#If the hand-loom weavers are disregarded, the percentage would be 56.4 in New Jorsey and 56,1 in Ponnsylvania.

" Abbatt, Women in Industry, p. 102. For her method of obtaining these figures, 800 mme work, p. 359.

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represent the employment, on the one hand, of men and boys combined, and, on the other hand, of women and girls combined:

NUMBER OF COTTONMILL EMPLOYEES OUT OF EVERY 16,000 IN POPULATION OVER 10 YEARS OF ACE.

Date.	Mén.	Woman.	Per cent women formed of nil ora- playees.	Dete.	Men.	Womon.	Per cont woman formed of all em- ployees.
1811	53 30 41 38	111 74 09 58	* 158 61 62 60	1890 1800 1900 1905	40 41 52	16 51 52	57 51 19 47

o This figure, as has already been pointed out, is the percentage of women of the total number of men and women, disregarding the children and the hand weavers.

It is evident that there has been a steady decrease in the proportion of women, as compared with men, engaged in the manufacture of cottom. The same decrease is seen in Table X, where the apparently sudden break in 1870 is accounted for by the fact that the percentages for that year and later relate to the employment of women alone as compared with both men and children.

It is also evident that the number of women cotton-mill operatives to the total founda population 10 years of age and yore has standily decreased, with the single exception of a slight increase between 1890 and 1900. The proportion of men has fluctuated decidelly. Since 1870, however, it has standily increased, and the present tendency appears to be decidedly toward a displacement of women by men in cotton factories.²

*Some interesting figures in report to the average number of nale and fendel employees ongaged in each room of the Boot Cotton Mill No. 1 at Lowell for four weeks during May of 1838 and 1878 were given in a paper read by William A. Barke before the New Foughand Association of Cotton Manufacturess on October 25, 1876. The figures were as follows (Webber, Manufactures) pr 97.):

Operatives.	Average number in May, 1838.	Average number in May, 1876.
Card room (including picking): Mates Vennikes Stuantie room:	14.3 33.0	9.32 11.0
Males Foundes (including spoolers)	4.18 55.0	2.5 25.0
Malea Yennoles (heluding warper tonders).	2.0 20.0	1.5
Males. Feinnles.	3, 0 86, 0	2.5 34.0
Total males	23.48 203.0	16. K2 74. 0
Total operativya	220. 48	89,40

It will be observed that there was a large decrease in the total number of operatives, which was decidedly more pronounced in every department in the number of women Meanwhile the proportion of women to the total number of omployeen in Massachusetts cotton factories, which in 1831 was 80 per cost, has steadily decreased until in 1905 it was only 48 per cent, only 1 per cent higher than for the entire United States.

These changes are in part due to the substitution of a foreign for a utilive labor supply and in part to improvements in machinery. It has already been seen that wherever the family system of labor was adopted more men and, obviously, more children were employed, and in the North the family system has usually meant foreign labor. But this change will be later discussed. The essential points to be have noted are the changes in the technique of the industry which have anded it possible for men to displace women in their traditional occupation.

This obtracticities and relative importance of throads and multispinning as they affect the employment of women have already been discussed. But in weaving, teo, the introduction of improved and fast loome has led within recent years especially to the aubstitution of men for women weaverse." In this dressing rooms, moreover, in which, in the early years, women were almost exclusively employed under a man overseer, men now work amid intense heat, as a result of the introduction of a new medium called the "fasher," be The offern, too, who were formerly urish, are now perhars as of ten buys.

Still another reason for the increase in the proportion of men is, probably, the change in the elementer of genols produced. In the early years of the cotton manufacture in this country a large proportion of the goods manufactured were coarse and plain. More complicated looms, requiring a greater amount of adjustment, and more attention to bleaching, dyeing, and printing, have doubtless tended to increase the urenorition of mene membered in the industry as a whole.

The tendency, to sum up, is distinctly toward the displacement of women by men in the cotton industry. The reasons for this cited by

than of mon. Mean-while the number of spiniller bad increased from 6,144 to 0,005, the number of house from 150 to 191, and the number of houses from 150 to 191, and the number of house from 150 to 191, 893 in 290 hours in 1870. This improvements in machinary, and perhapsa also in comparization, had a volutedly visiphered both maw and women, but the decrease in the number of women was match greater than in the number of most.

"Twelfth Cenams, 1900, Manufactures, Part 111, Selected Industries, p. 32,

▶ Light is thrown upon the endeditation of more for vomen in the drewsing room by the falsoring incident. In 1646, where the agent of the Merrima Corporation support the fans in the drewsing room and endered that the girls about 1 put tay they are used in the Merrima Corporation Structure (Daily Feyning Voice, Luby 5, 1860). The attribe was accessing and an direct that is the disclosed from two to four men, the right seven an attribution of the Bostor Voice works. This are many mean where the the Asset of the Bostor Voice works: "It takes many accessing that the Lawell correspondence of the Bostor Voice works: "It takes many accessing the face of the the object weak is a structure of the Westor Voice works: "It takes many work to put up size, and three meany mean where who would not much rather face a risk limit of Westy Voice, July 12, 2062.)

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the census of 1900 " are that "the operation of some of the modern machines requires the care of mon, because it is beyond the physical and nervous capacity of women." that there has been a decrease in the number, always small, of women employed as mule spinners, and that the generally improved conditions of labor have enabled a larger proportion of men to support their families without the assistance of the wife and children, or else the latter find employment in shops and offices. "The number of places," added the census of 1905, " "in which women can profitably be employed in a cotton mill in preference to men or on an equality with them, steadily decreases as the speed of machinery increases and as the requirement that one hand shall tend a greater number of machines is extended. Accordingly, we find that without any concert of action-perhaps unconsciously to the general body of manufacturers-there is a slow but steady displacement of women by men. In the New England States, in twenty-five years. the proportion of women employed has dropped from 49.7 per cent to 45 per cent; that of men has risen from 36.2 per cent to 49 per cent."

WOOL MANUFACTURE.

In the manufacture of wool a smaller proportion of the labor supply has always been furnished by women than in the manufacture of conton. In the Ameshury mills at Newhuryport, Mass., which manufactured broadcloth and flannels, the proportion of males to females were said in 1827 to be as 3 to 11^c but certain woolen mills in Connecticut in 1831 capitoyed about 44 per cent female hands,⁴ and a woolen mill at Lowell about 1835 is aid to have couployed 44 men, 57 women, and 39 childrens.⁴ In the entire State of Massachusetts, in 1837, there were reported as songrad in woolen mills 3,612 males and 3,482 or nearly as many, females,⁴ and in 1845, 3,901 males and 3,471 females,⁶ acain nearly as many females.

The first statistics for the entire country of the manufacture of "woolen and worsted goods," those of the census of 1820, show only

⁶ Special Reports of Census Office, Manufactures, 1905, Part III, Selected Industries, pp. 29, 30.

• Merimack Journal, Lowell, Mass., January 12, 1827, quoted from the Newburyport Herald.

⁴ Documenta relative to the Manufactures of the United States, Executive Decuments, first session, Twenty-second Congress.

Carey, Essay on the Rate of Wages, p. 95.

J Statistical Tables Exhibiting the Condition and Products of Cortain Branches of Industry in Massachusetta for the Year Ending April 1, 1837, p. 189 et acq.

Statistics of the Conditions and Products of Cortain Hranches of Industry in Massachusets for the Year Ending April 1, 1845, p. 329 et seq. There were also 208 men and 548 women reported under "worsted" and 715 men and 319 women reported under "carapting."

o Twelfth Consus, 1900, Manufactures, Part III, Selected Industries, p. 32.

CHAPTER II .--- TEXTILE INDUSTRIES.

about 14 per cent of the employees to have been women, but about 30 per cent were boys and girls, ages not specified."

For all wool manufactures occept "hosiery and knit goods" the census figures give 41.5 per cent women in 1850, 40.8 per cent in 1860, 37.3 per cent in 1870, 37.0 per cent in 1880, 42.1 per cent in 1800, 40.3 per cent in 1900, and 40.1 per cent in 1905.⁵ The proportions have evidently not varied to any great extent, but since 1890 there has here a slight decrease in women due, doubtless, to the same causes as in the cotton industry—the increased speed and efficiency of modern machinery. The tendency is not marked in "woolen goods" proper, "but is decided in "worsted goods." The proportion of women to men in carpet factories has, however, increased.⁴

HOSIERY AND KNIT GOODS.

In the hosiery and knitting industry women originally had practically a monopoly. But in the latter part of the eighteenth century hand looms operated by men were introduced, and in the thirties power looms which brought with them the factory system and almost entirely displaced women hand knitters. In 1846 there were reported to be employed in the manufacture of hosiery in Massachusetts 53 "imale hands" and 186 "demails leads." & Women evidently to a considerable extent followed the industry into the factory. In 1844 it was bosted that "a girl can make, with a power loom, 20 pairs of drawers a day." W Even in the fifties, however, the hand-hoom waving of hosiery was an important business in Philadelphia. The actual waving appears to have been done by men.

⁹ American State Papons, Financo, Vol. IV, pp. 29-223, 201-297.

⁴ The preventages for 1850 and 1860 are derived from the islable in the "weight Censue, 1960, Manufatture, Part HI, Folescher Iluuistrien, p. 122; and choos for 1550 to 1000 are as given in tha Special Reports of Censue Office, Manufactures, 1065, Part I, p. 1883 and 1860 the precentages are for "Monie hands" and in the after years for "monie to Special Particular Censue Office, Manufactures, 1065, Part I, p. 1997, Sector 1997, "The inductive included in this summary new years for "monies the Special Particular Censue," The inductive includes in this summary increases of the Special Particular Censue, "Monie particular Censue, "Society pack," "Annotation of the Special Particular Censue, "Society pack," To his their signation in Table X, P. 255, instruct of in Table X, P. 2018, "Monie Censue, "Society pack," Tables Censue, "Monie Table X, P. 255, instruct of in Table X, P. 2018, "Monie Censue," Society pack, "Table X, Censue, Tables Censue, Tables Censue, "Society pack," Tables Censue, "Monie Table X, P. 255, instruct, and in Table X, P. 2018, "Monie Censue," Tables Censue, "Monie Tables X, Pensue, "Monie Tables X, Pensue,

c:Sou Table X, p. 252, The Twelfft Counce, 1990, Manufactures, Part III, Selverin Fuku tien, p. 98, Physica Barne Signers an in Table S to 1880, 1980, and 1990, hit for 1860 given 16,774 women, making the precentages 29, 16 1800, 16,754 women, making the precentages 29, 23, and for 1990, 2, 26,28 women, making the precentages 29, 31, and for 1990, 2, 26,88 women, making the precentages 29, 32, and for 1990, 2, 26,28 women, making the precentages 29, 33, and for 1990, 2, 26,88 women, making the precentages 29, 31, and for 1990, 2, 26,88 women, making the precentage 29, 33, and for 1990, 2, 26,88 women, making the precentage 29, 34, and women and the set of the precentage 20, 20, and for 1990, 2, 26,88 women, making the precentage 20, 34, and 1990, 20, 1990, and 19

⁴ A compet factory at Paltimore in 1823 complexed from 50 to 60 men and ajout 40 wronen and ehildren, (Nilos' Register, Baltimore, Oct. 5, 1833, vol. 45, p. 83). In Biol, 35.7 pre cond 61 dis complexes engaged in the manufacture of "carpets and rugs, other than rag," were women. (Special Reports of Consus Office, Manufactures, 1905, Part 1, p. 5.).

* Statistics of the Conditions and Products of Certain Branches of Industry in Massachusetts for the Year Ending April 1, 1845, p. 329 et seq.

f Workingman's Advocate, New York, May 11, 1844. Quoted from the Atlas.

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but the business is said to have afforded "employment to a large number of formales, who sew and finish the various articles affor they leave the frame; and thus at leisure hours add to the income and comforts of their families."^a

Since 1870 hosiery and knit goods show a decided increase in the proportion of women employees, which was 64 per cent in 1870 and 64.2 per cent in 1900.³ In 1905, moreover, the proportion of women rose to 66.4 per cent, a little over 2 per cent higher than the percentage of "female hands" in 1880. The movement, however, has fluctuated considerably and the recent change is attributed merely to the extension of the industry in the South*

BILE MANUFACTURE.

The manufacture of silk was begun on a small scale in colonial days, but was only a rare household industry until about 1820, when the first silk factories began to appear.⁴ About the same time, too, the raising of the silk worns, as well as the resoling and preparing of the silk, was persistently urged as a suitable employment for women and children.⁴ It was pointed out that "this will be a work at home, by one's own fireside, and in one's own domestic circle; and will open an employment for females healthful, profitable, and pleasant." In 1835, indeed, it was expected that the development of silk manufactures would give "typofitable employment to vast numbers of women and children at their own homes."

Early in the thirties, however, the power loom was applied to silk manufacture, and the factory system began to develop.^A In the silk manufacture of Massechusetts there were reported to be employed in 1837, 36 "male hands" and 89 "fomale hands," and in 1845, 28 "male hands" and 128 "fomale hands," These figures, of course, relate only to Massachusetts, where the proportion of women employees in textile industries has always been high. But in 1850 females, without distinction of gae, appear to have

^a Freedloy, Philadelphia and Ita Manufactures, 1858, pp. 254, 255.

^b See Table X, p. 252.

«Special Reports of Census Office, Manufactures, 1995, Part III, Selected Industries, p. 63.

4 National Gazette, Philadelphia, January 13, December 30, 1829.

* Niles' Register, March 19, 1831, and November 16, 1833.

/ The Man, New York, March 17, 1834. This was a labor paper edited by George-Henry Evans.

@ National Gazette, August 22, 1835.

^b In 1834 power looms were in use in a factory at Liebon, Conn. (The Man, April, 1834. Quoted from the New York Journal of Commerce.)

Statistical Tables Exhibiting the Condition and Products of Certain Branches of Industry in Massachusetts for the Year Ending April 1, 1837, p. 169, of seq.

J Statistics of the Condition and Products of Certain Branches of Industry in Massachusetts for the Year Ending April 1, 1845, p. 329 et see. constituted 02.5 per cent of the employees engaged in the manufacture of "isilk and sike good" and 65.3 per cent of those congaged in the manufacture of "isilk, sewing and (wist." In 1800 the proportion of women appears to have been even higher, but in 1870, when the children were separately given, the women alone in both branches of silk manufacture constituted only 53.1 per cent of the employees. In 1900 their proportion was almost precisely the same, 53.2 per cent, but in 1906 it had risen to 56.3 per cent. The proportion of children declined from 20.8 per cent. 1870 to 2.9 per cent in 1906, and the proportion of men rose from 26.1 per cent in 1870 to 34 per cent in 1095.4

Many changes, however, have occurred in the silk industry which do not appear on the face of the statistics. Machinery, for instance, was substituted about 1857 for female labor in the entiting of fringes.⁴ In the weaving of ribbon, moreover, which was formerly almost all done by mer, it he high-speed looms introduced between 1800 and 1900 are said to have caused a substitution of women for men, hecause the ease in manipulation made the work suitable for women.⁴

OTHER TEXTILE INDUSTRIES.

These four industries, cottan, woolen (including worsted), hesicry and knitting, and ailk, contained in 1900 about 88 per cent of all the wormen engaged in the group, "toxilio industries" as given in Table X. Of the other industries there given, which employed in 1900 over 2,000 women, the proportion of women has, upon the whole, decrassed in the manufactures of "jute and jute goods." But in 1905, 50.7 per cent. of the employees in this industry were women," an increase over 1900. In the manufacture of cordage and lwine there appears to have heen a large increase in the proportion of women between 1880 and 1890, that since the latter date the proportion has stachily declined, being 34.2 per cent in 1905."

⁶ Special Reports of Census Office, Manufactures, 1905, Part I, p. lxxxi. See also Table X, p. 252.

b Freedley, Philadelphia and Its Manufactures, 1858, p. 247.

 In 1871 the employment of one woman silk weaver in an establishment at Milton caused a strike among the men. (The Revolution, May 25, 1871.)

⁴ Twelith Cennus, 1900, Manufactures, Part III, Selected Industries, p. 208. In 1905 there were reported as ribbon weavers 4,398 men, 1,528 women, and 47 children. (Special Reports of Commu Office, Manufactures, 1905, Part III, Selected Industries, p. 177.)

«Special Reports of Census Office, Manufactures, 1905, Part I, p. 11.

I dam, p. 7. In 1820 three were reported as engaged in the manufacture of cotton, flax, and hemp bagings, cables, and contique 880 ones, 18 women, and 400 children, er J. A per cent women. (American State Papera, Finance, Vol. IV, pp. 29-232, 201-207). Statistics of manufacturing industries collected by the census of 1280.) One cording factory in Philadelphia in 1838 issuit to have employed 70 hands, about cantifuid ignamics. (Preclav. Philadelphia and 18 Manufacture, 1838). or 37.4)

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employees appears to have increased since 1890, being 15.9 per cent in 1905.* And in the manufacture of 'hegs, other than pape,'' the proportion of women employees increased steadily and rapidly from 1850 to 1900, but dropped from 65.3 per cent in the lattor year to 50.7 per cent in 1905.* In the manufacture of 'upholatering materials,'' in which nearly 2,000 women were engaged in 1900, the proportion of women employees has increased decidedby since 1880. As early as 1845, however, a considerable number of women in New York were engaged in the weaving of har oldth, which was done by hand looms worked by two girls, and also in the picking apart of curled hair, which was generally done, it was said, by married Irish women and their children at home.* Soon afterwards, however, power looms were introduced for the weaving of hair cloth, and one girl could attend ten looms.*

HOURS OF LABOR.

The hours of labor in textile factories in the early part of the nineteenth contury were much longer than within recent years. In Massachusetta in 1825 the "time of employment" in incorporated manufacturing companies was "generally 12 or 13 hours each day, excepting the Sabhath." Of the places which reported the number of hours in that year, at only two, Ladlow and Newbury, were the hours as low as 11 a day. At Brinfold, West Boylston, Bellingham, North Bridgewater, Chelmsford (Lowell), Danvars, Franklin, Framingham, Mepkinton, Pembrake, Reheboth, Southbridge, Seekonk, and Taunton the hours were 12 a day, at Northborro 114, and at Springfield 124. At Daxboro the hours were from aurise to sunset, and at Tray (Fall River) and Wollington the employces worked "all day." In 1820, 15 or 16 heurs constituted, according to the Hon William Grav, the working day at Ware, Mass.

- « Special Reports of Consus Office, Manufactures, 1965, Part I, p. 7. In 1820 2023 persons were engaged in wood confing, eddh dressing, dyshut, and eallico printing, eddh dressing, dyshut, and 160, or 20.3 per cent, were broacn, and 160, or 20.3 per cent, were broacn, and 160, or 20.3 per cent, were broacn and 160, nor 20.3 per cent, were broacn and 160, nor 20.3 per cent, sere bays and girls. (American State Papers, Finance, Vol. IV, pp. 20-225, 201-297. Statistics of manufacturing industries collected by the census of 1520.)

è ldem, p. 3.

« For an interesting description of the work of women in the manufacture of hair cloth and of curled hair at this period ace New York Daily Trilinne, August 23, 1345. d Greeley and others, Great industries of the United States, pp. 531, 632.

• Massechasettal agabatire Pollea, 1923, Sontat, No. 8974. Menueript. Topprinted in Documentary Distance of American Industrial Society 20, 40, Pp. 57–61. A UPper Viail day." manui in winter from sis soon as theopenatives could see nutil 7.30 in the available on numeric proceedings and half and note of enfonce, and in summer from movies to numeric, with fail an hore for breakfast and three-optractes of an hore for diance. According to Norme, Generation of the Power Learn, 15.30, cotton aphances at the Depinand and Plant MIR, Warester County, Mass., worked 12 hours a day in 1812.

/ Gray, Argument on Polition for Ton-Hour Law before Committee on Labor, February 13, 1873, p. 5. By the thirties the hours appear to have been, if anything, longor. At Fall River, about 1830, the hours were from 5 a. m., or as soon as light, to 7.30 p. m., or till dark in summer, with one-half hour for breakfast and the same time for dinner at noon,^a making a day of 134 hours.^b In general the hours of labor in taxtile factories in New Hampshire, Rhode Island, and Massachusetts in 1832 were said to be 13 a day.^a But at the Eagle Mill, Griswold, Conn., it was said that 15 hours and 10 minutes actual labor in the mill were required.^d

At Paterson, N. J., in 1835, the women and children were obliged to be at work at 4.30 in the morning. They were allowed half an hour for breakfast and three-quarters of an hour for dinner, and then worked as long as they could see.⁴ After the strike of that year, however, the hours at Paterson were reduced to an average of 114 a day.⁴ At Manayunk, Philadelphia, in 1833, the hours of work were said to be 13 a day.² And a hitdlater the hours with the Schuylfell factory, Philadelphia, were "from sunrise to sunset, from the 21st of March to the 20th September, inclusively, and from sunrise outil 8 o'clock p. m. utring the remainder of the year.⁴ One hour was allowed for dinner and half an hour for breakfast during the firstmentioned its months, and one hour for dinner during the other half year. On Saturdays the mill was stopped "one hour before sunset for the purpose of cleaning the machinery.^{*} h

A detailed statement of the hours of labor in celton factories, and one which may be considered to represent roughly conditions from early in the thirties until the beginning of legislation in 1847, and oven later in many places, was made in 1839 by James Montgomery, superintendent of the York factories at Saco, Mo. It esaid: t

From the 1st of September to the 1st of May work is commenced in the morning as soon as the hands can see to advantage, and stopped regularly during these eight months at half past 7 o'clock in the ovening.

During four of these eight months, viz, from the 1st of November to the 1st of March, the hands take breakfast before sunrise, that

Free Enquirer, June 14, 1832; The State Herald: The Factory People's Advocate, Fortsmouth, N. H., June 7, 1832, gave the average hours as 13}.

#Luther, Address to the Workingmon, third edition, 1836, p. 20.

*Idem, p. 43. From the report of the committee appointed by the "Mechanics and others of Newark" to inquire into the Paterson strike of 1935.

/Commercial Hullotin, St. Louis, August 24, 1835; Workingman's Advocate, Now York, August 20, 1835.

g Pennsylvanian, August 28, 1833.

⁸ Luther, Address to the Workingmon, third edition, 1830, pp. 49, 50. "Rules of the Schuylkill Manufacturing Company."

4 Montgomery, Practical Detail of the Cotton Manufacture of the United States, 1840, pp. 173, 174.

a Peek and Earl, Fall River and Ita Industries, p. 28,

⁶ See also Penner, History of Fall River, p. 23.

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they may be ready to begin work as soon as they can see; but from the 1st of April till the 1st of October 30 minutes are allowed for breakfast at 7 o'clock, and during the months of March and October at half past 7.

During the four summer months, or from the lst of May to the lst of September, work is commenced at 5 o'clock in the morning and stopped at 7 in the evening.

The dinner hour is at half past 12 o'clock throughout the year; the time allowed is 45 minutes during the four summer months and 30 minutes during the other cipht.

The following table of the average hours of labor has been furnished ine by an experienced manufacturer, and is deemed as correct an average as could be given. The time given is for the first of each month:

Month.	Hours.	Minutes.	Month,	Hours.	Minutes.
January Yebnuary Murch April. May Jume	11 411 13 13 12 12	24 80 82 21 45 45	July Angust. Replember October Navember. Docember.	12 12 12 12 12 12 11	45 45 19 19 80 24

AVERAGE HOURS OF WORK PER DAY THROUGHOUT THE YEAR.

The hours of labor on the lat of March are less than in February, aven though the days are a little longer, because 30 minutes are allowed for breakfast from the ist of March 10 the ist of September.

Taking one day for each month the whole number of working hours in the year, according to the proceeding table, now 146 hours 44 minutes, which, divided by twelve for the number of months, gives a result of 12 hours 18 minutes as the average time for each day, or 73 hours 18 minutes per week; therefore about 734 hours per week may be regarded as the average hours of table or in the cotton factories of Lowell, and generally throughout the whole of the eastern district of the third States. In many, perhaps in the mojority, of the cotton luticel States. In many, perhaps in the mojority, of the cotton summe are from sumine to sumst, or from half past 4 c'dock in the uncoming (11 half past 7 in the overling, being about 134 hours per day, equal to 824 hours per weak. In these factories the average hours of haber throughout the year will be about 754 per week.

The Rev. Henry A. Miles gave this asmo table of hours as representing conditions in Lowell in '1845, and added' "In addition to the above, it should be stated that lamps are nover lighted on Saturday ovening, and that four helidays are allowed in the year, viz, Fast Day, Fourth of July, Thembegiving Day, and Christmas Day, " ** The statements of a writer in the Voice of Industry in 1845, too, giving the entunh lowurs worked in different factories in Lowell, winter and aummor, appear 16 indicate that no reduction had occurred, and in Manichester, N. I., the hours were said to be practically the same as

a Miles, Lowell as It Was and as It Is, 1845, p. 101. Nearly the same figures were given in the Voice of Industry, June 26, 1845. - at Lowell.^a In the same year, moreover, the special committee of the Massachusetts legislature appointed to consider the subject of hours gave in the report, as representing the hours of labor at Lowell in that year, the same table that had earlier been given by Montgomery.^b

Not only were the hours very long, but it was frequently complained that they were often extended from 5 to 30 minutes by various devices. Sometimes, it was said, the correct time was used to begin work, but slow time to end.⁴ Similar complaints were made in 1860.⁴ This contom, indeed, was made the subject of bitter complaint by the committee of the New England Association of Farmers, Mechanics, and Workingmon, which reported in 1852 cm. 'I the education of children in manufacturing district,'' as follows:⁴

In the return from Hope Factory, R. I., it is stated that the practice is to ring the first bell in the morning at 10 minutes after the break of day, the second bell at 10 minutes after the first, in 5 minutes after which, or in 25 minutes after the break of day, all hands are to be at their labor. The time for shutting the gates at night, as the signal for labor to cease, is 8 o'clock by the factory time, which is from 20 to 25 minutes behind the true time. And the only respite from labor during the day is 25 minutes at breakfast, and the same number at dinner. From the village of Nashua, in the town of Dunstable, N. H., we learn that the time of labor is from the break of day in the morning until 8 o'clock in the evening, and that the factory time is 25 minutes behind the true solar time. From the Arkwright and Harris Mills in Coventry, R. I., it is stated that the last bell in the morning rings and the wheel starts as early as the help can see to work, and that, a great part of the year, as early as 4 o'clock. Labor ceases at 8 o'clock at night, factory time, and 1 hour in the day is allowed for meals. From the Rockland Factory in Scituate, R. I., the Richmond Factory in the same town, the various establishments at Fall River, Mass., and those at Somerworth, N. IL, we collect similar details. At the numerous establishments in the village of Pawtucket, the state of things is very similar, with the exception of the fact that within a lew weeks public opinion. has had the effect to reduce the factory time to the true solar standand. And, in fact, we believe these details to serve very nearly to illustrate the general practice.

⁶ Valce of Industry, December 29, 1846. At Great Falls, N. H., in 1844 a corregondent of the Working Man Atvicent (Sept. 7, 1849) and 114⁻¹¹ the gridware salidate to their works at 5 o'elecks in the merring, at 7 the belt range for breaking, and in 15 minutes the belt gains call them to work; they are allowed 20 minutes for diance, are again called to work and kept in until 7 o'eleck, making in all more than 13 house, for which they receive 31.25 of 25 µer work.¹¹

^b Massachusetts Ropert on Hours of Labor, Honse Document No. 69, 1845, p. 9. Reprinted in Documentary History of Amorican Industrial Society, Vol. VIII, pp. 133-151.

^c The State Herald: The Factory People's Advocate, January 6, 1831; Luther, Address to the Workingsnen, third edition, 1836, p. 10.

4 Voice of Industry, February 27, 1846. The Voice of Industry was a labor paper, the organ of the factory operatives.

* Free Enquirer, June 14, 1832.

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From these facts, your committee gather the following conclusions: (1) That on a general average, the youth and children that are employed in the cotton mills are compelled to labor at least 134, perlays 14 hours, per day, factory time; and (2) that in addition to this, there are about 20 or 25 minutes added, by reason of that being so much alower than the true solar time; thus making a day of hoor to consist of at least 14 hours, winter and summer, out of which is allowed, on an average, not to exceed 1 hour for rest and refreshment.

Overtime, too, was frequent. Many of the corporations at Lowell, according to Mr. John Quiney Adams Thayer, ran "a certain quantity of their machinery, certain portions of the year, until 9, and half past 9 o'clock at night, with the same set of hands." •

The "lighting inp" period, during which the operatives worked "by lamplight in the morining as well as a tright," a laso caused a great deal of complaint. "By candlelight in the morning and by candlelight at night they must prosecute their painful labor," said the Awl. The 20th of March, when the light were "libown out" for the senson, was regularly eelobrated in factory towns by the operatives, "who decorate their large fanging lanns with flowers, and form garlands of almost every ingonious description in honor of 'lobe-out' evening." A "The operatives, indeed, found cold comfort in the splendid "view of the mills at evening, when lighted during the winter months," whon, from "some eminence it seems as if the whole (ity were celobarting some holdsay in a general illumination."s In 1846, indeed, there was a strike at Nashua, N. H., against work "by candleligh."

It should be said, however, that the operatives did not all work these hours. The warpers, for instance, who were obliged to stand constantly at their work, were not required to work as many hours as the other operatives, "being frequently permitted to leave the mill some hours hours the fore the rest." $\delta = Dressers, drawars-in, harness$ knitters, cloth-room girls, and earders are also mentioned as notworking so long as spinners and wavers, while even the latter could $somatimes give their work to a "spare hand." <math>\delta$

The Reversed Mr. Miles, indeed, asserted that, though these were the hours during which the wheels were run, "by a system adjusted to secure this end, by keeping engaged a number of sparse hands, by

⁸ Thayer, Review of the Report of the Special Committee * * * on the Petition Relating to the Hours of Labor, Boston, 1845, p. 16.

^b Workingman's Advocate, October 5, 1844.

[&]quot;The Awl, Lynn, Mass., October 2, 1844. Quoted from the New England Operratives' Magazine. The Awl was a labor paper.

d Voice of Industry, March 26, 1847.

e Handbook for the Visitor to Lowell, 1848, p. 34.

[/] Voice of Industry, October 2, 1846.

ø Miles, Lowell as It Was and as It Is, 1845, p. 82.

A Lowell Offering, December, 1845, vol. 5, p. 281.

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occasional parmissions of absence, and by an allowed exclange of work among the girls, the average number of hours in which they are actually employed is not more than $10^{3/40}$. This, he said, was not a mere assertion, but had been ascertained by a careful examination of the records kept by the overseer of Boott Mill No. 1, during on year, northin smill, he said, were 106 girls who had been employed a year, working by the job. Disregarding 20 other girls working by the job but who had not worked a year, he said that the record of the 106 girls was as follows:⁹ "In the weaving room 56 girls worked 14,097 days. In the dressing room 17 girls worked 4,403 days. In the spinning room 21 girls worked 5,615 days. In the card room 12 girls worked 5,536 days. Total, 106 girls worked 5,636 days.

This gave as the "average number of days per year to each girl, 280.86. Average number of hours per day, to each girl, 10 hours and 3 minutes." The average number of hours of 31 girls who worked by the day, for a period of 2 months, he found to have been 10 hours and 42 minutes. These figures, he said, did not include absences whon the girls put their work into the hunds of friends. He acknowledged, however, that in some cases, called "rate exceptions," extra hours were run for the purpose of equalizing the work, when the lights "never in the whale mill, but only in one or two of its rooms, are kept burning till 9 or 10 of colock."

The labor press early began to protest against the long-hour system and to egistic for a 10-bour day,⁴ and sticks for shorter hours were frequent.⁴ Naturally the againtion was uphill work. One writer, replying to Selh Lathor's Address to the Workingmen,¹ asked: "What elses of working people labor as few hours in every 24 as factory people labor in the exiton mills.⁴⁹ "They leave off work, he complained, at half past 7 in the ovening while "hobdyd, at this season of the year, thinks of leaving off work, on ordinary occasions before 9, 10, or even 11 o'clack." Horace Greeley, even, hought that "the factory women work as few hours as those of my other class of female labores, which the fact that the mills are greatly

c Idom, p. 107.

4 The Side H lends: "The Pactery People's Advecta, January 6, 1831, solit: "The pactice of numericaning people to werk and Inpact is in the meming, and keeping them ill 8 at alght, in the winter, and from daylight (III anused in the annuner, a faratriss, in abarimble), and without preceduate in older builties; no other class of people even think of habring more than 12 hours, numer or winter. Now ii people must do to work, we have a start of the start o

* History of Women in Trade Unions, Vol. X of this report, p. 61 et seq.

f A Review of Seth Luther's Address to the Workingmen of New England, by a Factory Hand, Waltham, November 28, 1832, p. 21.

[#] Miles, Lowell as It Was and as It Is, 1845, p. 103.

b Idem, p. 105.

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preferred to housework by nine-tenths of those who have tried both, is undeniable." "Let us all," he added, "stand by the tariff.""

Even the operatives were often, it was said, against a reduction of hours, believing that it would result in a reduction of wages. Harriet Farley, editor of the Lovell Offering, thought a reduction in hours would be desirable "were the factory operatives all young, unmarried, and always to remain single, and laways without others dependent upon them," but thought it would work hardship to widows who were toiling for their children, to children who were toiling for their parents, and to many others.^b

In spite of rebuffs, however, the work of educating public opinion progressed. Petitions for 10-hour logislation,* signed by hundreds of factory girls,⁴ were repeatedly presented to the Massachusetts logislature, and repeatedly legislative committees were appointed to inquire into the subject.

Vorse, too, was employed by the factory girls to express their aspiration for a 10-hour day. According to "Almira."

> Great and glorious is our cause, Commandel by our Maker's hway; These laws which elevate mankind command us to contarge our minds, To cultivato our mental powers, And thus culow these minds of ours, Timo, to this is all we claim, Timo, us etruggits to olvian, Then in the name of Preedom rise, Nor rest, ill we obtain the prizes.

-Aimira, in Voice of Industry, Fabruary 8, 1848.

• New York Workly Tribune, November 24, 1846. The Velce of Industry, November 28, 1846, replicel: ''That much wrong may be found in other departments of female hor, "** is a to storue, but this is no good reason why we should cover up and attempt to justify the system of factory oppression which is making such and inreade upon the happiness of our poople, and goneral good of the country."

b Lowell Offering, vol. 3, p. 192.

• "The "Machanics and Laborary Association of Poterborough, N. II." In 1844 dichared for a 12-hour day, "including the time allowed for meals," and invited "the fermal operatives in the several manufactories in this town, one and all, to unite in politioning our legislature for the passage of a law establishing the 12-hour system." (Voice of Industry, Feb. 13, 1840.)

⁴ In 1845 four pictions were presented, two from Lowell, can from Pall River, and an from Androver. One of the Lowell patitions acked for a hay providing that nan corporation or private citizan should "be allowed, except in cause of energoner, to employ one set of hands more than 10 hours per day," and the other sckele for a hay making 10 hours a day's work "where no specific agreement is entered into hetween the patter." The finst wave signed by 860 persons and the last by only 360. A very large proportion of the Lowell potitioners, hot none of the 500 from Full River, wore solid to be komment. (Massed)must Report on Hours of Labor. Massenhuseth Hours Document No, 50, 1845, pp. 1, 2. Reprinted in Decumoniary History of American Industria Bociety, Vol. VIII, pp. 13, 31, 31.)

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An "unknown factory girl," too, who longed to be left alone with her havp and her grief "far from the factory's deaf'ning sound," nevertholess sang:

> But, iI 1 shill must wond my way, " Uncheered by hops's sweet song, God grant that, in the mills, a day May be but "ten hours" long. -Ausgroups, in Voice of Industry, February 20, 184.

In 1847, as a result of this agitation, a 10-hour law was passed in New Hampshire.⁶ Maine⁵ and Poinsylvania^{*} followed the example in 1848, New Jersey in 1851,⁴ and Rihode Island in 1853.⁶ It is a look to be supposed, however, that these early laws actually established the 10-hour day. As a matter of fact public optimion had been roused to favor a 10-hour day, but had not yet grasped the technical difficulties of its enforcement. Most of the early laws allowed "contracting out," and were applicable only to corporations.

The New Hampshire law, for example, was accompanied by a provision that the operatives might contract for longer hours. As a result, though public meetings were organized and an active agitation carried on to prevent the operatives from signing the "special contracts" prepared by the companies, the law proved wholly ineffective. The companies promptly discharged all the operatives who refused to sign.! It was said that only from one-third to one-half of the operatives employed by the Nashua Corporation remained at work ? and "some mills or parts of mills were stopped." A All soon filled up with fresh hands, however, and everything went on as before. Moreover, the operatives who refused to sign were blacklisted even by the Massachusetts employers. "At the present time," said the Manchester Democrat," when the law of our State provides that the operatives need not work more than 10 hours, unless he or sho so pleases, one would hardly have supposed that we had among us men so devoid of humanity, so emphatically blackhearted, as to 'blacklist' an operative for exercising a right conferred by the statute. and one too they have so loudly asserted they had the liberty to exercise at any time, free and unmolested. Yet such is the fact. Operatives who have refused to sign the 'special contracts,' binding them to work 'as long as the mills run.' have been discharged and

- a Acts of 1847, ch. 488.
- 5 Acts of 1848, ch. 83.
- Acts of 1848, No. 227.
- 4 Acts of 1851, p. 321.
- Acts of 1853 (Jan. session), p. 245.
- f Voice of Industry, September 3, 17, 1847.
- @ Idom, September 17, 1847.
- Aldem, Octobor 1, 1847.
- Quoted in the Voice of Industry, September 17, 1847.

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'hacklisied.' Yes, more than this, operatives who had been to Lowell and engaged work on the corporations, have been refused work after word had been sent from Manchester that they had refused to 'take the new regulation papers.' More than this even, operatives who went to Lowell the past work were refused entrance to the yards, and told in the most impudent manner that orders had been given to admit or employ no hands from Manchester.''

The Pennsylvania and Nav Jersey laws, too, were the cause of sovere and prolonged strikes on the part of the operatives who attempted to secure their enforcement, especially at Alleghany Gity, Pa., and Gloncester and Paterson, N.J.* In the end many of the Pennsylvania and Nav Jersey factories and the data as 1867 the girls of the Engle and Anchor mills at Pittsburg went on strike against a reduction of wages with no corresponding reduction of the 12 hours a day during which they appear to have been working.³ It should be noted in this connection, too, that when the Nav Jersey law went into effect in 1851 the factories of that State had hear working only 114 hours, while thous of Naw England were working from 124 to 14 hours a day.⁴

In April 1847,⁴ however, a new set of regulations went into effect at Lowell which reduced the hours 15 minutes a day during eight months of the year and 30 minutes a day during the other four months, by additions to the meal times. The legislative committee on hours of labor reported in 1850 that, as a result of this reduction, the average daily time of labor throughout the year was 11 hours, 583 minutes, or less than 2 minutes short of 12 hours. By months the lours were as follows: *

Month.	Hours,	Minutes,	Month.	Hours,	Minutes.
January Polymary March April May June	11 11 13 12	9 45 22 - 30 30	July August, September, October, November,	12211111	300 300 500 400 410 9

In this reduction the Manchester, Nashua, and Dover companies appear to have followed the example of Lowell.⁴

*See History of Women in Trade Unions, Vol. X of this report, pp. 63, 68, for account of these strikes. At Allepheny City in 1845 the hours were said to be 114 at day. (Yoice of Industry, Oct. 2, 1845.)

^b Boston Weekly Voice, September 12, 1807; Workingman's Advocate, September 14, 1807.

New York Daily Tribuno, July 14, 23, 1851.

d Voice of Industry, May 7, June 11, 1847.

Massarbusetts House Document 153, 1850. Reprinted in Documentary History of American Industrial Society, Vol. VIII, pp. 151-186.

/ Voice of Industry, May 7, 1847.

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The next change in the hours of labor at Lowell was made in September, 1863, when the companies, in another effort to stem the rising tide of the 10-hour movement, voluntarily reduced the hours to an average of 11 a day.⁴ Even before this change was made, however, it was stated that the working time in some of the other manufacturing establishments in Massachusetts was considerably longer than at Lowell.⁴ In 1856, however, the mills at Lawrence reduced their time to 10⁵ hours, and by the time the 10-hour law was passed in Massachusetts the hours at Lawrence were 02¹/₄ and at Lowell 64¹/₄ a week.⁴

In other places, moreover, accasional reductions in hours were made, sometimes voluntarily with the same object as at Lowell and sometimes as the direct result of a strike, * In 1861, for instance, a strike in the mills at Great Barrington, Mass., resulted in a reduction from 13 to 11 hours, 'and the same reduction ones effected in 1866 by strikes at Southbridge, Tanuton, and other mills in castern Massachusetls, and also at Lowendale, R. 1. * At the latter place the hours, which had been 12 from 1830 to 1865, were further reduced in 1870 to 104.* At Fall River a reduction to 10 hours a day was made on January 1, 1867,' and for 21 months the mills were run on this schedulo, but in 1873 they were running 624 hours per week. Soon afterwards, however, the agitting for a 10-hour lay caused a reduc-

• Cowhey, History of Lowell, second citilion, 1895, p. 149. About a year caviter they had reduced the hours in the materialic solups to 11, while, as a resolution of the Ten-Hours State Convension of 1882 put (i, "The delivate women and feeble children in their factorics, are left to toil on, apparently antibuoght of or uncared for". "Cfm Linna of Jakop, Address of the Ten-Hours State Convention to the People of Massachusetts, 1882, p. 3.)

⁶ Massachusotta House Document 122, 1853, p. 3.

Gray, Argument on Petition for Ten-Hour law, 1873, p. 5,

d Idem, p. 6.

• 4 κ early as 1827 it was estact that the hours at the Amedrup Mills (woolen) at Manchary, Mass., were "4t the prevent recover," is a Amary, from 8 if the inseming to 8 in the ovening, with intermissions including about 2 hours, which, if the intermissions were not excepted, we call have given thewe mills a 1-hour tay. (Merrimack Journal, Jan, 12, 1827. Quoted from the Newburypert Herdd.) But, in Bio3, according to autoence of the userperior uternal, the hours were reduced "use a day" by doing awy "with working sfor dark" (Harrice Earley, Opentive') Heyd to these ratios given the Mark and Mark Mark and Mark and Mark and Mark and day "by doing awy "with working sfor dark" (Harrice Earley, Opentive') Heyd to these ratios gains, Lawell, 1820, then hours were reduced "use as day" by J. G. Whittier) and in 1823 there was an unsucceeded arrivalment miles ratios, Lawell, 1820, then hours any reduced of 16 minutes each halt day. (Mass, House Day, 123, 183). Elseventh Annual Be-pert (Mass.) Hureau of Statistics of Labor, 1889, no. 9-14.)

/ Eloventh Annual Report (Mass.) Bureau of Statistics of Labor, 1880, p. 19. Daily Evening Voice, September 29, 1865.

Eloventh Annual Report (Mass.) Bureau of Statistics of Labor, 1820, p. 21. Daily Evening Voice, September 29, October 7, 1865.

A Tonth Census, 1880, Vol. X.X. p. 366.

(Boston Weekly Voice, December 6, 1866. Cowley, The Ten-Hours Law, pp. 5-7.

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tion to two-thirds time. But on December 1, 1873, full time was resumed and continued until October 1, 1874, when, the 10-hour law having passed the state legislature and received the governor's sanction, the mills were again put upon short time.^a

A 10-hour day was actually in force in 1866 in one large Lowell mill * and in the Syncause woolen mills * and not two years latter in the Atlantic Mills at Lawrence,⁴ but in 1866 the Massachusetts commission on hours of labor reported that 11 hours a day was the general rule in large manufacturing towns, and that the Waltham Mills worked 114 or 114 hours, and the Middlefield Woolen Pactory 13 hours.⁴ In the same year the five large octoon mills at Allegheny City, in splite of the Pennsylvania law, were running 11<u>4</u> hours a day.⁴ At Troy, N, Y, too, the hours were 114.⁴

Rotrograde movements, too, sometimes occurred. At Woonsocket, R. I., the duty's work was reduced in 1883, she thor scule of a strike, to 11 hours and 23 minutes. In 1888, however, by agreement between the manufacturers, the hours were raised to 12 a day in most of the mills^A and in 1865 the hours at Woonsocket were said to have been 12 a day, hegimining at 5 o'clock.⁴ A strike for shorter hours occurred at Woonsocket in Soptember, 1865.⁴

A similar retrograde movement is recorded of a braid mill in Norwich, Conn., where the women employees were notified in 1868 that they must in future work 11 hours for the same pay that they had been receiving for a 10-hour day.⁴

In general, the hours of labor in Massachusotts, in spite of the lack of legislation, were reduced first, other States following.⁴ When the mills of Massachusetts ran 12 hours a day, "those of Rhode Island and New Hampshire can 13 hours. When her mills came down to 11

C. H. Baxter, History of the Fall River Striko, pp. 6,7.

6 Boston Weekly Voice, April 19, 1866.

• Daily Evening Voice, November 16, 1805. Boston Weekly Voice, December 6, 1806.

d Gray, Argument on Petition for Ten-Hour Law, 1875, p. 5. Cowley, The Ten-Hours Law, pp. 5-7.

e Boston Weekly Voice, March 8, 1866.

J Daily Evening Voice, Soptember 12, 1866. A 10-hour strike occurred at Allogheny City early in the year. (Fincher's Trades' Review, February 24, 1866.)

g Workingman's Advocate, November 10, 1866.

A Dally Evening Voice, A luguat 12, 1865. "Pitces facts were brought out in the case of Samuel Harris z. Woonsecket Company et al., United States circuit, court, Juni terran, 1864, in which the minority mill exerce of Pawtuckot atiompted to force the majority to adopt an 11-hour day in order to offect an equitable distribution of the water power.

f Idem, August 4, 1865. Quoted from the Beston Journal.

/ Idem, September 23, 29, 1865,

Workingman's Advocate, March 21, 1868.

/ Maino, howevor, adopted 11 hours a little carlier than Massachusotts. (Gray, Argument on Petition for Ten-Hour Law, Feb. 13, 1873, p. 28.)

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hours a day, theirs came down to $12.^{\prime\prime\prime}s$. The early laws of the other States were, indeed, practically dead latters, owing to their contractingant clauses. In Massachuscki, where the leaders of the 10-hour movemont insisted upon effective legislation, the manufacturers reduced hours to prevent the enachment of laws. But even there the women employed in taxtile factories generally worked 11 hours a day until prevented by legislation. Since 1874, however, the large manufacturing States laws one by one regulated the hours of labor of women in manufacturing establishments, with the result that the working time is dediedly whorter.

WAGES.

The wages of women in taxile factories were at first considerably higher than in other occupations in which they were engaget.³ This was especially true in New England. But in all parts of the country the establishment of textile factorise distinctly tonded to raise the avorage of women's wages. Before the introduction of manufactures, according to Aiken,⁴ the ordinary rate of women's wages in New England was from \$2.17 to \$3 a month and board. By 1833, mon's labor would command, he said, 50 per cent more than formerly, but women's wages had rane from 200 to 300 per cent. Women's wages in this country, too, were considerably higher as compared with mon's wage than in England.⁴

The effect of the textile factories upon women's wages in other occupations was early evident and was a cause of congratulation or

^a Amorican Workman, January 1, 1870.

b Mathew Carey in 1830 contrasted the condition of women in textile factories with that of scametresses, and recommonded that the lattor be sent to factory districts where they could be employed as spinners and weavers. (Carey's Miscellaneous Pamphlets, No 12. "To the Editor of the New York Daily Sentinel, On the Remuneration for Female Labor," 1830, p. 5.) And in 1845 Horace Greeley, in an militorial on the Allegheny City strike, stated that the girls employed there were getting "at least twice as much as working women throughout the country average and gotting their pay promptly." (New York Daily Tribune, October 14, 1845.) Again, in 1858, in commenting on a strike at Chicopee (Springfield), the Springfield Republican remarked that the girls there employed "could earn at the reduced wages from \$2 to \$2.50 a week above their board, which is more than they could get at other husiness and from 75 cents to \$1 more than the pay for housework." (Quoted in the Lowell Daily Citizen and News, April 9, 1858.) One earlier writer, however, considered this merely an evidence of the bad conditions under which women worked in the taxiile factories, for, said he, "no one supposes that the operalives are paid anything more than is sufficient to secure their services." (Corporations and Operatives, being an Exposition of the Condition of Factory Operatives and a Roview of the "Vindication," by Elisha Bartlett. By a Citizen of Lowell. Lowell, 1843, p. 52.)

¢ Aiken, Labor and Wages at Home and Abroad, 1840, p. 29.

4 H. O. Carey, Essay on the Rate of Wages, 1835, p. 81. But in 1866 the Massachusoth Commission on Hours of Jabor reported that the wages of women in textile factorics were from one-fourth to two-thirds the wages of mon. (Daily Evening Voice, March 3, 1860.)

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complaint, according to the point of view. At the time of the Lynn shoe binders' withce of 1384 for higher wages, their "Address" said: "It is well known that in factories young Indies receive a high price for their services, and unless our families receive nearly an equal amount, they may be induced to seek employment in the factory, the printing office, or some other place where they may receive a just commensation for their services."⁶

The difficulty of hiring women to do housework in the neighborhood of the factories was a frequent cause of complaint. They could earn, it was said, more money in less time and with less labor in the factories than in domestic service.^b

Though the wages of domestic servants rose from 50 cents a week before the factory system to about \$1.50 a week in 1849,* still they did not keep pace with the wages offered by the textile mills.

At the Poignand and Plant Mill, Worcester County, Mass., in 1812, women ention spinners received from \$2.33 to \$2.75 a week, out of which they putil \$1.08 to \$1.16 per week for board, including washing.⁴ About 1814, in Pall Kiver, cotton-mill operatives received from \$2.75 to \$3.26 a week and putil \$1.75 for board.⁴ A L Lowell women's wages in 1827 were said to be from \$1 to \$3 a week in addition to board,⁴ and the Amesbury woolen mill is said to have puid 50 cents a day, or \$3 a week? In 1829, however, wages at Lowell wore given us only \$1.75 a week in addition to board.⁴ At Paterson, N. J, too, women's wages in editon mills in 1830 were about \$2 a week.⁴

According to the report of the New York Convention of the Priends of Domestic Industry on the Production and Manufacture of Cotton / the average wages in Massaclustetts in 1831 were \$2.25, in New Hamshire \$2.20, 00, in Vermont \$1.84, in Maine \$2.33, in Concentizat and Rhote Island \$2.20, in New York and New Jersey \$1.90, in Penneylvania and Delwares \$2, in Maryland \$1.01, and in Virginia, \$1.85. It is probable, however, that there was an actual reduction in wares about the ond of the twanties and belwares to thirdies.

It is evident that wages were considerably higher in the New England States, except Vernont, which had comparatively few factories, thus farther south. In Maryland, indeed, wages were

^o Aiken, Labor and Wages, 1849, p. 29,

/ Page 16,

[#] Lynn Record, January 8, 1834.

^b A Review of Seth Lather's Address to the Workingmon of New England, by A. Factory Hand, Waltham, November 28, 1832, p. 21.

⁴ Nourse, Genesis of the Power Loom, Proceedings, American Antiquarian Society, vol. 10, p. 39.

[&]amp; Pock and Earl, Fall River and Da Industries, p. 19,

[/] Merrimack Journal, March 30, 1827.

[¢] Idem, January 12, 1827.

A Poulson's Amorican Daily Advertiser, August 26, 1829,

[&]quot;Trumbull, History of Industrial Paterson, p. 52.

considered oppressively low. In 1829 a correspondent of the Mechanics' Free Press," writing from Ellicotts Mills, Md., complained bitterly of a reduction of from 121 to 50 per cent in the Union factory in that neighborhood. "Among those," said this correspondent, "who are obliged to submit to and comply with the mandate of this relentless ruler (of a free people) are a number of females, and the children of widows, who have been induced to locate here for the purpose of getting work and subsistence for their families; and whose previously scanty pittance being thus abridged, will heap additional misory on their already heavily oppressed shoulders." The next year it was stated ^b that another factory of the same neighborhood had not only reduced wages at about the same time as the Union factory, but "pay their hands off with depreciated paper after there is from four to five months' wages due." This practice was said to be indulged in, too, by a manufacturer of Morrisville, Pa., who paid his hands "with money of his own make, which will pass nowhere but at his own store, for dry roods, proceries, etc., on which he has from 10 to 15 per cent profit."e

The truck-store system was in use, too, at fall River, Paterson, and doubless at other places. At Paterson a circular issued in 1835 doclared that this system "reduces us to the disagreeable necessity of paying whatever price the extravagance of the storekeeper may think proper to domand." Further compliant was there made that—

Third. They have in a number of instances, where softlements have been domanded, kept back one week's work; and demanded a receipt in full.

Fourth. They have been uniformly in the practice of deducting one quarter from each day's labor when we were behind the time but five minutes.⁴

At Lowell, however, the operatives were paid promptly in cash. Payments, under the factory rules, were generally made monthly.⁴

In 1833 and 1834, and again in 1836 and 1837, the computationers were hard pressed financially and were driven to reduce wages."

4"Comilique on which help is hird by the Orchere Manufacturing Company, Josev, N. I." (Pio Man, March J), 1834, and Jather, Aditoxs to the Workingnen of New Kagland, third edition, 1836, p. 38.) "General rates of the Jovel Manufacturing Company, " (Lather, Address to the Workingmon of New Kagiand, third edition, pp. 40-42.) "Regulations to be observed by all provise support in the factories of the Limitino Manufacturing Company," (Landhouk fit bawult, 1838, pp. 42-44. Reprinted in Decementary History of American Industrial Society, Vol., VII, pp. 136, 146.)

/ See Carny's Select Seraps, vol. 48, p. 368, and Boston Caurier, March 13, 1834, and June 3, 1837.

a Preo Raquirer, May 6, 1829. Copied from the Mechanics' Free Press, Philadelphia,

^b Mechanics' Free Press, October 16, 1830.

e Idem, October 30, 1830.

⁴ Brailners, United States of North America as they are, not as they are generally described: Being a cure for radicalism. London, 1840, pp. 242, 243. Circular issued by factory operatives.

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These reductions were the cause of a number of strikes, "especially in 1834 and 1836, but the resistance of the comployees was made impossible by the panic of 1837. In 1842 there was another period of depression when wages are said to have such from an average of \$2 a week and board to an average of \$1.60 a week and board.³ About 1846, i.oo, wages of woolen-factory operatives were greatly reduced,⁴ and in August of that year many of the girls are said to have left the Lowell mills on account of reductions in wages.⁴ The reductions continued in 1846.

This Newburyport Advertiser announced on January 23, 1384,4 that "the wavers in one of the factories in this town have recently had their wages cut down 10 per cent," and that the averseers had so arranged the looms as to make the refuterion amount to more than. 15 per cent. In 1848, too, reductions occurred in a number of places, especially at Waltham in Tebruary' and at Lowell during the summer. " The state of the marked wave cited as the excuse. In 1866, again, wages were reduced in one of the mills at Paterson, N. J. A and in 1837 in three works mills at Walther, M. St. At Eall River a reduction of 10 per cent was made on December 1, 1873, and another of the same proportion in 1874. The latter, however, was successfully resisted on the initiative of the women weavers." Other reductions which were the causes of strikes are given in Table A.

Many of liese reductions, however, were morely in the piece rates, and by the improvement of machinery and the increase in the number of looms tanded the girls were enabled to earn as much in a week as before.⁴ Between 1842 and 1846 indeed, the net result of the changes in piece rates and in machinery and organization of labor force appears to have been a rise in average wages, at least at Lowell. The situation was clearly stated by Sarah G. Bagley, one of the halor leaders of the day, who said: "A few years ago no

^b Aikon, Laber and Wages, 1849, p. 29. The New York Daily Tribune, October 22, 1845, said that during November and December, 1842, wages were reduced 25 per cent. • Vrice of Industry, July 17, 1845. Quoted from Lowell Patrica.

4 Idem, August 14, 1815. Shorily afterwards the Morning News (New York) announced that "since the catabilatment of the present tariff" 1,300 girls had been discharzed from the Lowell factories and the wages of the romaindur reduced 10 cents per week. But Horace Greeley alsolutely denied thia. (New York Weekly Tribuno, October 20, 1815.)

. ()noted in Voice of Industry, February 6, 1846.

/ Boston Journal, February 10, 1848.

@ Pittsburg Morning Post, July 15, 1848.

A Boston Wookly Voice, June 7, 1866.

I Islom, August 22, 1867. In this case wages were reduced 15 per cent.

I Baxter, History of the Path River Strike, 1875. See History of Women in Trade Unions, Volume X of this report, p. 103.

* New York Daily Tribune, January 3, 1843. Quoted from the Lowell Courier.

a See Table A, p. 260.

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girl was required to tend more than two looms. Now they tend four, and some five; and bocause they make a few cents more than they did on two, it is trumpeted all over the country that their wages have been raised."** "It is an ingenious scheme," said the Voice of Industry of April 17, 1866, "which a few centralitation and politicians have invented, to blind the eyes of the people—that because the operatives receive non-eighth more pay in the aggregate, for accomplishing a third more labor with the same facilities, than they did a few years ago that the price of labor has advanced. The price of waving a yard of doth never was lower in this country than at this time, the price for tending spinning and carding never was lower, or the wages of these operatives who work by the week."

Mrs. Robinson said that the grids kept their own account of labor done by the piece, which was slavays accepted and they were paid accordingly.⁴ The Rev. Henry A. Miles, however, recorded that in 1845 "on the speciers, throstles, warpers, and dressers, there are clocks, which mark the quantity of work that is done. The clocks are made to run one week, at the and of which the overseer transfers the account to a heard which hangs in the room in the sight of all the operatives. From this beard the monthly wages of each operative are asceriand.¹⁹

The average wages of women in textile factories from about 1833 to about 1830 appear to have been 82 a week and hoard, which varied from \$1.25 to \$1.50 a week. Out of three wages it was elained that the girls were able to save considerable sums which they used to assist bloir families or deposited in the savings banks. In 1841, according to Doctor Bardlett, the trenssure of the Lowell Institution for Savings reported that out of 1,976 depositors in that institution 1078 were factory girls, and out of depositors in that institution 100,000 belonged to them.⁴ "TL is a common thing," he said,

4 Bardrolt, Vindication of the Gharacter and Condition of the Fennders Employed in the Lowell MIR, pp. 21, 22. The anomator of thread option is by heatry girld was greatly exaggented by the novepapers of the flay. The Philodolphin Saturdity Monetin, for scenario, and in 1814; "116 in mediation dis a remarkabili back, that the task of the start of the task of the start who can melte a movel of the circumstance that 1.0000 women, tolking with shaved downloan for years, are able to by aside a flow begardy seminape, the gross amount of which is \$260,000. If history, and weakh, and equivment abundling with shaved downloan for years, and able to by aside a flow begardy seminape, the gross amount of which is \$260,000. If history, and weakh, and equivment abundling with shaved about the possessed, how must weak weakh and equivment abundling with shaved how dallare application of the data of the starts of justice meeted to blays. Is when a provide the data of the data of the starts of the starts are about the possessed, how must weak existing and equivment abundling the starts of the shaved hallare application and advection provide the data of the starts of the starts and the starts and the starts of the starts and the

a Voice of Industry, April 24, 1848.

b Robinson, Loom and Spindle, p. 71.

[&]quot;Miles, Lowell as It Was and as It Is, pp. 80, 81.

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"for one of these girls to have 5500 m deposit, and the only reason why she does not oxceed this sum is the fact that the institution pays no interest on any larger sum than this. After reaching this amount, she invests her remaining funds elsewhere."³⁴ In 1845 the Rev. Havry A. Miles gave practically the same figures in regard to savings-bank deposits and depositors,⁵ and in 1856 it was stated that two-thirds of the deposits in the savings banks of Lowell were much by factory operatives.⁵

Many' remarkable stories, too, were told of individual women operatives who were reputed to have acquired comfortable fortunces by their factory labor. These stories, however, were denied by the labor press of the day' which even asserted that the annual vacations in which the grints were said to indially even on devidences of comfort but of ill health. When, for instance, the Lowell Courier reported that there had a tis office a woman about 45 years ohl who stated that she had been an operative in the Lowell mills 19 years, that her health had been an operative in the Lowell mills hab had saved about \$2,000, which she had invested in a farm, and had given her parents \$1,150, and that she had meanwhile been married and had one son,⁴ the Voice of Industry screastically remarked;**

Why are not the daughters of the manufacturers, agents, and auporintendents to be found over the loom, the spinning frame, in the arriing and dressing rooms, beside "these fresh spirits, gathered down from the green montantias and peacedul valleys," gaining an education, "improving their healths," and laying up their "two theoand dollars" after buying a fram worth elowen hundred?

Later Miss Bagley referred to this story and stated that, being "somewhat skeptical," and being employed in the same room with the woman about whom this remarkable story had been told, she had inquired and had discovered that the woman, during the 19 years, lud been absent 6 years on long visits, besides a number of

Premara stated that "the annuals of movey deposited by the formale operatives in the Lovell Saving limits is equal to 18, 25 do for avery hear of the phases. Some of them have saved \$2,000 each, the interest of which would yield a handsenon auppart." (Quoted in the Vaice of Industry, September 4, 18bb.) Int. If the Vaices of Industry thilly stated that this was a line and proved its plant by giving statisticaor in the value of the origin of the interest of the state of the state of the number of factory gives in Loveell and the total annuant of money deposited, according to a statement of the "Loveell Saving Industries" The total annuant outcome, it estimated that interposited to be deposited by the factory girls. Moreover, it estimated that can shall the total was deposited by mone in and out of the number (where of hadurty, September 13, 1865).

" Bardlett, Vindication of the Character and Condition of the Females Employed in the Lowell Mills, pp. 21, 22.

- ^b Miles, Lowell as 14 Was and as It b, pp. 203, 204.
- «Cowley, Handbook of Business in Lowell, 1856, p. 162,
- 4 Quoted in the Voice of Industry, June 12, 1845.
- + Voice of Industry, September 4, 1845.

times for two or three months, that her farm had cost \$950, and her aid to her relatives had not been anything like the amount stated, and that she had never been married.^a She added:

Another fact in this remarkable woman is that she has not been a subscriber to a newspaper, nor a patron to any library, or had a soat at church, or a dress suitable to appear at church, in all the 19 years; and yet she is sent out through the press as a sample of factory girls. Now, bad as the state of mental and moral cultivation is, she is not a fair corpresentative of the formalo operatives of Lowell, or any other place. Most of the operatives dress well, and a large proportion of them read in their leisner thin, which is yver limited.

The average workly wages of women textile factory operatives did not change groundly until the dimo of the Civil War. Between 1860 and 1866 the wages of women spinners, weavers, warpers, speeders, spoolers, otc., increased from 50 to 100 in 1800 to 202 in however, meanwhile increased from a hasis of 100 in 1800 to 202 in 1866.⁶ The per cent of increase, moreover, of women's wages in cotton mills from 1831 to 1880 has been given as only 140.⁴

LABOR SUPPLY.

During the early years of the factory system in this country there was a decided searcity, especially in New Fondand, of labor supply. In other parts of the country, and even at Pall River, foreign operatives were early introduced but for many years the factories working under the Lowell or Waltham system put forth systematic offorts to atlract the farmen' daughters of the surrounding country. To do this they were obliged, not merely to offer high wages, but also to hwark down the projudice against factory labor inspired by the tales of horror which were coming to light in England at just the period of the farm establishment of the factory system in this sountry. One of the factoric arguments at this time against profection to American munufractures was that the factory system produced a depreved and ignormat haboring class.

To combat this idea and the resulting projudice of farmers against sending their daughters to the factories, the Waltham and Lowell

4Sixteenih Annual Report of the Massenhuseik Jiurwa of Statistics of Jahor, 1885, pp. 187. Other ways farpren may be found in the treenty-sixth, reson-sevenih, twenty-sight, and twenty-winth reports of the Massachusetts Ilureni of Statistics of Lahor; in the Mather report at 10011 Fries and Wayes (Sould report, Statistics, St

a Volce of Industry, April 4, 1846.

b Seo Mitchell, History of the Greenbacks, pp. 481-487.

e Ident, p. 261. This refers to average prices per year of 23 commodities.

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corporations, and others which followed the same system, adopted a plan of piaternal care over the factory griss. The general argument was that the depravity and ignorance of the operatives was not a necessary result of the factory system, but was due to other causes. To prove this point a system of factory boarding houses was established and other regulations designed to safeguard the moral charneter of the grist employed were adopted. Much, too, was done to render factory labor attractive. As Mrs. Robinson has said: "Help was too valuable to be ill tractad."

Another method of securing girls for the factories was to send out agents to the country districts who were paid a stipulated sum per head for hiring girls. As early as 1831 the Dedham (Mass.) Patriot announced that "a valuable cargo, consisting of 50 females, was recently imported into this State from 'Down East' by one of the Boston packets. Twenty of this number were consigned to Mann's factory at Franklin, and the remaining 30 were sent to Lowell and Nashua."" And in 1846 the Voice of Industry announced, under the heading "Speculation," that "57 girls from Maine arrived at the Lawrence counting room one day last week."d In the next year, too, the Waterville Union stated that about 25 girls from the country would leave there on one morning for the Lowell factorics." About the same time the Cabotville companies were said to have runners out "to procure operatives, for which a premium of so much per head is paid," and an amusing story was told of a Lowell speculator who brought a girl from Maine with the promise that he would send her back if she did not like it. As soon as she heard the noise of the machinery she refused to work, and finally he was obliged to redeem his promise.

Usually, however, no such promise was given, and the girls were often brought from such a distance that they could not easily get back. The Gabatyille Ghroniels spoke in 1840 of a "long, low, black, wagon," which "makes regular trips to the north of the State, cruising around in Vermont and New Hampshire, with a 'commander' whose heart must be as black as his craft, who is puil a dollar a head for all he brings to the market, and more in proportion to the distance, if they bring them from such a distance that they can not easily get back. This is done by 'hoisting false colors,' and ropresenting to the girls that they can tond more machinery than is possible, and that the work is so very noted, and the wages such that they are not cossily

a Robinson, Loom and Spindlo, p. 72.

^{*} Corporations and Operatives, etc., Lowell, 1848, p. 22.

[·] Quoted in Poulson's American Daily Advertisor, Philadolphia, November 8, 1831.

d Voice of Industry, May 29, 1846.

a Quoted in Voice of Industry, May 14, 1847.

[/] Voice of Industry, May 22, 1846.

CHAPTER II .- TEXTILE INDUSTRIES.

and spend half their time in reading."⁶ In at least one case a girl under 15 years of age was brought to Lowell and instructed by the agent to give her age as over 16 or she would not be employed, on account of the compulsory education law.⁶

CHANGES IN NATIONALITY.

In the taxtile factories of the early years native labor was generally employed. It is recorded that at the Beverly factory there were at first a number of Europeans, chiefly Tishi, but they were found unsatisfactory, and in 1791 all but one of the 40 persons employed were natives of the vicinity. And in Lowell in 1827 Kirk Boott stated that "except in the print works, there are no foroigners, and those do not exceed one-quarter part."⁴⁴ They were probably, moreover, all mea. As late as 1855, indeed, it was stated that two-thirds of the factory operatives of Lowell were of American birth, and twothirds of the forcingners Irish.*

Twenty-three years earlier, however, it had been stated that about on-fifth of all the factory operatives of New England were foreigners, mainly English.^J The great majority of these foreigners were in Fall River and in Rhode Island,^J and doubtless the proportion was much lighter among the men operatives than among the women operatives. But about 1836 the Iriah immigration began, and by 1843 Iriah women began to be employed in the textile factories of New England, at first merely as acrub women and waste pickens.^A They earned fair wage, however, and their children soon became Americanized and took up factory work. In 1846, too, the American operatives were said to have been discharged from a cotton factory in Cincinnati and their places filled with Gernanzs.⁴

^a Quoted in the Voice of Industry, January 2, 1846. Reprinted in the Documontary Illistory of American Industrial Society, Vol. VII, p. 141. A similar charge was maile in the Voice of Industry, April 17, 1846.

^b Voice of Industry, May 29, 1846.

^a Rantoul, First Cotton Mill in America, Essox Instituto Historical Collections, vol. 33, p. 40.

d Caroy's Excorpta, vol. 1, p. 250.

 Cowley, Handbook of Iusiness in Lowell, 1866, p. 108. In 1845, according to the Rev. Henry A. Mites, "1of the 0.320 formals operatives in Lowell, Massachusatz turtisies on-ceiptich, Moine, and-contril), New Humphire, non-third; Vermant, onefifth; Foland, one-fourteonth; all other phaces, principally Caimda, one-eventeenth." (Mise, Lowell as It Was and as 11 is, 1845, p. 183.)

¹ Testimony of a Philadelphia manufacturor before the English Factory Commission. Mochanics' Magazino and Register of Inventions and Improvements, New York, January, 1834, Vol. 111, p. 38.

a Part of the present city of Fall River was in Rhode Island until the readjustment of boundary lines between the two States in 1861.

A Robinson, Loom and Spindle, p. 13.

⁴ Voice of Industry, April 3, 1846. The Rhede Island manufacturers, it was said, proferred foreign laborers, because they could not vote under the Rhode Island property qualification law. (Voice of Industry, Soptember 16, 1846. Reprinted in Documentary History of American Industrial Society, Vol. VII, pp. 142, 143.)

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By 1850 the change in nationality of the factory operatives was marked. The minority report of the special committee of the Massachusetts legislature on limitation of hours of labor a in that year spoke of "the important change that has been rapidly taking place in the character of the factory population within the last few years. Instead of the female operatives being nearly all New England girls, as was formerly the case, large numbers of them are now foreigners. The infusion of foreigners among the operatives has been rapid, and is going on at a constantly increasing rate." In the same year a factory girl of Waltham, replying to a speech in Congress of the Hon. Jere Clemens, in which he described factory labor in New England as no better than Negro slavery in the South, said that though "some overseers are overboaring and unreasonable, * * * the greatest dissatisfaction, among American operatives, is caused by the introduction of foreign laborers into manufacturing establishmonts." Again, in 1852, the New York Weekly Tribune quoted an article from the Windham (Vt.) County Democrat, which was edited by a woman, in which it was asserted that "whatever inducements or advantages it (the factory system) has left will soon disappear before the influx of foreign hands." . And in the same year a strike in the mills of the Salisbury Corporation and the Amesbury Flannel Mills in Massachusetts resulted in almost a complete change of industrial population from American to Irish.4 By 1855, too, half of the Lowell operatives were said to be Irish. *

The coming of the Irish marked the second period of the history of the nationality of textile-mill operatives. The first period was that of the native Americans, with a few English and Socieh, and in the second period a few Germans came in along with the Irish. But in general the three periods were that of the Americans, actuading to about 1840 or 1845, that of the Irish, beginning in the forties, and link of the French Camedians, which began inmodiately after the GrivWar-7 Recently the races of southern Europe have in part taken the places of both the Irish and the French Camedians, but this movement has only began.

The change in nationality of cotton-factory operatives was greatly accolerated by the Civil War, which was particularly disastrous to that industry. In a report to the floston Board of Trade in 1863

/ Fonnor, History of Fall River, p. 74.

⁹ Massachusetts House Decuments, 153, 1859. Reprinted in Documentary History of American Industrial Society, Vol. VIII, pp. 161-186.

^b Quoted in Farley, Operativo's Reply to Hon, Jere Clemens, Lowell, 1850, p. 13. ^c New York Weekly Tribuca, September 11, 1852.

^d Eleventi, Annual Report of the Massachusetts Burcau of Statistics of Labor, p. 13. * Robertson, Few Months in America, 1855, p. 211.

Relward Askinson stated that in June and Nowomber, 1602, only about one-ball bis number of spindles in Now York and the New England States were in operation, and that since that time the number had been considerably reduced. " At Lowell nine of the great corporations shut down their mills and "dismissiol 10,000 operatives, penniless, into the streeds," "This erime, this worse than erime, this blunder," narvaly remarked one historian of the city, "entailed its own punishment. * * When these companies resumed operations, their former skilled operatives were dispersed, and could no more be recalled than the Tan Lows Tribes of Larach."

The change, indeed, was particularly marked in Lowell, which before the war had never quite loss the reputation, at lenses, acquired in the days of the Lowell Offering, and where one of the great advantages of the bearding-house system had been considered to be that, in case of interruption to business from any cause, the employees had houses elsewhere to which they could return. But when the factories opened again it was found that the operatives had not roturned to these houses and while the order for the call, but had been absorbed in other industries, such as the manufacture of woolen gools, of shoes,⁶ and of clothing, which thirtyed while the cettom manufacture oungoinded. As a result, betwee was, after the war, an actual want of woman in the factory districts, "so much as on that men are now comployed to do work formoutly done by women."¹⁴

Ó-arssons in mills at Lovéll, New Redford, Salem, and elsewhere stated to a committe on the message of the gevenner of Massachusetts, who had proposed the emigration of young women to the Wast, that they had accured Maine, New Hampshire, and Verment and had "antally impacted families from Canada and Europa to meet. the domands of their milk-1¹⁴. In the previous year, indeed, 100 factory girls are said to have been brought from Ragland at one time "upon the order of the Lawrence cotton factories.¹⁴ Lawrence stated that there were employed in these mills people of eight nationalities— Amorican, English, Iriah, Scotch, Gorman, Italian, Prench Canadian, and Portugues.¹⁴

" Atkinson, Report of the Boston Board of Trails on the Cation Manufacture of 1862, pp. 2-4.

/ Gray, Argument on Petition for Ten-Hour Law, February 18, 1873, p. 10.

A Cowley, History of Lowell, second edition, 1868, pp. 60, 61.

c In 1863, when many of the textile factories of Lawell were closed down, it was haid that 1,500 factory girls went from Lowell to work in the shoe factories of Lyan. The about raid was briefs. (Pincher's Trades' Review, Dec. 5, 1805.)

[#] Daily Evoning Voice, April 7, 1865.

^{*} Fincher's Trades' Roview, August 13, 1804.

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FACTORY BOARDING HOUSES.

For many years there was a distinct difference, in the employment of both married women and children, between factories of the Lowell type and factories of the Fall River type. At Lowell the factory boarding house was part of the system, while at Fall River and most of the manufacturing towns farther south the company tenoment. and the company store worked hand in hand. At Lowell individuals were employed and at Fall River families. Most of the Lowell companies made it a rule that all operatives should live in their boarding houses," and there were separate houses for men and for women. The boarding-house keepors were married women or widows, and their children were generally the only young children in the mills. It was said that the companies could not afford to board children for their labor. This, however, applied only to companies-like those at Lowell, Waltham, and Dover-which boarded all of their employees. At the Poignaud and Plant spinning mill in Worcester County, which ran the first factory boarding house of which we have record, it is stated that children, some as young even as 8 or 10 years, were employed for 12 hours a day. Board in this case was \$1.08 to \$1.16 per week, including washing, and wages of adults from \$2.33 to \$2.75 per week.^b But probably none of the children lived in the factory boarding houses or received anything like these wages,

In some localities, indeed, the corporation hearding house was merely a makeshift designed to tide over the early years of a new manufacturing town. A Troy manufacturer wrote, for instance, in

a"General rules of the Lowell Manufacinring Company," Lather, Address to the Workingmen, third edition, 1836, pp. 40-42. Also Lowell Offering, vol. 4, p. 45; Miles, Lowell as It Was nod as It Is, 1845, pp. 145, 146; and "Regulations to be observed by all persons maployed in the factories of the Hamilton Manufacturing Company;" Handbook to Lowell, 1848, pp. 42-44, reprinted in Documentary fliatory of Amorican Industrial Society, Vol. VII, pp. 137, 138. The requirement, however, that the operatives live in the corporation boarding houses was not universal. Doctor Bartlett stated in 1811, for instance, that out of about 900 girls employed in the Boott mills, on the 1st of April 236 boarded outside of the corporation houses. (Bartlett, Vindication of the Character and Condition of the Females Employed in the Lowell Mills, p. 7.) A "Citizen of Lowell," however, replying to Doctor Bartlett, stated that recently "the operatives are compelled to board in the corporation houses or submit to a loss; the corporations taking the privilege of paying a part of their board to the keeponof their boarding houses, which, of course, they make up by a corresponding reduction. of wages." (Corporations and Operatives, being an Exposition of the Condition of Pactory Operatives, and a Review of the "Vindication" of Elisia Bartlett, M. D. By a Gitizen of Lowell, Lowell, 1843, p. 8.) At Great Palls, N. H., in 1836, it was said that, when the girls asked for an increase of wages to meet a rise in the prices of board at private houses, the company offered to increase 10 cents per week the wages of all who would move to the company boarding houses. (Public Ledger, October 3, 1836.)

^b Nourse, "Genesis of the power loom," Proceedings, American Antiquarian Society, vol. 10, p. 30. 1827, that though it was usually necessary at first to build ench houses, "as soon as familie are brought in the help employed is gencally distributed." ""This is found," he added, "more satisfactory and bast; in this way the price of hoard is regulated by competition, and labores choose thoir associates, and the founden in this distribution in families are better protected and more pleasantly situated." a Another correspondent of White's and that at Newmarkst, apparently in 1835, the corporation bourding house had been entirely abandoned, "powerful objections" having been found to it. "A part of the gifts whose parents do not live in the village are distribated as boarders with these families which are disposed to receive them." b

The idea of most of the companies south of Lowell, indeed, appears to have been to employ "families." The Good Intent factory of New Jorsey, for example, advertised in 1830 for "beight or ton founda weavers acquainted with weaving on power fooms," and added; "N. B. A fumily that could furnish 4 or 6 hands would be neformed."

But at Lowell and the other towns which followed the Waltham plan the boarding houses were part of the system by which farmers' daughters were lured into the factories. The idea seems to have been to make the factories resemble, as closely as possible, his boarding schools, in which the morals of the girls were carefully protected To this end the boarding-house keepers were carefully selected to obtain women "of perfectly correct moral deportment," # and rules, not unlike those of a boarding school, were adopted. The girls reported at the factory where they were boarding, and the keepers of the houses were required to give an account of the number, names, and employment of their boarders, and to report upon their general conduct and whether or not they regularly attended "public worship." . No one could be taken to board in the company houses who was not employed by the company, excent by special permission. The doors of the houses were to be closed at 10 o'clock every evening and no person was to be admitted after that hour without a reasonable excuse. In addition, the Hamilton Manufacturing Company, in 1848, provided that the keepers of the houses were not to allow their boarders to have company at unseasonable hours.

*"Rules of the Merrimack Company," 1844, Miles, Lowell as It Was and as It Is, pp. 69, 70; "Rules of the Hamilton Company," Handbook to Lowell, 1848, pp. 46, 46.

[&]quot;White, Memoir of Shater, p. 129,

⁶ Idem, p. 134.

^e Mechanics' Proc Press, August 7, 1830. In History of Women in Trade Unione, Volume X of this roport, p. 53, is cited an instance of a woman strike breaker in Philadolphia in 1834 who "was willing to let her family (consisting of six) work at the 16 per cent discount.¹⁹

[#] Bartlett, Vindication of the Character and Condition of the Females Employed in the Lowell Mills, p. 8.

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advised that the families of these who lived in houses, as well as the boarders, should be vaccinated, and provided that "isome suitable chamber in the house must be reserved and appropriated for the use of the sick, so that others may not be under the necessity of sleeping in the same room." $^{\rm s}$

The rules of the Lowell Manufacturing Company, as early as 1836, were practically identical with those of the Hamilton Manufacturing Company in 1848.⁶

The price of board at Lowell^a until 1836 was \$1.25 for women, a higher price being always charged for men. In October, 1856, the price for women was raised to \$1.50, the extra 25 cents to be paid half by the company and half by the employees.⁴ In 1840 and again in 1842 beart appears to have been reduced as a result of the depression, and in the latter year the old price of \$1.25 was again established.⁴

But account afterwards prices began to rise and the boarding-house keepers found it difficult to maintain threadwards. Botween 1845 and 1847, when an additional 124 cents was added to the board/ there was vigorous agitation of the subject, in which the operatives took the part of the boarding-house keepors. Mostings were held and resolutions passed,² and considerable discussion arcso, during which Horaces Greeloy was lod, in defaulting the prototive tariff, to

According to some accounts all necessary handry appears to have been included, and it was add in the 'the girls can work their laces and muslin and other including themselves." (Lowell Offering, vol. 4, p. 233). Miss Hagley, however, stated that he girls were addiged to wash and. Tone wery attribut model by them accept their milling the set of a 21 for one seeing and knitting, etc., and all after 5 o'clock at right at the and of a kinel day's work. (Volce of Industry, Jan. (b) 1840.) Thu same affectment was regented in the Volce of Industry of June 12, 1840. A sensitive statement was regented in the Volce of Industry of June 12, 1840. A sensitive statement was regented in the Volce of Industry of June 12, 1840. A sensitive statement was regented in the Volce of Industry of June 12, 1840. The particular statement was regented in the Volce of Industry of June 12, 1840. The particular statement was regented in the Volce of Industry of June 12, 1840. The particular statement was regented in the Volce of Industry of June 12, 1840. The particular statement was regented in the Volce of Industry of June 12, 1840. The particular statement was regented in the Volce of Industry of June 12, 1840. The particular statement was regented in the Volce of Industry of June 12, 1840. The particular statement was regented at the Volce of Industry of June 12, 1840. The particular statement was regented at the Volce of Industry of Volce Volce the Volce of Industry of Volce V

d Boston Transcript, October 8, 1836. Quoted from the Lowell Star.

• Now York Daily Tribune, October 22, 1845. Corporations and Operatives, Being an Exposition of the Conflicton of Pactory Operatives, acc. By a Citizen of Lowell, Lowell, 1849. Samuel J. Varney, printer, p. 11.

/ Voice of Industry, May 28, 1847.

7 Idam, September 25, 1815. At Calastville (Springfield), Masa, the price of board yau hos a subject of egication, through in 1845, 124 cmm lund boan added to the based of women and 25 cents to this of men. (Voice al Industry, Nov. 14, Dec. 10, 1845. The presentings of two meastings at Calastvilla, Front Me Voice al Industry, Nov. 14, 1885, are reprinted in the Documentary History of American Industrial Society, Vol. VII, (pt. 33-306).

^a Handbook to Lowell, 1848, pp. 45, 46.

b Luther, Address to the Workingmen, third edition, 1830, pp. 40-42.

assert that the companies had no interest in the price of board-The companies, however, waver in many cases accustomed to pay for the board of the operatives out of the amount due as wages, and, even when this was not the case, the operatives were so accustomed to consider their wages as the difference between the amount carned and the price of board that a rise in the latter practically necessitated a rise in the former on pain of labor troubles, which the employers dreaded. The companies, moreover, preferred to pay part of the board rather than rises wages correspondingly.

By 1866 the price of board to the operatives at Lowell had risen to \$2.25 per week, but it was said that the companios added 50 cents, making the price received by the bearding-house keepers for such operative \$2.76.3 In 1867 the price was still \$2.25 for women in the company boarding houses at Lowell, while in many other houses it was \$2.50. By that time it was frankly acknowledged that the system, originally established to furtish moral guardinasih for the girls, was continued as a means of keeping down wages. "The abandomment of the Lowell system," said one writer, i means an increase in the price of board, and that, quite naturally, would excite a domand for larger wages. With that domand would come the opportunity the labor agitators have so long been looking for in this conservatively progressive and peaceful community."¹⁶

The rule, however, that all operatives should live, in the company houses appears to have been broken down before 1855 by the coming of the Trish.⁶ By 1887 it was said that in the company houses in Lowell there was room for only three-fourths of the operatives, and that these were crewded.⁷

Complaint of overerowding, however, had been made 20 years before. "We are told?" said the second number of the "Factory Tracts," in 1845/ "that the operatives of Lowell are the virtuous daughters of New England. If this be true (and we believe it is with few secondina), is it necessary to shut them up at night, is in a room, 14 by 16 feet, with all the trutks and boxes necessary to their convenience, to keep them sa?". In an open letter to Hon.

^a There is an interesting discussion of this subject and, in general, of the low price of board and the resulting hardbilly to the boarders, in Corporations and Operatives, Being an Expedition of the Combinion of Factory Operatives, etc. By a Citizen of Lowell, 1803, pp. 10–13, 31–35.

^b Daily Evening Voice, November 30, 1800.

"Illustrated History of Lowell and Vicinity, 1897, p. 221.

⁴ Robertson, Fow Months in America, 1855, p. 211. As early as 1836 Soth Luther stated that at Lowell 72 Trials people were found ⁴ in one-half of a small hease,¹⁴ (Tathler, Address to the Workingmen, United edition, 1836, p. 15.)

* Daily Evening Voice, March 7, 1887. Testimony before Legislative Committee on Hours of Labor.

/ Quoted in Voice of Industry, November 14, 1845.

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Abbot Lawrence, signed "John Allon," it was alleged not only that 6 persons were crewded into one room but that 12 or 16 were obliged to occupy "the same hot, ill-ventilated attick." And the following extract from a lotter, signed "Mary," describes the bearding housen of the "Tremon Mills in 1847. "I" fis quite common for us to write on the cover of a bandbox, and sit upon a trunk, as tables or chairs in our deeping rooms are all out of the question, because there is an room, for such articles, as 4 or 6 accupy every room, and of course trunks and bandboxs constitute furniture for the rooms we accupy. A thing called a 1^{\pm} he-stad, a little more than a foot square, is our table for the c_{--} of 6. Washstands are uncommon articles—It is seven been my lot to enjoy their use, except at my own squares." It is evident that even when the old, displicated boarding houses of Lowell were new and fronk, itwing in them was not iddal.

EDUCATION.

Before the coming of the foreigness, most of the girls in the factories of the Lowell type were fairly well educated. A writer in the New York Tribure in 1844 * stated that he had been informed by one of the paymesizes at Lowell that out to the 900 whom he paid there were only 10 or 12 who could not write, and they were foreigners. Its added, "Most of the operatives are well educated, and a large portion of them only work a part of the year, geneding the rest of the time in their homes in the country." The agent of the Boott Mills in 1844 work to that of the S16 girls employed "only 43 could not write their names legibly. Porty of these," he added, "are supposed to be Irish, two English, and one Yanke." A Rhode Island, hewever, illitency had been complained of some teu were 108 persons who could notifies the state is the state of the there were 168 persons who could notifies rate.

In some eases griss worked in the factories in the winter and taught school in the country places in the summer, just as their brothers wout to college in the winter and earned the means for further study by teaching in the summer. The agent of the Merrimack Mills stated, in May, 1811, that of the females then at work in these mills

a Voice of Industry, September 18, 1846.

bldem, March 26, 1817.

[&]quot;New York Daily Tribune, March 16, 1844.

⁴⁷This was repeated by Scoraby, American Pactorias and their Femalo Opentices, p. 86. A similar statement was made in 1992 by the agent of the MorrimackAllile. (See Report of Committee on Hours of Labor, Messechusetts House Decuments, No. 50, 1865, p. 14. Reprinted in Documentary History of American Industrial Society, Yol, VIII, p. 147.)

^{*} Luthor, Address to the Workingmen, third edition, 1836, p. 20.

124 Ind proviously taught school, while 25 or 30 Ind "laft within the last 30 days to engred whice school for the annunce, making in all 160 or more. I slob find," he added, "ly inquiries at our boarding houses, dat 230 of our girls attended school during the evenings of the last winter." In 1845 the Rev. Henry A. Miles found that 527 of the 5,820 formale operatives in Lowell last been teachers in common schools." Even as late as 1868 the New York: Working Women's Protective Union found a case of a girl who, by working in the Lowell Incorise during the three bury works of the year, was said to have hoarded hursaft during the remainder of the time while pursuing her studies at the normal school of that eity."

⁶ With 'the introduction of foreign labor, however, the proportion of illiterate women verkers in the textile mills greatly increased. With the foreigness came the family system and child labor, and the farmors' daughters educated in New England schools ⁴ were replaced by gride educated minity in the streets and in the factories. In 1867 one woman testified befores the Massachusetts legislative committee on hours of labor, that, of the 250 girls in the room where she worked, 15 out of avery 20 could not write their names. And another woman stated that of 45 operatives in her room half could not write their names.⁴

LITERARY ACTIVITY AT LOWELL.

In no other part of the country, however, was there room for the same radical change as at Lowell, for nowhere else did the New England girls as throughly color factory like with their own hopes and ambitions. The flowers in the factory windows and the bits of poetry or passages from the Bible pasted up over the looms to be committed to memory were characteristic of girls attracted by the

In 1841 Decine Braitett soworied Indi, of 2,000 Lovell girls whow agos were successing, and the source of the s

Boston Woekly Voce, March 7, 1867.

⁴ Report of Committee on House of Labor, Massachusette House Documents, No. 60, 1845, p. 14, reprinted in Documentary History of American Industrial Society, Vol. VHI, p. 147. The same facts are given in Bartlett, Vindication of the Churacter and Condition of the Fenndex Employed in the Lowell MHs, 1841, p. 12.

^b Miles, Lowoll as 16 Was and as 16 Is, 1845, p. 194.

[«]Workingman's Advocato, July 4, 1868.

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paternalistic system which made Lowell the "alma mater" of such women as Latey Larcent, Harriet Curtis, Harriet Farley, and Mrs. Robinson. The period from 1840 to 1850, which saw the publication of the Lowell Offering, has been called the "golden era" of the Lowell factory gits. The difference, however, between factory life at Lowell in 1845 and sixty years later seems to be quite as much a difference in the character of the operatives as in labor conditions. Though the Lowell Offering, moreover, was witten by factory gits," it appears to have found a large part of its support, so far as subscribers were concerned, outside of Lowell.

The Lowell Offering was not in any sense a labor paper. The Voice of Industry, indeed, which represented the interests of labor reform, especially the 10-hour movement, asserted that "its influence has proved detrimental to the interests of those it professed to proteet." And Mr. John Quiney Adams Thaver, a local labor leader. said of the Lowell Offering; "This unfortunate publication roves over the country, even to other lands, bearing on its deceptive bosom a continual repetition of notes, less valuable to the reader than to the writer, but destructive to both; leaving behind the abuses and downward progress of the operatives, the very part which becomes their life, liberty, and greatness to give to the world, even if they were compelled to write the record with blood from their own veing,"* "The "Citizen of Lowell," moreover, who replied to Doctor Bartlett's Vindication of the Character and Condition of the Females Employed in the Lowell Mills, thought that the Offering was little more than a bait propared by the employers to lure girls to work in the mills.^d

At one time Miss Barali G. Baglay, the leading woman labor agitator of Lowell, entered into a somewhat acrimonious newspaper controversy with Miss Purley, in which she assorted that articles which she had written for the Offsring complaining of factory girls' wrongs had been rejected mid that the Offsring "is mid always has been under the fostering entre of the Lowell corporations, as a literary repository for the mental genus of these operatives who have ability, time, and inclination to write, and the tendency of it even has been to variable over the evils, wrongs, and privations of a factory life. "This is underinable, and we wish to have to beforing stand upon its own bettom, instead

 $^{\circ}$ Io August, 1363, Alfee Farley actact lints in all more than '70 different factory gives having written for the Jowell Olfering, (Lowell Olfering, vol.3, p. 2-84). After the publication of the first two volumes, Hox. Abel G. Thomas, passer of the Second Durivorsalis Churck and Beeder of the 'Japproxemant' Critege,' in which the magazine had originated, turned the editorship over to Alfee Yarley and Mise Curits, who were hadee') gifts, a work, from the beginning, if the contribution to the paper, who were hadee') gifts, a work, from the beginning.

^b Voice of Industry, January 2, 1846.

"C'hayer, Review of the Report of the Special Committee * * * on the Petition Relating to the Bours of Labor, Boston, 1845, p. 15.

"Corporations and Operatives, etc., Lowell, 1843, pp. 23-28.

of going out as the united voice of the Loweil operatives, while it wears the corporation look and their apologizon hold the keys^{1,2} Miss Farley, of course, denied that she was "a vile tool for aristocratic tyrants," but lamented at the same time that she saw "the sepport of that class, whom she has most wisked to zerve, almost withdrawn."¹⁸ Four years later she said in an editorial: "The charges of "corporation tool," and like epithels, must have already been refuted by the difficulty, visible to all who are willing to see, of even maintaining our existence." At the same time she proposed that the operatives should receive their copies of the Offering and transmit their subscriptions through the agents and overseens, and offered to allow a likeral discount in all such cases.⁶

The object of the Offering, indeed, was not to "point a moral," but to "adorn a tale," and Miss Farley was undoubtedly thoroughly sincere in her statement: "We do not think the employers perfect; neither do we think the operatives so. Both parties have their faults. and to stand between them as an umpire is no easy task. The operatives would have us continually ring the changes upon the selfishness. avarico, prido, and tyranny, of their employers. We do not believe they possess these faults in the degree they would have us represent them; we believe they are as just, generous, and kind as other business men in their business transactions. Their own interest occupies their first thought, and so we find it elsewhere * * *. We believe also that those who are so ready to point to the beam in another's eve should first cast out that which is in their own. What can we think of those who wish to make the Offering a medium for their avarice and ill will? We could do nothing to regulate the price of wages if we would; we would not if we could-at least we would not make that a prominent subject in our pages, for we believe there are things of even more importance."a

For the most part the discussions of the factory system contained in the Offoring are to be found in the editorials, the contributions consisting of articles, pooms, and stories descriptive of nature, of country life, of home and its charms—ovidently written hy homesick girls and of Cindenella love stories, in which the factory girl marries the

5 Lowell Offering, vol. 5, p. 190. See also idem., p. 264 (Nov., 1045).

 Now England Offering, Lowell (Mass.), December, 1840, p. 276. This was the auccessor of the Lowell Offering.

d Lowell Offering, vol. 3, p. 284 (Aug., 1843).

^{*}Vöjce of Industry, July 17, 1846. Mins Jagley aka charged that the company employed motive present to fack entrage of Mins Parley's hom half the full wolf hold wolf atomic to her dations are clifter of the Offering. (Voice of Industry, Sept. 25, 1845.) According to Mins Parley's own at atomonet, indeed, when also took the official posttion, also left her "regular place to be what is called a 'open hond,' * * * which gove me below for what I had to also." (Rohiman, Lean and Spinulle, p. 110.)

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rich young man. But frequent references to and pathetic tales of the ravages of consumption show the darker side.

There are, however, a few interesting descriptions of life in the factories and boarding houses of Lawall,^a and two or three other articles which are worthy of note. Perings the most interesting article, for example, from the point of view of labor reform, in the active Lowell Offering was published in the first volume under the title 'A now society', 'signed simply 'Tabitha.'' The subject is the decam of a factory girl, in which a little boy hands here approve which contains an account, dated April 1, 1860, of the 'Annual Meeting of the Society for the Promotion of Industry, Virtue, and Knowledge.'' The first resolution passed at this mooting was to the offect that girls should have the same advantage in the way of education as boys. Other resolutions were:²

Resolved, That no member of this society shall exact more than eight hours of labor, out of every twenty-four, of any person in his or her employment.

Resolved, That, as the laborer is worthy of his hire, the price for labor shall be sufficient to enable the working people to pay a proper attention to scientific and literary pursuits.

Resolved, That the wages of females shall be equal to the wages of males, that they may be enabled to maintain proper independence of character, and virtuous deportment.

The general spirit of the Lowell Offering, however, is better expressed by articles, such as that in the second volume, on "The dignity of labor" by the decises of the factory system given in the form of a dialogue in the July, 1844, number,⁶ and by the versue, apparently written in answer to the critics of the factory system, in which the Lowell operatives were exhorted to

> Undo what slander's might has done, * * * * * and savo Your name from ignominy's grave,

by furnishing poetry and prose to the Offering.^d

^a For example, in the "Lotters from Summ," Lowell Offering, vol. 4, pp. 145–148, 100–172, 237–240, and 237–259; in the "Second peep at factory H6," Lowell Offering, vol. 5, pp. 97–100; in "A letter to Cousin Lney," Lowell Offering, vol. 5, pp. 109–112; and in "A week in the mill," Lowell Offering, vol. 5, pp. 217, 218.

^b Lowell Offering, vol. 1, p. 101.

e¹¹I, is tran,¹ and the factory girl, ¹¹(hat to large a portion of our thus is confined to labor. Ital, for k, b ten crement k that this is an objective which can not be soft to exist only in factory labor, ²¹ a ². The comparation for labor is not in proportion to the value of service neutricely, but is governed by the senvicy or plevity of labores. ²¹ A factory girl's work is nother hard or complicated; sho can go on with prefer regularity in the during which can make the service property of labores. ²¹ There can be no beitsr place for reflection, when there hand be the labor. ²¹ In the during which are highly on the during which and be a service property of labores. ²² The service place is a service property of labores. ²³ The service place is the service place is a service place is the servi

dLowell Offering, vol. 2, p. 63.

In the editorials, however, though it was distinctly stated that, whatover might be "the evils connected with and growing out" of the factory system, they were not to be remedied, "though every sentence in our pages should be an anathema."a and that "with wages, board, etc., we have nothing to do-these depend upon circumstances over which we can have no control,"b still the concrete problems of factory life were often discussed and suggestions made both to the corporations and to the operatives. In his "Valedictory" as editor, for example, the Reverend Thomas suggested the need of a library in each corporation for the use of the female operatives in the evening, "a better ventilation of the hearding houses," "diminution in the hours of mill labor, and the entire abrogation of premiums to overseers." He further recommended the payment of a small sum, 8 or 10 cents monthly, to a fund for the relief of the sick, in her editorial career, too, Harriet Farley remarked that, in her opinion. "it is much easier to instill a feeling of self-respect, of desire for excellence, among a well-paid, than an ill-paid class of operatives."b The Lowell Offering even refused to indorse some of the reseate descriptions of factory labor put in circulation about this time. In a review of Dickens's American Notes, for instance, Miss Farley denied that "nearly all" the Lowell girls were subscribers to circulating libraries, and stated that, though the Offering "was got up by factory operatives," "the proportion of those factory girls who interest themselves in its support is not more than one in fifty." She added that the average hours of work were 12 a day."

Nevertheless, Harrise Parley beliaved that most of the evils which were associated with the factory system, were not peculiar to it. "We are confined," she said, "but a life of seclusion is the lot of most New England females. We have but few amasements, but 'Al' work and no play' is the motto of this section of the Union. We breathe a close atmosphere, but ventilation is not generally hetter attended to deswhere than in the mills. We are but for an or regularly paid than most, other englands in the factor and one which often has its attractions as well as its regulation, and one which often has its attractions are well as its regulation. The solution is not force in the site attractions are not compared to the function of the factory life parameters the shares of the South and the most of the south of the parameter in Congress a comparison belowen the shares of the South and the factory operatives.

[&]quot;Lowell Offering, vol. 2, p. 280. From the "Valedictory" of Editor Thomas.

^b Idem, vol. 3, p. 48. (Nov., 1842.)

[«] Idem, vol. 2, p. 380.

d Lowell Offering, vol. 3, p. 96 (Jan., 1813).

< Idom., vol. 4, p. 262. (Sopt., 1844.)

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of the North, Harriet Farley wrote in reply a pamphlet defending the factory system.⁴

FACTORY RULES.

It is evident that, though in response to the efforts of the manufacturers and especially to the offer of high weges, the factories of New England "filled with the young, blooming, energetic and inteligent of its country maines,"⁴⁶ still, in spite of that testimony of the Lewell Offering, factory labor in the early yoars was not by any means ideal even in New England. Not only were the hours extremely long, but one of the factory regulations practically put the "black list" into force against all operatives, men or women, who joined in any organized resistance or even left their positions without a reason deemed satisfactory to the company. This rule was that employees must consider themselves engaged for a year,"

e Perley, Operative's Reply to the Ilon. Jero Clemena, Jovell, 1850. The Istier in Somice Clement from A lowed heaters girl which was published in the New York Tribuno, March 23, 1850, may also have been written by Mas Yardy. The conditions of labor of harvey openatives were used used using this period as arguments for or against the protective traff, and a large amount of evidence was produced on the hadro of the contentway, much of if of a specialized content of the content of the second product of the contentway and the first approximation classics. A valid sequence of the contentway and the second of the second second second second second "The New World (New York), April 32, 1855, and "Lowell," data, New York Tribuno, Ginnet in The Loon, Washington, D. C., May 24, 1864).

^b Lowell Offering, vol. 5, p. 239 (Oct., 1845). The further statement is there made that "the inhabitants of these places saw and recognized the worth of these girls; they associated with them, they publicly noticed them, they married with them; if they returned to their secluded homes they were, perhaps, thought more of rather than looked down upon." On the other hand, Savah G. Bagley said, in a letter to the Voice of Industry (May 8, 1846): "Do they find admittance into the families of the rich? Certainly not! They are 'factory girls.' No matter how virtuous or intelligent or how useful an operative may be--she may be a member of the same church with her omployer and the teacher of his children in the Sabbath school, or the tract distributer of the ward in which he lives; she may gain admittance to the sitting room to impuire after her pupil or leave a inci; but if a party is to be given and the aristocracy of the city is to be present, she can not gain admission; her occupationmay, her usefulness, excludes her." As early as 1840 Orestes Brownson, in an essay. on "The labering classes," stated that "intermatriage between the families of the wealthy factory owners and those of the operatives is as much an outrage on the public sense of propriety as it was in ancient Rome between the patricians and plebeians-almost as much as it would be at the South between the family of a planter and that of one of his slaves." (Boston Quarterly Roview, Oct., 1840, p. 473.)

⁴ This was not one of the Dover regulations in 1828, which provided merely for two weeks' notices of intention to hoave in a draft that theme who had faltfully performed their dution should be given a certificato of regular discharge at their own request. (Stechnards "Peer Derso, Jun. 17, 1802). The Getelene Company at Dover, in 1839, and be supplying sign as agreement, that they would briefst two weeks' markers the fact that they would briefst two weeks' markers the facility of the stechnards and the stechnard the stechnard that they would briefst the stechnard that hey would briefst the stechnard that hey and the stechnard that hey and the stechnard that they would briefst the owner may be stechnard that they would briefst the owner may be stated by the stechnard that they would briefst the owner may be stated by the stechnard that they would briefst the owner may be stated by the stechnard that they would briefst the owner may be stated by the steps at the stechnard the ste

and was probably originally the result of experience with homesick, discontented girls who left as soon as they had become really useful in the factory. It was apparently positilar to the Lowell system of factory management, in which it was practically universal during the thirties and fortiss. At the Schurylkill Interv near Plindelphia the rules provided only for two weeks' notice of intention to lave on the part of persons who were not, and a month's notice on the part of persons who were not, and a facont of the company, on penalty of forfalting all the wages due; in the latter case all the wages due to any member of the family.⁴

The Lowell rule naturally became, with changing industrial conditions, increasingly burdensome. In case of a strike, of course, all the girls taking part were punished "by dismissal from employment and proscription, * * * a combination existing among the capitalists and agents of the different companies, against the operatives, to punish all combinations on the part of the latter." But it was not morely labor agitators or strikers who were put upon the "black list." Any girl who was discharged or who left the mill before the expiration of the year without permission, which seems to have been difficult to secure, was blacklisted. In one case a girl weaver, discharged by an angry overseer because she left her loom to wash her hands, and two threads broke in her absence, though this was the first complaint against her, had her name placed upon the "black list.". In another case a girl who was said to have been discharged from one mill because she refused "to do the drudgery of the room in addition to her usual task, and for the same compensation," upon applying at another establishment for work, was told by "the individual to whom she made her application" that "she might go to work

impeded or the company's interest in any work injured.¹⁴ (The Man, March 11, 7434; Latcher, Address the Warkingson, Ailer da, p. 33). Hus in 838 the Lowell Manufacturing Company shatel in its rules that, "11 forumidered parts of the engagement that each photon remains 12 amounts if required, and all percess intending to have the obspacements and their engagement with the company is not considered an influence on their excesses, and luck engagement with the company is not considered an influence on the obspacement of the company area to give two weeks' unified of their instead and so they comply with this regulation.¹¹ (Latiner, Address to the Werkingmon, 34 ed., pp. 40–25). Other Lawell companies fund in the forties, and probably carticpthe regulations should be required to an anomatic balance of the strength of the strength of the two regulations should be required to an anomatic balance of the strength of the strength of the Milles, Lowell as 14 Was and as 11 Jay (845, pp. 145, 146.) Practically the same rule was in have in the Jamilton Hamilton theory of the observatory flatory of Amerism Industrial Society, Vol. VII, p. 146. Strength and provide of Maniferrial Chambelo to Lowell, 1848, pp. 42–44. Reprinted in December 200 Amerism Industrial Society, View, VII, p. 146. Strength and provide of Maniferrial Chambelo to Lowell, 1848, pp. 42–44.

a Luther, Address to the Workingmon, third adition, 1836, pp. 47-50.

^b Workingman's Advocato, April 20, 1844. Quoted from the Bosten Investigator. ^c Volco of Industry, September 11, 1846. The Volco of Industry recommended that in such cases the overzeers and agouts should be presecuted for "conspiracy and list."

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and continue if her former employers did not compel him to give her up. She remained three months are the purverse found her out; but whos they did, she was compelled to leave, and is now (as far as corporation influence has to do) an outcast on the face of the earth.¹⁴ In still another case a girl who left on account of ill health was said to have been denied pay for her work and "was sait off penniless to pay her board and find her way to her friends.¹⁶

In 1845 and again in 1850 this rule was complained of in memorials to the Massachusetts legislature. "The effects of this regulation," said the petition of 1850," "are becoming every day more grievous, giving to the manufacturers great power over the operatives, and leading to oppression and wrong, forming a combination which destroys the independence of the operative class and places them almost absolutely within the control of the manufacturer. As an illustration, we briefly subjoin: Mary A- ongages to work for the M---- Company, in the city of Lowell. According to the 'regulations' she is considered engaged for one year; but, for some good reason, perhaps ill treatment from her overseer, she wishes to leave and applies for a 'regular discharge,' which is refused, and her name is immediately sent to all the other corporations as being upon the 'black list.' where, should she apply for work, she is denied, no matter how destitute her condition." The minority report of the committee stated that names, places, and dates were cited before the committee to show the unjust effects of this rule, but trusted to public opinion to correct the evil.

The rule in regard to yearly employment appears to have gradually broken down with the change in the labor supply; but for it was subsituated the rule that two weeks' notice of intention to leave ahould be given or two weeks' mages be forfeited,⁴ and the "black list" was continued in force.

In 1864 Richard Trevallick complained that in several of the "eastern cities factory girls could not obtain employment without a certificate from the previous employer," and in 1869 three girls of the Cocheeo Mills, Dover, N. H., who had drawn up a paper to be signed by the obters, in which, they expressed a determination to resist a roduction in wages, were discharged, and the other mills were all notified of the fact."

a Voice of Industry, February 12, 1847.

⁶ Idem, June 19, 1846.

^a Massachusetta House Document 153, 1850. Reprinted in Documentary History of American Industrial Society, Vol. VIII, pp. 151-186.

d Daily Evening Voice, November 30, 1866.

Fincher's Trades' Review, August 13, 1864. Richard Travellick was one of tho most prominent labor leaders of his time.

[/] Workingman's Advocate, December 25, 1869.

CHAPTER IL-TEXTLE INDUSTRIES.

The "premium system" furnished another ground of complaint. This system, said the Voice of Industry," was merely an "inducement for the overseers to urge the operatives to their utmost ability. and sometimes beyond, to produce the most cloth at the least cost to the corporation, or in other words, a premium to defraud, wrong, and oppress the operatives to fill up the glutted coffers of capital." In January, 1847, the Manchester Female Labor Reform Association passed resolutions which seem to indicate that the system was new there and was in use during only part of the year, for, after saying that they would not tolerate it, they added: "If we do, we shall soon find ourselves working all the year round under the premium system."b It appears that at Manchester, in January, 1847, the overseers and second hands of the Stark Mills gave a jubilee to the operatives in celebration, apparently, of their increased earnings through the premium system. This plan of giving overseers premiums, a Manchester girl, writing in the Voice of Industry, likened to the saying of a fugitive slave: "Massa gives de drivers a stent and reward if he gets de most work done, and then massa gives us all a jubilee." . Even Miss Farley, in an editorial in the Lowell Offering,^d complained mildly of the premium system.

One of the rules of a Dover factory in 1829 was that a fine of 124 center was to be exacted from anyone who was late to work? and the employees of the Cocheco Manufacturing Company of that eity in 1834 were obliged to sign an agreement providing, among other things, that they would 'be subject to the fines, as well as entitled to the premiums paid by the company.''. Three for tardiness appear not to have been a facture of the general company rules at Lowell, but were probably imposed by the overseens of the rooms. But the Schuykkill factory (Philadelphia) had a rule that any hand who came to work a quarter of an hour after the mill had been started should be docked a quarter of a day, and that any hand who was absent 'without absolute necessity' should be docked 'in a sum double in amount of the wages such hand should have earned during the time of such absence.''s

Absences from work in Lowell were permitted only on the consent of the overseer, and, unless there were spare hands to take their places, only "in cases of absolute necessity." $^{\lambda}$

a Voice of Industry, January 2, 1846.

Idem, February 12, 1847.

Idem, January 8, 1847.

d Lowell Offering, vol. 5, p. 281 (December 1845).

[&]quot;Mechanics' Free Press, January 17, 1829.

[/]The Man, March 11, 1834. Luther, Address to the Workingmen, third edition, 1836, p. 36.

[#] Luther, Address to the Workingmen, third edition, 1836, pp. 49, 50.

A Idem, pp. 40-42; Lowell Offering, vol. 4, p. 45, and Miles, Lowell as It Was and as It Is, 1845, pp. 145, 146; Handbook to Lowell, 1848, pp. 42-44.

^{49450°-}S. Doc. 645, 61-2-vol 9-7

All of these saty manufacturing compasize high rules providing for the discharge of analyzess for immand, conduct. The Dover Manufacturing Company in 1829 urged ''s strictly moral conduct.'' ''do preserve the present high character of our professions and give the ensemise of domestic manufactures no cause of exultation,'' and stated that "gambling, drinking, or any other debauchecker and procurs the immediate and digrarodal dismissi of the individual.''s The Lowall Manufacturing Company in 1836, too, stated that it would not.'' continue to semploy any person who shall be wanting in proper respect to the foundace amployed by the company, or who shall morke within the company's premises, or be guilty of instriety.or other improper conduct.''¹⁵ The Hamilton Manufacturing Company, or Lowali, in 1648 stated that it would not employ anyone who was either "habitnally absent from public workhip" or "known to be guilty of immediate.'

Atlendance at "public worship" was often required as a condition of employment. The Dover Company in 1820 mildy "expected" that "all-respect" would "induce very one to be as constaint in attendance on some place of divine worship as circumstances will permit." But in 1836 the Lovell Manufacturing Company stated that it would "not employ anyone who is habitually absent from public worship on the Sabbath."^b Other companies "required" that their employees should be "constant in attendance on public worship."⁴ All but one of the companies appear to have allowed their employees to elect their own church, and this one made no objection to employees attending other places of worship, but taxed all for the support of the clurch founded by the agent.

This rule, though not strictly enforced, was a cause of complaint. The free apirits among the girls objected to such supervision over their conduct, especially as it had nothing to do with their mill or boarding-house life. The expense, too, of pew rent, which varied "from three to aix dollars per anoun," with the extra expense of dress, was a tax which many of the girls could ill afford. It appears that there was in Lowell at that time no place of free worship, and Miss Parley urged the establishment of such a church."

The Dover Manufacturing Company in 1829 forbade talking while at work, except on business, and also forbade "spirituops liquor, smoking, or any kind of anusement" in its workshops, yards, or factories.⁹ The Schuykill factory rules, too, provided that there

. Lowell Offering, vol. 3, p. 240.

[&]quot; Mechanics' Free Press, January 17, 1829.

b Luther, Address to the Workingmen, third edition, 1836, pp. 40-42.

e Handbook to Lowell, 1848, pp. 42-44.

⁴ Lowell Offering, vol. 4, p. 45; Miles, Lowell as It Was and as It Is, 1845, pp. 146, 146.

CHAPTER IL-SECTION DEDUCTION

should be no "smelting erapiritous Higsom" in the factory, and also forbed amployees "in marry into the factory suit, struit, ster, books, or gapper, during the bouw of wark?" A SL Dowell the organismes and warree mare not, Allowed to read books or papers openly in the factory, but Mrs. Robinson records that as "doffer" the read and attuind in the intervals of her work." In 1846 the Waltham girls ere complaining of a rule that "any person * * stlending a dancing achool shall be immediately discharged."."

Some of the sompanies made provision in their rules or otherwise for the care of the sick. As early as 1331 the employees of the Cocheco Manufacturing Company at Dover, for instance, had for several years consented to a deduction of 8 cents per month from their wayes for a "sick fund," which was apparently managed by the company. In that year the fund accumulated was said to have anounted to \$1,200 or \$1,500' A provision for deducing 2 cents each weak from wayes for the benefit of the sick fund was one of the rules of the company in 1854.

At Lowell a hospital for the factory operatives was established in 1839, where the charges were \$4 a week for men and \$3 a week for women. If they ware not able to pay, the corporation by which they were employed was responsible, they in turn being held responable to the corporation / The Hamilton Company and probably others, in 1848, also provided for a physician to "attend once in every month at the countingroom, to vaccinate all who may need it, free of expense."

In some localities, especially in the early years of the factory system, it was the custom to lock in the operatives during working hours, and this was the custom of a submer of serious accidents in cases of fire. In New England Seth Luther stated that "in some establishments the windows have been nailed down, and the females doprized of even frash air, in order to support the 'American System.'" This was the custom, too, in the factories at Ellicotts Mills, Md., where in 1829 it was, together with a reduction of wages,

eThe kan, March 11, 1884. Luther, Address to be Workingness, third edition, 1889, 98, A damine site for hand was more than the matter of the set in the strates, no. N. J., shap the propriot "matted a protective society, whereby such hand pays 2 controp were hand the small sum that for has been sufficient to pay. (But where mally sick and unable to work." (Workingman's Advocate, Scho, 90, 1980)

/ Miles, Lowell as It Was and as It Is, 1845, p. 907.

Handbook to Lowell, 1848, pp. 42-44.

a Luther, Address to the Workingmen, third edition, 1886, p. 17, footnote.

a Luther, Address to the Workingmen, third edition, 1836, pp. 49, 50.

b Robinson, Loom and Spindle, p. 48.

e Voice of Industry, January 30, 1846.

[#]State Herald: The Factory People's Advocate, January 27, 1881.

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the cause of a strike at the Union factory. A late as 1866 a night fire at a worsted mill near Desrivence, which employed 600 hands and was tun day and park (Wright for Michs the fact that the door and lower windows over fastaned. A territy panie caused among the women employee. Might WebDingted by multipling from upper windows, and there we by an a runnor, which we afterwards denied, that some periabed in the Pannes. A little sofer in the same year a soore of operatives were by union from the windows of a burning factory at Woonsocket. Even more recently, too, poor provision in case of far has been an evil of the textife factory system.

HEALTH.

The effect of factory labor upon the health of the operatives was early discussed and wide differences of opinion upon the subject developed.⁴ At its first convention in 1834 the National Trades' Union devoted one session to "the condition and prospects of the formals engaged in manufacturing establishments in this country." In the source of this discussion Mr. Douglas, of Boston, asserted that "in the single village of Lowell, there were about 4,000 females of various ages, now dragging out a life of alavery and wretchédness. It is enough to make one's heart ache," said he, "to behold thése degraded formales, as they pase out of the factory—to mark their wan countenances—their woe-stricken appearance. These establishments are the present abode of wrotchedness, disease, and misery; and are inovitably calculated to perpotuate them—if not to destroy liberty itself."

"Mr. D.," added The Man, in brackets, "entered into a description of the effects of the present factory system, upon the health and morshs of the unhappy immarks and depicted, in a strong light, the increase of discuss and deformity from an excess of labor, want of outdoor exercise and of good air, of the prevalence of depravity from their exposed situation, and their want of education, having

a Free Enquirer, May 6, 1829. Copied from the Mechanics' Free Press, Philadelphia.

b Daily Evening Voice, February 3, 1866. Providence Daily Journal, February 3 and 5, 1866.

· Boston Weekly Voice, August 9, 1868.

⁴The Voice of Industry on April 17, 3466, referred to "the number of har daughtion of New Englishi, who are shiftly dying around use, from exceeding and graduated toil in our incorrise." But a correspondent of the New York Tribune (April 18, 1846) assorted that "travolution of the formale have languroved in health while amplyord and addoct." All New England, indeed all the North, beam on its have a taiff agarment, but at Lorenil it is condensed to a conviction."

The Man, New York, September 17, 1834. Reprinted in Documentary History of American Industrial Society, Vol. VI, p. 217-224.

CHAPTER IL .- TEXTILS INDUSTRIES.

no time or opportunity for schooling; and obserred that the decrepit, sickly, and debilitated immates of these prison houses were marrying and propagating a race of beings more miserable, if possible, than themselves." He told about a New Hampshire girl who, after four months of orvirovit at Lovell, went home to die. Though Mr. Douglas's recommendation that there should be legislative regulation of the hours of labor precipitated an argument against the entire protective system, this description must be taken to represent the opinion of the labor leaders of that day upon the subject of factory employment.

The subject was again discussed by the National Trades' Union in 1835 and 1836," and in an article on "Paper money" in the National Laborer* in the latter year appeared the following description: "The females, for want of domestic employment, must eater the factory, where a few years marching and countermarching to the sound of the bell gives them such habits and weakness of frame that will forzer unfit them for the healthful employment of the country. The thin cheeks and lank frames must for life abide the grating sound of the power loom."

In 1846 a correspondent of the Voice of Industry, commenting upon the stories describing Lowell as a paradise, said: "

I find the fair daughters of New England doomed to severer labor and a more humilisting dependence than the southern sizes. I find them compelled to toil 13 hours a day, shut up in the impure air of coiton bastiles, with escarcely time to est their meals. I find them crowded into corporation boarding houses, almost as thick as bees, with searcely any accommoduations adapted to the health and comfort of human beings, much less to the improvement and happiness of tander females. And I wonder not that there are but low girls who can stand such treatment for more than four or fire years, who can stand such treatment for more than four or fire years, who can stand such treatment for more than constant sources and health illness among theme. It is contresuct that constantion boath illness among theme, this contresuct that constrained boath to tolled out of their beds at half past 4 o'clock in the morning, and heapt in their primons till 7 in the ovening scattificity gouthful vigor, health, and life in order that their oppressors may plunder from them a few more dollars of their hard estimizes.

In 1855 a committee we appointed to inquire into the condition of lactory operatives, and the committee reported in 1326 that "the both of the young founda, in the majority of cases, is highered by unsatural restraint and confinement, and deprived of the qualities executially necessary in the exiture and bearing of habity childran." (National Laborer, November 12, 1389. Respirated in Documentary History of American Industrial Society, You, Yu, P., 282.)

National Laborer, May 14, 1836.

Quoted in the Mechanics' Mirror, 1846, p. 218.

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A little earlier the following poem, written by Andrew McDonald, had appeared in the United States Journal;"

> Go look at Lowell's pomp and gold Wrung from the orphan and the old; See jaic communption's destingliked eye-The lectic check—and know not why. Yee, these combine to make thy wealth "Lod of the Loon," and gittering pell.

Go look upon the meager frame Of girls that know not rest-more shame; Go gazo upon the orphan's doom, The fittest earthly living tomb; Go listen to the slavish bell, That furins an Eden into hell.

The factory girls themiselves, moreover, sometimes voiced their complaints as well as their aspirations for a shorter working-day, in poetry. A poem, for instance, entitled "The Early Called" and signed "Pheney," appeared in the Voice of Industry.⁵ The following verses show the theme and foreshadow the death scene with which the poem ends:

> It was morning, and the factory bell Had sent forth its early call, And many a weary one was there, Within the dull factory wall.

And amidet the clashing noise and din Of the ever beating loom, Stood a fair young girl with throbhing brow,-Working her way to the tomb.

The chief causes of ill health complained of were the had venithtion of both boarding houses and factories, the cotton dust, the hurried meals, and the long hours. One woman who testified before the Massachusetts committee on hours of labor in 1845 stated that there were 2053 small lamps and 61 large lamps which were sometimes lighted in the morning, as well as in the evening, in the room where als, about 130 other women, 11 men, and 12 children worked.* In 1840 the total lack of remtilation in the mills and 12 children Modical Association by Dr. Josiah Curtis. Of the mills he said: "The air in these rooms, which ought to undergo an entire change hourly, romains day altor day, and even month after month, with only the preserious change which open doors occasionally give. There being o ventilation at night, the imprisoned condition of many of the

Quoted in Voice of Industry, November 28, 1845.
 Voice of Industry, May 7, 1847.
 Massachusetts House Document No. 50, 1845, p. 3.

CHAPTER IL.-TEXTILE INDUSTRIES.

rooms in the morning is stiffing and almost intolerable to unaccuatomed lungs." He complained, too, of the number, "from four to air, and sometimes even eight," who "are confined during the night in a single room of moderate dimensions." a In the same year the physician of the Lowell hospital, established by the manufacturing corporations exclusively for the operatives, read a paper before the Middlesex District Medical Society, in which he stated that the records of the hospital from its organization in May, 1840, to May, 1840, showed that out of 1,027 patients, 827 had typhoid fever, a text which he attributed to the lack of ventilation in the cost on mile.³

These evils, however, and others, had long before been recognized by the factory operatives themselves. In 1846 John Allen, in an open letter to the Hon. Abbet Lawrence, wrote:

You work them so long that they have no time for daily faithing, as a protection to their health; you permit such abort intervals of labor for meals that three is no opportunity given them to prepare with suitable oldthing for the sudden ohange of temperature; * * * you compel them to stand so long at the machinery, without any proper species of the body, and such and the subscience of the body and such a such as a such as the subscience of the body and such as the subscience of the body and such as the such as the subscience of the body and the body and the body and the subscience of the body and the subscience of the body and the subscience of the body and t

Another writer in the Voice of Industry in 1847 asserted that because of the long hours few operatives could endure factory iffe very long, and that consequently there were constant changes going on in the working force which were bad for the grins and bad for the employer, as they meant that a large portion of the work must be done by beginners. About the same time, too, a correspondent of the Harbinger asserted that the effect of factory labor on health was "very deleterious," that "if required a strong and healthy woman to work steadily for one year in the nill," that a very intiligent operative "informed us that she doubted whether the grins, if a period of years were taken, could make out much more than half of the full time," and that "the whole system is one of slow and legal assessination.""

• Massechusets I fouse Document No. 153, 1550. Only about five years before the publication of the paper Harrise Farley had writen is an addicati in the Lowell Offering, long headled as the factory girls' paper. "We have that the resume are specieus and high-we have black the sit is mix of loads and astgamact-the constant are not too warm for combot in writer, and that for pieces are cooler in the middle of summar". (Lowell Offering, 0.3, p. 182.)

^c Voice of Industry, September 18, 1846. Even Harriet Farley, in an editorial in the Lowell Offering, had recommended that a place for balbing should be furnished in every bearding house. (Lowell Offering, vol. 3, p. 192.)

d Quoted in Voice of Industry, December 11, 1846.

[&]quot;Transactions of the American Medical Association, vol. 11, 1849, p. 517.

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In 1852, moreover, the address of the Ten-Hours State Convention stated that, according to the most accurate information obtainable, the constitutions of the famale operatives became "iso much impaired in three or four years, on an average, that they are then obliged to abandon the employment altogether."

The fact that the average number of years of employment was not more than four or five^b was generally acknowledged. But the advocates of the factory system attributed this to choice on the part of the girls and not to ill health.

There was, indeed, considerable evidence brought forward by the advocates of the system to prove not merely that factory labor was not unhealthy, but in some cases that the girls were positively better in health for the regular habits of life which is necessitated. In 1841 Dotor Bartlett eited mortality statistics which, he said, "inhow positively, absolutely, undeniably, a state of things wholly and irreconciably inconsistent with the oxistence of a foslo, detoriorated, and unhealthy population."²⁸ The acknowledged that a certain number of sick girls left the city to die at their homes, but said that the number was not large. He seems, however, to have taken no account of the fact that young people, much less liable to die than old persons or babies, furniabled a larger proportion of the population of Lowell than of other phace.⁴

As to the direct effect of factory employment on the health of the operatives, Doctor Bartlett cited statistics collected by him in 1835. Taking up first the figures for a spinning room, he said;*

^a The Hours of Labor. Address of the Ten-Hours State Convention to the People of Massachusetts, etc., 1852, p. 2.

PAs the result of an inquiry made by the Rev. Henry A. Milles among the boarding-bose keepsen of lower line [364] is was associational that the average stay in Lowell 0, 7,804 factory girls had been about four and a half years (Miles, Lowell as It Was and as a H is, 1846, 9, 101). In the average star of 2000 genes 22.80 years. (Mass, House Dec., No. 50, 1365). A compotent witness before the bacted starting of the logical starting of

*Hardist, Vindication of the Character and Condition of the Females Employed in the Lowell Mills, 1841, p. 10. Similar figures were quoted by Miles, Lowell as II Was and as H. La, 1845, pp. 118-120. Dut in 1860 the New York Evening Yost, June 8, 1859, quoting an article in the Anonican, asserted that the Lowell statistics proved the exact copysoid, what the occupations there were unbealthy.

⁴This fact and its influence were brought out clearly in Corporations and Operatives, Being an Exposition of the Condition of Factory Operatives, and a Review of the "Vindication," by Elisha Bartlott, M. D., By a Citizen of Lowell, Iowell, 1649, pp. 35-40.

* Bartlott, Vindication of the Character and Condition of the Females Employed in the Lowell Mills, 1841, p. 20. The whole number of girls employed in it was 55. Their average gave as 18 years and 6 moniths. The average time during which they bad worked in the mills was nearly 3 years. Of these 56, 41 answered that their health was as good as before, 3 that it was better, and 11 that it was not as good. Of these last the overseer remarked into their land that as peake. The following is a summary of the overseer remarked is a double with "25, "troey," 9; "fat," 2; "fat and loads," "26, "troey," 9; "fat," 2; "fat and roay," 2; "fat and roay," 2; "fat and roay," 2; "fat and roather mill gives the following result: Whole number of girls, 90; no as years of having been in the mill, 23 months; head have a contract and year, gives these results: Whole number of girls, 90; a years of having been in the mill, 23 months; head has a good, 26; not as good, 7; better, 3; remarks of overseer-inealthy and tolerably methy and tolerably methy modely and tolerably methy modely and tolerably methy methy and tolerably methy and tolerably methy methy and tolerably methy methy methy for the set of provide the set of provide the set of t

In 1841, and again in 1845, similar statistics were collected, and the following table, copied from Doctor Curtis's report,^o shows the results:

	1841.		1845.	
	Number.	Per cent.	Number.	Per cent.
Health better. Health se good Health not as good.	1,563 878	6, 51 59, 87 33, 62	154 827 443	10.82 58.08 31.10
Whole number interrogated	2,611	100.00	1, 424	100.00

In spite of the showing of these statistics and of the fact that even they did not take into account the girls who were at the time absent because of ill health, Doctor Kimball of Lowell, Doctor Wells, the city physician, and Doctor Bartlett all asserted that the persons who worked in the mills were actually healthier than those who did not,⁴ and the Lowell correspondent of the New York Tribune asserts that the charges made in the petition of the operatives to the legislature 'io' unhealthiness from the excess of labor were found to be fass,'' and 'that the general health of the operatives was improved

^a Transactions of the American Medical Association, vol. 11, 1949, p. 544. This table was copied in Massechastica House Document 153, 1850, Roport of the Committee on Hours of Labor, where it was also shown that, according to the replice of 930 ferales working in the Boott Mill No. 2, Lovell, "41:42 aper cert wave in informoved health, 27:09 per cent health not as good, and 85:62 per cent results the onlist" Barbert V, Whichston the Character and Condition of the Formale Employed in the Lovell Mills, pp. 11,12, also discussed those flower advorgence for 1814, as did the Masschusett Report on Hours of Labor, Hours Document No. 60, 1845, p. 13. The two Masschusetts house shownones have reprinted in Documentary Willstory of American Industrial Society, Vol. VIII, pp. 383-196.

^b For the evidence of Doctor Kimball and Doctor Wells see Masschusetts House Document No. 50, 1845, pp. 11, 12.

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by the regularity of labor, dick, etc."⁴ "The general and compartive good health of the gives employed in the mills here," as ad Doctor Barliett, "and their freedom from serious disease have long been subjects of common remark among our most intelligent and experienced physicians." This good health he attributed to regular habits, early hours, plain and substantial food, and work which "is sufficiently active and sufficiently light to avoid the evil's arising from the two extremes of indence and overcartion."⁸ To this testimony of physicians the Rev. Henry A. Miles added:⁵

A walk through our mills must convince one by the generally healthy and robust appearance of the girls, that their condition is not inferior in this respect to other working classes of their sex. Certainly, if multitudes of them wonth hone to sicken and their set multitudes of their sisters and neighbours would not be very eager to of these girls themselves, of the matrons of their boarding houses, and of the phrysicians of the city, can be reconciled with only one conclusion, and that only the projudiced and designing will resist.

Instrict Farley in the Lowell Offering, too, asserted that factory labor was not unhealthy, that the physical laws "violated in the mills, are almost equally violated throughout New England,"⁴ and that in many cases in which health was lost the girl was hereaft to binds. "Many also," also asid, "caspecially semantresees, alone binders, straw braiters, have been accustomed to labor, sitting in nearly the same position, a greater number of hours than those employed in the mill, and in an atmosphere quite as warm, confined, and inpure; unless it is contended that the smoke of a cooking slove is less impure than the dust of a cotton mill." She added:

A favorable circumstance in connection with factory labor is its regularity; rising, sleeping, and eating at the same hours on each successive day; the necessity of taking a few drafts of fresh air in their welks to and from work; and the lightness of the labor—for, notwithstanding the complaints which have been lately rande, the work allotted to one is light—were it not so there would not be ao many hurrying from their country homes to get rid of milling coves, washing floors, and other sets healthy employments.⁴

For much of the overwork she blamed the girls themselves, who were too eager to earn the largest possible amount of money and to enjoy social diversions. "We have known girls," she said, "to rise before file first bell on a summer's morning—do, from choice, their own chamber work—ho at work in the mill, brushing, oiling, stortum minutes before 'the gate was hoisted'—star, after 'the gate was

^a New York Weekly Tribune, March 4, 1846.

Bartlett, Vindication of the Character and Condition of the Fomales Employed in the Lowell Mills, p. 13.

[&]quot; Miles, Lowell us It Was and as It Is, 1845, p. 127.

d Lowell Offering, vol. 3, p. 191.

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shut down,' till the watchmein sent them out to their breakfast-then too home as fast as possible-est allow they or air minutes--put on their Highland shawl, and bonnet, and go to knitting four or five minutes--then back to the mill, as soon as the gate is opened--and so on through the day. Five or sist evenings every week are spent at mesting, or singing school, or something of the kind, and then when the Sabbath ones, it is anyth but it day of rest. They will attend a morning prayer meeting at sunrise; then breakfast, and go to the Sabbath school; then to meeting again; then to an aftermoon service, and after that to an evening meeting.'' She advised the girls, if they folt their health failing, to give up some of these "amusements and pleasures.''a

Weak lungs among weavers Miss Farley attributed to "the almost universal practice of threading their shuttles with their breach," a practice which, she said, had become so common that, in some places, shuttles were made which could be threaded in no other way.³ These shuttles which had to be threaded with the mouth were complained of again in 1867 by one of the women operatives who appeared before the legislative committee on hours of labor.³

On the other hand, a correspondent of the Voice of Industry said that all medical men must be aware of the evil effects of the long hours of labor upon the women employed in factories. "They know." he said. "that it is decidedly dangerous, especially to the female about the period when the osseous system is arriving at its full development and strength-that it produces scrofula, spinal complaints, white swellings, pulmonary consumption, etc. * * * They are themselves animated machines, who watch the movements and assist the operations of a mighty material force, which toils with an energy, ever unconscious of fatigue, a power requiring neither food nor rest, whence the avarice of employers and the stimulus of greater wages, working on those employed, leads to excessive exertions of which disease and death are frequently the result. I think that there is not a medical man of any standing, whose practice is amongst factory workers, but must subscribe to the assertion here made," d Moreover, even Harriet Farley admitted that the dust of the cotton was "poison" to some constitutions, and warned "all with weak and injured lungs to avoid the factories.".

The reduction of the hours of labor, of course, effected some improvement, for the long hours were, naturally, at a time when the need for cleanliness and pure air were nowhere properly appre-

[&]quot;Lowell Offering, vol. 3, pp. 101, 192;

b Idem, p. 215.

^{*} Boston Weekly Voice, March 7, 1867.

[#] Voice of Industry, April 3, 1846.

^{*} Lowell Offering, vol. 3, p. 191.

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ciated, the chief cause of complaint. In 1987 the Daily Evening Voice- published a letter from "a working woran," in which she said that thirty years before she had been a factory girl at Lowell and had found the work easy except for the long hours. The constant standing, she said, frequently produced variosse vains. Her testimony was very similar to that of one of the women witnesses before the legislative committee on the ten-hour law of that year, who said that it was not so much the nature of the work as the length of time that broke down in a faw years the constitutions of the women.⁸ But in an earlier editorial in the Voice it was complained that the work altoted to yownn in faw years was "almost always unhealthy,"

INTENSITY OF LABOR.

Though the hours have been decreased, the intensity of the work has been very greadly increased. Until about 1836 a girl waver, for instance, tended, as a rule, only two looms 4 and Mrs. Robinson asysthat in the early fortise girls "wave obliged to tend no more looms and frames than they could easily take care of, and they had plenty of time to sit and rest. I have known a girl to sit idle twenty or thirty minutes at a time." At I wave customary, however, when a girl wanted to be absent for half a day, for two or three of her friends to tend an extra loom or frame apicce on her about 10 lose her wages. ^J Naturally, this custom suggested to the overseers the possibility of increased productiveness by increasing the number of bornes to be taked by one girl. Improvements in machinery, too, aided this movement, and by 1876 one girl tonded aix.

⁴ One instance is on record, however, of a girl tending four looms in a Pawtucket factory as early as 1830. (Workingman's Advocate, New York, June 9, 1830.)

"Robinson, Loom and Spindle, p. 71.

/ Idem, p. 91.

J and a Collins said in 1570 that they tended 0 or 7 looms. (The Revolution, January 13, 1870.) The treasure of the Atlantic Wills at Lawrence gave, in 1573, the following statement of the increase in work: "In 1585 a gift tended 2 or 3 looms, waving cotion good, running 105 picks as minuts, equal to 210 or 224 picks of tended 4 looms, running 105 picks as an instats, equal to 210 or 224 picks of tended 4 looms, running 105 picks as the same of the same mill 4 or 3 looms, running 156 picks each per minute, equal to 200 or 775 agregates in her charge, being threshold, nextly, what is use in 1583, and in the Atlantic Mills tended 4 does wave polynomized (at 0 a spin-ing tense of 125 equil-106), making 250 is sufficient of 100 picks and 0 a spin-ing tense of 125 equil-106), making 250 5 oldes (a balf of 179), making 704, er 10 oldes, making 800. A diff new rates polynomized to the same balf or 5 oldes, that (or 179), making 704, er 10 oldes, making 800 and 1860.

a Daily Evening Voice, February 23, 1807.

b Boston Weekly Voice, March 7, 1867.

Daily Evening Voice, October 4, 1865.

Robinson revisited the factory where she had worked, she found that the girls were obliged to tend so many looms and frames that they wate "always on the jump and had no time to think." *

The first effort to increase the number of looms operated by one wiman of which we have distinct record was the occasion of a strike. and the second was at the time of a strike. The girls in the Amesbirry mills had a "fare-up" in March, 1836, because they were told they must tend in future two looms intend of one, without any increase in wages." They were doubtless woolen weavers. Cotton weavers probably tended two looms almost from the beginning. A little later in the same year the women weavers in a factory at Norristown, Pa., who were on strike against a reduction of wages, were offered "an additional loom, that they may make up, by increased labor, what they lose in prices." The offer was condemade by the Dover company to its striking employees, but this time the increase was to be from aix or seven to eight looms.⁴

In 1844 two looms appear to have been the "allorment," but girls often tended three or four." Nevertheless, in 1846, Miss Bagley, disputing the statement that the girls were required to exert only a small amount of mucular strength, speake of the operatives who were "required to tend four looms." / Another writer in the Voice of Industry in the same year remarked: "It is a subject of comment and general complaint among the operatives that while they tend three or four looms, where they used to tend but two, making nearly twice the number of yards of cloth, the pay is not increased to thom, while the increase to the owners is very great." / Again, in the fall, a writer warned the operatives against taking a third loom, asying that the wages will be roduced "and you will be obliged to work harder, and perhaps take the fourth loom (as was tried by one corporation in this city) to make the same surges that you now do with

a Robinson, Loom and Spindle, p. 205.

^b Boston Evening Transcript, March 25, 1836.

- National Laborer, October 22, 1836.
- The Revolution, January 13, 1870.
- * Lowell Offering, vol. 4, p. 169.

/ Voice of Industry, January 23, 1846.

Idem, March 13, 1846.

in 1846 agid lended 8 cards, 2 milway back, and 6 deliverios of drawings. In 1873 agid lends 8 cards, 7 milway back lanceds of 2, and 8 deliveries of drawings instead of 6. Agin, in 1840 one git lended 2 specters of 20 spindles each, and 2 sides of a spindles, making 68 spindles, a lange 8 spindles, 1n 1873 and 2 sides of a spindles, making 68 spindles, 2 specders of 48 spindles, making 108 spindles, and 2 specders 07 as see, hanking 144 spindlas—honig from two to three times as many spindles as she did in 1849." (Gray, Argument on Petition for Ten-Hour Law, 1873, pp. 29, 29.)

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two."^a The reference is apparently to the Massachusetts corporation which had attempted the preceding March to have seek weaver tand four looms, at the same time reducing the wages "J tent on a pices." The weavers promptly held a meeting and zesolved that they would not tend the fourth loom except at "the same pay per piece as on three."^b They apparently won their point, and the quotation above would seem to indicate that the four-loom system was not introduced at that time.

But in 1847 we find the Washington Manufacturing Company of New Jersoy, with mills near Philadelphia, advertising in Lowell for '30 good female weavens' who 'can make **81** a day on four loome; board at the rate of **81.42** per weak.'' This company even offered to put the travelong expenses of all operatives, without latter deduction from wages.⁶ In the same year a magazino writer stated that at the Pongamest Mill, near Narragnneet Bay, a waver tended two, three, or four looms, but that, if the spinning had been well done, they did not occupy all her time. ''The remainder she will spend according to her taste; either in solitary thought, in chatting with her associates, or in sitting down by her looms with a book, or with knitting or needlowwrk in her hands.''

The effect upon wages of the increase in the number of looms tended by one weaver is shown in a letter by "a Lowell factory girl," which appeared in a Boston paper of November 9, 1844.^{ϵ} She said:

In May, 1842, the last month before the reduction of wages, I tended two looms, running at the rate of 140 beats of the lathe per minute. In twenty-four days I carned \$14.52. In the next month, June, when spool and prices land both been reduced, I tended four looms at a speed of 100, and carned in 24 days \$13.52, and I cartainly, after the first foy dwy, had an easier task blain with two the first foy dwy, had an easier task blain with two hits by the gradual increases of the speed, as I grav neumement to it. It January, 1843, the speed was raised to about 118 and the price reduced still lower. I carned in that month, in 24 days on three lower \$14.62. It should be a speed our part of the speed was raised just as we could bear it, and often, almost, always, at our own routes, 1845, I still tended three looms, and in 24 at a speed of about 220, I reserved \$102 (canual to 25 10e, 6d) in payment for 24 days' work. I affirm that I have not in any of these, or other months, or verworked myself. I have not sin any of

a Noice of Industry, September 11, 1846.

^b Idom, May 15, 1846. Reprinted in Documentary History of American Industrial Society, Vol. VIII, p. 231.

* Voice of Industry, June 25, 1847.

d Knickerbocker Magazine, December, 1847, vol. 30, p. 511.

Scoresby, American Factories and Their Female Operatives, pp. 30, 31,

ability and skill, and as fast as I did so I was allowed to make more and more money, by the accommodation of the speed of the looms to my capacity. I am by no means the best weaver in the room where I work, though perhaps better than the average. I believe I have given no exaggerated picture of what has been thor the us average of grins. The other departments I suppose to have fared much as we in the weaving rooms.

This increase in the intensity of work, coming before any decrease in hours and accompanied by a decrease in the picer rate of wages, may have been in part the cause of the strong labor movement among the factory operatives of that day. Certain it is that no succeeding increases in the amount of machinery to be tended by one girl roused the same protest as this first increase from two to four looms.

The movement, however, toward increased strain and more concentrated attention in textile factory work progressed. In 1860 Jennic Collins, arguing for the 8-hour day, as Sarah G. Bagley a quarter of a contury before had argued for the 10-hour day, said at a meeting of the New England Labor Reform Lague Convention:

I know what it is to stand up all day in a factory, and keep pace with the bolts, and drums, and eyindres, and other parts of the machinery. Flesh and blood, no matter how worn-out and used up, must keep up with that great strength of steam. And I have seen these girls atand watching the clock, and when it struck the hour of noon, hey would harry down long fighthoria the struck the hour of based again, up in the top story of the mill, within a quarter of an hour from the time thet.

It is evident, not only that no "golden era" "over really existed in the textile factories of this country, but that conditions of labor have, in some respects, at least as regards hours, improved since the days of the Lovell Offering. If with this improvement has come a gradual deterioration of factory districts and of factory population, the one legislative gain should not be overlooked. And it is interesting to observe that, while the famous Lovell Offering was in its day read by "litterary folk" and is now only a historical curiosity, the movement which the now obscure Voice of Industry championed, apparently to a wide circle of factory operatives, has been in a considerable moustne successful and is in full wiger to-day.

^a American Workman, June 12, 1869.

CHAPTER III.

CLOTHING AND THE SEWING TRADES.

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CHAPTER III.

CLOTHING AND THE SEWING TRADES.

GENERAL CHARACTERISTICS AND HISTORY.

In the making of olothing* both men and women, have always had their part. Men have been tailors, making garments for their own sex, and, in the days when hand labor and the artisan system prevalled, men made boots aloves, gloves, and many other heavy articles. In the early days of this country, however, women were employed probably to a considerably greater extent than in England in the manufacture of clothing. The nen were needed for heavier work, and whatever tasks could possibly be performed by women were left to them. Nevertheless, men were almost exclusively employed in colonial days in the making of boots and shoes, of leather gloves, and of hat. As tailors, too, they had their place, even if that place was limited, owing to the comparatively small demand for tailored clothing.

In most of the trades included under the general term "dothing" the eventy machine has been, from the technical point of view, the great revolutionary force. It is the sewing machine and artificital power which have driven the clothing industries from the home to the shop, and, in some branches, to the factory. But, from the point of view of woman's work, the sewing machine is not a reason for employment, but merely determines conditions of employment. Sewing, whether by hand or by machine, have subdet wome to sew on hawvier materials than they could manage by hand, but, in general, machinery in the clothing industrials has merely done, to a lessor degree, what machinery did in the textile trades—transferred the woman worker from the home to the factory. That the transfer has been less complete has been due primarily to the comparative simplicity and inexpensiveness of the machines.

In the clothing trades, however, there has entered in another element which is of comparatively alight importance in the textile industries; that is, a redistribution of work through division of labor. Division of labor, of course, exists in the textile industries, but the

ⁿ Under the term "clothing" as here employed are included all articles used for personal protection or adornment, and oven umbrellas, parasols, canes, and pocketlooks.

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processes of vesving and spinning have never been split up into minute divisions, each division requiring a separate operative who does only that one hing. A piece of cloth has slawaya been spun by one operative and worven by another, but a pair of ahees, which was formarly made by a single shousaker, now requires about a hundred different operations, in some establishments each performed by a different person. This division of labor has gone hand in hand with the development of the wholesale trade and has been in the clothing industries while machinery was in the textile industries, the determining factor in the employment of the sexce. Machinery, it is true, has played its part, but it has been machinery accompanied by division of labor, which it made profitable.

Taking the clothing trades as a whole, doubtless owing to this division of labor, which has enabled women to perform part of the work formerly performed by men, the proportion of women workers has increased." This increase is especially evident in the manufacture of boots and shoes, which, however, within recent years has fluctuated most decidedly in the relative employment of men and women, the proportion of women sinking in 1870 to less than half the figure for 1850.9 In this industry, however, the statistics which are available are most unsatisfactory, for the great division of labor which produced the woman shoe binder occurred at the end of the eighteenth and beginning of the nineteenth century. The boot and shoe industry is the farthest advanced industrially of all the sewing trades. The glove industry follows and farther behind come the other sewing trades, in most of which the division of labor, except for the simple division into cutting and making, has been effected since the introduction of the sowing-machine in the middle of the ninetcenth century.

Anothor difference between the clothing and the textile industries is the persistence in the former of home work and, in a lesser degree, of custom work. Even in the manufacture of gloves, which is reguly hold of the persistence of the boot and shot industry, a large number of home workers have always been and still are employed. And in the manufacture of ready-made garments the factory system has only recently made headway. Instead has developed the missehale half-way station of the "wwashing system." Home work and the small-shop system have developed, in some of the clothing industries, peculiarly distressing conditions of labor which have borne always with crushing weight upon the women workers. That these condi-

"See Table XJ, p. 253. It has decreased, however, in a surprising number and variety of cioling industries, including "clothing, menn"," "clothing, women's, desemaking," "clothing, women's, factory product," "hat and caps, not including wool hats," "millinory and hec goods," "skirts," "buttons," "umbrollss and canes," and "gloves and mittens."

* In 1850, however, women and girls were both included, and in 1870 only women.

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tions do not by any means constitute a new problem, and are not merely an outgrowth of immigration with which they are now generally associated, appears definitely in studying the history of the garment trades.

Picco psyment has always been almost the universal method of compensation in the garment trades, but in some branches it has been complicated by the contract, subcontract, and team systems, which have themselves developed new problems and evila. Moreover, the greater power of the individual over the output, due to her prester control over the machinery, has led to problems of overstrain with which nothing in the textile industries can compare.

The difficulties of women workers in the clothing trades have been further intensified by the fact that in most occupations little skill is required, and that of a kind generally possessed by women. Skilled dressmakers or milliners have always been able to command good prices for their work," and in general, where skill or taste are required in the manufacture of clothing, they have been rewarded. But the great demand has been for women who could merely handle a needle or run a sewing machine, and the wages and hours in this work have been such that the acquisition of skill or tasto have been practically impossible to the women who have once entered the treadmill. Apprenticeship, in the sewing trades at least, has always been a farce. As early as 1848 it was said that apprentices to the dressmaking business in New York were kept sewing and learning nothing until the very day before their apprenticeship expired, when a few hours were spent in giving them some general directions about cutting a dress, and they were discharged, "there being no room for journeywomen on wages in an establishment where all the work is done by apprentices for nothing."* Similar complaints have been common since that time.

These five elements, home work, the "sweating system," the contract as at subsortnet systems increasing the number of middlement between producer and consumer, the exaggerated overstrain due to piece payment, and the fact that the clothing trades have served as the general dumping ground of the unskilled, inefficient, and casual women workers, have produced from the vary beginning of the wholesale clothing maxufacture in this country a condition of deplorable industrial chaos. The boot and shoe trade, it is true, early escaped trade is rapidly following; in the manufacture of collars and cuffs some degree of order was comparatively early attained; and in the

In 1830 Mathew Carey spoke of milliners and mantum makers as well paid for their labor. (Carey's Miscellaneous Pamphlets, No. 12, To the Editor of the New York Daily Sentinel.)

^b New York Daily Tribuno, Aug. 12, 1848.

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manufacture of buttons; needles and pins, books and eyes; and a few other articles the machinery has been such as to necessitate organization; but in most of the other elothing industries industrial chaos and cutthrost competition among, working women prevailed throughout the ninsteenth century; and organization under condtions as favorable as those in the textile industries has only recently begun to be established.

To alleviate the distress of the women employed in the clothing industries, three remedies have been frequently tried: organization, cooperation, and charity. The first of these remedies is the subject of a special volume of this report." Cooperation, usually organized and supported by philanthropists, has frequently been tried. As early as 1836 the New York Sun⁵ suggested that the seamstresses should "organize themselves into societies and set up for themselves, purchasing materials and making garments for sale upon their own account." Some thirty years later a number of cooperative associations were organized to aid the struggling sewing women, " and twenty years afterwards some Chicago girls, members of the Knights of Labor, who were locked out by their employers for taking part in the Labor Day parade, formed upon their own initiative a company which they called "Our Girls' Cooperative Clothing Manufacturing Company."d Other instances of philanthropic or independent cooperation might be cited, but such enterprises have never been successful enough to make cooperation important in this connection.

Usually, however, philanthropic efforts to aid the women workers of the clothing trades have taken the form of societies equalized for the purpose of furnishing work. At first these societies paid the prevaling rate of wages, and this policy has always been followed by some. The fact, however, that the prevailing rate was not a living wage, early brought forth criticiam of the policy. In 1836 the committee on female labor of the National Trades' Union spoke scornfully of the members of "Doross Societies" who "subscribe themselves 'charitable ladies,' for giving a woman 12} cents for making a slirit, equalled as they are in 'charity' only by the United States clothing department in the city of Philadelphia, which has ground the seconstress down to the above sun, 122, cents, for the same article."

d Journal of United Labor, November 25, 1886.

National Laborer, November 12, 1836. Reprinted in Documentary History of American Industrial Society, Vol. VI, p. 288.

[&]quot; History of Women in Trade Unions, Volume X of this report.

^b Quoted in the Public Ledger, Philadelphia, March 26, 1836. The Public Ledger later itself urged the same measure. (Public Ledger, Sept. 16, 1836.)

[•] For example, the "Ladies Cooperative Tailoring Association of Baltimore," and the "Foundie Cooperative and Boneficial Association of Wohurn, Mass." (Daily Evening Voice, Mar. 21, June 23, 1866; Fincher's Trades' Review, Sept. 9, 1866, Arr. 22, 1868. These were both labor papers.)

The Provident Society of Philadophis was frequently criticised for its wage scale," as was the Boston House of Industry. The same ord has many times since been the cause of complaint, as, for example, in 1857, when a writer in the Industrial Lasder assorted that he had found immake of several charitable institutions in New York crocheting ladies share's for \$3 per dozen, or at 25 cents each, by which they could earn 124 cents a day, it its hing; 2 days to make one.³

As early as 1830, however, efforts were made to establish in New York, Thildophia," and other cities sociaties for the purpose of insuring "a reasonable compensation for the labor of the industrious femals," and societies which paid wayse above the average were established soon afterwards in Philadelphia and Baltimore. And in 1851 there was lowed as atalabetory (far different from factory) which is said to have paid "astafactory (far different from factory) prices to all in its employ." Various "protective associations," too, sprang up in different parts of the county between 1845 and about 1870, and attempted to establish a scale of "fair prices." The Boston Needle Women's Fiend Society hold its twenty-second annual meeting in 1869./ Similar organizations have been common within more recent years, but little has been accomplished.

HAND WORK IN THE GARMENT TRADES.

The history of the garment trades may be divided into two great periods, that of hand work and that of the machine. The first period, however, may itself be divided into two stages, that of handieraft or custors work and that of wholesale manufacture under the wage or piece-prior system. These two stages of the first period are mentioned in the chronological order of their development, but the first, especially in custom work, has survived, not merely through the stage of wholesale manufacture, but also through the entire second period of machine work. During the colonial period nearly all of the clothing which was not made at home for family use appears to have been made to order or to have been sold by the maker or a member of her family.

^a The National Gasette, however, which may be characterized by the fact that is bitterize opposed the establishment of a public school system, compliated in 1885 that there was a great searcity of white domestics in Philadelphia because they had laken to serving, having been induced to feave their places by the opportunities for employment turnished by the Prevident Society. (National Gasette, Philadelphia, July 6, 1855.)

b Industrial Leader, July 9, 1887.

 Mechanics' Press, Utica, June 5, 1830. Quoted from the New York Evening Journal.

d Mechanics' Free Press, May 1, 1830.

* New York Daily Tribune, June 8, 1853.

/ The Revolution, April 29, 1869.

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DEVELOPMENT OF THE WEOLESALE TRADE.

In the clothing trades, unlike the textile industries, it was not machinery, but the development of the "ready-made" ("or wholeads business which made the women clothing workers' wage-armory. Early in the innetsenth century if not before, there began to be manufactured cheep ready-made clothing for soldiers and 'sailors and also "for the South." The first ready-made clothing of which we have record was 'dhrift of the Indiana" which were made by at least one woman at Northfield, Mass, about 1725 for 8d. each, and 'man's breekeeds' which were made for 1a. 6d. a pair." But it was not until much later, when northern capital found profitable investment in furnishing clothing for southern slaves, that the business became of consequence. From the beginning it was centered in the solice, especially in New York and Phildedphis, and later in Boston."

The heavy duty imposed by the tariff of 1816 (30 per cent), ready-mode clothing, and the vero heavier duty of 1828 (50 per cent), greatly aided the development of the industry, and by 1831 there were 300 men, 100 children, and 1,300 women employed in tailor subps in Boaton alone.⁴ About the same time men's ready-made medium-grade clothing began to be manufactured in New York, and to women workers commenced to carcroach upon the domain of the tailor—the only part of the garment manufacture which was traditionally man's field of labor. Even the trade of the tailor, however, at the time of a journeyman tailors' strike in New York in 1819 to prevent the employment of women, was said "two conturies ago" ito have ben "wholly performed by women," and it was aided that "the interference of the males in the business gave rise to the odium that a tailor was only the night part of a man." "⁴

References to the entrance of women into the tailoring business are frequent after 1833 when, the New York tailors having gone on strike, the Journal of Commerce, always a consistent employers' organ, thought is would be an easy matter to defeat them since "women may well do half which the men have been accustomed to $do."^{x}$ Again, in 1835, the United States Telegraph, commenting upon the unremunerative labor of women, suggested that they "take from the men the tailoring business, which is much better adapted to the female." In the same year, too, the master tailors of Chicai-

[&]quot;Temple and Sheldon's History of Northfield, p. 163.

^b An advertisement appeared in a Boston paper in 1838 to the offect that "200 females can have employment on low-priced work, by applying at J. Sleeper's mavy work shop, rear No. 6 Congress equare, up stairs." (Daily Centinel and Gazetie, Sont. 23, 1830.)

^a Documents Relative to the Manufacturers of the United States, Executive Documents, first session, Twenty-second Congress, vol. 1, p. 465.

⁴ Columbian Continel, Boston, April 24, 1819.

^{*}New York Journal of Commerce, October 12, 1833.

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nati, Louisville, and Ste. Louis complained that the journaymen refused to work for those who employed women.⁴ And during the trial of this journayment tailory compinery case in New York in 1886 it was charged that this union had on one occasion struck against an employer because he had employed a woman.⁴

In the New England States, in 1836, tailoring was said to be "in a certain measure governed by females," 4 and in 1849, at the time of a tailors' strike in Boston, it was stated that wages had been reduced 57 per cent during the past five years, and that master tailors had further heightened the competition by employing women on many parts of the work hitherto performed by men.* As late, moreover, as 1864, the Merchant Tailors' Association of St. Louis denounced the society of journeymen tailors for having interfered with their employing women and thereby deprived "honest and worthy seamstresses of employment." The journeymen on this occasion, however, replied by saying that "the only action the jours take in the matter is that when a boss gives work to a woman he shall pay her the full price." But, they added, "we will resist by all lawful means in our power the efforts of our employers to introduce female apprentices by encouraging them to leave service and other employments more congenial to girls than mixing with men in a workshop from morning to night.

It was originally, without doubt, the ready-made alothing business which made it possible and profitable to employ tailoreses, but later the division of labor brought them into certain kinds of custom work. Under the general term "garment workers," however, are included the makers of men's, women's, and children's clothing, shirts, etc.tailoresses, seamstresses, machine operators, and dressmakers. And, with the single exception of men's clothes, which were the first of the ready-made garments, all of these articles were originally made mainly by women.

The manufacture of ready-made clothing had become by 1835 a thriving business, and during this year and the next, according to a call issued in 1844 for a national convention of tailors, "very country village within 100 miles of New York became as busy as a bechive with tailors and tailoresses," and enough was produced during these two years to last through 1837, 1838, and 1830.

a United States Telegraph, July 4, 1835.

^b Commercial Bulletin and Missouri Literary Registor, St. Louis, December 18, 1835.

New York American, June 15, 1836.

⁴ National Laborer, November 12, 1830. "Roport of committee on female labor of the National Trades Union." Reprinted in Documentary History of American Industrial Society, Vol. VI, p. 285.

New York Weekly Tribune, August 22, 1849.

I Fincher's Trades' Review, April 16, 1864. This was a labor paper.

e Workingman's Advocate, July 13, 1844.

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indeed, combined with a tariff which, according to the New York Tribune, made possible "an active foreign compatibion", which filled the southern market with imported clothing, and so superneded that which had formerly been made up in and about New York," was disastrous to the business and threw out of employment a large number of women, causing an immense amount of suffering." This tariff of 1842, however, is said to have in a great measure restored the southern clothing trade to New York, and by so doing to have raised the wages of seamstresses."

In general, though the ready-made-clothing inductry was an important business before the invention of the sewing machine, it was practically confined to men's and bays' clothing of the cheaper grades and to shirts, and the quantities manufactured were necessarily small, the work being all done by hand. As late as 1840 it was said that many women were employed in the tailoring business' but chiefly upon particular articles, and for the southern markets." * Army clothing, too, was early an important branch of the ready-inade business, and in 1839 it was said that 800 women were engaged in this kind of work in Philadelphis.⁴

It is probable, though there are practically no statistics upon the subject, that during this period women retained all their former work, the lighter forms of sewing, and at the same time slowly encreached upon the domain of the man tailor. The hopelessly imperfect manufacturing census of 1820 gave under the heading "clothing," only 40 men, 0 women, and 13 "boys and girls," and under the heading "garments, men"s, '16 men, 5 "boys and girls," and no women. The makers of men's garments, at least, were probably tailors. In 1850, 63.7 per cent, and in 1860, 63.6 per cent of all the employees engaged in the manufacture of men's clothing (given as "clothiars and tailors" in the samufacture of the seving machine had become general, and the second great period of the garment-making industry, the machine period, was fairly under way.

American State Papers, Finance, Vol. IV, pp. 29-223.

/ See Table XI, p. 253.

^a The Philadolphia Public Ledger, September 21, 1837, attributed the auffering among nearnstresses in cities to "that vicious system of wholesale dealing, which during its expansion, collects women by thousands from all parts of the country, and during its contraction, suddenly turns them out to starve."

^b New York Daily Tribune, March 27, 1845.

c British Mechanics' and Laboren' Handbook, etc., to the United States, 1840, p. 219. d Public Ledger, October 22, 1839. It was complained, moreover, that these women were paid in deprociated currency, thereby loning 10 per cent of their wages.

The history of this period, like that of the better-known period of the machine, if as 'tab of long hourn, jow reges, and exploitation. The "sweating system," indeed, in the broad sense of that term, was setablished in this country at the very beginning of the ready-inade generate business and has developed simultaneously with that business. The contract system established stages and degrees of wreating, but a study of the waveling system would have to extend back at least as far as the beginning, in 1928, of Mathew Carey" a signation in the interests of that "numerous and very interesting portion of our population," the working women, of whom he estimated that there were in Philadelphia, New York, Boston, and Baltimore between 18,000 and 20,000. At least 12,000 of these, he as did, could not earn, by constant employment for 16 hours out of the 24, more than \$1.25 per week².

The disclosures made by Mathew Carey during the course of his investigation and agitation in behaff of the sewing women seem, though quaintly worded, very modern in their substance. It was set forth, for example, in the resolutions passed at a meeting in Philadelphia on February 21, 1829, that "it requires great expertness, unceasing industry from sunrise till 10 or 11 o'clock at night, constant employment (which yery few of them have) without any interruption whatever from sickness, or attention to their families, to earn a dollar and a half per week, and, in many cases, a half or a third of their time is expended in attending their children, and no small portion in traveling 8, 10, 12, or 14 squares for work, and as many to thak i thack when finished; and, as, moreover, there are few of them who are fully employed, they are thankful for two, three, or four shirts at a time at 12 conts each."

The committee appointed at this meeting reported: d

That they are convinced, from a careful examination of the subject, that the wages paid to scanastrasse who work in their own apartments—to spoolens, to spinners, to folders of printed books quarks to their support, oven if fully employed, particularly if they have whereas the work is as precasious that they are often unemployed sometimes for a whole work together, and very frequently one two days in each week. I many cases no small portion of their time

^a Mathew Caroy, "To the Ladles who have undertaken to establish a House of Industry in New York," and "To the Editor of the New York Daily Sentinel," Miscellaneous Pamphotes, Philadelphia, 1831.

- ^b Carey's Seloct Excerpta, vol. 13, pp. 138-142. Dated July 1, 1830.
- e Free Trade Advocate, Philadelphia, March 14, 1829.
- d Carey, Miscellaneous Essays, pp. 260-272.

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is spent in seeking and waiting for work, and in taking it home when done.

A complete remedy for these conditions the committee considered as "perhaps impracticable," but some mitigation was hoped for. The Committee said:

The mitigation must wholly depend on the humanity and the sense of justice of those by whom they are employed, who, for the honor of human nature, it is to be supposed, have not been aware of the fact, that the wages they have been paying were insdequate to the purchase of food, raiment, and lodging; and who, now that the real state of the case is made manifest, will probably, as they certainly ought to, increase those wages."

"Those wealthy ladies who employ seamstresses or washerwomen" were especially urged to give such wages as would not only yield "a present support" but "provision for times of sickness or scarcity of employment." Another important remedy suggested was. "to increase as far as possible the diversity of female employments, by which that competition which has produced the perpicious reduction of wages, would be diminished." Finally, it was recommended that there should be established "a society for bettering the condition of the poor."e

A year later, however, the New York Sentinel stated that no means had been discovered or adopted to mitigate the distress, and that conditions were as bad in New York as in Philadelphia. Many women in New York, said the Sentinel, were employed "in making duck pantaloons for a readymade clothes store for 4 cents a pair. and cotton shirts for 7 cents a piece. These women stated." said the Sontinel, "that, with the most unremitting industry, they could sew no more than three pair of pantaloons, or one shirt in a day; and that they were obliged to labor for this paltry pittance, or be entirely without employment. The storekeeper, for whom they wrought, could procure the services of emigrants wretchedly poor, or get his work done at the almshouse, and would give no higher wages. In consequence, the price of such work was reduced to

" Spoolers and epinners are here montioned as among the women whose wages were inadequate. Earlier, however, Matthew Carey had spoken of spinners and weavers in factories as well paid. (Carsy, Miscellaneous Pamphlets, No. 12, "To the Editor of the New York Daily Sentinel." 1831, p. 5.) He is here, however, probably referring to home work, which appears to have survived in Philadelphia even to 1833, and in which the women workers were in direct competition with the factories.

b This romedy was spoken of by Frances Wright as "the last resource of suffering poverty and oppressed industry "-"the forlorn hope presented in the touching document signed by Mathow Carey and his fellow laborers." (Frances Wright, Locture on Existing Evils and Their Remedy, pp. 8, 9 and p. 13.)

" This recommendation was sgain made in an "Address to the public," dated Philadelphia, August 20, 1829. Carey's Select Excorpta, vol. 3, pp. 357-360).

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nearly a similar rate throughout the city."* In 1834, 600 women are said to have been discharged at one time from a New York clothing establishment.*

The average prices of tailoreness' work in New York in 1831 may be judged from Table B, which gives the bill of prices adopted at a mesting of the Society of Tailoreness on June 16, 1831, and also the bill adopted at a meeting of olohiner 30197, 1831. The length of the list shows, too, the extent of the 'employment of women in tailor's work. In addition to the advances in wages, the tailoreness esked that all work taken to be made within ten days be considered as ''outomer' work'' and that for such work they be paid 25 cents extra on each small job and 60 cents extra on all 'coatese.'' The clothiers named various prices for ''outomer' work'' all somewhat above regular prices, but not as much higher as asked by the tailoresses. For boys' and youths' clothes the tailoreness eaked from 124 cents to 374 cents less than for men's'

In Boston conditions were as bad as in Philadelphia and New York. The Nev Joseph Tuckerman⁴ recorded in 1830 that he had recently been told, "by a very respectable keeper of a slop shop, that he has for some time past had 60 applications a day from females for work with which he could not supply them; and the work sought by them, is, ccarse shirts to be made at 10, 8, or even 6; cents each; or labores' frocks, or duck pantalons, at the same prices." The average weekly wages for such work, when a woman was fully employed, he gave as but a dollar or a dollar and a quarter-less, apparently, than in Philadelphis, the common price of a room being a dollar a week? "It is

⁴ Machanics' Free Press, October 23, 1830. From the New York Sentinel. The New York Bentined was the first daily labor paper published in the United States. One New York Lidlor, who was supposed to have a contract with the United States Government in 1850, is said to have paid women 3 cents a piece for making trouces and 6 pence for making votes. (Mochanics' Froe Press, Spc), 11, 1850.)

^b Nilcs' Register, vol. 45, p. 415, 1834.

· Carey's Select Excorpta, vol. 4, pp. 4-10.

4 Tuckerman, An Essay on the Wages Taid to Females, Philadelphia, March 25, 1830. This easy won the price offered by Mathew Carsy in November, 1830, data good and a strain of the state of 100 or a plece of plato of equal value, for the best emay "on the indequery of the wages generally paid to be seaastreese, especial, splitance, aboo binders, etc., to procure fool, minent, and lodging; on the uffects of that inadegood media of the state of the state

The Boston Workingman's Advocate stated in 1830 that the seamstresses of that city, though earning nominally more than in Philadelphia, 25 cents for a vest or a pair of particloses, and 80 cents for a jacket, were in reality, backues of the higher price of ront and provisions and the longer winters in Boston, on a par with their Philadelphia stores. (Quoted In Machanics' Proo Press, Sept. 18, 3830.)

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not easy," he said, "to obtain a room, either in a garret or cellar, and however small, inconvenient, and unfit to live in, at 50 cents per week. Nor are there many to be had for 624, or 75 cents a week."

Unemployment, moreover, appears to have been as great an evil in Boston as in Philadelphis. One large tailoring establishment in Boston, according to Joseph Tuckerman, 'which has not unfrequently given employment to eight or nine hundred women, in the coarse work of a large tailoring establishment; and * * during the business year of 1825; * * employed, on an average, * * 300 females every day; but * * monk and for some months past, hash oth alw work for more than an average of 170."⁵ Even the fashionable milliners and mantus makers who were able to earn \$1 a day were said to have very little employment.⁴

In Baltimore, too, in 1833 the wages of sewing women were declared "not sufficient for the genteel support of the single individual who performs the work, although sho may use every effort of industry which her constitution is capable of sustaining," and the condition of vidows with small children was described as most deplocable.⁴

In 1836 the president of the tailors' society of Baltimore wrote of widows who toiled night and day for 184, 25, and 374 cents a day, and stated that he had seen one woman, who asked "in the humblest

^a Tuckerman, An Essy on the Wages Paid to Females, Philadelphia, March 25, 1830, p. 15. The usual ront in Philadelphia was frequently given as 50 cents a week.

6 Idem, p. 39.

Machanics' Free Press, September 18, 1830. Quoted from the Boston Working Man's Advocato. In 1831 fit was estimated that 60 millinem in Boston employed 420 women at 75 conts a day. (Documents relative to the manufactures of the United States, Executive Documents, Twonty-second Congress, first seesion, 70.1, p. 451.)

^d Baltimore Republican and Commercial Advortiser, September 20, 1833. The Impartial Humane Society of Baltimore, according to Mathew Carey, paid the following wages, which were higher than the provailing rate (Carey: Appeal to the Wealthy of the Land, third edition, Essay V. p. 18):

			ento	
Linon shirts		75	to B	74
Gontlemon's pantaloons.		324	to 7	6
Roundabouts			7	5
Linon collam			1	0
Unbleached cotton shirt	a, large		2	6
	e, email.	124	to I	84
Bleached cotton shirts, 1	largo		3	14
Bleached cotton shirts, s	mall.		2	5
Gentlemen's shams		184	to b	0
Children's suits of clothe	ж	0	to 8	74
Children's closks				
Children's mittens		10	to 1	24
Women's and children's	apróne	83	to 3	I
Womon's plain dresses		131	to b	0

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manner" for a little advance in pay, at once dismissed and sent home "in tears." *

In Fittaburg, according to a letter from "A Tailorese" to the Fittaburg American Manufacturer, the tailors in 1830 paid for making a pair of paidsons, which took about 15 hours, 25 cents, and for making a shirt "that takes a woman a whole day, if ahe attends to any other work in her family," 124 cents. The American Manufacturer added that it had made inquiry and found that these statements were true.⁴ And even as far west as Choinnait there were said to be "many poor widows, who are destitute and suffering for the common necessaries of life, because they can not obtain work or a fair compensation for their labor." "At the present prices of sewing," said the Workingmon's Shield, "a woman can rarely realize more than 40 cents per day."

The yearly receipts and expenditures of the average sowing woman were estimated by Mathew Carey as follows: ^d

Forty-four weeks, at \$1.25		\$55.00
Lodgings, 50 cents per week	\$26.00	
Fuel, 25 cents per week, but say only 121	6.50	
		32, 50
The second se	-	

In making this estimate he assumed that muslin shirts and duck pantaloons were made for 12% conts easi's and other work in the same proportion, though, he said, "these articles are often made for 10 cents—and even lower," that "an expert woman of considerable skill might make ten per week working at loss it 6 hours per day," and that one day a week was lost through sickness, unemployment, or the zero of children.

Later, however, a committee of ladies "of respectability, intelligence, and competence to decide on the subject," whose names, nevertheless, were suppressed "from motives of delicacy," stated that expert seametresses could not make more than eight or nine shirts

· Workingmon's Shield, Cincinnati, January 12, 1833.

^d Carey's Miscellaneous Pamphlets, No. 12, To the Editor of the New York Daily Sentinel, Philadelphia, 1831.

* In 1292 it was stated that the Provident Society paid 25 cents for making a shirt, which was a state of the state of

a National Laborer, April 30, 1830.

b Quoted in the Workingman's Advocate, New York, December 18, 1830.

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or duck pantaloons a week, which at the highest price paid, 124 cents, would amount to only \$1.12 \pm per week, and that "cases very frequently occur of the above articles being made for 10, and even for 8, and sometimes for 6 cents." *

In the light of the statements of these 30 ladies, Mathew Carey made a new estimate of the receipts and expenditures of seamstresses. A woman without children and unemployed for any reason only six weeks in the year he estimated to have, if she made nine shirts a week, a surplus, after paying rent at 50 cents a week, of an average of 7 cents a day throughout the year for food, fuel, and clothing. A woman with huldren who could make, he estimated, only 7 shirts a week, would have, by the same reasoning, only an average of 4 cents a day for food, clothing, and fuel for herself and children. "Let it be distinctly observed," he added, "that far more than half the coarse shirts and duck pantaloons made in the Union, are made for 10 cents, or leas, per piece."^b

Again, in July, 1830, Mathew Carey wrote:

Coarse musin shirts and duck pantaloons are made at various prices, at 6, 8, 10, and 124 cents each. More, I have reason to believe, are made below, than at 124 cents. The Provident Society in Philadelphia, and the commissary-general, it is it true, pay 124 cents; but the shirts for the army are, I am informed, made in New York for 10 cents; the House of Industry, in Boston, pays but 10; and 10, I am persuaded, is a high average throughout the United States.

A skillful worman, constantly employed, working early and late, he said, could not make more than 9 shirts a week, which would amount to 90 cents, of which 50 cents went for rent, leaving only 40 cents, or less than 8 cents a day for food, clothing, fuel, and other necessities. And many of these wormen, he added, were not skillful, some were superannuated, some had children to be cared for, some were sickly themselves, and some had sickly lusbands, while a large number could not procure more than two or three days' work in the week, and had to travel great distances for the work.⁶

In 1833 Mathow Carey made still another calculation of the receipts and expoulitures of the seamstress.⁴ Laying aside all consideration of unomployment, sickness, or lack of skill and repidity, and taking as a basis the highest wages paid outside of the Impartial Humane Society of Baltimore and the Fernale Hespitable Society of Philadel-

^a Mechanics' Free Press, June 19, 1830. Poulson's American Daily Advertiser, June 9, 1830.

^b Mochanics' Free Press, June 19, 1830.

[&]quot; Carey's Select Excorpta, vol. 13, pp. 138-142. Dated July 1, 1830.

d Carey, Appeal to the Wealthy of the Land, third edition, Essay IV. p. 15.

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phis," he made, for a woman without children, the following calculation per annum:

Nine shirts per week, \$1.125 \$5	
Rent, at 50 cents \$26.00	
Shoes and clothes, suppose 10.00	
Fuel per week, my 15 cents 7.80	
Scep, candles, stc., 8 cents 4.16	
Remain for food and drink 20 cents per week, or about 24 cents per	
day 10.54	8. 50

"But suppose," he said, "the woman to have one or two children; to work for 10 cents, which is not below the usual average; to be a part of her time unemployed, say one day in each week; and to make, of course, six, but say seven shirts"

Seven shirts, or 70 cents per week, is, per annum		\$36.40
Rent, fuel, soap, candles, etc., as before		
Deficit	11.56	
		04 88

"It may excite wonder," he stid, "how the seamstresses, spoolers, etc., are able to support human nature, as their rant absorbs above two-fifths of their miserable earnings. The fact is, they generally contrive to raise their rent by begging from benevolent citizens, and, of course, their paltry earnings go to furnish food and clothing."^b During one winter, he added, the Provident Society of Philadelphin had employed 1,000 sesanstresses who could be given only 4 shirts is week, for which they received 50 cents. Some of them had to travel a distance of 2 miles "for this paltry pittance, and above half of them had no other dependence."^c

4 The Female Hospitable Society paid, according to the Appeal	to the Wealthy of
the Land, third edition, Essay V, p. 19, the following wages:	
	Cents.
Fine linen shirts	50
Noxt quality linen shirts	40
Fine muslin shirts	
Next quality muslin shirts	
Next quality muslin shirts.	
Next quarty master shirts	25
Common muslin shirts	
Coarse unbleached muslin shirts	
Boys' shirts	18
Drawers and duck pantaloons	18
Check shirts	16
Flannel shirts	14
Collars, separate from the shirt.	
Quilting.	
Conifortables, according to the size, from	
connortables, according to the size, non	\$6 10 \$6.00 MIN
Bed quilts, according to the size, from	
b Carey, Appeal to the Wealthy of the Land, third edition, Ess	y V, p. 18.
cIdem, Essay II, p. 8.	
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Nevertheless, in 1830, a writer in the Delaware Advertiser denied that there was any great amount of distress among sewing women. Single women, he said, could earn a minimum of about \$39 a year at housework, and the distress, he therefore assumed, must be confined to widows. Further assuming that about one out of six of the population of Philadelphia was a married woman, that one-fifth to one-eighth of these were widows, that not more than one-half of the widows had children to support, that only about one-half of the latter had children under 8 years of age (for, he said, "a child may be readily bound out at 8 years of age, and therefore a woman need not be distressed by poverty if she has not children under that age"), that only about one in three women was thrown into indigence by the death of her husband, and that of these latter only about onethird were not members of any religious society which supported its own poor, he estimated that there were not more than 150 widows in Philadelphia who were in want on account of low wages."

In answer to this, Mathew Carey stated "that above 1,100 females have applied weekly for work to the Provident Society, of whom probably a full third at least were widows with small children; and there are in the city of Philadelphia probably 5,000 or 6,000 women who depend on their needles for support, among whom is a due proportion of widows." Many of these women, he said, were unable. through age, infirmity, or other causes, to do housework, and many others had small children "whom maternal tenderness will not allow them to part with."6 In answer to a letter of inquiry, he said elsewhere, the matron of the Provident Society wrote him that at least 600 of the women who applied for work during the winter of 1829-30 were widows, that two-thirds of them had children to support, that their compensation, while they took out work, averaged about 50 cents a week, and that few of them lived in the city, the greater part coming in for work from Kensington, Northern Liberties, and Southwark, the first place about 2 miles from the society's room. Assuming that only about one-sixth of the seamstresses of Philadelphia were supplied with work by the Provident Society, he estimated the number of widows depending on needlowork for support as about 3.000.*

"Quoted in Delaware Free Press, Wilmington (Dol.), February 27, 1830.

6"To the Printer of the Delaware Advertiser." Quoted in the Delaware Free Press, February 27, 1830.

• Charge's Minecillarious Pamphiele, No. 13, "To the Editor of the New York Daily Stonlish," At another time Mathew Carey stated that, "Where are an availy domastic generally as there are aircuitons for them.," And thousands of the estantsweet New York, Borton, Dailinney, and Philadgiphia, headed, "are unifs the table kind ing unail thildren to support whem they can not hear to part with." (Carey's Edice's Records, vol. 19, pp. 183-142, David July 1, 1830.) were constantly employed, (2) that there was a large amount of unemployment among them, many of them being denitive of employment for half or a third of their time; (3) that were it not for the aid of benevelent societies many of them would be reduced to absolute pauperism; and (4) "that there is no grievance in this country that calls more loudly for refrees, or is more server in its operations, or more demonslining in its consequences, than the paltry wages given for most paces of femals halor, not averagind, in many cases, more than one-third of what is earned by men for analogous employments."

In support of his position, too, he quoted a statement of the Rev. Ears Stilles Ely that "a common alave in the States of Virginia, Tennessee, and Kentucky is much better compensated for his labor by his necessary food, elothing, lodging, and melicines, than many respectable mothers and daughters in this city, who apply themselves diligently to their work two hours for every one occupied by the Negro in his matter's service." And in conclusion he quoted a statement of the managers of the Female Hospitable Society "that the most wages that can be earned by the closest application to work, either from Government, societies, or tailors, will not average more than from 51 to 51.25 per week."⁴

Over and over again between 1828 and his death in 1839 Mathew Carey roturned to his charges of the indequacy of the wargen pait to women in general and to sewing women in particular, carrying on through these years perhaps the most remarkable agitation for working women which this country has ever seen. His crusade, however, was conducted almost antirely alone. "While I have met," he said in 1830, "with as much apparent sympathy as would auffice for the forlorm tenants of l'Hotel Dieu, or the wounded and dying victims of Waterloo, I have not, with all my efforts, been able to secure in New York, Boston, or Philadelphin, one active, efficient, zaolous, ardent cooperator to enter into the business con amore."

In Baltimore, as a result of these efforts, the Impartial Humans Society was formed, and later a similar association, called the Fernale Hespitable Society, was organized in Philadolphia. It was to these two ascietize that Mathew Carcy dedicated in 1833 his "Appeal to the Wealthy of the Land, Latdies as Well as Gontiemen." "I have known," he there said, "a lady expond a hundred follars on a party; pay thirty or forty dollars for a bonnet, and fifty for a shawl; and

a "To the Printer of the Delaware Advertiser." Quoted in the Delaware Free Press, February 27, 1830.

b Carey's Select Excerpta, vol. 13, pp. 138-142. Dated July 1, 1830.

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yet make a hard bargain with a seamstress or washerwoman, who had to work at her needle or at the washing tub for thirtsen or fourteen hours a day to make a bare livelihood for herself and a numerous family of small children."^a

In this pamphlet Mathew Carey repeated and enlarged upon the facts which he had previously brought before the public, and added a number of other letters and statements supporting his position. A letter from a New York police magistrate, for instance, stated that the wages of women with children to support were so low that whenever their amployment was interrupted they were obliged to pawn some article of wearing apparel, until they were reduced to absolute destitution and only charity stood between them and starvation. Another evil, he said, was that these women were obliged to send their children on the street to beg or to work at some light employment, which led to bad associations and frequently to crime. A letter from the woman secretary of the Female Hospitable Society. too, stated that of the women who applied to the society for employment not one in fifty was fit for domestic service. One-half, she added, were aged, and one-fifth of the whole infirm. About threefourths were widows.^b

Nine remedies were suggested in the Appeal to the Wealthy: (1) That public opinion be brought to bear in denouncing employers who "grind the faces of the poor;" (2) that "the employments of females be multiplied as much as possible;" (3) that the poore classes be given exclusively "the business of whitzwashing and other low employments, now in a great degree monopolized by men;" (4) that the provident societies be liberally supported and give liberal wages; (5) that women be taught fine needlework; (6) that they be taught cooking; (7) that schools for young ladies and infant schools be taught by women; (8) that laties who can afford it give out their sewing and washing and pay fair prices; and (9) that provision be made by wealthy persons to send women to the interior of the State and to the West, where they are wanted as domestics, each

Little, however, seems to have been accomplished. The two societies to which the "Appeal to the Wealthy" was dedicated were founded and paid somewhat higher prices to seamstreases than were costomary in Philadelphia and Baltimore. But on October 19, 1833, Mathew Carey again wrote that "atter laboring on the subject since November, 1828, the conviction is reluctantly forced on me that the atterme is utterly in vain and that it is impossible to excite

[&]quot; Carey, Appeal to the Wealthy of the Land, third edition. Preface, p. 4.

⁶ Idem, Eesay IV, p. 17.

e Idem, Essay XII, pp. 33, 84.

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public stantion to the subject." Not one of the 72 ladies and 75 gentlemen who had subscribed to the statements made in May, 1830, he complained, had "contributed a dollar or made the alightest effort to remedy the svils that press so heavily on this deserving and numerous class of society."

The appeal to charity was a failure, but Mathew Carey never wholly abandoned the cause. Two years later he was credited with stirring up "broomstick strikes" in Philadelphia. * The truth seems to be, however, that he merely cooperated with the organized working women of Philadelphia by presiding at their meetings and writing letters to the press in their behalf." He was frequently criticised, in fact, by the labor papers, for asking charity for the working women when justice was needed. Early in 1837, too, Mathew Carey and others issued a letter to the clergy of Philadelphia calling attention to the distress of the working women, which they attributed to "a complication of causes-the severity of the season, the unprecedentedly high price of the necessaries of life, the suspension of employment-in many cases from sickness * * * and probably more than the rest, from the utterly inadequate wages of certain species of female labor, by which a large portion of females, dependent on their needle for support, are absolutely pauperized."d Finally, in December, 1837, Mathew Carey and 21 other men issued a call 4 for another meeting to consider the inadequate wages of women, a call which evoked from the editor of the Public Ledger some pointed remarks about "wholesale dealers in ready-made clothing, who make fortunes out of [women's] unrequited labor."/ This meeting was duly held with Mathew Carey in the chair, " but nothing further is heard of the movement, which could hardly have made headway against the general industrial distress of the following years.

" Carey's Select Excerpta, vol. 13, p. 13.

* See History of Women in Trado Unions, Volume X of this report, pp. 40, 41.

• "The Man, Yane 24, 1855. In his latter accepting the invitation of the working woman to preside at their meeting, allocar vorkworks have work in their behalf, he wait: "I did hope that all that was necessary to produce a decided affect to melicate over the indicate over the hold relation theory is the minerakely vortice the second second

d National Laborer, January 14, 1837.

* Public Ledger, Philadelphia, December 12, 1837; Caroy's Select Excerpta, vol. 13, pp. 417, 418.

/ Public Ledger, December 12, 1837.

• Carey's Select Excerpts, vol. 13, pp. 418–420. In 1839 there was a proposal made to incorporate "a manufacturing and clothing establishment" for the banefit of "poor and industrious females," which was to make olothing for the southern and western markets. (Public Ledger, May 3, 1839.)

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LATER CONDITIONS OF LABOR.

During the next few years, as has already been need, there must have been a large amount of unemployment and intense suffering in the garment trades. The extent and degree of this suffering can only be imagined, however, for, as has usually been the case, the period of most bitter attress found no articulate expression.

By 1843, however, when business was again on the upgrade, there were said to be widows in Cincinnati who supported their children by making shirts for 10 cents each, or pantaloons for from 15 to 17 cents. It was estimated that 9 shirts a week, making 00 cents, would be a large week's work.² In New York in 1844 the usual prices for making men's clothing were given as 30 or 40 cents for cents, for cents for pants and vests, and 124 cents for shirts and drawers,³ And in Boston, at a meeting of tailors and tailorsees in July, 1844, the following cases were cited, and "received with immense sensation.²"

A lady who lives at 44 Front street; she works at pantaloons for 25 cents par pair, and can only make one pair in the day, and should the least fault be found she would only get what they pleased to give her. * *

Hannah Silesy works for Andrew Carney; lives in Hatter's Square; she makes navy shirts at 16 cents a piece; has to work 14 hours per day to earn \$2 per week; and at making striped shirts at 8 cents a piece, can only earn \$1 a week and work hard.

John Harkins can testify to a lady who worked for John Simmons, Quincy Hall; made pantaloons at 25 cents per pair; can make five pairs in a week which would amount to \$1,25. She is a first-rate tailoress.

Mrs. Oakes, 321 Ann street; she works for Gove & Lock; makes pants for 124 conts per pair and shirts at 8 conts apiece. She can earn on an average \$1.124 conts per week.

When the problem again came to the front in New York, in 1845, the average wages of the soving women were said by the Tribune to be \$1.50 to \$2 a week, though many, it was added, idi not earn more than \$1 a week," Later in the year the Tribune gove the following summary of the wages paid for different kinds of work and the amount of time required for the various articles:"

For making common white and checked cotton shirts, 6 cents each. Common flannel undershirts the same. These are cut in

^a Pooplo's Paper, Cincinnati, August 24, 1843. This is exactly the estimate given by Mathew Carey thirteen years earlier. (Carey's Select Excerpta, Vol. 13, pp. 138-142.)

b Workingman's Advocate, April 6, 1844.

c People's Paper, Cincinnati, September 22, 1843 [1844]: See History of Women in Trade Unions, Volume X of this report, p. 58, for one other case cited.

4 New York Daily Tribung, March 7, 1845.

* Idem, August 14, 1845.

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such a manner as to make ten seams in two pairs of sloeves. A common fast seamstress can make two of these shirts per day. Sometimes very swift hands, by working from sunrise to midnight, can make three. This is equal to 75 cents per week (allowing nothing for holidays, sickness, accidents, being out of work, etc.) for the first class and \$1.12; for the others.

Good cotton shirts, with linen bosoms, neatly stitched, are made for 25 cents. A good seamstress will make one in a day, thus earn-ing \$1.50 per week, by constant labor.

Fine linen shirts, with plaited bosoms, which can not be made by the very best hand in less than 15 to 18 hours' steady work, are paid 50 cents each. Ordinary hands make one shirt of this kind in 2 days.

Duck trousers, overalls, etc., 8 and 10 cents each. Drawers and undershirts, both flannel and cotton, from 6 to 8 conts, at the ordinary shops, and 124 at the best. One garment is a day's work for some, others can make two.

Satinet, cassimere, and broadcloth pants, sometimes with gaiter bottoms and lined, from 18 to 30 cents per pair. One pair is a good day's work.

Vests, 25 to 50 cents, the latter price paid only for work of the very best quality. Good hands make one a day.

Thin coats are made for 25 to 374 cents apiece.

Heavy pilot-cloth coats, with three pockets, \$1 each. A coat of this kind can not be made under 3 days.

Cloth roundabouts and pea jackets, 25 to 50 cents. Three can be made in 2 days.

There were other hardships, too. For example, it was stated by the Tribune that one woman, after having sought work for 2 days in New York, had finally taken garments to make by which she earned 60 cents as the result of her first week's work. But when she returned the work she was offered credit on the books, to be paid when the amount was sufficient.ª

As for the conditions under which the sewing women of New York worked, the Tribune described them as squalid and unhealthy in the extreme, stating that-

These women generally "keep house"-that is, they rent a single room, or perhaps two small rooms, in the upper story of some poor, ill-constructed, unventilated house in a filthy street, constantly kept so by the absence of back yards and the neglect of the street inspector-where a siekening and deadly miasma pervades the atmosphere, and in summer renders it totally unfit to be inhaled by human lungs, depositing the seeds of debility and disease with every inspiration. In these rooms all the processes of cooking, eating, sleeping, washing, working, and living are indiscriminately performed.»

After paying the rent of from \$12 to \$14.50 for such miserable homes, added the Tribune article, only the scantiest food could be purchased, and nothing was left for clothing or fuel in winter. Even charity

a New York Daily Tribune, October 14, 1845. ^b Idem, August 14, 1845.

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was shown to have been insufficient to meet the need during the winter season, when many of these women were out of employment.

The worst features of this state of things are its hopelessness and its constant tondency from bad to worse. Small as are the earnings of these seamatresses, they constantly tend to diminish. Hundreds of young women are daily attracted to the cities by vague hopes of doing better, or by the allurements of false friends; many are constantly coming over from Europe; thousands are left hore by allor husbands or fashers, or brotkers, to get along an they can left destitute by the sudden death of those to whom they had looked for support, by utter bankruptcy, or by flight or imprisonment on account of erime.⁴

Similar accounts of conditions in the garment trades were common during the next few years. In 1846 shirts were said to be made in New York at 4 cents each or 48 cents per dozen, one dozen being about 4 days' work.^b In 1848, however, 6 cents was given as the piece wage for common cotton shirts and flannel undershirts in New York, and it was said that a seamstress could finish two or three in a day, making a weekly wage of from 72 cents to \$1.08. Good cotton shirts were made for 25 cents each, but only one could be made in a day, giving \$1.50 a week. The finest linen shirts, which required from 15 to 18 hours of steady work, were made for 50 cents each. For making trousers, overalls, drawers, and undershirts a shilling apiece was paid and one or perhaps two could be made in a day. For cloth pantaloons and vests 18 to 50 cents were paid and a woman could make on an average about one a day." On the other hand, the sewing girls of Lansingburg, N. Y., are said to have earned in 1849, \$3 a week,d and, according to one writer, women vest makers in New York in 1851 averaged \$4.50 a week."

The Shirt Sewers' Cooperative Union of New York, however, estimated in 1851 that there were 6,000 shirt sewers in New York City, many of them widows with children, who earned from \$2 to \$2,60 per week.'

And in the same year a Philadelphia paper is said to have published an article stating that in New York, Philadelphia, and most

- New York Daily Tribune, August 12, 1848.
- ^dNew York Weekly Tribune, October 8, 1849.
- # Burns, Life in New York, 1851.
- / New York Daily Tribune, July 31, 1851.

New York Daily Tribuno, March 7, 1846, In 1846, the Michigan Journal auggenetic that the starting semantroses of New York thrould come to that State, where their labor was much needed as domestics, to which the selitor of the Vices of Industry accastically replied that "views in New York people do not think of haraving which they have monsy enough to carry them from that city to Michigan." (Voice of Industry, Basel 18, 1846).

^b The Harbinger, December 19, 1840. Quoted from Young America, New York.

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of the principal eastern cities" there were places where abirts with bosoms and collars were made for 12 cents and pantaloons for 25 cents. The most expert workers could make in a day only two shirts or one pair of pantaloons.⁶

Finally, an investigation made by the Tribune in 1853, before the sewing machine had come into general use. disclosed "the existence of an amount of wretchedness, immorality, and crime-the consequence of their low earnings-truly appalling." This investigation included the garment makers, boot and shoe binders, and parasol makers. Though some thousands of "milliners, dressmakers, etc.," received, it was said, from \$3.50 to \$6 a week, putting them "beyond the dangers of temptation," hundreds of women tailoresses and seamstresses had an average yearly income, if fully employed, of only \$91. In at least 50 establishments, it was said, the recognized scale of 18 cents each for summer vests, 20 cents for pantaloons, and 18 cents for light coats, would produce, in a working day of 12 hours, about 24 cents. Shirts, it was added, three of which were a hard day's work, were paid for at the rate of 8, 7, 5, and some as low as 4 cents each. At the rate of 5 cents each, it was estimated, taking into consideration the time needed to obtain and return the goods and other journeys to secure her pay, that a woman could not make over 50 cents a week.

Other evils, in addition to low wages, were disclosed by this investigation. It was said, for instance, that many of the elasp "slop shops" required from their employees a deposit to the full value of the material taken out to be made up, a deposit which, it was added, was frequently not returned when work became scarce, and there was none to be given out."

Still another evil disclosed by the New York Tribune investigation of 1853 was the manner in which the reckoning was made, "66 cents to the dollar only being given." "Not only," said the Tribune, "do they make this deduction in prices scandadously low at the best, but it is very common to leave a portion of even these missrable earnings 'to account'—an account which, alsa, is often totally reputidated. Imagina a poor creature paid at the rate of 5 cents a shirt, on which she has had to make a deposit of its value, being paid a portion and told to 'let the remainder stand over for a settlement,' and this regardless whether she may live at the Battery or in Fiftieht atcot. This latter is perhaps the most crying, oppressive, and disgusting tyramy of the entire Villainous system, and one which is acrifo on to an

Sewing women in San Francisco are said to have received in 1853 from \$40 to \$70 per month. (New York Daily Tribune, June 10, 1853.)

^b Quoted in Fincher's Trades' Review, September 10, 1864.

New York Daily Tribune, June 8, 1853.

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incredible extent." By this system, it was and, many employees who prestended to pay good prices, reduced wages to the level of the worst employers. "We have known instances," said the Tribune, "where these professedly fair-priced houses have for successive weeks pail but 50 cents on account, and when work became searce have postponed sottlement day after day, till the patience of the elaimant has been exhausted, and she has been compelled to give up her elaim in self-defense, despairing of getting a final sottlement, and neglecting in the meantime other employment."

The clothing merchants during this period appear to have prospered. Mathew Carey asserted in 1829 that a comparison of the prices charged to the public for articles and the wages paid for their manufacture proved that wages might be raised sufficiently to insure comfort.º In 1836 the Philadelphia Public Ledger stated that "a common stock, the material of which cost about 25 cents, and for making which a female receives about as much more, is sold by a merchant tailor for \$3, or 500 per cent advance." Those who employed female labor, added the Ledger, were "deriving from it immense fortunes." . In the same year, too, the Pennsylvanian stated that while the seamstress was paid 8 or 10 cents for making a pair of duck pantaloons, the dealer sold them to the sailor for at least five times that sum, "for taking them from the seamstress and handing them to the sailor." d Orestes Brownson, too, commenting in 1840 upon the insufficient wages of the scamstresses, blamed the employer who, he said. "grows rich on their labor-passes among us as a pattern of morality, and is honored as a worthy Christian.". Four years later the New York Sun also referred to the merchants as "getting rich. from the labor of the poor, because," it said, "as fair prices are paid for clothing, if scamstresses and tailoresses only received sufficient for their work to enable them to live, no complaint would be made." / And in 1849, at a meeting of journeymen tailors and tailoresses in Boston, it was said that 20 cents was paid in that city for making

" New York Daily Tribune, June 8, 1853.

^b Carey's Miscollancous Pamphlots, No. 12, "To the Editor of the New York Daily Sentinol," Philadelphia, 1831.

* Public Ledger, March 26, 1836. The same charge was again made by the Ledger on September 10, 1036, and December 12, 1837.

d Pennsylvanian, February 15, 1836.

* Boston Quarterly Roview, July, 1840, p. 369. "The Laboring Classes." Review of Carlyle's Chartism.

/ Quinted in the Worklingman's Advessta, August 17, 1844. The Worklingman's Advesate, in reply, sareadically remarked: ''If they can only live, no inatter whether they are donned to a life of caselose, numaitand dradgary, to which a Southerner would dishain to subject his slavesi. If they don't die of starvation, no matter if they do toil unceasingly muld dis a promuting edschft¹⁰

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veets that sold for \$1.75 to \$2.50, 7 cents for pants and overalls cold for 75 cents to \$1, and 7 cents for shirts sold for \$1.50.4

On the other hand, in 1845, the Tribune attributed the low wages to the oversupply of women workers, which created a competition before which the clothing makers themselves were holpless. "The female population of our city," said the Tribune, "as of almost every great city, considerably outnumbers the male, while employment, though deficient for both, is distributed in inverse ratio. There are thus many more seamstresses, or females wishing to be such, than are required in that capacity-probably twice as many as would find employment at fair wages. Under these circumstances, nothing can prevent low wages and a constant tendency to lower. The clothing makers for the southern trade are generally the target of popular hostility on account of low wages, and there can be no doubt that many of them are gripers. But if they were all the purest philanthropists, they could not raise the wages of their seamstresses to anything like a living price. Necessity rests as heavily upon them as upon the occupant of the most contracted garret. They can only live by their business so long as they can get garments made here low enough to enable them to pay cost, risk, and charges and undersell the seamstresses of some other section. If they were compelled to pay living wages for their work, they must stop it altogether. We must go behind them, therefore, to reach the heart of the evil we are considering." b

About the same time the New York Sun also asserted that one of the chief causes of the low warges paid to assamintersees we takk "there are more laborers than the market for labor demands." "In a practical branch of industry," it added, "any in the marking of clothing for the South, there is constant comployment for 1,000 hands, while there are actuall? 2,000 ready and arxious to argue in it, if they could obtain anything like fair prices. The superfluous hands and/orbid each tobe, mult like lowest term on which life case he supported is accepted." For this reason the Sun saw to hope of an increase of warges through combination, but recommonded that a greater variety of occupations he found for woman, especially that they be omployed as acless in stores."

The competition of immigrants, though mentioned as early as 1830, along with that of the immates of almshouses, as one of the causes of the wratchedly low wards half to samatrassas," was not nearly so

[&]quot; New York Weekly Tribune, August 29, 1849. Quoted from the Chronotype.

^b Now York Daily Tribuno, March 7, 1845. As early as 1836 the Radical Reformer. and Workingman's Advocate stated that the banking system was the cause of the sufferings of the working women, and that the employers were nearly as badly off as the employed.

[&]quot;Quoted in the Workingman's Advocate, March 8, 1845.

⁴ See Chapter VII of this volume, "Trade and transportation, p. 235."

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important a factor during this early period as during the past half century. In 1845 a large majority of the total number of sewing women in New York, which was estimated by the Tribune as about 10,000, were said to be American born.^b

Very early, however, complaint began to be made of the competition of women who were not obliged to earn their living. As early as 1830 the Massachusetts Journal and Tribune attributed the bad conditions of woman's work, as well as other industrial evils, to "underbidding." "Those who have a home and all the necessaries of life." it said, "will underbid them [the poor women] for the sake of buying a new belt, or a new feather," and added: "Every woman is bound to make it a principle not to do work for less than the very poor can afford to do it." Another paper stated that in Boston "ladies who live in fine houses, elegantly furnished, whose kitchens swarm with servants, take in work at half price for those servants to do." d The Farmers', Mechanics' and Workingmen's Advocate of Albany* called this, however, "a very inadequate account of the matter," and assorted that "the heartless avarice of employers is a cause of perpetual influence and untiring power, and to this can we look as the only sufficient cause of the evil."

Country competition was a cause of complaint in 1845. "We know instances," said the New York Morning News, "where shirt makars put their work out in the country in the winter at 11 cents each. The work is done by those who do not make it a means of living, but use it merely as an auxiliary to thress." The Visico of Industry, too, stated in 1845 that "a gendleman toking us, the other day, that lo saw the daughter of a respectable former making alivits at 11 cents apiceo, for one of the daalers. If the work big the other day, that lo saw clampter of the daalers. If a work object to support myself, I could not do it by this work; but I merely employ my time which otherwise I should how use."?

In the same year the chairwornan of a meeting of working women in New York said that abe knew several amployeers who paid only from 10 to 18 cents per day, and that one employer, who offered girls 20 cents per day, told then that fi they did not take it ''he would obtain girls from Connecticut who would work for less even than what he offered.''^A

⁴ Farmers', Mechanics' and Workingmen's Advocate, Albany (N. Y.), October 20, 1830.

/ Quoted in the New York Daily Tribune, March 27, 1845.

g Voice of Industry, June 26, 1845.

⁶ Workingman's Advocate, March 8, 1845, Quoted from the New York Herald, Reprinted in Documentary History of American Industrial Society, Vol. VIII, p. 227.

[&]quot; Mechanics' Free Press, October 23, 1830. Quoted from the New York Sentinul.

^b New York Dally Tribuno, August 14, 1845.

[#] Carey's Select Excerpta, vol. 13, p. 312.

⁴ Mechanics' Pros Press, September 18, 1830.

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By 1850 the cheap labor of the farmhouse is said to have been employed "in the getting up of clothing, shirts, stocks, hosiery, suspenders, carriage trappings, buttons, and a hundred other light things." a And again in 1853 women working for pin money were said by the New York Tribune to have been responsible for the low wages paid to needlewomen.b

Both division of labor and the true "sweating" or subcontract system had their origin, though only upon a small scale, during this period. A writer in 1851, for instance, complained of the subdivision of labor by which vest making had become a separate and distinct business, and intimated that the making of pantaloons and of coats were also independent branches. * This much division of labor, indeed, appears to have been made almost from the beginning of the wholesale trade. Some progress, too, was probably made in dividing up the work upon a single garment, but this movement was probably slight until after the introduction of the sewing machine.

As early as 1835 a resolution was passed by the National Trades' Union denouncing "the Government contractors" for "withholding" from "the females in their employ * * * a fair remuneration for their labor, and by those means enriching themselves at the expense of the poor helpless females." a and in 1836 complaints of "combinations" of clothing dealers, by which wages were reduced, were made both in New York and in Philadelphia. /

By 1844, moreover, and probably earlier, there were instances of the true sweating system. In that year it was recorded that a man and two women working together from 12 to 16 hours a day earned a dollar amongst them, and that the women, if they did not belong to the family, received each about \$1.25 a week for their work, the man paying out of the remaining \$3.50 about \$1 a week for rent of his garret, and being obliged to pay this amount whether employed or not. In 1853, moreover, the investigation of the clothing trade made

b New York Daily Tribune, June 8, 1853.

CBurns, Life in New York, 1861.

4 National Trades' Union, October 10, 1835. Reprinted in Documentary History of Amorican Industrial Society, Vol. VI, pp. 257, 258. The preamble and resolution were as follows:

Whereas, This convention, having in view the interest of the working classes, whether make or formate, and having reason to believe that the compensation paid for formale laker, and especially for those sumployed on the Goyorment work to be alto-

some norm, and optically for these employed in the Growmeni work, the allow-glather indexposed to employ them with the necessarics of the second second the Kashrody, That we view with feelings of strong indepation the advantages taken by variations and inter-levent employee, expectly the overmant contractors, of the formation in their employ, with helding from them a fuir remainder that the market of the second second second second second second second the formation in their employ, with helding from them a fuir remainder of the poly-level of the second second second second second second second second formation.

* New York Evening Post, March 9, 1836.

/ Philadelphia Public Ledger, December 28, 1836.

@Workingman's Advocate, July 27, 1844.

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a Mooney, Nine Years in America, 1850, p. 17.

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by the New York Tribune disclosed the existence of a "middle system." For example, near one of the strengt number from the Boweyr to the East River an old Irish woman was found who had four girls at work for her, their compensation consisting solely of food for six days of the week. In another case a woman had hired four "farmen," two of whom received only board and lodging, and the other two \$1 a week each without food.² These were all avidently instances of the true systemic system.

THE MACHINE IN THE GARMENT TRADES.

GROWTH OF THE READY-MADE BUSINESS.

The introduction of the sewing machine gave a great impetus to the manufacture of melium-grade redy-made clothing. It was not, indeed, until after the invention of the machine that such clothing was made in large quantities. As soon as the sewing machine came into use, moreover, the ready-made-clothing business, which had larady gradually encroached upon the fold of cuchom work, lost its earlier aramed and deserved tile of "slop work" and became practically a new industry.

Gradually, too, it extended its dominion to higher and higher grades of work. Men's overcoats were among the more expensive articles which soon became popular, but gradually other articles were introduced. Boys' ready-made clothing was soon added to men's, and article after article of women's wear has yielded itself to this method of manufacture. In Philadelphia in 1858 the manufacture of men's clothing was the principal part of the business, but boys' clothing, shirts, collars and bosoms, and certain kinds of ladies' clothing, such as mantillas, corsets, etc., were made.^b The manufacture of cloaks and mantillas as a wholesale business was said to have begun between 1848 and 1858." As an important industry, howover, the manufacture of women's clothing, principally cloaks, began early in the sixties, about the time that the Civil War, through the Government demand for clothing for soldiers and sailors, was giving another great impetus to the men's ready-made-clothing industry. The manufacture of women's suits was not begun, however, until early in the eighties, and underwear, which was manufactured in Now York as early as 1868," was not made in large quantities until after 1890.¢

The introduction of the sewing machine and the growth of the ready-made business were also accompanied by two other important

c Idem, n. 225.

⁴ New York Daily Tribune, June 8, 1853.

b Freedley, Philadelphia and Its Manufactures, p. 223.

^d The Revolution, March 12, 1868, gives a description of an establishment in which plain underwear for ladies and children, lingerie, and infants' robes were made.

^{*} Twelfth Census, 1900, Manufactures, Part III, Selected Industries, p. 300.

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changes in the industry, first, the division of the labor involved in the manufacture of single graments, and second, the growth of the subcontract system. In tailoring the division of labor eaused the introduction of women workers on coatin parts of the high-grade work formerly performed by all-round men tailors—especially in "imhining." I has already been seen that the tailoring highness had easiler been divided into the making of coats, yests, and partaloons, each of which had become a separate track. But now the making of each aingle garment began to be divided into a number of separate operations, requiring different kinds and degrees of skill. At the same kins, moreover, the maaufacture of ready-make clubing becan to be "carried on thy the iourne" between seasons."

The subcontract system does not appear to have assumed a very important place until it was introduced about 1863 or earlier by contractors for army clothing. At first, moreover, the work for the subcontractors was precisically all done in the home, except for the cutting, which appears always to have been done in shops. The only change, in many cases, was that the materials were passed through an extra set. of lands in each transaction, and political chicanory appears to have been originally responsible for this unnecessary duplications of functions. The need for capital invested in sewing machines and later in power to run the machines, however, maturally produced a tendency to gather the workers in "sweat shops," in small establishments, and finally in factories, and the subcontractor as naturally became the "boss" of a group of workers, owning or runting on his own responsibility his shop an machinery.

STATISTICS.

During this second period of the garment manufacture, the proportion of women amployed, upon the whole, decreased. Table XI shows that between 1800 and 1900 the proportion of women to the total number of employees arguged in the manufacture of both marks and women's doubing, "factory product," decreased, as did also the proportion engaged in dressmaking," and after 1880 in the manufacture of shirts. In 1905 women constituted 64.0 per cent of all

a Twolith Census, 1900, Manufactures, Part III, Selected Industries, p. 206.

^b As early as 1871 there were said to be half a dozen dressmaking establishments in New York where the sewing upon dresses was almost entirely performed by men. (The Revolution, February 9, 1871.)

 $^{\circ}$ size atticle by Mis Abbett and Mis Incidentials in the Journal of Tellited Bonomy, January 106, vol. 4, pp. 1-4-6, on the "Binophysmet of remen in Industria, Twelth Communications," The conduction there rescled in regard to fits movement from Silo 1060 fm the doubling industry are mix $(^{\circ})$ (1) be simplyimut to the silo 1060 fm the doubling industry are mix $(^{\circ})$ (1) be simplyimut to monphysical of both mix and women in the making of mark eithing it done mix the mix of the main feature of women's easy marks agrounds (1) the num-

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the employees engaged in the manufacture of men's clothing, 62.4 per cent of those engaged in the manufacture of women's clothing, not including dressmaking, and 77.4 per cent of those engaged in the manufacture of shirts.^a

WAGES AND CONDITIONS OF LABOR.

When the saving machine was first introduced it was predicted that the needle would acon become a more object of curiosity, and that there would be great distress among the saving women owing to lack of amployment. In view of this expected result, the need of opening up to women new occupations, such as bookkeeping and tending shops? was urged. The first effects of the machine were, doubles, an intensified struggle for work and a reduction of wages by a reduction in the pice rates. In 1864 it was said that the saving machine had caused such a reduction of wages as to drive many a poor saving givel almost to starvation or suicide.⁴

The period of transition from hand work to machine work, when the hand worker was brought indo competition with the machine operative, must have been a painful time to the sewing women. As Virginia Penny said, sawing menchines enabled women to do much work previously performed by men only, but soon nearly as many men as women were comloved on them.⁴

Grandually, however, a readjustanent of work and pay was effected through an encomous extension of the ready-made trade and a reduction of piece rates. Wages have always, owing to the seasonal character of the trade, been not only low but decidedly unstable. The rates of wages here given, however, were probably more often for hand work than for machine work. Though in this period the machine was the competitor of the needle, the years before 1880 were essentially users of transition and, consequently, in the pert of

ber of women in dressmaking is decreasing and the number of men increasing. It is impossible to explain these changes."

According to the Twelric Counset, 1000, Manufactures, Part JT, Scheeled Induces (pp. 253 and 201), between 1800 and 1000 the development of the vonner's cleak and with basiness was not as to cause the subditution of most for young the level regarder of work, only the manufacture lives would be development of the data outley displaced ones on the change or gradies of work, owing to the fact that they would work for about two-bidden ones. The rapid development of the data outley displaced building output to the second to the second the summation of the second to the second the second of the second to the second

" Derived from figures in Special Reports of the Consus Office, Manufactures, 1905, Pari I, pp. 6, 17. In mon's clothing, "mon's clothing, buttenholes" is included.

^b The Una, February, 1854, Vol. 11, p. 223.

• Daily Evening Voice, December 20, 164. It should be remembered that Fincher's Trader' Review and the Daily Evening Voice were both labor papers, the former published in Philadelphia and the latter in lloston.

4 Penny, Think and Act, 1869, p. 33.

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the period of machine industry which it is here attempted to describe, hand work had only in part been superseded by the machine.

In 1803 the weekly wages of sewing women in Philadelphia ranged from 31.50 to 43.2° and in New York wages were as low or lower. At a meeting of Brooklyn sewing women in 1863 one woman said that 10 to 12 cents per dozen was paid for making drawers in New York, but that z shop in Brooklyn had offered her 41 cents per pair for drawers and array shirfs, by which she could make 22 cents per day.³

In 1864 William H. Sylvis, in an address at the iron molden' convention, spoke of the 30,000 sewing women of New York, who by working day and night earned only from 41 to 43 per week.¹ And in the same yest the case was olded of a New York woman who made drawars, sewed on the machine and estimated to have 1,800 stitches when finished, for 14 cents a pair. From 7 a. m. to 9 p. m. a woman cold make 4 pairs, or 164 cents a qay. Another woman made larger drawars, 2,000 stitches, at 64 cents per pair, furnishing her own thread, and could make to aly 2 pairs a 430°. At for the woman made larger drawars, 2,000 stitches, at 64 cents per pair, furnishing her own thread, and could make to null 2 pairs a 430°. At for hours, her remark was: "If I got to bed about daylight and sleep two or three hours, I feal stifsidd." Still another woman made haversack pockets by hand at 14 cents, or 124 cents for 10 hours' work, furnishing the thread. It havpacks, made by hand at 71° conts each, yielded their makers 225 cents a day if they began at 0 a. m. and worked antil about 11 p. m. The following cases was even works works:

A coarse fiannel array shirt, large aizo, made by hand seving. Collar, wrisbands, and guessels, put on with double rows of stitching all around. The seams all felied, 3 buttonholes, buttons, and atays requiring upward of 2,000 stitches. The worked on these shirts since the war broke out, receiving 7 conts, each one of them being a good fay's work for last. Younger women might make two or parhage there in 12 hours, furnishing thatfor own thread. This old hady oenthere in 12 hours, furnishing thatfor own thread. This old hady oenthere in 12 hours, furnishing thatfor own thread. This old hady oenthere in 15 hours, furnishing thatforward hyrds of the work there is a land wing the owning. At the ord of the work her not saming, sliter paying for needles and thread, amounted to 39 cents in "currency."¹⁸

In Boston the wages of sawing women in 1864 were said to have been from \$3 to \$3.00 per week,' and in 1866, according to the report of the Massachusetts commission on hours of labor, though milliners, dressmakers, and tailoresse were well paid, the women engaged on

d Idem, April 2, 1864.

48450°-S. Doc. 645, 61-2- vol 0-10

[&]quot;See Table C, p. 262, Fincher's Trades' Review, November 21, 1863.

^b Fincher's Trades' Roview, December 12, 1863.

clidem, January 16, 1864. Sylvis, Life, Speeches, Labors and Essays of Wm, H. Sylvis, p. 104. Wm. H. Sylvis was predicted of the Iron Molders' International Union and lates of the National Labor Union.

Daily Evoning Voice, Decomber 13, 1864.

coarse sewing received very low wages, earning only with difficulty over \$3 a week. A Boston minister testified that he had known women to make coarse pantaloons for \$4 cents a dozen and flannel shirts for 75 cents a dozen, being able to make only a dozen of either in a week.⁴

In other places conditions were equally bad. A "shoddy contractor" in Buffalo in 1864, employing 29 girls, paid them \$2.75 to \$3 a week, and it was said "the girls work two weeks for nothing."b In Detroit, in 1864, according to Richard Trevellick, seamstresses were paid \$1 to make a heavy overcoat and 30 cents to make a vest or pair of pantaloons.º In Portland, too, women's wages were extremely low. A correspondent of the Portland Courier in 1865 said that he saw a woman at work on pants for an oilcloth establishment, for which she said she received 871 cents a dozen, or a little more than 7 cents a pair. About three pairs, he estimated, could be made in a day, which would amount to about 22 cents." The sewing women of Utica, N. Y., in 1866 were obliged, it was said, to pay for heard \$2.50 per week, and many of them did not earn more than that amount. working from 6 a. m. to 12 p. m.d Earlier in the year a letter appeared in the Utica Daily Herald from a woman who worked 18 hours a day, supporting a family of children by "making pants for merchant tailors for 31 cents aniece (when sold for \$10)." and "conts for \$1.50 or \$2 that sell all the way from \$20 to \$50." .

By the end of the war period the wages of sawing women had itsen, though not im proportion to the cost of living. According to Table D, wages in New York in 1806 ranged from 48 to 810, whereas in 1803 thuy had ranged from 82.50 to 88 per weck.⁷ Table E show the estimated weakly earnings of sawing women in New York in 1808 to have ranged from \$1.80 to \$20, the latter sum earned only by parasol makers.⁹

In some instances, however, even money wages were allow as in 1830. In 1867 a speaker before a mass meeting in bohlaf of the Working Women's Protective Union of New York exhibited a pair of pantaloans for the making of which 20 cents was paid, a shir for 6 cents, and drawers for 8 cents par pair, three pair of which, netting 2 cents, could be made in a duy.⁴ The next year 1 twas asserted

- · Daily Evening Voice, March 9, 1865.
- 4 Idom, Novembur 6, 1866.
- e Quoted in Daily Evening Voice, March 10, 1866.
- / See Table D, p. 262. Daily Evening Voice, March 2, 1867.
- # See Table E, p. 262. The Revolution, October 1, 1868.
- A Daily Evening Voice, March 2, 1867.

a Daily Evening Voice, March 3, 1866.

⁶ Fincher's Trades' Roviow, August 13, 1864. It was not stated in this instance, or in many of these which follow, exactly what was meant by "making," whother it included all the work on the gament or a special subdivision of the work. Probably in mode Saves the carmonia were only cut out in the shores.

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that 50 cents a down was the price then paid in New York for making common overalls⁸. And in the same years a serving woman, writing to a distinguished philanthropist, asid that has had stitched antin vests for one employer at 3 abilings a vers, for the making of which he received 10 abilings, and that ahe had made shirts at a shilling sear, and earned sometimes \$1 a week, and sometimes 10 abilings⁴.

Shirta were said to be made in New York in 1868 at lower prices than in Europa and vesta for 15 cents. One spenkor hofore a meeting at Mount Vornon, N. Y., assorted that if the sewing women "ight, they could earn 90 cents." A Monther meeting a woman testifiad that she had made drawers for a Government contractor at 4 cents a pair, finishing five pairs a day, and buttonholes at 8 cents a dozen.⁴

Even in factories where underwear was manifactured wages were very low. In one such factory in New York in 1898 a woman 72 years of age was found working for 53 a week, and a little girl who chaimed abe was 13, but looked about 9, was working for the promises of 54 a month at the end of ther four weeks' appendiceship, and nohřing in the meanwhile. In the same establishment, howèver, at cloak making, odd hande sarrole as much as 310 a weeks'

Wages in New York In 1869 were said to be 'for heavy cloth pantaloons, lined, finished, and pressed (aboy work), 18 to 24 cents a pair; for lined coats with three pockets and six huttomholes, 81 a dozengents each; for shirts, best quality, \$1.60 a dozen; for shirts, shird quality (75 cents a dozen; for fancy flannel shirts, lapel on breast, turnover collar, cuifs, guessets, buttomholes, 6 cents each; for 'jumper' (blue overshirts) ending at waist in a band, with long sleeves, 50 cents a dozen.'' Meanwhilo, it was said that Portland women who were making clothing for New York houses got 25 cents a piece for woolen sack coats, from 124 to 18 cents for pants, 40 cents for ordinary overcoats, and from 60 to 75 cents for the heaviest and best made overcoats.

c Idem, September 24, 1868.

I idem, October 29, 1888. Barlier in the year, however, a man wrate ic the News Year Barlin the Web Auf answerds and advertainment F hourisonhole makens in that paper, and had been given work to do at 6 centra okara, alle finding that thread. Show a quick hand, bouch and, and could make a space 0 tatherbother in wvry six initialar, or ampleyer that It was an utter impressibility to make them at 1 had fragme, hor regime inhabe could get them made were charges. (The Newviller, Feb. 5), 1898.)

* Idem, March 12, 1868.

/ Idem, April 22, 1869.

Idem, May 27, 1869.

[&]quot; The Revolution, February 19, 1868.

^bIdem, August 13, 1868.

In 1870 the New York Times told of a woman in that city who made veste at 15 cents apiece for a wholesale house. By working 14 hours a day, including Sundaya, she could make, it was said, 85 a month only. Su paid 53 month for its attich, bud two simil children to support, and in January said she had eaten meat only one since Thanksgiving, and then it was given to her.

Another woman, a "finisher" of fine shirts, made about \$2 a week, had grandmother to support, and often lived for weeks on bread and water in order to provide a little broth very day for the oil woman's Again, in 1871, the Rev. Dr. Taimage in a sermen spoke of the asswing women and their hardships, and mentioned the case of one woman who was making gremmate as 8 cents apiece and could make but 3 a day, and of others who made coarse shirts at 6 cents each and found their own thread.⁴

Still another statement of weakly wages in New York in 1870 was to the affect that, though scanartsense in families received from \$7 to \$12, those engaged in wholesale work did not receive more than from \$2 to \$88^{\circ}} In the same year Skilrey Dare, a correspondent of the New York 'Thhuma, made some inquiries among individual sowing women in New York. Out of 25 women interviewed she found that one received \$5, seron \$6, one \$7, three \$7.50, four \$8, four \$8, four \$2, and one \$15, 2, and one \$16.

In Boston, according to Miss Pholps's statement at a meeting in 1980, there were about 20,000 serving yournen, hours 8,000 of whom did not earn over 25 cents per day.⁴ "The needleworned's acidely," is easid, "have been making inquirits on the subject and have taken manufactureers figures, which are always favorable to themselves. Girk are employed on Federal, Washington, and other streets, in numbers of 40, 50, and 60 in s shop, at less than 33,50 a week. Sewing-machine opperturies average 32,50 a week in those shops. You can see them in these shops stated in long rows, 30,40,60, or 100 girls crowded together, working at bleework, 30,40,60, or 100 girls crowded together, working at bleework and alw." Miss Phelps astimuted that only about one-fourth of the working women of Boston worked by the week, and that of these only about one-ient needed over 30 week. The sum of \$4 a week was

[&]quot; Workingman's Advocate, January 29, 1870. Quoted from New York Times. The Woman's Journal, Boston and Chicago, February 19, 1870.

b Woman's Journal, Boston and Chicago, June 10, 1871.

[&]quot;Idom, February 26, 1870. Quoted from the New York Evening Past.

[&]quot; See Table F, p. 263,

Workingman's Advocate, May 8, 1869. In her testimony before the Massachusetta legislative committee on hours of labor, also, Miss Pholps stated that thousands of girls in "clothing stores" in Beston earned only 25 cents a day or less. (American Workman, May, 1, 1860.) Miss Pholps was hereelf a working woman.

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said to be the highest ever paid in tailoring and ready-made clothing establishments.⁴ Another speaker, however, said that there were in the city 18,205 needlewomen, 200 of them receiving over \$12 a week and the rest from \$1.80 to \$12, the average being \$3 a week.⁸

"T have seen the time," sid Aurors, "Pholps, "when I could not buy the seep and first to wash my olchus. It is not always that we are improvident and shiftless. It is because our work is so fragmentary; because we have not facilities for getting employment at remuneative prices. Often when we go to the shop we have to will one, two, three hours for work to be given us. We work for half an hour, we hours, and then have to wait again. When I was younge girls were taught full trades. They made pants, coata, ourcoats, and then they learned to cut. Now one sitches the seam, another makes the buttonholes, and another puts the buttons on. And whan they one girls sitches up the seams and finds her work slack sho goes from ahop to shop, perhaps for weeks, before she can thed the same kind of work. I have known a girl under such circumstances to go for a week on a 5-cent loaf of bread per day, or on that amount of crackers."

A little latter one speaker before a working woman's convention in Boaton stated little she had known overalls to be given out for 5 cents a pair, at which prize 20 cents could be earned in 10 hours. Though the Oterman tailors were said to be receiving \$10 to \$15 per werek for 15 or 18 hours' labor, women in the same field of capityment and for the same hours search, it was said, only from \$225 to \$7 per week. Custom shops, according to Miss Jonnie Collins, generally paid good wegos, hut on ready-rande work: only starvation prices were paid.⁴ And women working for contractors Miss Aurora Pholps had declared to be paid the poroest wegos of all.⁴

The skilled tailoresses, of course, earned somewhat higher wages than the makers of skirts, oversalls, and the chooper grades of vests, trousers, and coats. A correspondent of the Boston Post in 1870 said that in New York a first-class sewing machine operator could cars 15 5 a week, though the majority did not earn half tlat.⁴ According to another statement, too, tailoresses in New York earned from 8 to 8 10 a week.⁷ In Boston in 1870 possible that took a day and a half to make were made for \$1.76, but the paintaloon and vest makers employed on this work (whose total carsings were

^a American Workman, May 1, 1869. Testimony before Massachusetts Legislative Committee on Hours of Labor.

⁴ Workingman's Advocate, May 8, 1869.

c American Workman, May 29, 1869.

d Idem, May 1, 1869.

e Quoted in the Woman's Journal, September 17, 1870.

[/] American Workman, February 11, 1871. Quoted from the New York Star.

almost precisely the same) were said to be unemployed about half of the year. The lowest price paid for board in Boston at this time, it was said, and that in an attic having as many beds as it could hold, was \$4 per week, not including light, fire, or washing.⁴

Just as before the introduction of the sawing machine, too, the prices charged were all out of proportion to the warges paid. The New York Sun in 1868 told an instance of a woman who dahorately embroidered an infant's cape, speading 14 days on the work, to receive as compensation only 44. The cape, it was said, the matorial of which was workt \$7, was afterwards solid by the mactical for \$70.2 And at a meeting of the Sewing Machine Operators' Union of New York in 1868 one woman testified that she had worked 72 hours on a piece of work for which she was paid \$3.75 and which, when placed on sale, was priced at \$85. The material, she said, could not have softward the \$25. Another woman had made a suit of boy's unbroidered clothes, the materials of which cost about \$5 and which had entroidered a chemise yoke and sleves, the material of which and throider a chemise yoke and sleves, the material of \$1.4

Not only were the wages paid exceedingly low, but in many eases even this pittenee, on one excess or another, was withheld. Sometimes it was said that the work was not satisfactory, sometimes that payment would be made when the samount had become sufficient, and sometimes other excesses and postponements forced the poor sewing women, as has already been seen, to make repeated trips at great cost of energy and time, in order to proture payment for work performed. Finally, perhaps, they wave obligid to abandon the attempt and pocket their loss rather than continue to waste their time in fruitess efforts.

This latter evil, the swindling of soving women out of part of their pay, was vigorously attacked by the Working Women's Trotective Union of New York. During the first fow months of its existence, this organization, with the assistance of several lawyers who volunteered their services, prosecuted "scores of employees" and compelled them "to pay the hard-neurade pittances due to working women."⁴ Nineteen such cases were prosecuted during the year ending in February, 1867. Before March 31, 1868, 636 complaints had been registered and the sum of \$3,000 had been collected for the elaimants.⁴

a The Revolution, January 20, 1870.

^b Quoted in The Revolution, January 15, 1868.

The Revolution, October 29, 1868.

d Daily Evening Voice, March 2, 1867. From Fourth Annual Report of the Working Women's Protective Union of New York.

[«] Workingman's Advocate, June 13, 1868.

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The requirement that the sewing women should furnish their own thread, which was said to have been first made when during the war the price of spool cotton rose from 4 to 8 and 10 cents,^o was a common grievance.

Fines, too, were frequently the cause of complaint. A shirt make working for one of the principal factories in Chicago, for instance, stated in a letter to the Workingman's Advocate that she had been fined 81.80 for stitching a dozen collars for night shirt, "two threads" nearer the edge than the prescribed quarter of an inch.³

Such were the conflictions of women's work and wages in the gament trades during the early years of the aswing-machine era. Similar accounts of conflictions during more recent years abound in comparatively accessible sources of information, but the story differs little from that here given of the earlier years. Wages have remained practically at the subsistence point, the rise during the first for years after the war being acceeded by a fall, so that by 1876 wages were little higher than they had been in 1860.⁵ Since 1878, while wages by the hour, day, or week have decreased in most cases and remained constant in a few cases, and hours have hear reduced by legislation, there has been a great increase in the speed and strain of work, which renders the industry more exhausting to its employees.⁴

GOVERNMENT WORK AND THE SUBCONTRACT SYSTEM.

How much of the work for which these wages were paid was done under the contract system it is impossible to the system, system as used in the manufacture of army clothing, was the cause of bitter compliant as early as 1983. Its immediate offect upon the Philadelphin sewing women is illustrated by the fact that in 1863, while women who obtained their work direct from the Schulykill Arsenal received for making havemacks 123 conts anch, others amployed by a contractor received only 5 aconts. Even at the former price it was estimated that the vormen could not make more than 37 conts a dw or 92.26 a work.*

Less than a year later a Philadelphia paper / stated that even the arsenal prices had fallen since the beginning of the war and that, on an average, the wages of sowing women had been reduced 30 per

[&]quot; Finchor's Trades' Review, April 2, 1864.

^b Workingman's Advocate, June 13, 1874.

c Pope, The Clothing Industry in New York, University of Missouri Studies, Vol. I, pp. 32-38.

d Industrial Commission Report, Vol. XV, p. 368.

^{*} Fincher's Trades' Review, December 12, 1863.

[/] Idem, October 1, 1864.

cent while prices had increased at least 100 per cent. "'As an oridonce," said this paper, "of the fearful decrease of prices since the war broke only we append a statistical table of wages received for work at the arsenal in 1861 and 1864 and the prices paid at the present time by contractors:"

	Arsensi,	Arsenal,	Contractors,
	1881.	1801.	1864,
Bhfrá. Dravers. Jorvalry Santa Later blownen. Under blownen. Sverfing santenes. Dverfing santenes.	\$0.171 .123 .425 .400 .45 .40 .01 .124 .45 .40 .01	10, 15 10 37 60 30 35 10 10 30 10 10 10 10 10 10 10 10 10 10 10 10 10	\$0.07 and .08 .17 and .08 .28 and .30 .28 and .30 .15 and .20 .75 and .20

A few months later the following table of prices paid by the contractors and by the Government was given:"

	Around prices.	Contract- ors' prices.
ht W., www. Balange Walty Josefuto. manifer consta.	Crutz, 18 13 40 32 120 195 00	Cente. 7 17 and 20 13 and 16 40 and 50 10 and 76 40

This system, however, had ovidently been adopted in private as well as in public work and with the same results. In 1864 Findaer's Trades' Review spoke of the subcontract system as "a new source of oppression * * visited upon the senantsresses." "Timo was," wrote the editor, "when whole-hearted and magmanimous employers gave out work to women in their own stabilishments, and paid remumerative prices; but of late a set of soulless subcontractors have sprung up, who centract for the earther work of an estabilishment, reath a cheap room in the suburks, produce a lot of soving machines, and enploy young girls from 12 to 15 years of age, at just asieh prices as they choose to pay." Twenty-five, 80, or 100 girls were croweds to gether in these workrooms. "The proprietary" and Mr. Findaer, "paid the sume prices to the subcontractor which he formerly paid to the women, and was reliaved of cornose for bookkeopers and clear this,"

"Middleman" were again denounced in 1867 by a speaker before a mass meeting in behalf of the New York Working Women's Protective Union. "They contract with women," he said, "to get

^a Fincher's Trades' Review, January 28, 1865.
^b Idem, May 14, 1864.

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work done at starvation prices, and then soll it to the wholesale dealers for five times the amount they paid for it.""

Moreover, though the chiof compliants were made against the prices for Grovermonts work, and capacially those offcord by the contractors on Government work, it was said that wages were oven lawer on private work. A lotter from "An American Working Woman" in 1894 stated that while for making inflativy parts awome received 20 cents, they received only 500 cents for making clitzam" pants and could make three or four pairs of the former in the same time as one of the lattor. "Non-tentia of the employees," she said, "prefer Government work to that of clitzams."

Government contractors and subcontractors, however, were among the worst sweaters of the time. The Daily Evening Voice, in reviewing the work for 1864 of the Working Women's Protective Union of New York; cited the case of a solider's with who was making drawars at δ_1^{\pm} conits of all of the Working Women's Protective made by hand and 6 pairs was a good day's work; giving her at best an income of 244 cents a day. But if the work dil not pleases har employers for any reason, real or fanoisd, they deducted 20 cents per dozen from her wages—a custom among the less honorable mon in the business in order to increase their profils. A subcomtenter was arrested in Philadelphia in 1864 on the charge made by several of his women employees of withholding their wages of "35 cents each for eavlar izackts."⁴⁴

By 1865 it was said 'dua in Philadolphin the centractors had "ao peniatently solicited the arsenal work" 'Ahnt they had obtained "all the work, except shirts, which have heretofore been given out to aged women." A humile of shirts, obtained at the expense of these "yoor old shirt makers" it was said, would yield, however, only \$1.44per works". It was charged, too, that contracts for army elotting were obtained from the arsent only by polician influence or liberal bribes, and that these contractors "farmed out" the work "to the lowest bidder."

In 1864 the women employed on Government work in Philadelphia sont a memorial to Congress asking for an increase of wages./ In the same year, too, the working women of New York appealed to the

/ Fincher's Trades' Roview, May 7, 1864. In 1863 these women had hold a public protest meeting against an order discinging all who were not near relatives of soldies. (Fincher's Trades' Roview, Aug. 8, 1863.)

[#] Daily Evening Voice, March 2, 1867.

b Fincher's Trades' Review, May 21, 1864.

Chaily Evening Voice, December 15, 1864.

⁴ Idem, December 30, 1864. Quated from Fincher's Trades' Review.

^{*} Fincher's Trades' Review, January 28, 1865.

Secretary of War for an increase of wages, asying that at the outbries of the var the prices paid "ware bardy sufficient to analoc us to obtain subsistence," but that since that time "women"s labor has been reduced more than 30 per cent," while there had been an "unprecedented increase in all the necessaries of life." They asked for an increase in "the price of fomate lalor until it shall approximate to the price of liming," and that the centrast system be so insulfied. "as to make it obligatory upon all contractors to pay Government prices."³⁸ Some 10,000 signatures are mail to have been obtained for this petition, and it was added that "thousands more would have signed, but refused, alleging as a reason that they were fortful of losing the small amount of work they were then gotting from the contractors."¹⁶

The subcontract system was also the subject of a memorial to president Lincofn from the Grainmant women engaged on Government work. They declared thomselves "willing and anxious to de the work required by the Government * * at the prices paid by the Government," but stated that they were "mable to sustain life for the prices offered by contractors." They divide as an example that the contractors were paid \$1.75 a dozen for making gray woulden shirts, for which the women were paid only \$1 at dozen. The same injustice, they said, was practiced in the manufacture of all other articles. "Under the system of direct temployment of the operative by the Government," they added, "we had no difficulty, and the Government, we think, was served equalty well.""

This Philadelphin working women employed in sawing for the Goverment finally sent a delegation to Washington, which waited upon President Lincoln and obtained from him a request to the Quartermaster-General that he would thereafter manage the supplies of elothing in such a way as to give the women renumerative weges.⁴

In Boston the special relief branch of the New Pagland Auxiliary Association obtained Government contracts for elothing in order to furnish work to solidier' wilows at a fair price. The sewing wance were given, it was said, not only the full benefit of the contract price, but in some instances much more. About 900 or 1,000 women were employed.³

No attention, however, appears to have been paid by the Government to the suggestion early made by Fincher's Trades' Review /

[&]quot; Finchor's Trades' Review, September 17, 1864.

⁶ Daily Evoning Voice, December 15, 1864.

⁶ Iden, March 8, 1865. Fincher's Trades' Roview, March 18, 1865. Reprinted in Documentary History of American Industrial Society, Vol. 1X, pp. 72, 73.

⁴ Fincher's Trades' Review, February 4, 11, 1805; Daily Evening Voice, January 28, 1865.

< Dally Evoning Voico, March 3, 1806.

[/] Finchor's Trades' Review, May 14, 1864.

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that the United States commissary department lead in the elimination of the subcontractor by establishing "multisegencies in different parts of the city, where they would be accessible to the entire population of working women," and by making ite' "imperative upon the contractor," whenever it was necessary to employ outside help, "to pay the sommersees arroad upce."

THE HOME, THE SHOP, AND THE FACTORY.

Though the garment trades are backward in their industrial development, their history shows a distinct movement away from the home, through the small shop, to the factory. For many years the ready-made business, except for the cutting of garments, was almost entirely a home industry. With the subcontract system came the sweat shop. But for several years past there has been manifest a distinct tendency away from the subcontract or sweating system. toward the factory system. In 1901 Prof. John R. Commons reported c that, though 10 years before probably 90 per cent of women's ready-made garments were made by people who worked for contractors, at that time fully 75 per cent of such work had passed into the hands of "manufacturers." The manufacture of overalls, too, which was in the early years one of the most poorly paid of the home trades, has now become, practically a factory industry. Men's coats and overcoats are also increasingly a factory product,

Minute division of labor and power applied to machinery have ailed in briging about the success of the factory system as compared with the small shop. Many of the anall contractors' shops, however, were long age equipped with power-driven machines. Division and organization of labor, therefore, sided on the one hand by the economise of large-seale production and on the other by have regulating the averating system must be hold primarily responsible for the novement toward the factory system in the garment tacks.

b For a full discussion of this topic see Men's Ready-Made Clothing, Volume II of this report, p. 483 et seq.

o Industrial Commission Report, Vol. XV, p. 322,

[•] Pincher/• Trailer Teview, May 14, 1964. It ives nith this visual in 1:028 Malance Coop* signific to the in-trainchild at with Washington for a mean laberance on their nig-pair steps poil for performance. In received for numere, that they could rask factoring the strength of the st

OTHER CLOTHING AND SEWING TRADES.

MILLINERY, STRAW AND LACE GOODS.

Milliners engaged in custom work, like dressmakers, hav a lways been aristocrata among the clothing makers. The necessity for skill and taste has a oftened the compatitive struggle and raised hergaining above the level of a mere struggle for an imile division. The difficulties in the way of acquiring this skill and taste have, however, analled its possessors, not merely to establish for themselves a fairly advantageous industrial position, but to subdivide and distribute the work in mole a way as to employ a large body of comparatively unskilled workers, who are engaged principally in the preparation of materials for the custom workers. As in the garment trades, the tendency of the millinery business has hene away from custom work, and toward subdivision of labor and wholessel manufacture. Even among the custom workers multivision of labor, by which skill was economized, early produced a elnes of workers similar.

In New York, in 1845, milliners are said to have worked from 10 to 12 hours a day for wages of from \$2.50 to \$3 per week, only "a good hand" commanding the latter price. They were divided into two classes, "makers" and "trimmers," and, though wages were about the same for both, the latter were more in demand and consequently suffered less from unemployment. A year's apprenticeship to the business was required for both, during which the girls, who were generally very young, received no money wages, often, it was said, working overhours for their board and lodging. The New York Tribune complained that during their apprenticeship they were kept regularly at sewing, and were not taught "anything in regard to gracefulness of outline, harmony of colors, symmetry of form and general adaptation * * * to each peculiar style of face," and that, consequently, at the end of the year they were "not much better milliners than when they began." " In the smaller custom shops, indeed, the employers doubtless furnished then, as they do now, the greater part of the skill and taste required in the business.

According to Table XI, woman have furnished since 1860 over 05 per cent of the employees argaged in "millinery custom work," and the percentage has steadily increased. In the manufacture of "millinery and lace gools," however, the proportion of women employees, which was 85,1 per cost in 1005, appears, perhaps owing to the census methods of inclusion or exclusion of various branches of manufacture, to have decreased up to 1800 and then increased.

" Now York Daily Tribune, September 16, 1845. Most of these ougaged in the justices were said to be Americans, with a fair proportion of English and French.

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Only in 1890, however, did the proportion of women fall below 80 per cent of the total number of employees.

¹ The manufacture of hee was an important industry for women early in the ninetoenth entryry. Thus at I payeich, Mass. in 1923, there are reported to have been 500 women employed in lace manufacture, and in the same year the Rhodo Island hee school at Newport is said to have employed 500,° and in 1832, 700 women.¹ In Massachusetts, too, in 1831 more than 500 women were employed in its industry.² These women all worked at home, and hee making probably supplied in part, at this period, the need for home work created by the transfer of vesaving to the factory.

The manufacture of straw goods, which was started by Mise Botesy Metodl, of Dedham, Mass., in 1789, was also for many years a home industry of New England women, who made straw bonnets first for their neighbors and then for the wholesalo markets. At first native materials were used, but hater, when foreign-grown materials, which were better in quality than the native, were introduced, factories were established. As long as this was a home industry is appears to have been carried on wholly by women, but in the factories men were employed for part of the work of bleaching. Women, however, still braided the straw.

In Massachusetts alone in 1827 there were reported to be 25,000 persons, noarly all lemales, engaged in the manufacture of straw hats, etc.⁴ This, however, must have been an exaggeration, for in 1837 there were reported only 13,311 "female hausis" and no "make hands.⁴⁹ In 1824 a school was established at Baltimore "for the instruction of poor girls in the various branches of straw philing.³⁷ The pam-lent-last manufacture, too, which commenced in 1826, was soon an important industry in New England, principally in Massachusetts. The hats, it was said, were "fall made at the dwellings of the inhabitants, by girls from 4 yours of and upward.''s Near

eStatistical T-3-bes Schöltslärg the Candition and Produces of Gorian Branchese of Industry in Massel-workstoffs for He Sere Tabling April 1, 1887, p. 1990 et 8en, "The Documents Relative to the Manufactures of the United States, Recentive Document, Ywestry-scened Congress, first-works, Net (1932), however, repeated over 15,000 women engaged in this bunines in Massel-waterts, and In many towns the number seaso to estimated, but it was simply repeated that thomsands of bata veen made. Preshably the wate majority of the women who made inste did as oaly in their behave been sub-scenes.

/ Bishop, History of American Manufactures, 1868 edition, Vol. II, p. 294. This achool was not soft-sustaining.

9 Niles' Regiator, Juno 18, 1881, vol. 40, p. 281.

[&]quot; New York Evoning Post, July 3, 1828.

b Niles' Register, January 21, 1832.

[·] Excentive Documents, Twonty-second Congress, first section, Vol. I.

d Bishop, History of American Manufactures, 1868 edition, Vol. 11, p. 285.

Springfield, Mass., where the business of plaiting straw was a great industry in 1831, some women were said to have made at it \$2 a day, but most of them made only \$1 a day.⁴ Twenty-five cents a yard was the piece rate.⁵

As late as 1850 a great share of the manufacture of straw bonnets is mail to have been home work carried on by country women. Large establishments in New York and Beston had their agents continually traveling among the formhouse slistibuting the straw and models and collecting the finished bonnets. In some districts it was said that all the females wave engaged in this work;

By 1935, however, the making of straw hats and bonnets was no longer exclusively a household occupation. One establishment in Boston in that year, for instance, is said to have ampleyed constantly 300 females.⁴⁴ J In 1834, too, we hear of one Boston establishment which empleyed about a hundred women in weaving straw.⁴ And in 1835 an advertisement appeared in a New York paper for "40 firstrate straw-bonnet several" who were wunted at "Mrs. Olivor's strawbonnet mandratory, 271 Bowery.¹⁷

Just what were the hours and wages in these only factories is not known, but in 164 ownen straw braiders in 'new York are said to have worked from 7 in the morning to 7 in the ovening "with no intermission awa to swallow a hasty morsel," and to have reedvad wages, when fully employed, of from 25 to 25.00 per week. "They have," wild hos New York Tribune, "in rooms of their own, but hoard with some poor family, sloeping anyhow and anywhere. For these accommodations they pay \$1.50 per week, "some of the worst and fibbies hearing houses, however, charging as how as 1 per week."

By 1838 the manufacture of straw hale for the southern market had become a sumwhat important industry in Philadelphia, one establishment employing about 200 persons, mostly familes. The average woekly wages for voment in the industry worre 84.56, and for men §7.50.³. But in Beston in 1869 there were addit to be from one to two hundred wamen making galan-lacf hats for men at 8 cents each after paying for the material. One woman, it was said, lad worked at the business aveck and earned only 87 cents⁴.

*Now York Mechanics' Magazine, April 10, 1834. Quoted from the Bunker Hill Aurora.

[&]quot; Niles' Register, July 2, 1831.

⁴ Idem, August 27, 1831.

Monney, Nino Years in America, 1850, p. 16.

[#] Bishop, History of American Manufactures, 1868 edition, Vol. II, p. 393,

[/] New York Transcript, January 3, 1835.

[&]amp; New York Daily Tribuno, August 19, 1845.

A Freedloy, Philadelphis and Its Manufactures, 1858, pp. 281, 413.

[&]quot;American Workman, May 1, 1869; Workingman's Advocate, May 8, 1869.

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In the sixties, machines for sewing straw brid were introduced, but the industry still remained practically in the hands of women. The braiding of straw has always been a hand process, aided by a few simple tools. The mibelathly nature of the business, by reason of the fund dust in the handling of dyod braids and the heavy work on the machines, was apparent by 1884.⁴

ABTIFICIAL FLOWERS.

In the manufacture of artificial flowers, which has been very little affected by industrial changes, the conditions of work, as far back as 1845, when the industry was new, were very similar to those of to-day. In 1845 the Tribune estimated that from 1,500 to 2,000 girls were employed in this occupation in New York City, b Some of them. who had served a five years' apprenticeship and had shown particular skill, could, if constantly employed, earn \$3.50 per week, but the principal part of the work was done "by young girls from 11 to 13 years of age, 'apprentices,' as they are termed, who receive 75 cents, and a few \$1 per week." "These 'apprentices," said the Tribune, "as soon as they are out of their time are told that there is no more work for them, and their places are supplied by fresh recruits who are taken and paid, of course, as apprentices. Every few days you may notice in the papers an advertisement something like this: Wanted-50 young girls as apprentices to the artificial-flower-making business.' These portend that a number of girls have become journeywomen, and are consequently to be pushed out of work to make room for apprentices, who will receive but 75 cents or \$1 per week."e

HATS AND CAPS.

As early as 1831 there were reported to be 3,000 wemen and 15,000 men and boys engaged in the manufacture of wool and fur hats in this commer, 4 And in Massachusetts in 1837 there were 556 "male

^a Fifteenth Annual Report of the Massachusette Bureau of Statistics of Labor, 1884, p. 74.

 5 H is difficult to reconcile inhibitation more with the figures in Table X1, p. 321, which it for 237 avaions in the manufacture or a trifficient J rowers in the entity. Unlisted States in 1856, these avanues constituting 85.7 per cent of all the symphyses in the infuture States in 1869, these avanues constraining 85.7 per cent of all the symphyses related under "artificial facilities, fineway, and I right" and "frequency, and provide the symphyse relation of the symphyse relations, the same of the symphyses in the symphyse relations, the symphyse relation in 1950 there are the first order of the symphyses in the symphyse relations in the symphyse relations. The pretrust end of they years, batter in 1950 there were marked by the provide mark in the symphyse in the symphyse in the symphyse relations. We have a provide the symphyse relations in the symphyse relations in the symphyse relations. We have a provide the symphyse relations in the symphyse relations in the symphyse relations in the symphyse relations in the symphyse relations. The pretrust symphyse is the symphyse in the symphyse relations. The pretrust symphyse is the symphyse in the symphyse relations. The pretrust symphyse is the symphyse in the symphyse relations. The pretrust symphyse is the symphyse relations. The pretrust symphyse is the symphyse relations in the symphyse relations. The pretrust symphyse is the symphyse is the symphyse relations. The pretrust symphyse is the symphyse relations. The pretrust symphyse relations in the symphyse relations in the symphyse relations. The pretrust symphyse relations in the symphyse relations in the

New York Daily Tribune, August 19, 1845.

⁴ Journal of the Proceedings of the Friends of Domestic Industry, New York, October 20, 1831. Reports of committees, p. 30.

hands" and 304 "formals hands" employed in making hats.⁵ The proportion of women to other employees engaged in the making of "hats and caps, not including wool hats" has steadily increased since 1880, but appears, probably owing to changes in classification, to have decidedly decreased since 1860.⁹

Division of labor antly made women and grids trimmers of man's lust, and their wages for this work usually appear to have been higher than for the trimming of women's hats. One manufacture of wool hats in Danbury, Conn., in 1845, after a regular apprenticeship, which appears not to have been long, the grids in New York are said to have carned from 31 to 81.00 per day, at pice optices which ranged from 8 to 124 cents per hat, the latter generally being paid for fine work. In the country, at the same time, the usual price was 8 cents.⁴ In 1851, again, trimming men's hats was said to be one of the most profitable branches of industry open to women in New York, the average wages being \$4.50 a week, and some hat trimmers making \$ a day.⁴

About 1845 a machine for forming fur-hat bodies was patented while caused a division of labor, and gribs ware introduced to fead the fur to the mechino. J Later the sewing machine was introduced for idnding hats, which had formerly been done by hand. As in most other industries, however, the sewing machine was usually operated by women.

One of the nest poorty paid industries in which women have been engaged, however, has been cap making. From the vary beginning this has been, in the broad sense of the term, a sweated industry. In 1846 there were said to be in New York City between one and two thousand women cap makers who carned on an everage 2 shillings a day, and many not more than 18 pances. "They are threst," said the New York Tribune," into a dark back room in a second, third, fourth, or tifth story chamber, 30 or 40 together, and work from survise to surdown." A manufacture of capes in New York stated

" Statistical Tables Exhibiting the Condition and Products of Certain Branches of Industry in Massachusotis for the Year Ending April 1, 1837, p. 169 et seq.

* See Table XI, p. 253.

• Failing and Yill, History of Danhury, Coniu, D. 224. Unfill about 1817, women carded all the wool for latis by land. (Idean, pp. 241,242.) And in tho early years of the industry women were complexed in pulling out the cancene outer bains from the skins from which the fur was afterwards cut by men preparatory to its use in the navafacture of for hats. (William 7. highant, Inlinimer Hats, 1806), p. 64.)

"New York Daily Tribuno, November 7, 1845.

& Burns, Life in New York, 1851.

/ Bailoy and Hill, History of Danhury, Conn., pp. 224, 225.

New York Daily Tribune, August 19, 1845.

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in the same year that, without advertising, he had in anowerk 200 more applicants for work than be could furnish with anophyment." Another statement was to the effect that the fur-sap makes of Nav York could not make, by 18 hours' work, over 30 cents a day,⁶ and still another that the makers of men's mont by 00 cents a day,⁶ and still another that the makers of men's mont by 00 cents a day,⁶ and form 15 to 18 hours a day, maked state."

One of the evils especially complained of in this business was the dishonesty of some manufacturers who advertised for cap makers, gave out work to be paid for on approval, and when it was returned refused payment on the ground that the work was not satisfactory." One writer told of a case in which a man gave out on trial 2 dozen caps each to 47 girls and not one of these received a cent for her labor.* This evil appears to have been alarmingly prevalent for a number of years. In 1849 a writer in the New York Tribune asserted that a large part of the glazed and cloth cap manufacturing business of New York was carried on by merchants who advertised for women to work on caps, promising them permanent employment and punctual payment, and, when the work was done, told them that the establishment paid only once a fortnight or once a month, that the bill was too small, or that the caps were badly made. / Again in 1850 an Irish traveler, in his description of America, warned Irish girls of this custom g

By 1851, when there were said to be about 5,000 women cap makers in New York, the Jows had hannes immospheric dithe trade. In one room of a New York establishment it was recorded in that year that to girks were amplyed, while others took were home out out and ready for sawing.^A Wages were exceedingly Low. In 1843 some Philadelphic acp makers went on article beause they could not make on ordinary work over 37 cents per day.^A And in August, 1850, the Northly Record of the Five Points House of Industry gave an account of a visit by the superintendent to a poor widow who was making boy'd clott capes "trimmed with brain, and bow, and buttoms, lined

4 Idem, September 10, 1845.

• Functiont, Wronge of Anomican Woman. Reviewed in the Voice of Judiustry, Soptember 25, 1845. This account is east in the form of n simple story, similar to "Pin Long Day" of the present generation, and describes the dilutening conditions of the working women in New York in 1845. Mr, Burdott is said to have informed himself personality of all the factor stated in his book.

/ New York Daily Tribuno, August 7, 1849.

ø Mooney, Nino Years in America, 1850, pp. 80, 90, 92.

A Burns, Life in New York, 1851. The number of women cap makers in New York must have been greatly exeggerated.

Report of the Bureau of Industrial Statistics, Pennsylvania, 1880-81, p. 209.

49450°--S. Doc. 645, 61-2-vol 9-11

[&]quot; Young Amorica, New York, April 12, 1845.

^b Workingman's Advocato, March 15, 1845.

Now York Daily Tribuno, August 14, 1845.

with glazed muslin and wash leather, and with patent-leather front," for 2 shillings per dozen or 2 cents a piece. She said that she used to receive 2 shillings and 6 pence per dozen, but that the price had been reduced.⁹

The wages of women cap makers in Philadelphia in 1858, however, were said to be about \$4 per week.⁶ And in 1871 there were in New York, according to one account, 2,000 women cap makers earning from \$6 to \$8 per week.⁶

A home industry, comparatively little influenced by the sewing meahing, cap making was for many years perhaps the vary lowest of the clothing industries. The work has practically always been by the pices, and in 1871 it was stated that in Boston women, working in slops, earried home matarials and worked two or three hours additional in the evening.⁴ But in 1872 it was added that all were expected to work in the shop during the regular hours.⁴ Gradually, however, division of labor and the use of power-driven machinery have made the manufacture of caps a shop or factory industry.

UMBRELLA SEWERS.

As shown in Table XI (page 253), in every ensus year except 1890' more than half of the emphases engaged in the manufacture of umbrellas and canes have been women. In the earlier years, when canes were not included, the proportion was considerably higher. The work of women has always been principally the sawing logether of the pieces of the umbrella eavers have been merely one wing of the great array of sawing women. "Though about in which mon and women were employed in separate rooms were early common, much of the work was done at home, as in the other sowing trudes."

The warges of unbrells and parasol sewers have always bon low, for, thong is mossili and experience is required on the higher grades of work, apprentises can learn in a short time to do the common work. In 1836, when the warges of unbrells awares in Now York were reduced from 14 to 10 cents on each unbrells, it was stated that at the reduced rate the gifts could obtain 'only half of a subsistence.'' The average carnings of parasol awares in New York in 1846 are said to have been 25 cents a day, though some gifts carned as high as §5 to \$8 per work? The New York Sum mentioned the case of a widow

[&]quot; Quoted in Penny, Think and Act, 1869, p. 89.

b Freedloy, Philadelphis and its Manufactures, 1858, p. 281.

American Workman, Fobruary 11, 1871. Quoted from the New York Star.

d Report of the Massachusetts Bureau of Statistics of Labor, 1871, p. 209.

^{*} Idem, 1872, p. 77.

[/] Public Ledger, December 1, 1836.

[#] Now York Daily Tribune, March 15, 1845.

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with three children, who at sewing parasols and umbrellas could not earn by the closest application more than 25 cents per day."

A little latie the New York Tribune said: "At the prices usually paid, the girks at this trade can make, some of them 20 shillings, some 33, and some who are extraordinarily smart, 44 and 35 s. yeak. There are may who do not earn 20 shillings. These are to be found chiefly among that class who work on the commonest umbrilas, make of coarse mulains, cane frames, it, tips, etc." For overring with gingham the price was 10 cents for a 28-inch, 11 cents for a 30-inch my and 12 cents for a 32-inch umbrilae. For covering with 31 th cents and 12 cents for a 32-inch umbrilae. For covering with 14 th earns and 12 cents for a 32-inch umbrilae. For covering with 31 cents for the largest, and for covering with common numbin 7 cents, 8 cents, and 9 cents. On parasols the work was said to require greater skill and expertences, and emografic could not can am sunch as on umbrilas.

The hours in the shops at that time were usually 10 a day, and the girls who worked at the trade were generally Americans, with a few Germans and Irish. When the work was done at home the hours were doublese longer. In many places the work was add to be regular throughout the year, but in others girls were employed to prepare for the auctions along, and were discharged when the work was done. Girls under 15 or 16 were seldom employed, as a good deal strangth and skill were required to make the covers fit hierdy.⁴

In 1851 umbrells severs in New York are said to have made from 32.06 to $33 \mod 8$ work.⁹ Bot two years later the New York Tribuno, in investigating the needlewomen of New York, found that, while in mumer the earnings of the parasol eithchen were about $32.50 \mod 8$ in winter when on umbrella work thay earned only about $31.50 \mod 8$ work.⁴ In Philadelphia in 1385 there were said to have been more than a hundred places where parasols and umbrellas were made, hough there were only four or flive large satabiliahments. The manufacture omployed directly, it was said, about 1,500 persons, and indirectly, in all of its branches, about 2,500. A large proportion of the employees were fomales, and their earnings averaged from 32 to 35 per work.⁴

By 1863 the sewing machine had reduced the piece rate paid umbrells envers to from 6 to 8 conts per umbrella, and it was said that "by working steadily from 5 o'clock in the morning till 12 at night they could finish a dozen umbrellas per day." They had to pay,

[&]quot; Quoted in the Workingman's Advocate, March 15, 1845.

⁵ New York Daily Tribune, September 17, 1845.

Burns, Life in New York, 1851.

New York Daily Tribune, June 8, 1853.

[&]quot; Freedley, Philadelphia and Its Manufactures, 1858, pp. 300-392.

however, out of their own pockeds for all the thread and needles used by them. Generally their employers furnished them, with these articles at a stated price, the amount for which was deducted from their wage, lexying them after six days' had work, from early morning till midnight, six or $41^{1/9}$. According to another account, parseols and umbralles were made in New York in 1863 for 50 cents a dozen, and eight could be made in a day.⁴ In 1867, too, the low wages adjust more than a parseoi seweres were complianted of before a mass meeting in behalf of the Working Women's Protective Union of New York.⁴

In 1870 a cut in wages of from 30 to 35 per cent resulted in a strike of 2,000 paraso and umbralls assess of New York and the formation of a mion.⁴ A that time their wages for covering onton umbralls as 2 feet long were 61 cents, for large umbralls meanly 3 feet long, 114 cents, and higher prices for silk umbralls and parasols. To cover one of the small cotton umbralles at 64 cents required three-quarkers of an hour. When work was itively, which was only about four months in the year, it was said that an average of \$8 a week could be earned, but at other time wages averaged exactly 55 a week. Though in 1945 it was said that a parentices could learn in a weak or 30, at this time a preparation of over a month, it was said for the our months for profesioncy in the bigging radies.⁴

COLLARS AND CUFFS.

The manufacture of collars and cuffs was begun at 'Troy, N. Y., about 1825, and from the first most of the work, except the outting, was done by women, at first entirely and even yet largely in their homes. This first manufacture of collars was the keeper of a small dry goods store in 'Troy, who employed the wives and daughters of his and shirts was added in 1845, and for a time prior to the introduction of the sowing machine the manufacture of cuffs and shirts was added in 1846, and for a time prior to the introduction of the sowing machine one commonly increased the output and the possibilities of the back of skilled operators.¹ But the introduction of the sowing machine one commonly increased the output and the possibilities of the bunkness and effected a revolution similar to that in the immatheme of read-made clothume.

The use of sowing machines run by steam power, which was common in all the large collar and auff manufacturing establishments in Troy

⁴ Fincher's Trades' Roview, October 17, 1863.

^b Idem, November 21, 1863.

C Daily Evening Voice, March 2, 1867.

^d Workingman's Advocate, February 12; April 16, 1870. American Workman, February 26, 1870.

[&]quot;The Revolution, February 24, 1870.

[/] Twelfth Census, 7900, Manufactures, Part III, Selected Industries, p. 300, 310.

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as early as 1872, and the division of labor, have both tended to haston the instruction of the factory system in the collar and cull findustry. As early as 1873 the Troy factories were said to have employed 2,000 girks - Some of the various operations, however, were, at that time, regularly carried on in the homes of the neighborhood, and this has never entirely eased. But the comparative concentration of the workers has long made organization more common in this industry than in most of the sewing tracks.⁵

BUTTONS.

The manufacture of buttons is an industry quite different in character from the sewing trades. In colonial times, however, the covering of buttons was a somewhat important home occupation of women. Though in 1820 the imperfect census figures give only 36 men, 8 women, and 22 "boys and girls" engaged in the button industry,* by 1832 the manufacture of buttons and combs appears to have employed nearly a thousand women in Connecticut and Massachusetts.4 Soon afterwards machinery for covering buttons was introduced. In 1837, however, there were reported in Massachusetts only 21 women and 42 men engaged in the manufacture of metal buttons and 190 women and 254 men engaged in the manufacture of combs." According to Table XI, the manufacture of buttons employed 621 women in 1850. and women have constituted since that date not far from half of the total number of employees engaged in the business. By 1870, when women were said to be engaged in the manufacture of all kinds of buttons, the business had become practically a factory industry.

The wages of women button makers in Connecticut in 1860 were about \$3 per week and in 1887 about \$0.38 per week.

GLOVES.

The first gloves made in America were made in 1760, and in 1860 the manufacture of gloves in commercial quantities began at Johnstown, N. Y. Glovenwillo was founded in 1810, and in 1821 the total product of this two places was 4,000 dozons of gloves and mittens.³ Practically from the beginning of the wholesale manufacture of

" Workingman's Advocato, Decomber 27, 1873.

5 See History of Women in Trade Unions, Volume X of this report, pp. 108, 107.

American State Papers, Finance, Vol. IV, pp. 29-223.

d Executive Documents, Twenty-second Congress, first section, Vol. I.

* Statistical Tables Exhibiting the Condition and Products of Certain Branches of Industry in Massachusotis for the Year Ending April 1, 1837, p. 109 et seq.

/ The Revolution, March 24, 1870.

o Twenty-sixth Annual Report of the Massachusetts Bureau of Statistics of Labor, 1805, p. 524.

A Glove Workers' Journal, April, 1900, p. 49.

gloves in this country the work was divided and the sering given ont to women who worked at home. The cutting was generally done by men" in shops and laker in factories, and then the materials were distributed by the manufactures to the women of the surrounding region, to be collected again after they had seved together the various parts. This division of labor was early established, and was not materially altered by the introduction of the machine and later of the factory system with machines driven by istem power.

At first, of course, the sewing was done by hard, but in 1852 the sewing machine was introduced into the glove manufacture.⁴ The first machines used were heavy and cumbersome, but in 1856 a machine was introduced to make some grades of light work throughout, and som afterwards the sewing machine became domesticated and the work was carried on by the women in their homes as before. There was, however, one exception. The war-thread machine base necessfully a factory machine. Gradually, too, the factory system las encreached upon home work in the glove-making industry. But even yet, the sewing of gloves is, in the great glove-making coursers of Gloversvills and Johnstown, N. Y., to a certain extent home work. Many of tho large factories there have delivery teams to distribute and collect the materials.

The concomy of minute subdivision of labor, especially in highpriced work, has, however, caused the growth of the factory system at the expense of the domestic system. The introduction of steam power for running machines, which occurred about 1875, has sho assisted the growth of the factory system. In the factories the cutting and proparation of the skin is done by men, and men generally operate the heavy machines for wax-thread work and palming, and usually turn the gloves. The rest of the work, divided minutely into special operations, has long been done, without much change of conditions, by women. In some localities, as at Gloversville, these women, even when working in factories, have always been required to own their machines and rent power of the manufacturers-a survival of the domestic system. In other places, however, as in Chicago, where the union is strong, this cutom has been abolished.

Glove making has always been piecework and, though the industry is comparatively backward in its development, conditions have been yery similar to those of the early years of the boot and shoe making industry.

[&]quot;The first manufacturer of gloves in commercial quantities in Johnstown is said, however, to have employed farmon' daughters to cut the gloves at his store and then to have distributed them to the farmon' wives to be sevend.

^b Twelfth Census, 1960, Manufactures, Part III, Selected Industrice, p. 784. ^c Idem, p. 796; acc also pp. 785 and 795.

BOOT AND SHOE MAKING.

PERIOD OF HOME WORK.

It was division of labor which first brought women into the boot and shose making industry. The introduction of machinery, indeed, later drove large numbers of them out of the business for a time. Types of machinery were soon evolved, however, which made again profitable a division of labor which could utilize the labor of women, and their restoration to the industry followed.

About 1765 or earlier, side by aids with the development of the wholesale trade in boots and shoes, abooemakers or cordwainers, as they were called, began to hire their follows and to gather them into shops where a rough division of lakow was precticed. Scon afterwards they began to send the uppers out to women to be stiched and bound. From that time until the introduction of the sewing machine the binding of aloces manufactured for the wholesale market was practically a worma's industry, carried on at home. Localities differed largely, however, in the extent of the employment of women. In Massachusetis the shoe binders appear to have been exclusively women as early as 1810, but in Pilidelphia, which was also a large aboo-manufacturing center, the trade remained in the hands of meu until nucli later. A writer in the Pilidelphia Mechanies' Free Frees in 1829 spoke of the employment of women in shoe making as

In general, however, by 1830, and in mary localities earlier, the manufacture of shoes was divided into two parts—the work of the men in small shops and the work of the women in their homes. By 1837 the shoe binders of Lynn not only bound the edging but did all the inside and lighter kinds of sawing.⁸

There were, however, two more or less roughly marked stages in women's work at shee binding. In the first stage the family was the industrial unit, the man shoemaker being assisted by his wife and daughters in the part of the work which they could easily perform the sewing. Even when the shoemaker worked for a "bess" he brought home his materials and turned over the work of binding to the women of the family. Gradually, however, as the business developed, it became customary for the "bess" himself to give out the shoes to be bound directly to the women. The division of labor romained the same, but it was no longer controlled by the shoemaker, but by the "bess." The women, too, instead of having their work and pay lumped with that of the head of the family—instead of being merely helpers without economic standing—now dealt directly with the employer and definitely eatered the industrial field.

^a Mechanics' Free Press, August 8, 1829. ^b Lynn Record, Soptember 13, 1837.

In 1810 the total annual earnings of the female shoe binders of Lynn are said to have reached \$50,000." Twenty years later, however, their total earnings were given as only \$60,000 annually.⁵

As for the number and proportion of 'xomen employed in the industry in these serity years' the first truntworthy figures are for maarly 40 per cent, "ismale hands" were reportworthy figures are for indem municature of boots and above in that Potted. B be engaged in the manufacture of boots and above in that Potted. B but in Jran, as early as 1820, there are said to have been employed in binding and timming shoes some 1,500 women, approximately as many women as mon being engaged in the business.⁴ And during 1831 there were said to have been employed in the manufacture of shoes in Lynn 1,741 males and 1,775 females, at an average wage for both sexes of 41 cents per day. The large proportion of females amployed was accounted for by the fact that no boots accept for ladies and children were manufactured at Lynn.⁴

It must be remembered, in considering these early statistics, that the women employed in binding shoes worked irregularly in the intervals of their household duties and that, as a result, a larger proportion of women to men workers was required, and their actual rate of wages was correspondingly higher than their earnings. Nearly all of the working women in Lynn at this time woreshoe binders. In 1834 the shee-binding business there was used to have "multified almost every other species of famile labor," and it was complained that "it is quite out of the question nowadays for any of the females to live out to do housework."

At Brockton, and other places where men's boots and shoes were made, moreover, women were early taught the art of pegging and were employed in considerable numbers in this work.^A Even after

" Newhall, Contennial Memorial of Lynn, p. 63.

⁴ According to the figures given in the untrustworthy manufacturing common of 1820 there were engaged in the manufacture of boots and shoes in the entire United States 600 none, 160 "boys and girls," and 108 women, or about 9 per cent women. (American State Papers, Pinance, Vol. JV, pp. 20-233, 201-207.) It is probable that the women shoe binders working a how constitute.

6 Statistical Tables Exhibiting the Condition and Products of Cortain Branches of Industry in Massachusetts for the Year Ending April 1, 1837, p. 169 et seq.

Lawis, History of Lynn, pp. 253, 254.

/ Poulacu's Amorican Daily Advertisor, Pobrusty 28, 1832. According to the reports given in the documents relative to the manufactures in the United States, Steenitive Documentin, Twenty-scenario Congress, fitts: associative value of the States, Steenitive Documenting, Twenty-scenario I approx. The States, Theorem 20, 1990. S

@ Essox Tribuno, Lynn (Mass.), January 4, 1834.

A Kingman, History of Brockton, p. 682.

^b Mechanics' Press, Utica, March 13, 1830; Nilos' Register, June 18, 1831.

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shoe-pegging machines were introduced girls operated the smaller machines which did the fine work."

The bootmaking industry in New York in 1845 was described as divided into three branches -minping, fitting, and bottoming. Of these, fitting, which consisted of sewing the boot legs together, putting in the lining and straps, and generally making the boots resuly for bottoming, was generally done by women and children at home, though in some establishments it was said to have been "exclusively attended to by make."^k

Women's wages in the boot and shoe industry during this domestic period of labor were much lower in the cities than in the small shoemanufacturing towns like Lynn. According to the Rev. Ezra Stiles Ely, the wages of women shoe binders in New York and Philadelphia in 1830 were inadequate for their support." And in 1835 the wages of women shoe binders in New York were said to have been, when they were paid the price promised, about 48 cents a day, out of which they were obliged to find silk, thread, and needles, leaving a balance of about 44 cents a day. But many employers, instead of paying 6 shillings" a dozen as promised, paid but 72 cents, "thus plainly pocketing 4 cents on a dollar of that which honestly belonged to the binder."* And in 1853 the binding of children's shoes in New York is said to have been paid for at the rate of two pairs for 3 cents or 18 cents a dozen pairs, and full-size shoes at the rate of 5 cents a pair or 4 shillings 6 pence a dozen. Working from 14 to 17 hours a day, an expert hand could net \$2.40 per week. From this amount the cost of light and fuel was to be deducted. This was said, however, to be higher than the average price paid hundreds of girls and women in New York. A little later it was added that, though the average wages of boot and shoe binders in New York were higher than of tailoresses, there were many who could not earn over \$1.50 per week.

At Lynn, however, the wages of women shoe binders were at first comparatively high. In his Stetchos of Lynn^A Mr. Johnson says that when the "gaiter boot" first came into fushion the price of binding ranged from 17 to 25 cents a pair and "a smart woman could bind four pairs a day, and sometimes even more." In 1833, how-

* New York Daily Tribune, September 5, 1845.

* The Man, June 10, 1835. See Histery of Woraen in Trade Unions, Volume X of this report, p. 44, for an account of a strike for 8 shillings a dozen for binding "coultern slippers," and "other work in proportion."

/ Now York Daily Tribuno, May 27, 1853.

ø Idom, Juno 8, 1853.

& Johnson, Skotches of Lynn, or the Changes of Fifty Years, p. 338.

[&]quot; Workingman's Advocate, December 4, 1875.

[«] Dolaware Free Press, February 27, 1830. Quoted by Mathew Carey in his letter "To the Printer of the Dolaware Advertiser."

[#] A shilling in New York at that time was equal to 124 conts.

ever, the wages of the Lynn shoc binders were being reduced; and early in the noxt year this fact was the cause of a strike. 'One of the chief grounds of complaint, moreover, appears to have been that they were not paid in "ready money" but in orders on dry goods stores.' In 1837 and 1838, however, the wages of women shoc binders in Massachusetts are reported to have been from \$2.60 to \$3.60 per week.*

In 1842, when of the 40,000 women employed in manufacturing industries in Massachusetts, 15,000 were sold to be engaged in the manufactures of shoas, the hariabile to these women if wages were reduced or if they were thrown out of employment was used by the manufactures as one of the arguments for a tariff on shoes and leather goods: "They cannot subsit," said the manufacturers, "if compelied to work in competition with the laboring females of Europe, who receive from 4 to 6 cents per day for their services. Men, when driven from one employment, may seek it in another; and if work can not be had at home, they may go abroad. If it can not be obtained on the land, it may be found on the sea. But it is not so with women. They are fur more depondent and helploss; and when thrown out of employment, are involved in invitable distress and auffering."⁴

THE FACTORY SYSTEM.

With the introduction of the sawing machine scon after 1850; there began a new era—a revolution in the shoemaking business. Previously the only somblance of a factory in the industry was the shop of the "manufacturer" where the material was cut, and from which it was distributed to the shoemakers and binders. As late, moreover, as 1856 an article appeared in a Boston paper which eaid that the factory system vers not needed in the manufacture of boots and shoes, and described the plan under which the work was even then actumsively carried on. The leather, it was said, was cut in central establishments, and then distributed to the shoemakers who carried it home, semetimes many miles, to be made up. Thus the business was widely distributed./

Even the advent of the sewing machine failed to do away entirely with home work. For, as the machines became a demonstrated suc-

J Kingman, History of Brockton, p. 683.

a Lynn Record, January 1, 1834.

b Essox Tribuno, January 4, 1834.

Sixteenth Annual Report of the Massachuseits Bureau of Statistics of Labor, 1885, pp. 270, 272.

[#] Proceedings of the Convention of the Manufacturors, Dealers, and Operatives in the Shoe and Leather Trade in the State of Massachusetts, March 2, 1842, pp. 70, 71.

^{*} The first machine used in Lynn was introduced in 1852, and an expert came from Philadolphia to instruct the first operator, who was a woman. (Johnson, Skotches of Lynn, p. 16.)

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com, they were simplified and reduced in price until they found their way into the household, so that, on certain kinds of goods, the old custom of home work continued on islde by side with the new factory labor of women shoe binders. In 1858 boot and shoe making was said to be still mainly a home industry in Philadelphis, employing about 5,000 men and 2,000 women—the latter, who were hot "fully employed," at an average wage of about \$100 a year. "Since the introduction of swing machines," it was said, "the manufasture of gaiter upper has become a distinct branch, and gives employment to hundreds of females."

The introduction of the sewing machine, however, between 1855 and 1865, caused an almost complete transformation in the boot and shoe making industry. Small "stitching shops" equipped with the new machines were at first opened. In Lynn these shops were sometimes small buildings standing by themselves, but more frequently the manufacturers fitted up rooms in the buildings where the men worked.* In 1864, the Lynn (Mass.) Reporter called attention to "the quiet, steady revolution that is going on in the business of shoemaking, and particularly as that business is conducted in Lynn. Previous to the introduction of the original sewing machines," it said, "which are now universally used for the binding and stitching of the uppers, but little or no improvement or even change had been made in the manufacture of shoes. * * * After a time women's nimble fingers were found inadequate to the demand, and sewing machines soon transformed the old-fashioned 'shoe binder' into a new and more expansive class of 'machine girls' whose capacity for labor was only limited by the capabilities of the machines over which they presided. * * * This was the beginning of the new era." The same article spoke of the rapid progress in the introduction of machinery that had been made within the past year or two, which had made it almost possible to say that hand work had already become the exception and machine work the rule.

The woman did not, however, after the introduction of the factory system, succeed in retaining their work as completely as they had done in the textile industries. The machines were lossy and difficult to operate, esposially the waxed thread seeing machine which was introduced about 18574 and, as a result, were largely operated by man.

The first result of the introduction of machinery in boot and shoe making was, therefore, a decided falling off in the proportion of women employed. In 1850, in the manufacture of boots and shoes, 3.3 per cent of the employees, in 1860 only 33.2 per cent of the

[&]quot; Freedley, Philadelphia and Its Manufactures, 1858, p. 188.

^b Johnson, Skotches of Lynn, or the Changes of Fifty Years, p. 340.

[·] Quoted in Fincher's Trades' Review, March 26, 1864.

d See Twelfth Cenaus, 1900, Manufactures, Part III, Selected Industries, p. 750.

employees, kand in 1870 only 14.1 per cent of the employees were women. By 1900, however, the proportion of women had risen to 33.0 per cent, higher than in 1850, when all "female hands," regardless of age, were included." In 1905, moreover, the proportion of women was a little over 33 per cent.

The decrease in the proportion of women to men engaged in the industry should not, however, be attributed wholly to the displacement of women by men in stitching. Women still to a considerable extent were shoe binders. But the first machines used in the industry were for use exclusively upon the woman's part of the work. It was not until 1860 that the McKay machine caused as great a revolution in the work of the shoemaker as the stitching machine had caused in the work of the binder. The productive power of the binder, therefore, was for a time increased out of all proportion, as previously measured, to the productive power of the shoemaker, who was meanwhile aided only by minor improvements. The number of hands required in binding was accordingly decreased in proportion to the number required in other parts of the work. Similar readjustments have necessarily occurred in many other industries, but few have been made so conspicuous by the division of labor between the sayes

It must be borne in mind, moreover, in considering these figures, that before the introduction of the factory system, which immediately followed that of the sewing machine, the women in the industry were home workers and few of them gave their entire time to binding gives. A larger number, therefore, were required to accomplish a given amount of work than would have been needed under the factory system, even without the aid of machines.

As for the restoration of winnen to their former position of importance in the industry, it has been occasioned by three factors improvements in machinery, which have reduced the amount of muscular strength required; the use of water and steam power, which became general between 1800 and 1870; and the further subdivision of labor. Within recent years women have taken the places of menin operating the lighter mandimes, while children now perform the work that women were doing horetofore.⁴ Subdivision of labor, hewever, as, for example, the splitting up of the process of "healing" into "mailing," "shaving," "labeking," and "polsing," has tended continually to introduce less skilled labor—first of women and then of children.

Another result of the introduction of machinery was, of course, the reduction of the piece rate of wages. In 1862 an "intelligent

[#] See Table XI, p. 253.

^{*} Twalifth Consus, 1009, Manufactures, Part III, Solected Industries, pp. 741, 742: See also, In this connection, Thirteenth Annual Report of the United States Counsissioner of Labor, Hand and Machine Jabor, 1898, YO. I., p. 182.

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shoe binder" informatel Miss Virginia Penny that she did work then for 37 cents for which also had formerly received 75 cents.⁴ The actual earnings of women who worked at home on boots and shoes were probably, indeed, even lower after the introduction of the seving machine than they had been before, owing to competition and consequent unemployment. Miss Aurora Phelps stated before a meeting of working women in Boston in 1809 that, though the one thousand girls working at shoes in that city could, at the current rates, make \$1 to \$1.26 a day, they had to spend so much time waiting for work that they actually made only from 20 to 30 cents & day.⁵ Later she stated that there were women in some shoe manufacturing towns who had to work at rates not exceeding 25 cents a day.⁵

Women home workers in the bot and shoe industry were subject, moreover, not merely to the low wages, but to other will conditions common to the home workers in the clothing industries. In 1886, for example, a woman employed in Boston to make rosettes for shoes at 1 cant each, and who found it impossible to make over 40 in a day, complained that when they were done the commission merohant for whom she worked refused to pay for them. She added that she knew of three other good scanstresses whom he had refused to pay for the same work.⁴ In 1885, too, the subcontract system was introduced among the women who worked on ladies' aligners in Haverhill, One woman under this system would take out all the work and hire girls to make the shoes.⁴ This appears to have been part of the movement toward the "gauge system" of labor, which was at that time gaining the ascendancy throughout the whole shoe manufactrim busines.

In the factories, however, both wages and conditions were better. In 1860, for instance, it was said that the Daughters of St. Crispin in Lynn earned from \$10 to \$10 per week.⁷ And two years later the women also fitters of New York, of whom there were reported to be about 1,500, carned from \$10 to \$18 and were. 322 a week? In Bronklyn, too, where it was said that the fitting shops were conducted entirely by women, who did the principal part of all the fino work on laties', misses', and childran's shose that were mule in New York and Brooklyn, the average wages of the stilelers were given as \$10 per week? But in Jynn in 1876 it was complained that reduc-

⁴ Penny, Think and Act, 1867, p. 32.

^b Workingman's Advocate, May 8, 1869.

American Workman, May 29, 1869.

d Daily Evening Voice, February 10, 1866.

< Idem, March 1, 1865.

[/] American Workman, May 15, 1860.

g Idem, February 11, 1871. Quoted from the New York Star.

A Idem, July 8, 1871.

tions had been made in the wages of stitchers which made it "impossible for them to earn a living." a

In general, it may be said that the boot and shoe industry is the only one of the more important clothing industries in which an industrial cycle has been completed and the women workers have been definitely transferred from the home to the factory. Home work is usually, under modern conditions, the lowest round in woman's industrial ladder, and boot and shoe making under the factory system, though probably not superior as an occupation for women to boot and shoe making under the domestic system as practiced in the smaller shoe towns in the first half of the nineteenth century, is certainly superior to the same industry as practiced in the cities during the same period. As an occupation for women, boot and shoe binding has been rescued by machinery and the factory system from the degradation of the other sewing trades and has been placed upon a level with the textile industries. Wages, indeed, in boot and shoe factories, have been higher, upon the whole, than in cotton mills, and the competition of the foreign born has not been so great as in the textile industries.

• Workingman's Advocate, April 22, 1878. Quoted from the Lynn Record. The women show binder occasionally work on strike to resist reductions in wages, us, for orsample, in Rochester, N. Y., in 1896 (Boston Wockly Vicke, May 31, 1866) and in Stonsham and Lynn, Mase, in 1897 (Third Annual Report ef the Masschauster Bareau of Statistics of Lakor, 1872, pp. 434–437). For other figures relating to the wages of women in the bost and the influtty, area the twenty-witch, ivenity-wowth, tistics of Lakor, and the Ninsteamth Annual Report of the United States Commissioner of Lakor.

CHAPTER IV.

DOMESTIC AND PERSONAL SERVICE.

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DOMESTIC AND PERSONAL SERVICE.

The occupations included under the term "domestic and personal service," though not properly industrial in character, have been of such importance as gainful pursuits for women, and have served so constantly as complementary to the industrial employments, that they deserve consideration in any history of women in industry. Women were probably "hired out" before they engaged in any handicraft, even the manufacture of textiles and clothing, for consumption outside of the family; that is, for pay. From the beginning of history, too, the opportunity to "hire out" has continually confronted the working woman and continually she has been admonished, when she complained that her conditions of work were hard and her pay inadequate, to betake herself to the kitchen, where the need for labor has always been loudly proclaimed. It is, then, of interest to trace, at least roughly, the history of women in domestic and personal service in order to see, if possible, how this group of open occupations has influenced her employment in the industrial field.

In the first place, it is interesting to observe that the group of occupations included in the consum under "domestic and personal service" has materially decreased in importance so far as the employment of women is concerned since 1870, when the first statistics upon the subject were cellected. In 1870, according to Table XII (page 264), women constituted 41.8 per cent, and in 1900 only 35 per cent of all the persons engaged in domestic and personal service.

SERVANTS AND WAITRESSES.

Few changes have been made in domestic service as an occupation for women. The great mass of servants and waiters have always been and still are women. Of the applicants for employment to the Society for the Encouragement of Paithful Domestic Servants in New York between 1826 and 1820, 1,0360 were white nulse, 661 colored males, 7,630 white females, and 916 colored females.² About 83 per cent, then, were females. Though changes in classification have seriously affected the census figures on this point, Fable XII shows that within

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[&]quot; Poulson's American Daily Advertiser, May 23, 1829. 40450°-S. Doc. 045, 61-2-vol 9-12

recent years there has been a tendency for the propertion of women servants and waitresses to the total number of persons engaged in these occupations to decrease. The occupations of servants and waitresses have also tended to become of diminishing importance to women as compared with other pursuits. Table VI (page 247) shows that, while in 1890, 30.9 per cent of all the female breadwinners 15 years of age and over were servants and waitresses, in 1900 the percentage was only 24.2. Nevertheless, the fact that nearly one-fourth of all the women workers belonged, even in 1900, to this group of occupations, shows its great numerical importance.

The nationality of domestic servants, it is true, has changed considerably. It is probable, however, that new immigrants have always furnished the largest proportion of servants. At first, the great mass of these immigrants were English and Scotch, then Irish, later Germans, and still later Scandinavians. Between 1826 and 1830, of the applicants for employment to the New York Society for the Encouragement of Faithful Domestics, 3,601 were Americans, 8,346 Irish. 642 English, 2,574 colored, and 377 foreigners from various countries.ª Nevertheless, one newspaper about 1830 remarked that "there is no class of persons in such demand in this country as good cooks, waiters, and chambermaids" and regretted that "among the motley emigration from Europe * * * there are not more servants well instructed." "Their wages," it added, "in New York, Boston, and Philadelphia, is at least double what they could obtain in any part of England, and four times the wages given in Scotland or Ireland." In 1845, again, the New York Tribune estimated that of the 10,000 to 12,000 girls and women engaged in various forms of domestic labor in that eity from 7,000 to 8,000 were Irish, about 2,000 German, and the rest American, French, etc." It is evident that the great preponderance of foreigners in domestic service within recent years is no new phenomenon.

The conditions of labor of domestic servants have obarged but little. In colonial days, it is true, girls were frequently approximately until of age or married, to domestic service. Usually the indenture in auch cases was silent upon the subjects site was to be taught, but occasionally it was specified that she should be taught "the trade, art, or mystery of spinning woolen and linen," and sometimes kniiting and sewing. This indicates probably the greatest change which has occurred in the character of work performed by women servants. Their duties have become less of a manufacturing character and more purely personal. In colonial times a servant who was a good spinnor

^a Derived from figures given in Ponlson's American Daily Advortisor, May 23, 1829, and the New York Mercury, May 12, 1830.

b Caray's Soloct Excorpta, vol. 4, p. 332.

[&]quot;Now York Daily Tribuno, November 6, 1845.

was greatly prized and paid comparatively high wages, and a large part of the time of domestic servants was spent in manufacturing occupations of one kind or another. Gradually even sewing has been, in the great majority of cases, dropped from the list of duties of the domestic servant, and baking is now in a large and increasing proportion of families turned over to the professional baker. Such industries, too, as the manufactures of scap and the brewing of liquors have gradually been dropped from the duties of the iomestic servant. The canning and preserving of fruits, vegetables, meat, and fah, too, are rapidly falling out of the range of domestic service.

Meanwhile, though there are no statistics to measure the change, it is probable that an increasingly large proportion of the women classified as "servants and waitresses" have been employed in the latter capacity under conditions quite different from those of the dometic servant. The waitress usually has fixed hours of labor and frequently, if not usually, runts her own room and gees out to her work just as does the saleswaman or clerk.⁴

The wages of domestic aervants have increased in proportion to the increase of the opportunities opened to women for employment in other occupations. In 1820 a writer in the Mechanics' Free Frees stated that for a period of at least thirty years the wages of female domestics had remained practically stationary, but that they had profiled somewhat by the fall in prices which occurred during that profiled somewhat by the fall in prices which occurred during that profiled is new England, however, the opening of the octoon factories, especially those at Lowell, had caused a decided increase in the wages of women domestics. Wages in New England, which had averaged about 70 cents a week in 1808 and 50 cents in 1316," ranged from \$1.25 to \$1.60 a week in 1840.⁴ In New York the usual wages, which appear to have been between \$4 and \$6 month in 1826," were said to have been about \$0 a month in 1835.⁴ In Pottaville, Pa., the wages of worth trish in 1830 wore \$1 a week, and wome who could

In New York City in 1851 there were said to be a number of places where girls canded have. (Hums, Life far New York, 1861). And in 1868 wattresse in solons in New York are said to have received \$3 a work and what they could make, mounting in all to however efforts and \$20 a week. (The Revolution, Oct. 8, 1868). Power women, probably, are now employed as waltresse in solona than in the earlier years.

^b Mechanics' Free Press, October 17 and November 7, 1829.

eSister, and Annuels Report of the Massechneuter largeneau of Batakies and Annuels Report and Antona Antona

d Aiken, Labor and Wages, p. 29.

«Workingman's Advocate, January 9, 1830. Quoted from the Christian Register, May 6, 1820.

/ The Man, June 24, 1835,

clean house and wash clothes could readily obtain 50 cents a $(a_3)^{a}$ A writer in the Delaware Advertiser in 1830 stated that a servant in his family received 75 cents a week, or 339 a year, which, he said, was almost the lowest wages over paid for housework.⁹ Domestic servants, he added, were serve.

On the other hand, it appears from the testimony of competent persons that in New York, at least, the supply of domestic servants about this time was actually greater than the demand. In the "Address to the Public," issued by the Philadelphia Society for the Encouragement of Faithful Domestic Servants at the time of its organization, and signed by Mathew Carey and seven others, it was naïvely said of the New York society : "But it appears that the society has so much improved the standing of this class that domestics with good characters (no others are allowed to be registered on the books), are more numerous than the demand for them requires; as it appears there were above 1,300 more applications of domestics than for them in the year 1828-29." And in 1846 Horace Greeley stated in an editorial in the New York Tribune that household service in New York was nearly as much overdone as other lines of women's work. He estimated that not less than a thousand women willing to do housework were looking for places in that city. At the same time he acknowledged that American girls were unwilling to engage in domestic service, but thought them justified. "Yet when Yankee girls," he said, "nine-tenths prefer to encounter the stunning din, the imperfect ventilation, monotonous labor, and excessive hours of a cotton factory in preference to doing housework, he sure the latter is not yet what it should be."d

Which er or not there was a scarcity of domestic servants, the ir wages rosa. In 1845 the wages of domestic servants in New York were said to be from 34 to 310 per month, and in 1871 from 310 to \$1.4. In the latter year hotel chambernaids in New York, of whom there were said to be about 1,000, armed from 30 to 311; hotel waitresses, of whom there were about 1,000, from \$11 to \$16; and hotel cooks, of whom there were about 3,000, from \$12 to \$50 per month and board.

 γ (Lem. In 1833 the waiters at the Manadon Hossen in New York City words on stilke for \$18 per month instead of \$15, writen they in the hear receiving. The proprietor to pay the advance "to all of them, that remained after the 1st of May." But on that day they were all distained, and their place in keep May is "12 going gifts, nearly a direct," who. "year, through with their durits in a manner highly placeting to the manner." (New York Did) Thilding May 3, 18633.

[&]quot; United States Gazolio, August 10, 1830.

^b Quoted in Dolaware Free Press, February 27, 1830.

[&]quot; Poulson's American Daily Advertisor, May 23, 1829.

^d New York Weekly Tribune, September 16, 1846.

< Idem, November 6, 1845.

[/]American Workman, Fobruary 11, 1871. Quoted from the New York Star.

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The domestic-servant problem, like many other labor problems, is not as new as is often supposed. Some eighty years ago societies were formed in New York, Philadelphia, and Boston "for the encouragement of faithful domestic servants." The work of these societies was of two kinds, the provision of an employment office for domestic servants, and the awarding of prizes to servants who remained the longest time in one situation. The New York york you have a servant and the awarding of prizes to servants and the second 33, and a dollar additional for each succeeding year until the seventh, when the sum was raised to \$10. The employeers had the privilege of entering servants' names for these prizes." The employment follie of the society sent servants only to subscribers, and received applications only from servants who could produce satisfactory recommendations.

The unrepublican attitude of these "societies for the encouragement of fulthful domestic servards" coused, naturally, considerable criticism. A writer in the Christian Inquirer of May 6, 1826, speaking of the New York society's "friendly advice to servants," issued apparently on the occasion of its first anniversary, remarked that "the advice seems better calculated for the meridian of London than that of New York." "The society" is easid, "apport to think that there is a certain species of mankind, born for the use of the remainder; and they take to improving them as they would a breed of hormed catle." Its noted, with unfavorable comments, the following pieces of advice:

Never quit a place, on your own accord, except on such account, that in distress, or death, you think you did right.

Bo moderate in your wages; many very good phaces are lost by asking too much.

If you can not pray as well as you would, be sure every night and morning to do it as well as you can.

Rise early, and your services will give more satisfaction.

Be modest and quiet, and not talkative and presuming.

Don't spend any part of the Sabbath in idleness, or walking about for pleasure.

Watch against daintiness.

Be always employed, for Satan finds some mischief still for idle hands to do.

"The Philadelphia sociaty was enganized in 1829 nut issued monthly reports as lates as 1838 (Probasi's hardress Daily Advertises, Apr. 7, 1832). Other supply-mont offices existed at this fina, but they were apparently no more honesity conducted than these of the present (eds, and compliant) was determined or finan. I was prove from Pros. Pros.

^b Second Annual Report of the Managers of the Society for the Encouragement of Faithful Domestic Servants in New York, pp. 1, 2.

"Quoted in Workingman's Advocate, January 9, 1830.

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Keep your temper and tongue under government; never give your employer a sharp answer, nor be in haste to excuse yourself.

Leave every place respectfully; it is your duty.

The "friendly advice," he said, also recommended certain passages from the Bible, exhorting servants to be obedient to their masters, and he gave the quotations. "All the foregoing passages," he added, "are evidently addressed to slaves, bondmen, and women, as Paul says, servants under the voke." There seems, indeed, to have been ground for his assertion that the duties inculcated in the "friendly advice" were "too much on one side, tending more to the advantage of the hirer than the hired." . At the time of the formation of the Philadelphia society a writer in the Mechanics' Free Press gently suggested that a society to encourage "faithful employers" would be more likely to attain the desired end. "There is quite as much propriety." he said, "that those who employ should produce certificates of capacity, correctness, etc., as those who are employed. * * * From an experience of near 20 years as an employer, I am led to conclude there is in this country less to be complained of on the part of the employer than the employed."b

Complaint, lowever, was frequently made that, while the women ware bemoaning their poor warge in clairs compationa, they refused to become domestic servants. ""The taits," said the Boston Post in 1847, "about the low warges of foundas in Boston is all gammon—girla can have good warges if they will labor—it is next to impossible to hire compotent and faithful foundas to do household work here at any warges, and if, by chance, you obtain one of this description, sho is so indifferent about performing her daties in a manuer agreeable to the wishes of her employer, and as unreasonable in her requirements and arbitrary in defining her own particular line of work, that it is impossible to about to her execution long."

In 1887 even the New York Working Women's Protective Union urged gits to 'forsake unremunentive emphysement and accept positions in families,' and boasted that upward of 50 had been induced to take this course.' That more did not do so was attributed by the New York 'fines to the 'ficke pride which will not pormit them to serve a mistress, but keeps them alaves to masters.''s In 1870, too, it '' Montana Immigrant Association'' was urging the unemployed women of the cities to go West, where good housekoopsets could commant \$75 to \$100, and kitchen help from \$50 to \$75 a moth.'

"Quoted in Workingman's Advocate, January 9, 1830.

6 Mechanics' Free Press, January 9, 1830.

«Quoted in the Harbinger, April 10, 1847.

⁴ Daily Evening Voice, March 2, 1867. From Fourth Annual Report of the New York Working Women's Protective Union.

" Quoted in the Revolution, July 23, 1868.

/ The Revolution, June 9, 1870.

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It has already been seen that a number of writers, including Samuel Whitcomb and Horace Greeley, considered the position of a domestic servant unenviable. In 1869, too, the same complaints that are heard to-day were made of domestic service as an occupation for women. The girls, it was said, had no time to call their own, and were obliged to work 7 days a week and from 12 to 15 hours a day on the average. The kitchens were dark and unventilated and the servants' sleeping rooms cheerless, etc.ª And in 1870, when the Boston Working Women's Association took up for discussion the subject of domestic service, it was concluded that the lack of social position and independence was at the root of the problem. "When work in the kitchen was made as honorable as music teaching," asserted one speaker, " and the domestic treated as respectfully as the music teacher, there would be no lack of girls who would go to service." Miss Jennie Collins complained that "if a girl goes into the kitchen she is sneered at and called the Bridget: but if she goes behind the counter she is escorted by gentlemen to the theater, dined, and called a lady." "The reason girls don't live in private families," she said, "is because they lose their independence there. They can't go out and buy a spool of thread until their appointed afternoon or evening comes around for it. When mistresses learn to treat their girls as human beings. they can get enough of them.""

LAUNDRESSES.

Taumdry work, though a declining occupation for women, "c has alwaya been one of emsiderable importance. Unfortuntally statistics upon the subject date back only to 1870, when steam laundries had already for fifteen or twenty years been in operation. It seems probable, hewever, that before the advent of the steam laundry and the Chinese laundrymum this industry was entirely in the lands of women, and that these two factors have combined to reduce the proportion of women from 91.6 per cent in 1870 to 86.3 per cent in 1900. But, though a slight displacement of women by men has taken place owing to the introduction of laundry machinery, the steam laundry has nover more than partially superseded hand work, and in this women have always held their own.

As early as 1851 it was complained that capital had entered into competition with the washerwomen of New York, and that "its hundred arms are eagerly catching at avery dirty shirt in the city."⁴ Extensive laundries, it was said, had recently been established. Prob-

The Revolution, August 12, 1869.
 Idom, February 10, 1870.
 See Tables VI and XII, pp. 247, 254.
 Huma, Idia in New York, 1851.

ably these were steam laundries. By 1853, at any rate, steam-laundry machinery was in operation at one of the big New York hotels. and it was said at that time that the plan of cleaning clothes by steam was not new. "One man and three women," said the account, "do all the washing for this hotel, amounting to from 3,000 to 5,000 pieces a day, and their labor is not half as severe as that of a woman who rubs the dirt out of two or three dozen pieces upon her hands or the washboards.ª

The wages of laundresses, however, have been low. In Philadelphin in 1829 as low as 20 or 25 cents per dozen is said to have been paid women for washing and rough drying.^b And in 1833 the Rev. Mr. Dupuy, of Philadelphia, wrote Mathew Carey that he knew of a case of a woman who received \$10 per quarter for washing, and frequently washed 8 dozen clothes per week, she finding soap, starch, fuel, etc. This was at the rate of about 10 cents per dozen." Laundresses in New York in 1851, however, are said to have received "6 shillings a dozen with buttons replaced."4 and in 1866 the washerwomen of Brooklyn went on strike, according to a contemporary labor paper, for \$1.25 instead of \$1 per day." In Boston in 1869, moreover, washerwomen were receiving 15 cents an hour./ In the same year the laundresses of San Francisco, who were said two years earlier to have received from \$30 to \$40 per month," began to protest against the competition of the Chinese.^A

The wages of women workers in steam laundries have generally been lower and their conditions of labor much worse than those of independent laundresses, for the work in steam laundries is more monotonous and consequently more exhausting and the hours are usually longor. During the sixtics, however, the laundry workers of Troy, N. Y., are said to have raised their wages from \$2 or \$3 to \$8 and \$14 a wook. But their hours appear to have been, throughout the period, 12 or 14 a day.

* Boston Weekly Volco, September 20, 1866.

/ American Workman, May 1, 1869. Testimony before legislative committee on houns of labor. According to another statement their wages were 124 conts an hour and in some cases they washed all day for 50 or 60 conts. (Workingman's Advocate, May 8, 1869.)

ø Boston Weekly Volce, April 18, 1807.

^b Worklugman's Advocate, November 27, 1869.

The American Workman, August 7, 1369. See also History of Women in Trade Unions, Vol. X of this report, pp. 106, 107.

[&]quot;The Una, Providence, R. I., August 1, 1853.

^b Caroy's Miscellaneous Essays, p. 208. "Report on Fomale Wages," March 25, 1829. "Carey, Appeal to the Wealthy of the Land, third edition, p. 4.

d Burns, Life in New York, 1851.

OHAPTER IV .- DOMESTIC AND PERSONAL SERVICE. 185

MISCELLANEOUS OCCUPATIONS IN DOMESTIC AND PERSONAL SERVICE.

Of the history of women's work in the other occupations included under the general term 'domestic and present a service' illule can be said. Nursing, for which \$2 per week was paid in Massachusetts in 1825,⁶ and of which a woman nurse complained at a mosting of working women in New York in 1868 that, while she received \$3 and \$2 a day for her services, men nurses were paid \$3 to \$6 a day for the same work,⁶ has now become a well-paid profession.

A number of other occupations included in this group, such as boarding and lodging house keeping, are practically independent bisinesses. It is interesting to note, however, that keeping tavoras and aven shops was one of the carliest women's occupations in this country. The women engaged in other occupations in this group, as in hairdressing, are in part independent entrepreneurs and in part wage-workers.⁴

The women included under "Laborers, not specified," however, are for the most part scrubbing and charwomen, and women who go out by the day for any and every kind of work. These women are usually untrained and unskilled even at needlowork-merely day laborers, more or less casual. Many such women were thrown upon their own resources at the time of the Civil War, and one of them, who applied in vain for work to the New York Working Women's Protective Union, finally, said the report of that organization, went out upon the streets to shovel anow, at which she was fairly successful.4 The wages of these women have always been low. In 1869 the scrubbing and charwomen of Boston were said to receive only from 30 to 40 cents a day." According to another statement, however, many of this class of laborers received 124 cents an hour I and it is probable that their wages have always been higher, upon the whole, than those of the lowest class of sowing women, while they have doubtless been quite as regularly employed.

"Sixteenth Annual Report of the Massachusetta Bureau of Statistics of Labor, 1885, p. 253.

"The Revolution, October 1, 1868.

Shirloy Dare interviewed one haltdressor in New York in 1870 who received \$5.50
 a week for 10 hours a day labor. (New York Trihune, Feb. 20, 1870.)

d Daily Evening Voice, March 2, 1867. From Fourth Annual Report of the New York Working Women's Protective Union.

*American Workman, May 1, 1869. Testimony of Miss Pholps before logislative committee on hours of labor.

f Workingman's Advocate, May 8, 1869.

CHAPTER V.

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FOOD AND KINDRED PRODUCTS.

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FOOD AND KINDRED PRODUCTS.

The preparation of food and drink is certainly not a new occupation for women, and there can hardly be here any question of their displacing men. Indeed, in the manufacture of foods and beverages for sale men have displaced women, who produced merely for home consumption. Men rarely, for example, make bread for the use of their own families. They leave that to the women. But most of the bread baked for sale-baker's bread-is and always has been made by men. The tendency, however, as shown in Table XIII (page 255). is decidedly toward the increased employment of women in the manufacture of "bread and other bakery products." the proportion of women to all employees having increased from 5.6 per cent in 1850 to 17.3 per cent in 1900. This same tendency is even more marked in the entire group of occupations included under "food and kindred products," the proportion of women employees having increased from 2.5 per cent in 1850 to 20.8 per cent in 1900 and to 22.5 per cent in 1905." In the manufacture of "liquors and beverages," too. where the proportion of women is, however, very small, only 1.7 per cent in 1900, there has also been an increase from 0.8 per cent in 1850. There is, then, a tendency for women to reassume in the wholesale food manufacture their traditional occupations as food and bevorage proparers, an economic function which they have never relinquished in the home, where by far the largest amount of food consumed has doubtless always been prepared. The movement means merely that women are, after some delay and even yet haltingly, following another of their traditional occupations out of the home into the shop and factory.

The largest number of women engaged in any single industry of this group is found in the caming and preserving of fruits and vegetables, a business which began upon a considerable scale with the introduction, between 1840 and 1850, of methods of hermedically scaling cans, and was given a great impostue by the California gold forcer and the civil war. Women were doubless supployed in this industry, and also in the camining of fails and oysters, from the begin-

Derived from Special Reports of the Census Office, Manufactures, 1905, Part I, p. 28, 189

ning. In the causing of fruits and vegetables, howaver, the proportion of women to all employees appears to have slightly decreased since 1870, but to have increased since 1890. The proparation and cauning of pickles, preserves, and sauces for sale has been, since arry colonial times, a favorito scoupation for women-tail the early times as an independent undertaking and more recently as wage alphar. In this occupation the preportion of women to all anyleynes appears to have increased somewhat since 1860, but to have fallen off in 1870 and 1880." In meat packing a few women were employed in 1860 and 1860 and a much larger number and proportion in 1870, perhaps awing to the addition to the business of an making. Not until after the Chicago active of 1964 were women employed in the attual handling of the meat—in the assage department in the Chicago stock yards. This is not their only occupation.

Many of the women employed in the canning industries, and most of those in meat packing, are engaged in tending and feeding the automatic machinery for making cans and in painting, labeling, and wrapping the cans after they are filled. The cans were originally made by tinners and their manufacture was a man's trade. But with the introduction of machinery, which became a factor in the business in the early eightics, women were introduced. Part of the machinery, indeed, appears almost from the first to have been operated by women and gradually, as it has been improved, their employment has increased until now nearly every operation is carried on by a machine tonded by a woman.⁶ As early as 1888 a large number of girls were employed in the Chicago stock yards in painting and labeling cans. In some establishments they were paid, it was said. \$5 a week, but were expected to paint at least 1,500 cans per day of 9 hours. Little girls scoured cans, too, for \$3 a week. In other establishments they were paid by the piece, at the rate of 5 cents a hundred cans. Some girls were said to handle as many as 2,500 cans a day, earning \$7.50 a week. At Armour's packing house girls were paid from 3 cents to 5 cents per hundred for labeling and japanning cans, earning \$6 to \$9 a week."

² The mast largest number of women are employed in the manufacture of confectionery, in which the proportion of women employees has increased enormously, from 10.0 per cent in 1860 to 47.2 per cent in 1900. The percentage, however, was the same in 1860 as in 1860. The increase has therefore all courtered since 1860, and

⁴The tondency within recent years has been to make the manufacture of came a distinct industry, not carried on in connection wills the actual canning of the feeds. (Zwelith Census, 1000, Manufactures, Part III, Solected Industries, p. 464.)

"McEnnis, White Slaves of Free America, 1888, pp. 70, 71.

[&]quot; See Table XIII, p. 255: The fall in 1870 and 1880 is at least in part accounted for by the fact that in 1859 all "Iomales employed," regardless of age, were included.

was greatest between 1880 and 1890.⁴ The wages of women in this compation have always been low and their hours long. "Confectionery gris," said Virginia Penny in 1870, "in some of the best establishments in New York, spend 17, and some even 18 hours, attending to their duties, and receive only \$2, and board and washing, \$4.50, equal to 2,4 cents an hour."

In many of the industries included in this group the displacement of vomen by men is obvious. In colonia days, for example, brewing was an industry which belonged to the women of the household. In general, families manufactured their own beer, as well as their own bread, and peach brandy was a household manufacture of considerable value. More or less of it was regularly exported.⁴ In 1850 only 0.5 per cent and in 1900 only 1.3 per cent of the employees angaged in making malt liquors were women. In cheese, butter, and condensed-milk making, too, men have obviously displaced women. The dairy maid is no longer. From 1870 to 1900 the proportion of women employees in this subgroup of industries decreased from 2.7.8 per cent to 8.1 per cent.⁴ In the reasting and grinding of coffee and spices, however, the proportion of women has increased from 3.1 per cent in 1850 to 44 per cent in 1900.⁴

^b Penny, How Women Cau Make Money, 1870, p. xili. For the wages of women bakers and confectioners from 1871 to 1891 see the Twenty-sixth Annual Report of the Massachumentia Bureau of Statistics of Labor, 1805, pp. 445-447.

c Bishop, History of American Manufactures, 1868 edition, Vol. I, p. 264.

⁴⁷ In 1866 the choese factories of New York, according to the state consus returns, employed 713 men and 794 women. (Consus of the State of New York for 1885, Alhany, 1867.)

* See Table XIII, pp. 255, 256, for the statistics of these and other industries included under "food and kindred products" and "liquore and boverages."

[&]quot;See Table XIII, p. 255.

CHAPTER VI.

OTHER MANUFACTURING INDUSTRIES.

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OTHER MANUFACTURING INDUSTRZES.

The presence of women workers in the industries already mentioned is not, breadly speaking, evidence of any invasion by them of man's sphere of employment or any restriction by them of man's opportunities. From time innuemorial women have been engaged in spinning, worving; sewing, domestic service, and the preparation of food and drink. The revolution in these occupations has been in the industries themselves, and has consisted primarily in their, transfer from the home to the factory, and in the growth of a large scale wholesale manufacture dependent upon commerce and the trade and transportation industries. No such revolution has occurred in domestic and personal service, but the other industries already considered have been transformed, and with this transformation have come great changes in their conditions of labor.

There are, however, still other industries in which the presence of women can not be accounted for upon ateh a principle of division of labor between the sexes, and the most important of such industries, from the point of view of woman's work, are the subject of this chapter. In any history of industries, regardless of the sex of the employees, the occupations here considered would have to be nucmore actensively tracked, for they employed in 1005 about 77 per cent of all the men engaged in manufacturing industries. Comparatively feav women, however, less than 30 per cent of all these engaged in manufacturing industries, were employed in other occupations than the manufacture of textiles, clothing, and food, liquors, and kindred products.

TOBACCO AND CIGAR FACTORY OPERATIVES.

STATISTICS.

Women have always been employed in considerable numbers in the manufacture of tobacco. In 1820, in all the establishments from which returns were received, there were employed 647 men, 167 women, and 586 "boys and girks," a or 11.9 per cent adult

^a These figures are derived from these given in American State Papers, Finance, Vol. IV, pp. 29-223, and are doubless based on very incomplete returns. The age division used is not there specified, and no distinction is made between beys and girls.

women. The proportion of women employed has, moreover, steadily increased. Women formed 13.9 per cent in 1850, as against 11.9 per cent in 1820, of all the employees engaged in the manufacture of tobacco; 13.9 per cent in 1860; 16.8 per cent in 1870; 23.4 per cent in 1880; 29.7 per cent in 1860; 27.5 per cent in 1980; and 41.7 per cent in 1905.* Within recent yaars, however, the displacement has been rather of children than of men.

Of the different branches of tobacco manufacture, Table XIV shows that the proportion of women engaged in the manufacture of "tobacco: eigars and eigarettes," has always been considerably smaller than in the manufacture of "tobacco: chewing, smoking, and sunff," and smaller in every year, except 1800, than in "tobacco: stemming and relamilting." The reason for this is that machinery has been employed to a far greater extent in the manufacture of "tobacco: chewing smoking, and sunff," and has made it possible to employ unskilled labor? Even of the women classified as engaged in the manufacture of cigars, a large number, and herhaps the majority, are employed in the preliminary process of "stripping" the tobacce leaves.

The largest total number of women, however, has recently been employed in the manufacture of "tobacco: cigare and cigarettee" in which in 1860 only 731 women were capaged, as compared with 2,000 women in the manufacture of "tobacco: chowing, smoking, and smiff." By 1870, however, the number of women cigar and cigarente makers had risen to 2,034 as against 4,860 women in the durber division, by 1880 to 0,910 as a against 10,776 in the other division, and in 1800 it jumped to 24,214, while the number in the other division slightly decreased. Though the proportion of women has, on the whole, increased in every branch of tobacco manufacture, the greatest, change has avidently been in the manufacture of cigars and cigarettes.

The change shown by these statistics, however, is not the only one which has taken phase. Gave making was, in the beginning of the industry in this country, carried on by women as a household manufacture. This first domestic eigras are said to have been made in 1801 by a Connecticut woman,⁴ and in the oarly years of the contry nearly the whole of the Connecticut tobacce crop was "worked into eigras by the founds mombers of the family of the

[•] See Table XIV, p. 256. It must be remembered that the figures for 1850 and 1860 are for all "femala bands" regardless of ago, and that these for 1905 (derived from Special Reports of the Consus Office, Manufactures, 1905, Part I, p. 58), refer only to establishments conducted under the "factory system."

^b Jacobstein, "The Tobacco Industry in the United States," Columbia University Studies, vol. 26, No. 3, pp. 140, 141.

Abbott, Women in Industry, p. 190,

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grower."^a The manufacture of cigars by the families of tobacco growers has never, indeed, wholly ceased, at least in Pennsylvania. But these cigars were inferior in quality and finish to the imported and factory-made product, and the manufacture of cigars on farms early gave way before the skill of immigrants who made a better quality of product at less cost in city tanemats.

Women, however, long before the introduction of the mold, had, to a certain extent, followed the industry into the factory. As early as 1810 there was an establishment at West Suffield, Conn. which employed 12 or 15 females in making cigars. Later the same establishment employed men also, but at first women only were employed.^b In 1830, too, a cigar factory at Newburyport, Mass., employed "females only, from 30 to 40, many of them under 15 years of age," . And in 1832 there were employed in 11 tobacco and cigar factories in Massachusetts 238 women, 50 men, and 9 children.ª In 1835, too, the women eight makers employed in Philadelphia were invited to go on strike with the mon and the latter stated that "the present low wages hitherto received by the females engaged in eigar making is far below a fair compensation for the labor rendered." . It was estimated in 1856 that one-third of the persons employed at the trade in Connecticut were women, I and a decade earlier there was said to have been a eigar factory in Cuba which employed 10,000 girls, all Indians and Malays.

During the last half of the nineteenth century the propertion of women to the total number of employees engaged in the manufacture of "lobacco: eigurs and eignrettes" increased rapidly. In 1860 they constituted only 9.1 per cent and in 1870 only 10.7 per cent of the total number of employees. Educeon 1870 and 1880 began the great increase, which has continued until, in 1905, 42.2 per cent of all the amployees in the industry were women.^A Although an uncertain number of these women were employed as strippers, it is avident that women have displaced men as eight makers, just as men earlier displaced women.

. * Trumbull, Memorial History of Bartlord County, Connecticut, Vol. 1, p. 218.

^b Idem, pp. 219, 220.

e Mechanice' Press, Utica, March 20, 1830. Q toted from the Newburyport Herald. d Documents Relative to the Manufactures in the United States, EveryIty Dagments, Twenty-second Congress, first session, Vol. 1, pp. 221, 241, 257, 251, 257, 323, 401.

* Proceedings of the Government and Citizons of Philadolphia on the Reduction of the Hours of Labor and Increase of Wages, Hoston, 1835, p. 9.

/ United States Tobacco Journal, 1900, special contury edition, p. 34.

e Voice of Industry, September 11, 1846.

A See Table XIV, p. 256. The figures for 1905 are derived from Special Reports of the Census Office, Manufactures, 1905, Part I, p. 58.

CAUSES OF EMPLOYMENT OF WOMEN CIGAR MAKERS.

The causes of this movement were the character of the industry, immigration, the introduction of machinery, and strikes among men eigar makers. The work of a eigar makers is light and the skill required is only a certain manual dexterity, at which women easily excel. Gigar making, indeed, has always been in European countries a recognized occupation of women, and in countries where a government monopoly has existed has been almost exclusively woman's work.

In the same year that the molds were introduced from Germany-1869-thousands of Bohemian women cigar makers began to come to New York as the result of the war of 1866 between Prussia and Austria, during which the invading armies destroyed the cigar factories of Bohemia." Before the big strike of 1877 more than half of the cigar makers in New York City were said to have been women, who worked crowded together in large factories, filthy tenement houses, and small shops." Women, too, must have been employed in cigar factories in other places during this period, for in 1864 there were enough women cigar makers in Providence, R. I., to form an independent union." It is not probable that these were home workers. In Philadelphia, where it was said in 1870 that more women were employed at eigar making than in New York, many Americans were employed, but in New York most of the women cigar makers were foreigners.ª In 1871 it was said that 25 or 30 women cigar makers were employed in Boston, and that a hundred or more were working in Philadelphia, though only in one department of the trade and on a cheap grade of work." In the same year it was said that a woman manufactured all the cigars smoked at Sheboygan, Wis.

The use of the mold, which began about 1869, made it possible to employ unskilled women. As early as 1858, machines had been tried, but, it was reported, had "not as yet been found to work well." A humber of unsuccessful machines, indeed, were tried

^a Cigar Mukers' Official Journal, June 10, 1878. Industrial Commission Report, Vol. XV, p. 507.

5 Idem, October 15, 1877.

" Fincher's Trades' Review, October 8, 1864.

eP neury, How Wannes Can Mako Moary, 1870, pp. 442–444, These historical isotron account for he large propertion of married womme engaged in the manufacture of cigars. The Holomian women have little projubiles against working after marriage. Moreover, women are held in the industry after marriage by the fact that, wages are higher in this occupation than is most of the mechanical branches open to women.

American Workman, September 30, 1871.

/ The Revolution, May 25, 1871.

Freedley, Philadelphia and Its Manufactures, 1858, p. 389.

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during this period. The intermal-revenue tax which went into effect in 1862, however, hastened the introduction of the factory system into an industry previously an independent trade, and aided the movement for the use of machinery, which in turn still further increased the tondency toward consolidation.³⁸ With the introduction of the mold comparatively unskilled labor was brought into the trade, and soon women formed the majority in establishments where molds were used.³ It was in New York that women were first introduced in large numbers. There, too, the division of labor was first begun—the practice of rolling and filler breaking being such made a particular branch of the trade. By 1878, too, the stripping and bunch machines were used by some establishments in New York.⁴ The suction table and machines for stripping and booking were introduced about the same time.

The decade from 1880 to 1890 saw the rapid introduction of muchinery, the growth of the factory system of industry, and the transphaning of women eiger makers from the tenements to the factories. By 1896 it was said that hand work had almost entirely disapposted.⁴ And more recently the United States Bureau of Labor reported that in many factories "only women and girls are employed on the bunch-making machines and suction tables, and the number of fomales is as high as 80 per cent of the total number of enanoyees.⁴

Stirkes, too, havo played an important part. In 1860, for instance, a stirke in Gneminati excited in the introduction of molting machines and women operatives.^J But in 1877 another strike in the same city resulted in the removal of women from the shops. Two years later, however, it was said that there were from 300 to 500 women omployed in cigar making in Cheinnati.^P In 1879 a strike in St. Jouis caused the introduction of girls.^A A number of strikes, too, occurred about this time against the employment of women, but soon the union learned its lesson and accepted them as members.⁴

The big strike of 1877 in New York caused a considerable amount of substitution of women for men, and also of American for Bohemian

/ First Arimual Report, Ohio Bureau of Labor Statistics, 1877, p. 201; Cigar Makers' Official Journal, May 10, 1878.

e Chear Makers' Official Journal, January 10, 1879.

A Idem, October 10, 1879.

4 See History of Women in Trade v nions, Volume X of this report, pp. 92-94.

[&]quot;Cigar Makers' Official Journal, May 10, 1878. From First Annual Report of the Ohio Burcan of Labor Statistics, 1877, p. 190.

⁶ Id em, February 10, 1878.

⁺ Idem, March 10, 1878.

aldem, October, 1895.

Elevenih Special Report of the United States Commissioner of Labor, Regulation and Restriction of Output, 1904, p. 575.

women. Many American girls, it was said, acted as strike breakers, replacing Bohomian women.⁴ At the end of his strike the comployers pronounced the instruction of girls in the art of eigar making "surpringly affective.¹⁹ Nevertheless, some of these girls were apparently discharged as soon as the strike was broken, for in December, 1877, it was stated that one firm had discharged 50 girls and another 24 girls who had completed their apprenticeship at eigar making.⁴ The New York Tribune reported in November the number of girls applyed by eight of the largest firms, the total being under seven lumited.⁴ The employers, however, asserted that the number was between three thousand and four thousand, and also claimed that the cigars much by these strike breakers were popular breakes of the label: "These signs were nearly 4,000 women and girls employed in the eigar factories of New York.

In other eities fewer women were employed. Just in 1876, 13 eiganmaking abops in Salem, Mass. employed 36 females and emles, and in Pawtucket, R. J., in the same year, seven shops employed 0 formless and 25 miles 4 In 1878, too, they were not work also in Detroit, Philadelphins, and Westfield, 'and by 1879 in New Oriense, Graeimati, Balimore, Clickog, and 'many other phases.'⁴ But in Reveland in 1880 only 10 of the 300 or so cigar nuckers were said to be women, and they were from New York.' In 1881, however, President Strasser reported that at least one-sixth of all cigar makers were women, and that their employment was constantly increasing.' Two years inter he said that there were pere 10,000 women in the trade, and that the number was increasing at the rate of almost a thusand a year.⁴

In general, it may be said that the employment of women in cigar making has been due primarily to the character of the industry.

^a Cigar Makors' Official Journal, December 10, 1877. See History of Women in Taule Unions, Volumo X of this report, p. 83. See also New York Daily Tribuno, November 6 and 14, 1877.

6 Gigar Makers' Official Journal, Fobruary 10, 1878. Thu eigars made by the girls in one shop, however, were said by Mr. Strasser to be workless. New York Daily Trilane, December 4, 1877.

Cigar Makers' Official Journal, December 24, 1877.

d New York Tribnine, November 14, 1877.

* New York Sun, November 26, 1877. There were, it was admitted, from 12,600 to 13,000 strikers.

/ Cigar Makers' Official Journal, May 10, 1878.

ø Idem, December, 1876.

4 Idem, September 15, 1879.

4 Idem, March 10, 1880.

/ Idam, October 10, 1881.

* Labor and Capital, Investigation of Senate Committee on Education and Labor, 1885, Vol. I, p. 453.

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When immigrant women went on strike they were replaced with comparative ease by American girls. When machines were introduced the proportion of women amployees largely increased. It was, as always, the character of the industry which made it possible for employers to defeat strikes by introducing women. The machine and the large factory have gone hand in hand with the increased employment of women in cigar making, but it is not improbable that without these accompaniments a large part of this increase would still have taken place, and cigar making would have firmly established itself as a home industry. A larger proportion of women. it is true, are employed in the factories which use machinery than in those which do not," and in the large factories than in the small," But it seems probable that the quality of the product manufactured in part accounts for this, the best eigars being made principally by skilled mon in small shops with little machinery and little division of labor. One of the chief reasons for this latter fact is that boys have always been apprenticed to the trade, while girls have merely been taught, as rapidly as possible, to operate machines turning out a cheap product.

LABOR CONDITIONS.

In considering the conditions under which women have worked in the manufacture of tobacco it is necessary to distinguish between the two methods, home work and factory work. Both have played an important part. The home work, too, of the early years of the eigar industry, which was carried on by thrifty farmers' wives, must be distinguished from that of the immigrant women who have plied their trade in city tenements. The New England and Pennsylvania women who made cigars in their farm homes, as Miss Abbott has pointed out," were independent producers, owning their materials and the homes in which they worked, and selling their own product, while the tenement women were dependent upon an employer, not merely for their materials but also for house room in which to live and work. One of the features, indeed, of the period of the introduction of immigrant labor in eigar making in New York was the ownership by cigar manufacturors of large blocks of tenemonts which they routed out at high rates to their employees." Sometimes, too,

a Eleventh Special Report of the Unifed States Commissioner of Labor, 1904, pp. 660, 675. For an interesting discussion of the technique of cigar and clearedto making, see Twelfth Consum, 1900, Vol. 1X, Mannhactures, Part 111, pp. 671, 672.

^b Twelfth Census, 1900, Special Reports, Employees and Wages, pp. 1033-1050.

c Abbott, Women in Industry, p. 197.

⁴ At the time of the strike of 1377 many of the strikers were evicted by their landlord employers. (New York Daily Tribune, Nev. 2, 3, 5, 8, 0, 12, 10, 21, 22, 23, 24, 27, 28, 20, Doc. 4, 13, 1377.)

the employers ran company stores. These home-working women, like the garment workers, were morely wage-earners who were obliged to rent their own factories.^a

Just as in garment making, the reason for the prevalence of home work has been the small amount of capital needed and the comparatively limited division of labor. The tools and molds were simple and inexpensive, and there was comparatively little to be gained by organization and system. The first division of labor appears to have been introduced by the skilled Bohemian women who taught their husbands, who followed them to this country and were accustomed only to rough farm work at home, the art of "bunch making," they themselves doing the more difficult work of "rolling."* Though this system of "team work," once introduced, was soon seized upon by employers as a means of economizing skilled labor by introducing unskilled girls or women as assistants to men, it was so simple that it gave the factory system no real advantage over home work. Men who were skilled cigar makers, too, soon learned to set their wives and children to the task of "bunch making." Thus a family system arose in which sometimes the women and sometimes the men were the most skilled workers, but into which, in either case, the children were irresistibly drawn.

Tonomot eigar mating on a large scale began in New York about 1860 with the Bohomian immigration and greew rapidly, in spite of the vigorome eampaign against it begun about 1873 by the Gigar Makeri Union, windi by 1877 it had become firmly established. In that year it was stated by the United Gigar Manufacturers' Associaion, apparently an association of small manufacturers who were in sympathy with the strikers, that the greater number of eigens made in New York were the product of tenement manufactures.⁴ The variation of 1877, mercover, which was directed largely against this aystem, was considered as a movement against the employment of Toward the end of this strike, however, the New York Sun stated that "the mating of eigens in tenements is being gradually abandemed, and large factories are being started.'' I no 1882 it was estimated, and large factories are being started.'' I non, that out of from

⁶ Abbott, Women in Industry, p. 199.

 Labor and Capital, Investigation of Senate Committee on Education and Labor, 1885, Vol. I, p. 451.

4 New York Sun, December 3, 1877.

* New York Daily Tribune, October 24, 1877. Quoted from the address issued by the United Cigar Manufacturers' Association.

/ New York Sun, November 26, 1877.

^a A few tonement workers, to be sure, have been independent producers, laying their own raw material and selling their product, but these have generally been men. Sometimes, however, families have worked together on this basis.

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18,000 to 20,000 persons engaged in the manufacture of eigars in New York, batween 3,600 and 3,700 were semployed in tensement houses.⁴ In 1883 a law was passed in New York forhidding the manufacture of eigars in tenement houses, but this law was two years later declared unconstitutional. From about this time, however, partly because of the egitation of the union and its effect in the repugnance of the public to tenement-made eigars, and partly because of the development of the factory system, the manufacture of eigars in tenements began to decline.

The conditions under which the tenement manufacture of cigars has been carried on have always been extremely bad. In 1877 a New York Tribune reporter described a four-story tenement house in which Bohemians lived and worked, manufacturing eigars out of stubs and cabbage leaves, and also an "establishment" which employed about 1.000 persons, the system of employment being generally as follows: "A floor is rented to a family for \$12 a month. This rontal is paid by work, the children stripping tobacco, the mother bunching the eigars, and the father finishing them. The family in turn relets part of the floor to a packer, for \$3 a week, and thus all get their livelihood. The firm [furnishes] the wrappers and the operators [furnish) the fillings." In the same year the United Cigar Manufacturers' Association condemned as insanitary these tenement cigar factories, where the babies rolled on the floor in waste tobacco, and all the housework, cooking, cleaning of children, etc., was carried on in the room where cigars were made. "

In factories for the manufacture of tobacco and rigars, too, the conditions of labor early caused complaint. In Detroit in 1866 a committoe of the Right-Hour League and Trades' Assembly found many girls working in tobacco factories "placed in "pigeon holes,' as they are called, one shore another, where they toil from morning until night, bronthing constantly the poissnous oder of tobacce in an atmosphene filled with the fine particles of the plant." They worked by the piece. The committee were especially struck with the ill health and the low state of morals of these girls, and expressed the opinion that "much of the prostitution which curres the oily is the loathsome fruit of the depravity which dates its commencement at the tobacce

^a Thirteenth Annual Report, New York Bureau of Lakor, 1895, Vol. I, p. 563. The next year Mr. Adolph Strasser testified that there were shout 5,500 persons unployed in too monitoline manufacture, of whom 1,520 were males. (Labor and Capital, Investigation of Sonate Committee on Education and Lakor, 1885, Vol. I, p. 451.) This was probably an estimate for the entire United States.

New York Daily Tribune, July 10, 1877.

^d New York Sun, December 3, 1877.

d Daily Evening Voice, May 3, 1860. Quoted from the Detroit Daily Union.

A New York cigar factory, on the other hand, where women were amployed on machines, was favorably described in 1870 by the Revolution, which always rejoiced in evidences of woman's expanding sphere of activity. In the first workroom, according to the account, was a long table holding, at intervals of about 3 feet. "the deft machine for eigar wrapping" with a young woman or girl "performing her light and compensatory labor of filling or wrapping cigars." In addition there were in this room two or three "chore girls." All of the girls, said the writer, "looked bright, intelligent, well dressed, well cared for." One of them said she had been used to running a sewing machine, but it had injured both her health and sight, and she considered that her present occupation "was much less laborious and 'wasting,' and, besides, she received nearly or quite twice the amount of wages that her former calling afforded." "By the new process," said The Revolution, "girls learn in a week to make as good and neat appearing a cigar as a man could turn out under the old system after working for months at the trade. None of these employees earn loss than a dollar a day, while many receive double the amount and more. Upstairs again," continued the account, "where there are more women engaged with more tobacco, in the various stages of the incipient cigar, some are stripping, some are stemming, and some are assorting the 'right-hand' and 'left-hand wraps' as the leaf is parted from the spinal stem. Some are sitting at a machine 'cutting off the tucks,' as they call it, which is the last neat finish to the eigar, the severing, by measurement, of the rough broad end." In one place a little boy was found working beside a woman who might have been his mother. Both were new hands, and each earned \$1 a day.ª

The question of the effect of the tobacco industry upon the health of women workers does not appear to have been raised until the period of the growth of tenement eigar factories, which accentuated every possible evil condition of labor.

The wages of women eigar makers, until after the intraduction of the mold, were high as compared with women's wages in other occupations, and as compared with the wages of other women in tohosco factories. Though small girls were comployed as strippers in New York in 1871 at from \$3 to 55 a work,⁴ women eigar makers were said in 1868 to receive the same wages as men, from \$12 to \$22 in New York City and from \$7 to \$20 in Philadelphia.⁴ In Boston, in 1871, too, it was reported that 25 or 30 women eigar makers were

a The Revolution, January 20, 1870.

American Workman, February 11, 1871. Quoted from the New York Star.

[&]quot;The Revolution, August 13, 1868.

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employed at the same wages as men, for an average of 8 hours a day."

The use of the mold, however, which enabled the manufacturers to employ unskilled labor, soon reduced wages. In 1877 the average wages of women eiger makers in New York were about 43 per week, and in one establishment the American girls went on strike because the employer reduced to put this amount and offered them piecework.⁵

In Sidem, Mass., however, in 1876, the average woekly wages of females were said to be $\$0.^{\circ}$ When women were used as strike breakers, too, they were generally paid less than men. In Rochester, hefere 1885, on the occasion of a strike, an employer claimed that the girls did the same kind of work as the men, and could be hired "for about 50 per cent less; and that is the reason," he frankly admitted. "we hire them."⁴⁴

The mold, strike breaking, the team system, and machinery have all tended to lower the wages of both men and women eiger makers. It is ovident, however, not only that women have ladi little if anything to do with the lowering of wages, which would doubtless have been brought about by other factors if no women had ever been employed in the trade, but also that women themselves have suffered more from the raduction than men. At one time, when women eiger makers were skilled workers, they received the same wages as men, but the competition of the unskilled of their own set has driven their wages down to loss than half theose of men.

As in all other skilled trades, too, women eiger makers have been seriously handicapped by lack of training. Women rarely server an apprenticeship, primarily because their short trade life makes such education seem unnecessary both to them and to their practices Mhere a trade union is powerful, however, apprenticeship has been made a condition of employment in the trade and weemen have been practically shift stut. The Bohemian women of the servenities were theroughly trained in their own country. But since their day few women have equived skill as eigar makers, though the occupation seems peculiarly adapted to them and one in which they should be able to acquire preficiency equal to that of men.

PAPER AND PRINTING INDUSTRIES.

In their employment in the paper and printing industries it is sometimes considered that women have departed from their natural sphere of work and have invaded that of men. In many cases, howover, women have been employed since the beginning of the industry,

[&]quot; American Workman, September 30, 1871.

^b Cigar Makers' Official Journal, December 24, 1877.

a Idem, December, 1876.

[#] Third Anaual Report of the New York Bureau of Statistics of Labor, 1885, p. 18.

and, according to Table XV (page 257), the proportion of women to the total number of employees in the entire group decreased between 1850 and 1900, or, if the figures for 1850 be questioned, between 1870 and 1900. Meanwhile, however, the number of women engaged in this group of industries increased from 7,027 in 1860 to 73,579 in 1900. In 1906 the number had increased to 00,580, and the proportion to 25,9, or 1.1 pre-each higher than in 1900.⁴

PAPER MAKING.

The chief decrease in the proportion of women appears to have taken place in the manufacture of paper and wood puly, which was relatively a far more important industry for women in 1850 than it is to-day. It is noticeable, too, that in eard entting and designing and in the munifacture of envelopes the proportion of women has declined. Other industries, too, show the effect of the introduction of heavy machinery in the displacement of women hymen.

In this making of paper and wood pulp women work employed during colonial times and the first decades of the initecenth century, in cutting and sorting rags and in "parting packs," or asparating the sheets between the different processes of pressing. In the first paper mill in Worcester County, Mass, 5 men and 10 or 12 girls were employed, and a few years later, in mother paper mill which employed 10 men and 11 girls, it was said that the wags of "ordinary workmon and girls," were shout 75 cents a week, with board.⁴ But in 1797, according to the report of a traveler, "women were employed in a paper mill in Pennsylvania at a dollar a week. In the early part of the nineteenth century a paper mill with one engine for girls, the wages of the latter averaging about 7 men and 10 or 12 girls, the wages of the latter averaging about a dollar and a half a week, half raid in eash and the other half in board.⁴

About 1825 the Fourdrinier mechano for making paper was introduced, and in 1826, out of some 50 paper mills in Massehneets which were said to give employment to from 1,300 to 1,400 men, boys, and girls, 6 were on the machine principle." In 1849 it was stated that in operating a machine 84 inches wide 2 men and 4 girls were required. Juy 1825, moreover, the custom of paying the women employed in paper mills partly in heard was probably done

[#] Special Reports of the Consus Office, Manufactures, 1905, Part I, p. 40.

^b Crane, E. B., "Early Paper Mills in Massachusetts," Collections of the Worcester Society of Antiquity, Vol. VII, pp. 121, 127.

Cluke de la Rochefoucauld-Liancourt, Travais Through North America, Vol. 11, p. 258.

d Greeley and others, Great Industries of the United States, 1872, pp. 206, 207.

^{*} Merrimack Journal, November 10, 1820.

[/] Transactions of American Institute, 1849, p. 412. Quoted in Bishop, History of American Manufactures, 1868 edition, Vol. 1, pp. 210, 211.

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away with, for in that year, and again in 1835, their wages were given as from 33 to \$4 per weak.^a In 1846 they ware given as from \$3 to $$4.50^{\circ}$ and in 1860 as from $$3^{\circ}$ to $$5^{\circ}$ per weak.^c Since 1860, hewever, the development of machinery has been such that the proportion of women employees has steadily declined, falling from \$3.5 per cent in 1850 to $$2.5^{\circ}$ per cent in 1870 and to 16 per cent in 1900.^d

PAPER-BOX MAKING.

Another industry in which women must have been early employed in the manufacture of paper and fance boxes. This industry, however, has only recently become of importance. In 1850 only 415 female hands were employed in the entire business. From that time on, however, the number approximately doubled in each decade up to 1890, though the proportion of women to the total number of employees has changed little since 1870.⁴

In the early years paper-box making was a home industry and was vary poorly paid. Match hores, it was said, were mude in New York in 1845 for 5 cents per gress, or 1 cent for 30 boxes. The Tribune told of the case of a woman who was supporting her little shildren by this work and who said that if she walked 2 miles to a starch factory to obtain rofuse at a penny a pail, for pasting the boxes, she could "make a fittle profit," but if she in alto 2 you four to make pasto it was a lesing business. I in 1851, too, paper-box making is said to have been a very had Trade, poorly paid, and carried on in attica.

By 1855, however, the paper-box manufacture appears to have developed into a factory industry, run along much the same lines as iso-lay. A factory in Philadelphia, for instance, contained five stories. In the basement a man and bay covered the pasteboard with paper by means of a machine containing two rolless. On the first floor were the offices and warehouse. On the second the largo boxes which required sewing were made and finished, and there was machinery for cutting. On the third were manufactured the largest boxes that did not require sewing. Here, too, was machinery for enting, scoring, etc. On the fourth and fifth the small boxes were

Sixteenth Annual Report, Massachusetts Bureau of Labor Statistics, 1885, pp. 254, 268.

b Idem, p. 128.

* Idem, p. 156.

45cs Tablic XV, p. 237. According to the incomplete crosses of 1830, 602, or 23 per early of the origin/quotes of paper mills were aversus, but T17, or row e37 but T2, or row e37 but T3, or row e37 but T3, or row e37 but T3, or row e37 but T4, or row e37 bu

"See Table XV, p. 257.

/ New York Daily Tribune, August 10, 1845. # Burns, Life in New York, 1851.

made and here the most perfect machinery was found. The upper stories were all subdivided, "and one part of each occupied by the men who cut and prepare the work; the other by the women and girls who finish the boxes."^a

The manufacture of paper boxes and other fancy articles is said to have flourished in New York in 1860 and hown paid fairly remunerative wages to the employees, most of whom were females and hoys.⁵ In Boston the wages of paper-box makers in that year were, according to one account, from \$3 to \$4 per week,⁴ wall according to another account, from \$2.50 to \$3 per week,⁴ Wages in New York, however, were probably luigher, for in \$81 to \$4 New York Star's said that there were in New York City 5,000 girls making paper boxes by the piece for average wages of \$5 per week, \$9 being the highest. But in Connecticut in 1874 the wages of women employed in paper-box making were reported as from \$6 to \$5 per week.⁴

As for other working conditions, they have probably changed little since the establishment of the factory system in the making of paper and fance boxes.

MAP AND PRINT COLOBING.

Before the invention of machine processes for this work many wornen were employed in coloring maps and prints by hand. This work required some tasts and skill, and the women colorists were spoken of in 1830 as well paid for their labor? In 1845, too, the New York Trihune gave a very favorable picture of this occupation. At that time there were said to be in New York Giy about 200 gifts was done by the pices, the girls being proves the too the end of the steep of the pices of the girls being poind from 3 to 10 cents a steet, necording to the quality of the work. The work was done by the pices, the girls being poind about 35.0 a week. But only "a fair proportion" of apprentices were taken, and the trade was "unt overstocked with laborers, as comparatively few who work possess sufficient nicety of hand and artistic knowledge to excel at the basiness." Much of the work was done by girls who had

o Carey, Miscellamous Pamphlets, No. 12, "To the Editor of the New York Daily Sentinel."

[#] Freedley, Philadelphia and Its Manufactures, 1858, pp. 402, 403.

^b American Artisan, August 4, 1869.

CAmerican Workman, May 1, 1869.

d Workingman's Advocato, May 8, 1869.

[.] Quoted in the American Workman, Boston, February 11, 1871.

J Twonty-sixth Annual Report of the Massachusette Bureau of Statistics of Labor, 1895, p. 505.

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studied painting and drawing. In 1858 one establishment in Philadelphia was said to employ 35 females in coloring maps.^a

The coloring of lithographic prints was another similar occupation which was said to have emphasized in New York in 1345 200 or more girls. This work was generally done by the week, and the larger establishments paid from \$2,50 to \$3,50. In some establishments, however, wages had been possible down by an oversapply of lithographers. "In these poorrestablishments, if we are rightly informed," and the Tribune, "a great portion of the work is performed by apprentices who got at best very poorly paid and sometimes not at all."⁴ The busy season was about midwinter, when preparations were going forward for St. Valentine's Day, and the highest wings were paid at that time. The girls engaged in this occupation, as well as in map coloring, were said to be generally well educated.

In 1851 there were reported to be in New York 2,000 females ougged in coloring prints. Exparts, according to the account, could earn as high as from \$3 to \$4.50 a week on the commonest work, but the average wares were not more than \$2.50 a week.⁶

By 1869, however, the introduction of stencil plates had thrown a large number of the map and print colorers out of employment.⁴

BOOKBINDING.

Book folding and stitching were among the early occupations of women wage-carners, and appear to have been little above the sowing trades as regards wages. In 1829 Mathov Gravy referred to the "folders of printed books" in Philadelphia as among the women who received only \$1.25 per week.⁴ A little later, too, the flex, Ezza Stilles Ely stated that women's wages for folding and stitching books, both in New York and in Philadelphia, were utterly inadequate for their support.⁷ Two years later 15 bookbinddrs in Boston employed of men, 30 boys, and 90 women, the latter at 50 cents a dw.⁴

In 1834, however, a Boston bookbinder stated that it was an error to say that girls in bookbinderies did not average over \$2.60 n week. The average, he said, was about \$3, and many girls could earn \$4 a week for 10 hours' labor a day. Wages, he said, were higher than

a Freedley, Philadelphia and Its Manufactures, 1858, p. 183.

^b New York Daily Tribune, August 26, 1845. In 1831 two libographing and 15 engraving establishments in Boston employed 16 mon, 10 boys, and 30 women. (Executive Decuments, Ywenty-second Congress, faste session, Vol. I.)

CBurns, Life in New York, 1851.

d Penny, Think and Act, 1869, p. 19.

[·] Free Enquirer, December 19, 1829; Caroy, Miscellancous Essays, p. 267.

[/] Delawaro Proc Press, February 27, 1830. Quoted by Mathew Carey in his letter "To the Printer of the Delaware Advertiser."

[#] Executive Documents, Twenty-second Congress, first session, Vol. I.

in the tailoring trades⁴ In Philadelphia in 1835 wages ranged from \$1 to \$3,60 per week.⁴ In 1835 nucrover, the master bookbinders of Philadelphia, in response to public egitation, recognized the 10-hour system and resolved upon \$3 a week as a minimum wage for women.⁴ And in the same year, according to an employing bookbinder of New York, the wages of the women there ranged from \$2.50 to \$7.50 per week on the same kind of work, the amount depending on the industry of the particular woman.⁴ Nevertheless, the women had gone on strike, declaring the wages insulficient for their support.

In 1845, according to the Tribune," there were from 2,500 to 3,000 girls engaged "in the respectable binderies," of New York City, at wages ranging from \$1.50 to \$5 or \$6 a week. The average appears to have been from \$2.50 to \$3.50 a week. The folding was, of course, at this period, all done by hand, as was the stitching. The hours were from 7 in the morning to 6 in the evening, with an hour for dinner. The Tribune article stated that "in the large establishments the girls are generally separated from the men who work at bookbinding, and are kept in tolerable order." According to the Tribune. too, most of the women bookbinders lived in comparative comfort, the majority boarding with relatives or friends and thus being "better fed, lodged, and cared for than those girls who have to live at the cheap public boarding houses." The price paid for board was given as \$1,75 to \$2 a week, and extra for washing. The chief evils complained of were that in some establishments the work was "dribbled out by piecemeal, so that the girls on the average do not work more than half the time," and that "the skillful worker just through her apprenticehood is too often sent adrift to make room for raw hands."

The piece rates paid in large establishments were: Por folding single 8ve, sheets, 2 cents per hundred; for double Sve, 34 cents; for double 12mo, 54 cents, and for stitching common work 24 cents per hundred sheets.⁴ The rates were son arranged that the weekly wages for folding and for stitching were about the same.

⁴Diotom Transcript, May 20, 1354. See alow the Nistonejth Annual Report of the Moschuetta Direct and Statistics of Lator, pp. 208 207, 27, 27, and 10.16 for timwages of women book severe and folders in 1637, 1838, 1840, and 1860. In 1837 and 1836 the wages of book idders were given as from 83.25 in 158.30 per veck and 6 block several statistics of the several several several several several several several several block several several several several several several several several several block several the several sever

 b Table G, p. 203, gives the number of women employed, the wages, and the hours in the bookbinderies of Philadelphia in 1835 as accertained by a committee of the master bookbinder.

6 Radical Reformer and Workingman's Advocate, Philadolphia, July 4, 1835.

New York Journal of Commerce, June 24, 1835,

* New York Daily Tribune, August 20, 1815.

A regular apprenticeship to book folding and stitching appears to have been customary. But in some establishments, it was said, girls were engaged as apprentices and told they must work 6 weeks for nothing, and then at the end of the 6 weeks were discharged to make room for new apprentices.⁴

In 1851 a small army of book folders was said to be employed in the Bible House and Track Society's buildings in New York and in other large bookbindories. Wages ranged from 82 to 56 a week, the average being about 83.60. Book severs, it was said, could earn from 55to 56.50 per week.⁸ A couple of years later a writer in the New York True National Democrat.⁶ proposed that bookbinding should be predicible gripten up to youre.

A book-folding machine was introduced before 158% but the work, which had formerly been done by hand with only a knife to lay the fold, was still performed by girls, though the number needed for a given amount of work was greatly reduced. The sewing of books by machinery was not introduced until within comparatively recent years, and has never displaced the binding frames on the higher grades of work. This, too, saved labor, but resulted in no change as regards the sex of the workers.

Wages remained low. In 1863 book sewers in New York were said to resoive about \$3 a week. In 1868, however, ong qiri testified before a meeting of working women in New York that at houk folding she could earn 5 to 35 a week, working moincratchy, and that girls at hard work could earn from \$5 to \$9. A deaf-mute binder said that she made \$0 a week.⁷ Virginia Penny, too, stated about 1870 that a gilder in a bookhindery received \$5 a week, or \$1 a day of 10 hours, equal to 10 cents an hour.⁹ And in 1871 the New York Star⁴ said hat 7,000 girls worked in New York Sokhinderis for wages of from \$6 to \$8 per week. The folders and stitchers, however, by hard labor, were said to carn from \$21 to \$10 per week. In Boston, moreover, in 17.9, women employed by bookhinders are said to have earned only \$2 per week.

/ The Revolution, October 1, 1868.

[&]quot; New York Daily Tribune, August 22, 1845.

b Burne, Life in Now York, 1851

[«] Quoted in The Una, September, 1853.

d Freedley, Philadelphia and Its Manufactures, 1858, p. 178.

[&]quot; Fincher's Trades' Review, November 21, 1863.

[#] Penny, How Women Can Make Money, p. xill.

Quoted in the American Workman, February 11, 1871.

American Workman, May 1, 1869.

PRINTING AND PUBLISHING.

As only as 1815 there were said to have been sampleyed "in a printing house naar Philadelphia, two women at the press, who could perform their week's work with as much fidelity as most of the journeymen." In 1831, moreover, a writer in the Banner of the Constitution stated that he had binnelf seen "young girls vory adroitly superintending the printing of sheets by a press worked by horse power." Five years itatic "one of the girls employed to work on the machine presses of Mr. Familaw," of New York, "had part of her hand taken off by its becoming entangled in the machinery."* A had in 1845 the New York Tribune reported that girls were employed on most of the power presses run in book offices, as the hadron on these machines was light." Again, in 1858, it was said that in Philadelphia, where power presses work in use in all the leading establishments, "many of the employces who tend presses are females, whose earnings average 34 per week."*

In New York, too, in 1863, women press feeders, it was anid, sometimes received \$4 a wock.' But 5 years hater one girl testified before a a meeting of working women in New York that she made \$6 a wock feeding a press in a printing office 10 hours a day.³ And in 1870 Shirky Dare interviewed one woman press feeder in New York, who said she received \$7 per wock for 10 hours' hober a day.⁴ The girls employed in feeding presses at the Government Printing Office, moreover, had gone on strike in 1863 for \$8 a work, but finally roturned for \$7, which was apparently an advance over provious wages.⁴ In this case hoys acted as strike breakers.

Women were not employed as proof readers until long after they had been successfully employed as press feeders. About 1870 the propriotor of one of the largest publishing houses in the country assured Virginia Penny that he knew of no case of a woman acting as proof

^a Thomas, History of Printing in America, 2d ed. (Archeologia Americana, Vols. V and VI), Vol. I, p. 358.

The incomplete manufacturing consets of 1820 reported as engaged in printing and publishing 94 men, 12 women, and 56 "hoys and girls." (American State Papers, Finance, Vol. IV, pp. 20-23.)

^b Banner of the Constitution, May 4, 1831.

e Public Lodger, October 21, 1836.

d New York Daily Tribune, September 15, 1845.

* Preedley, Philadelphia and Its Manufactures, 1858, p. 173. The Sixteenth Annual Report of the Massachusetts Bureau of Statistics of Labor, 1885, pp. 276 and 284, gives the wages of women press feeders in 1840 as from \$5 to \$6 per week, and in 1845 as from \$2,50 (53),50 per week.

/ Fincher's Trades' Review, November 21, 1863.

o The Revolution, October 1, 1868.

A New York Tribune, February 26, 1870.

I Fincher's Trades' Review, December 26, 1863.

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reader. Nevertheless, the Boston Storeotype Foundry reported that it employed three young ladies to read proof, and paid them from \$3to \$5 per week for 9 hours a day. A woman was also employed as proof reader at the Bibbi House, at \$5 or \$6 a week.^a

As printers women were employed at a much earlier date than is generally supposed. Miss Abbot has found that even in the engluteenth century there were one or more women printers in eight difforent States—Massachusette, Connecticut, Rhode Island, Pennsylvania, New York, Maryland, Virginia, and South Carolina—and, further, that these women were both compositors and worked at the press.⁹ Most of these women, like the nices of Benjamin, Franklin in Philadolphia, appear to have been engaged in independent business, though some of them may have been wage-earniers. From the beginning the employment of women has been invale more common in the "book and job" branch of the business than in newspaper offices.

In 1830 the Boston Courier referred to the employment of women as printers in the "establishments for books printing" of that city as "an evil of recent growth." The number so employed, it was stid, yas "afficient to lesson very considerably the cells for journaymon and to disheariton all who, as apprentices, ware ambitious of distinguishing themselves as faithful and skillful printers." In this same year Joseph Turckorman assorted that, "in consequence of the improved machinery which is now used in printing and by the substitution of hoys and gifts for moin the work of printing fullers, there are at this time, or within the past summer there have been, in our sity, between two and three hundral journaymen printers who have been able at best to obtain but occasional employment in the occupation in which they have been abuctand." In 1834 too, the editor of a Boston paper estimated that 200 wemen were employed in printing in that city."

Employment in printing offices, indeed, appears to have been at this early date a somewhat important occupation for women in New Fogdand. It was mentioned in 1834 by the women strikters at Lynn as a possible alternative employment to shoe binding/ and a strike of printers occurred in Boston in 1875 or account of the employment of women in satching type. J By 1836, loo, a committee of the National

a Penny, How Women Can Make Money, pp. 30, 31.

^b Abbatt, Women in Industry, p. 246.

Boston Courier, August 25, 1830.

d Tuckerman, An Essay on the Wages Paid to Females, Philadelphia, March 25, 1830, p. 13.

^{*} Quoted in the Bannor of the Constitution, May 4, 1831.

[/] Lynn Record, January 8, 1834.

[#] History of Women in Trade Unions, Volume X of this report, p. 40.

Trades' Union referred to printing, in the New England States, as "in a certain measure governed by females,"^a

Wagas, though low, were somewhat higher than in the garment trades. But in 1834 there were said to be hundreds of girls in Boston employed in printing offices, bookbinderies, etc., who earned only about \$2.50 a week, and were obliged to pay out of this \$1.50 a week for board.⁹

In other parts of the country, however, the employment of women printers was not common until many years later. Nevertheless, a Philadelphia paper frankly congratulated the Bostonians on having found in female labor a means of cheapening the cost of composition in printing. Attributing the destitution of "20,000 females" in northorn cities to "the American system," which, it said, had thrown out of employment their husbands and fathers, this paper stated that there was no reason why the printing business should not be turned over to them. And, since "the labor of females can not command more than half the wages that men can," it "would have a powerful influence in reducing the expenses of printing."e The next year the Typographical Society of Philadelphia was agitated over a rumor that one of its members intended to employ women as compositors. but the rumor was denied. In 1835, however, a similar rumor caused the Washington society to send a circular letter of inquiry to the societies in Philadelphia, Boston, New York, and Baltimore,⁴

An attempt was made in Now York during the dirities to introduce women into printing offices as compositors, but the paretice was soon shandoned, ' and it was not nutil about 1853 that the movement for the employment of women hypesetters began to assume importance outside of New England. In that yar girl typesetters were employed on the New York Day Book/ and a strike for higher wages among the journeymen printers of Pittsburg resulted in the employment of women and girls as compositors upon the two principal daily penny appers of that eity, the transite compositors were employed in the officer of three Cincinnet and Bippatch.⁹

a National Laborer, November 12, 1836.

b Boston Transcript, May 27, 1834.

· Banner of the Constitution, May 4, 1831.

^d See "A Documentary History of the Early Organizations of Printers," by Ethelhert Stewart, Bulletin of the Bureau of Labor, No. 61, p. 884.

« New York Daily Tribune, Soptember 15, 1845.

/ The Una, August 1, 1853. In 1868, however, the editor of the Taxpayer claimed the henor of having been the first printer in that city "to instruct and employ female compositors." The Revolution, Oct. 8, 1868.

Idem, October, 1853.

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out against the demands of the printers' union," and that the Louisville Courier had announced its intention to try the experiment."

In Philadelphia a strike occurred in August, 1854, in accordance with a resolve of the printers' union, on account of the employment of women. According to one account, the Philadelphia Daily Register had employed two women as typesetters in a separate office,^b and according to another, girls were employed in the jobbing department." Shortly before this time trouble had occurred at Mount Vernon, Ohio, on account of the refusal of a printer employed on the Home Visitor to give necessary instructions to a girl employed on Mrs. Amelia Bloomer's paper, the Lily, which was printed in the same establishment. It was found that the employees of the office had signed an agreement never to work with or instruct a woman, and they were promptly dismissed and their places filled by four women and three men." Strikes on account of the employment of women and resolutions of trade unions denouncing their employment soon became common. A long discussion of the "woman question" at the national convention of 1854 resulted in turning the subject over to the local unions, and it was not until 1869 that the national union admitted women to full membership.«

About this time, too, Aliss Annie & MacDawell started in Philadelphia the Wenam's Advocate, all the work on which, including the typesetting, was done by women. Not being able to find a nucle printer in Philadelphia who was willing to instruct a woman, she is said to have imported one from Boston.⁷ A writer in the Revolution in 1871, who signed binself Neil Buntline, stated that nearly seventern years before, when he published a paper in Philadelphia, he had "hired women compositors from her affice, at full union men's wages, and they did heir work well near low for more the sevent sevents of the sevent wells."

By 1864, partly, without doubl, as a result of the Civil War, the introduction of women printers began to attract considerable attention. Three other causes of the employment of women were, however, prominent. The first and most conspicnous was the possibility, already mentioned, of using them as strike breakers. The second and probably most important was the fact that women would do the same work as men for lower wages. The third was the influence of the newly invented typesetting machines.

- o The Revolution, June 8, 1871.
- # Idem, May 4, 1871.

[«] The Una, January, 1854.

b Dall, Woman's Right to Labor, p. 68.

Ninth Annual Report of Bureau of Industrial Statistics of Pounsylvania, 1880–81, p. 276.

d New York Daily Trihune, April 22, 1854.

See History of Wemen in Trade Unions, Volume X of this report, pp. 103-105.

The entrance of women printers into newspaper offices was usually, perhaps, as strike breakers and often at lower wayes than were paid men. In Boston in 1864, for example, at the time of a printers' strike, women were substituted for men at lower wages." In 1866. however, when the Boston Traveller decided to reduce wages, it was said that though the original intention had been to so reduce that the women should receive less than the men, it was finally decided to reduce both alike," And in 1870 it was reported that since the strike of 1864 women had been employed on the Boston Transcript and Traveller on full hours and had received men's wages, averaging \$18 per week earnings.º The women printers on the New York World, moreover, who were originally employed as strike breakers." and of whom there were 25 in March, 1868, were paid the same wages as men, 40 cents per thousand ems for day work and 50 cents for night work, and some of them were able to earn from \$15 to \$20 per week, in spite of the fact that, as they had only been tried for three years, they were in experience scarcely out of the period that with a man would have been apprenticeship." Women, however, after a three years' trial, were declared by the World not to be as good as men, and were finally discharged and men substituted. Usually, indeed, in such cases either the women were discharged or their wages were reduced.

A printers' strike in Rochester, too, in 1864, enused the employment of women compositors. But in this case, though the employers had pledged themselves to give permuent employment to the girls, they are said to have been discharged as soon as men could be proeured.^A

In the same year the employment of one female printer on an Albany paper caused a strike and bitter demanciation, by the omplayer concerned, of the union for "waying warfare upon women who are driven by their necessities to seek employment in printing offices." To this a writer in Fincher's Trades' Review replied that the trouble was not too little work for women, but too much work and too low wages, and that the trade unions had always sympathized with them and constituted their only hope of relief."

¹⁰ Daily Evening Voice, December 9, 1864. In one establishment, however, according to the Voice, when the girls found that they were being employed at a 25 per vent reduction from the wages paid even men "scales," they "refused to work for less than the men, and the employer in his strait was obliged to pay them even a wages."

⁶ Idem, January 5, 8, 1866.

[&]quot; Woman's Journal, January 29, 1870.

d Workingman's Advocate, November 2, 1867.

[&]quot;The Revolution, March 19, 1868.

[/] Idem, October 1, 1868.

[#] lifem, October 8, 1868.

h Fincher's Trades' Review, June 4, 1861.

¹ Idem, May 7, 1864.

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In San Francisco women were substituted for men as compositors as the result of a printer's strikk in 1880. In January of that year it was said that female compositors set up the San Francisco California.⁴ And in December, 1870, there were reported to be 7 founde compositors on the San Francisco Cali. 10 in the oilice of the "Woman's Cooperative Printing Union," and several on the Pioneer, the woman's journal.⁴

A strike at Worcester, Mass., in 1869, also led to the employment of women side by side with men at the same wages, sometimes \$16 a week, in one of the newspaper offices of that city.⁶

Strikes, however, were not the only cause of the substitution of women for men as printers. The comparative cheapness of woman's work, as has already been intimated, was a powerful factor. When the Western Publishers' Association in 1864 passed a resolution recommending "the employment of female help whenever it can be done conveniently,"d the typographical union declared that the publishers favored the employment of women merely on account of its economy, and urged women printers not to work for lower wages than men." In the same year, however, the Western Publishers' Association established a school in Chicago for the instruction of women, where in July 40 or 50 women were said to be employed at \$4 a week. About the same time the proprietor of one of the Chicago dailies boasted that he had "placed materials in remote rooms of the city and secretly instructed girls to set type." / In 1869 the employing printers of New York followed the example of the Western Publishers' Association and passed a resolution "that the master printers of this city, recognizing the importance of female labor in our composing rooms, do agree to employ females as compositors," upon which the Workingman's Advocate, in conformity with the trade-union

 $d^{*}\text{The Triater}$, Jay_2 , Bolt, A traptores' convention hold in Springfield, III, about1600, resolutions were adopted technicity that the emphytemed of wonset as compositorn had beam form) ⁴'a deticle benefit as regards moral influence and steady work,and also as defined better ways to a choiring et also," and that therefore this associationrecommended ⁴ to its members the employment of fomales whenever practicable,"(Dall, Wonan's Weight to Labor, p. 26).

e Idem, August, 1861.

I Frincher's Trade' Review, Getaber 1, 1861. A writter in Frinker's Trade' Review, commenting upon the comparition of right introduced by this school, acid, "The thing has been trick before, and the bays have generally managed to take the whole of throm phoneses in a single companying, and set them up for life at homescheping: Trade's the trade is of a such companying, and set them up for life at homescheping: Trade's the trade is grown of , 1863.

a The Revolution, January 28, 1869.

Workingman's Advocate, December 10, 1870; The Revolution, January 12, 1871.

The Revolution, January 20, 1870.

policy, urged the women to demand the same rate of pay as the men whom they supplanted had received."

The object of the employers was undoubledly to secure changer and more docide labor, and in this they were evidently successful. In November, 1865, it was stated that the men printers were to be discharged from the Boston Courier office and women put in their places. "The compositors of the Courier," said the Duly Evening Voice, "have been receiving latterly, since they were 'cut down," de cents a thousand ems; the giths are to receive but 25 cents per thousand 'ems' for leaded matter, and 30 cents for solid matter, * * The women, * * by this scale of prices, will be able to earn about 37 a week by working 10 hours a day at an unhealthy trade, which beaks down most printers before they reach the middle age of life."^b Early in 1866, too, another Boston duly is said to have discharged its men printers and introduced womene, 'In 1809 the giths employed in printing offices in Boston were reported to earn 84 a week.⁴

In 1868 various estimates placed the number of women compositors in New York at from 2004 to 500.⁷ At first they had here paid, it was said, the same warges as men, from 40 to 50 cents per thousand ens, but at that time they coverived only from 25 to 45 cents, the average being shout 35 cents.⁷ Women compositors were at that, import of the source of the Brooklyn Eagle, and one of them, who had been fifteen ycens at the business, is said to have made, at 37 cents a thousand, about 518 a week. A speaker at a meeting of the women's union in New York in 1868 said that "in many printing affiess, bath in this eity and in Brooklyn, many ladies were getting all cents a thousand.⁷ π In⁶ Women's New York Typographical Union, No. 1," however, established as its scale of prices 40 cents serveral large establishments, notably the Independent, which had inserveral large of its women from 55 to 40 cents per thousand cents of the same from 55 to 40 cents per thousand cents or thousand cents.⁸

& Idom, March 18, 1869.

[&]quot; Workingman's Advocate, February 20, 1869.

[•] Daily Evening Voice, November 16, 1863. Fincher's Trades' Review iten space of the opening up of the printing trades to women as far from being a humanitarian measure, one which subjected girls "to torture, trials, and temptations, that may prove their ruin physically and morally." (Eincher's Trades' Review, October 1, 1861.)

cldem, January 11, 1866.

d American Workman, May 1, 1869.

^{*} The Revolution, October 15, 1868.

[/] Idem, March 19, 1368.

g Idem, October 8, 1868.

A little later, however, it was said that "the fomale compositors employed by the American Tract Society of New York have petitioned for the same rate of pay as the men receive."* And in 1871 three were reported to be in New York about 200 "female compositors," who worked "by the piece, a price 20 per cent lower than the men."* In 1875, the wages of women compositors were said to be 30 cents per thousand ems or \$10 a week. For the latter fixed sum they were expected to set nearly 6,000 cms per day.⁵ It is evident that women worked for less than men, and this fact constantly tended to influence employers to hire women printers.

Machinery, too, hnd some influence over the introduction of women printers. In 1865 a context between the Alden typesetting machine operated by two women and a compositor from the New York World resulted in nearly twice as many ems by the machine as by the man.⁴ The influence of the machine, however, has been slight, partly because women have not the endurance to compete with men in speed, but primarily because the union has controlled the machine.

As early as 1866, according to Mr. Malcolm Macleod, organizer of the machinists' union, the typesetting in many printing offices in New York was done principally by women's most of them, it was later added, from New England.² And in 1870 women compositors were aid to have been "for years successfully employed by the Harpers, and—with the exception of the offices of the dnily morning mapers, where their physical education has not left them the strength to endure inglit labor—in nearly all the book and paper offices in the eity; and the work that they are able to do equals both in quantity and quality that done by men." f

In other places, too, women printers began to be employed. Miss Susan B. Anthony stated in October, 1868, that she had received some 14 applicants for women typeselters, including one from the Orange (N. J.) Journal for a forewoman to manage the office, and one from the Galveston (Tex.) Courier for six compositors and one forewomanA

⁴ Workingman's Advocate, Juno 25, 1870; The Revolution, July 28, 1870; The Woman's Journal, Boston and Chicago, Juno 11, 1870. About this time it was assorted that the large religious publishing houses generally refused to employ women compositors. (The homeiran Workman, July 2, 1870.)

⁶ American Workman, February Li, 1571. Quoted from the New York Star. In 1870 a foundle compositor in the offlee of the Bridgepart Standard is solid to have earned more at a piece rate than any of the half dozen men who set type in the office. (The Woman's Journal, Booton and Chicago, June 18, 1870.)

Ames, Sex in Industry, 1875, p. 85.

d The Printer, July, 1865.

· Finchor's Trades' Review, February 4, 1865.

f Daily Evening Voice, December 23, 1865.

PThe Revolution, May 12, 1870.

Aldem, October 29, 1868. Miss Anthony was editor of The Revolution.

About the same time the Wonnan's Typographical Union of New York rofused the request of a Galveston, Tox, editor, for a number of women compositors, on the ground that the wages offered were less than the established price in that city.^a A little later there were other instances of the employment of forwards. One was employed, for instance, in this capacity on the Christian Register of Boston in 1870,^b and another on the Janesville (Wisi, Gazette in 1871.^c In the latter year women compositors were said to have been driven from the Chicage Mail by the men.⁴

In entering upon the printing trade, however, women were continually hampered by lack of training, and to this lack must be attributed, in part, their comparatively low wages. It was early complained that women, were not allowed to loarn overything comnected with the business, but were confined to setting a few different kinds of type. This, it was said, was one of the causes of their low wages.⁴ And, when women compositors were declared by the New York World not to be as good as mon, the women replied that they would be as good if they were an appendiceship.⁷ About the same time a speaker at a meeting of the Women's Typographical Union of New York said that women did not expect the same wages, as they "lund not had the same chance to learn as the men, who were apprecisioned to the trade.¹⁹

In Boston, oven, where wemen had long been employed, the lack of apprenticeship was spoken of as a handicap. In 1866 the city printing of Boston is said to have been obtained by an employer who secured it by substituting girls and boys for men. "We would like to know," wrote the acilitor of the Daly Evening Voice, in comment, "if the city government of Boston will be satisfied with having heir work buched by female printers who serve no apprenticeship other than to hearn the position of type in a case, and the mechanical operation of standing them on end the satisfied with the satisfied with the standing them on end the serve the apprenticeship of the set of th

Primarily, in order to supply this need for a systematic training for women printers, the Working Women's Association of New York proposed in 1868 to establish a "tenulo printing office," on the cooperative plan.¹ The next year, indeed, there was a Woman's Cooperative Printler Union in San Francisco, which was appealing to the

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public to buy shares. "The object of the selling shares," said the San Francisco Morcury," "is to obtain capital to purchase more material, in order that more women may be employed, and more young girls can learn typesetting. Constant applications are made for positions, which must be rejected, owing not to want of work, but to want of type." It is not known what was accomplished by the San Francisco Union, and nothing appears to have been done in New York.

Early in 1869, howver, Susan B. Anthony, at the time of a strike of Typographical Union No. 6, of New York, made an appeal to a meeting of employing printers for ail in the establishment of a school for girls in the art of typesetting. "Give us the means," she wrote, "and we will soon give you competent women compositors." Naturally "her views seemed to meet with the approval of the meeting."" But, also naturally, this move roused the anger of the Typographical Union against Miss Anthony. It does not appear, however, that anything further was done in New York at this time in the direction of founding a school to teach women typesetting.

The propertion of women to the total number of employees engaged in the group of occupations included under "printing and publishing" has, however, stendily increased since 1370, when it was 0.1 per cent, until in 1900 it was 17.6 per cent, and in 1905, 20.3 per cent.⁴ Not including 1, 23.1 in "Printing and publishing, not specified," in 1870, the number of women employed increased from 1,600 in 1870.⁴ to 37,614 in 1905. It is evident that this is one of the industries in which women are gaining at the expense of men.

MISCELLANEOUS INDUSTRIES.

In many other manufacturing industries women have long been comployed. As early as 1820, 361 women, 10,467 men, and 1,938 "hays and girls" were reported to be engaged in the manufacture of various metal products, not industing edocks, elock cases, and whicher, which reported 23 women, 103 men, and 7 "bays and girls." There were reported laso under lumber and woodworking trades 36 women, 2,360 men, and 240 "bays and girls." Hily-six women, 2,306 men, and 110 "bays and girls," moreover, were given under chemical industries i showen, 547 men, and 121 "bays and girls under elay and pottery industries, not including glass; and 70 women, 3,400

⁶ An earlier notice of this "union" occurs in The Revolution, July 15, 1869.

c The Revolution, February 4, 1868.

4 See Table XV, p.258, and Special Reports of the Census Office, Manufactures, 1905, Part I, p. lxxxi.

"See Table XV, p. 258, footnote ".

a Quoted in The Revolution, September 2, 1869.

ing boots and shoes. No women, however, appear to have been employed at that time in glass works."

METAL WORKERS.

A large increase in the proportion of women employees has occurred since 1850^b in the manufacture of "metals and metal products other than iron and steel." A slight increase occurred between 1890 and 1905 in the group "iron and steel," which can be traced to the division "steel works and rolling mills," and is probably wholly in the tinplate department, where women work at separating the sheets after the pickling process. But the proportion of women to the total number of employees in the group "metals and metal products other than iron and steel" increased from 3.4 per cent in 1850 to 14.2 per cent in 1905. Within this group the chief industries employing women are the manufacture of jewelry, in which the proportion of women employees increased from 7.4 per cent in 1850 to 30.6 per cent in 1900, and the manufacture of watches, in which the proportion of women increased from 14.8 per cent in 1860 to 50.5 per cent in 1900. There was a great increase, too, from 2.9 per cent in 1850 to 22.7 per cent in 1900, in the proportion of women employees engaged in the manufacture of clocks.*

In the manufacture of metals the work of women has generally been polishing, filing, soldering, tending the lighter forms of machineery, and weighing and packing the lighter articles. Their increase is due to a combination of labor-saving machinery and minute division of labor.

One of the early occupations of this kind in which women were said to be engaged was the rubbing of type in order to smooth is after it had been cast in a mold. The type was rubbed by hand on a flat stour. Little skill was required and the work was very monotonous. As early as 1831 the type and stereotype founders of Beschn employed 83 men, 20 boys, and 55 women. The wages of the latter were reported to be from 42 to 50 cents a day.⁴ In 1851 women type rubbers in New York were said to be paid from \$1.50 to \$2.50 per week.⁴

Women were early employed in polishing metals of all kinds, and by 1868 there were enough women metal burnishers in New York to form a "Fenale Burnishers' Association." In 1863 it was and that

a American State Papers, Finance, Vol. IV, pp. 29-223, 291-297.

^{*} See Table 1X, p. 250.

[&]quot;See Table XVI, p. 258.

⁴ Executive Documents, Twenty-second Congress, first session.

[.] Burns, Life in New York, 1851.

[/] Workingman's Advocate, June 13, 1868.

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the silver burnishers in Phihadelphia received a cont appace for tablepoons, of which they could no only 30 or 35 a day, making about \$1.80 per work.⁴ But in 1868 the New York metal burnishers complained that, on account of a reduction in wages of 20 to 45 per cent upon all kinds of work, they were able to make only from \$3 to \$10 a week, whereas they had formerly made from \$4 to as high as \$20 a week', whereas they had formerly made from \$4 to as high as \$20 a week', of Withing Women's Association No. 2 of New York that she could make with above work \$8 and working very bard \$20 a week'. In 1870 women burnishers in New York were said to receive from \$5 to \$17 a week'.

As early as 1867 women were employed by one gas manufacturing establishment in New York on the liner sorts of brass filings. But the employer in this case objected to having his name given because he thought "his male operatives would descri him were it known that a part of their work is now dono hy women."⁴⁶

In 1887, too, the Morse Twist Drill and Machine Company of New Bedford employed 24 female machinists in filing of a light nature, tending light machines, grinding drills, and other miscellaneous tasks. This was said to be "a new branch of trads" opened "to female labor." The women were employed in a department by themselves and were said to earn good wages.⁷ And in 1870 Mrs. Robert Dalo Owen stated in an address before "Sorosis" that." in the soldering of tabes for steam engines and the like there is great scope for female labor, and togen great the soldering of the soldering. This is not very hard work and is very remunerative."?

In 1872, moreover, women were commonly employed in weighing and filing coined money in the mints,⁴ and in the manufacture of nails and tacks. In a null factory at l'aunion, Mass, in that year "numerous women and children" were suid to be "usofully employed." They apparently operated machinery, for it was stated that a gif running a machine for making leather-headed tacks could turn out 120,000 tacks a day.⁴ They probably also sorted and packed thus nails and tacks and made paper boxes.

a Fincher's Trades' Review, November 21, 1863.

b Workingman's Advocate, June 13, 1868.

< The Revolution, October 1, 1868.

[&]quot;The Woman's Journal, Boston and Chicago, February 26, 1870. Quoted from the New York Evening Post.

Daily Evening Voice, March 2, 1867. From the Fourth Annual Report of the New York Working Women's Protective Union.

[/]Scientific American, January 26, 1867, p. 62.

o'The Revolution, March 24, 1870.

A Greeley and others, Great Industries of the United States, 1872, p. 153, I Idem, pp. 1077, 1078.

all hardware manufacture, lowewar, declined between 1850 and 1880, In 1850, 12.5 per cent of the employees were famales, and in 1860, 11.8 per cent. In 1870, 8.1 per cent were women and 9.5 per cent bildren, and in 1880, 5.8 per cent were women and 9.3 per cent children.⁴ In the latter year it was said that women were employed chiefly in packing the smaller articles of hardware, and sometimes like in tending light machinery and as clerks in offices.⁴ In 1874 women brass finishers in Connecticut were reported to receive from 84.50 to 81.050 per week.⁴

Watch and clock making, as long as they were hand trades, requiring a high degree of skill, were carried on exclusively by men. The introduction of women was originally due to two causes: First, the fact that the industry in this country was founded on the basis of the interchangeability of parts, which rendered possible and desirable the extensive use of machinery's and the minute subdivision of labor; and, second, the difficulty and expanse of procuring skilled watchmakers. It was found that by the subdivision of labor; and less efficient help could be employed to advantage. The women were generally employed in the lighter work and in running the simpler machines. As has already been seen, the proportion of women employed in both these industries has increased rapidly, as the divion of halor and the development of machinery have progressed.

As early as 1853 a writer in the True National Democrat 4 called attention to watch and clock making as "adminsbly adqueted to the fomale sas," and about the same time women began to be employed in this industry. The Right Watch Factory, which was founded in 1867, amployed from the first a large number of women. On March 20, 1868, indeed, an article appeared in the New York Tribune which stated that of the 250 employees half were women, clickly farmer? daughters of the neighborhood. They received, according to this article, from 00 cents to 81.35 per day, while the men enreal 82 per day and upwards." Laws not stated, however, that the work of men at women was of the same character. In 1872, morecere; both

^a Teuth Census, 1880, Manufactures: Special Report on Manufacture of Hardware, Cuttery, and Edge Tools, p. 8.

^b Twenty-sixth Annual Report of the Massachusetts Bureau of Statistics of Labor, 1895, p. 507.

e This investigation of hand and machine labor in 1888 showed that while under the hand nether only 4 operations out of 247 wave performed by feember, under the machine mothed lemsles performed or assisted in performing 57 operations out of 837, or 18.88 per cent of the whole number: "Chirteenth Annual Report of the United States Commissioner A labor, 1888, Hand wall Machine labor, Vol. 1, p. 146.)

d Quoted in The Una, September, 1853.

 Quoted in the Revolution, April 9, 1868. The average wages of women in the Elgin Watch Factory in 1908 were \$2.88 per day. soxes were employed in the Howard watch factory at Roxbury, Mass. 'The women tonded the machines which made the screws,^e and, doubtless, did other work.

As to the employment of women by the American Watch Company, the Touth Consus (1880) made the following statement, the first of the two paragraphs being quoted from the report of Prof. James C. Watson at the international exhibition of 1876:

⁴⁰⁷Here are many important operations in the manufacture of watches by this method where the delicate manipulation of female hands is of the highest consequence, and it ought to be mentioned here that for this habor the amount of wages paid by the company is determined by the skill and experience required, not by the sex of the aperative".⁸

Upon much of the work either sex might be employed, but it may be of interest to note some of the items of work upon which women are usually coggod, viz, the enting and setting of pillars, the villing of pin and serve holes in plates, the enting of the teeth of wheels and pinons, the leaf polishing, the gibling, the making of bnirsprings, the setting of springs, the making of pivol jewels and balance serves, the putting of movements together, and the fitting in of offlier jewels and jewel pins. Besides the making of particular setting work and superintensione, some items of work usually performed by work and superintensione, some items of work usually performed by soming and oxidizing prior to gibling, the results of marking, thus soming and oxidizing prior to gibling, the result to training, working some yherles, milling of pallets, balance making and handling, and the find and an diminstrip.⁶

It is evident that by 1880, when women constituted 30.4 per cent of the emphayees engaged in watch making, as erompared with (1.8 per cent twenty years earlier t the industry had practically assumed its present form. Since that date, however, women have, to a certain extent, here association of or men through further subdivisions of abor and changes, in methods. The process of assembling, for instance, which was for years almost exclusively merits work and which required expert watchmakers, has been subdivided and in part assigned to women. This change was made at a comparatively early date at Waltham, but was not effected at Eigin multi the strike (8197–98.

WOOD, CHEMICAL, CLAY, AND GLASS WORKERS.

The proportion of women to the total number of employees in the group of industries "lumber and its remanufactures," was precisely the same in 1850, 1870, and 1905.^d In the manufacture of furniture,

r See Table XVI, p. 258.

See Table 1X, p. 250. The figures for 1850 were, of course, for all females employed, including girls under 16.

49450°-8. Doc. 045, 62-1-vol. 9-15

[&]quot; Greeley and others, Great Industries of the United States, 1872, pp. 78, 79.

b Tenth Census, 1880, Manufactures: Special Report in Manufactures of Interchangeable Mechanism, p. 62.

including cabinetmaking, repairing, and upholetering, the proportion of women appears to have declined from 7.3 per cent in 1860, or 8.8 per cent in 1870, to 3.7 per cent in 1900.* This decline is due to the use of machinery and other labor-saving devices in the work usually performed by women.

Women have long been employed in various ways in upholstering. In the days of hair-seated furniture they prepared the hair, and even wove the haireleth. Later they still prepared the hair cushions. As early as 1853 it was said that in New York they could earn from 35 to 55 per week preparing the hair for the seate of railload ears? And in 1804 100 females were said to have been employed at Poughkeepsis, N, Y, in putting seats in cane-bottomed chairs.

Women have also long been employed in considerable numbers in the manufacture of chemicals. In 1872, in an establishment at Providenco, R. I., where crean of tartar was made, it was said that 45 grids and 8 men were employed.⁴ The proportion of women to the total number of employees in this entire group of industries, howaver, though it rose to 14.1 per cent in 1900, has usually heen under 10 per cent.⁴ The proportion of women has increased decidedly, however, in the manufacture of druggiats' preparations and patent multical habeling and packing.

The proportion of woman to the total number of employees sugged in the manufacture of "clay; glass, and atome products," though small, shows a decided increase, all of which has occurred since 1880? This increase has been mainly in the group "pottery, torac cotta, and fine-lay products," in which the proportion of women employees increased from 1.8 per cent in 1850 to 10.3 per cent in 1900, and in the manufacture of glass, in which the proportion of women employees increased from 1.7 per cent in 1850 to 5 per cent in 1900.

As has already been seen, the mounfacturing consus of 1820 did not report any women as sugged in the manufacture of glass. In a description, moreover, of the Bethany Glass Factory, at Bethany, Pa., in 1820, it was stated that 40 men and 8 boys were employed, but women were not mentioned.⁹ But in 1830 it was said that the New England Glass Bottle Company at East Cambridge, Mass., employed source 80 men and boys and about a dizzen girks. The latter

"See Table IX, p. 250.

^a See Table XVI, p. 259. "The documents relative to the manufactures in the United States (Executive Documents, Twenty-second Usingross, first assion, pp. 137, 147, 233, 433 phowed over 200 women employed in chair factories in Massechusetts in 1831.

⁶ New York Daily Tribune, June 29, 1853.

[&]quot; Fincher's Trades' Roview, May 28, 1864.

d Grealey and others, Great Industries of the United Status, 1872, p. 1112,

[/]See Tuble XVI, p. 258.

o Hazard's Register, February 1829, Vol. III, p. 135.

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were angaged in covering with willows the carboys, demijohns, etc." The Boston and Sandwich Glass Company comployed in 1831, moreover, about 130 men, 46 boys under 16 years of ace, and 6 women. The latter were ongaged in painting glass and were paid \$1.20 per day." There is, however, no evidence of the employment of any women in the Dyottville Glass Works near Philadelphia where, in 1833, 300 men and boys were employed. "Theor the temijohns appendices. In 1844, however, we again hear of women in the industry, this time in a glass factory at Pittsburg where the demiindustry, this time in a glass factory at Pittsburg where the demiiohns were covered by girds "Delonging to the families of the blower."

In 1845 the wages of women glass makers are reported to have been 44.8 cents per day, in 1850, 55.7 cents per day, and in 1855, 59 cents per day.

By 1880 women and children were employed in the packing and hoys in the gathering of glass, especially of glassware. Out of 741 formales over 15 years of age in that year employed in glass works, 513 wore employed in glassware manufactories, most of the others being employed in the manufacture of green glass.⁷

Since j380, however, the number of women has nearly doubled in each decade, and they have come to be largely employed in the finialing and decorating departments as well as in packing. But, between 1900 and 1905 there was a slight decrease in the number of women and children employed in the packing and finishing departments and an increase in the number in the decorating department. To total result was a slight decrease in the number of women employed in the industry but an increase in their wayes, due to the fact that the decorations are higher paid than the packers or linkslers.⁹

The development of the various kinds of glass manufacture.^A especially the manufacture of light and fancy articles, together with division at labor, have brought women into the glass industry.

/ Touth Consus, 1880, Manufactures: Special Report on the Manufacture of Glass, by J. D. Weeks, p. 5.

#Special Reports of the Census Office, Manufactures, 1905, Part 111, p. 838.

4 in 1908 a. Now York glass worker stated that in one establishment in that city where art-glass lamp shades were made two girls were employed to wrap copper fails around the glass, and added that, they entered the art-glass indea hout two years ago. In New York (Ety they entered the silvering room (room for making mirrors), he said, about five years before.

[&]quot; Delaware Free Press, May 8, 1830; Mechanica' Press, Utica. March 13, 1836, Quoted from the Lowell Journal.

^b Executive Documents, Twenty-second Congress, first session, Vol. I, p. 123.

Boston Courier, May 6, 1833.

[#] The New World, December 7, 1844.

[«]Sixteenth Annual Report of the Massachusetts Bureau of Statistics of Labor, 1885, pp. 283, 202, and 200.

WOMEN IN OTHER INDUSTRIES.

Women have been employed in many other industries. The number engaged in the manufacture of electric apparatus and supplies increased from 72 in 1880 to 6,158 in 1900, and from 5.7 per cont of all the employees in 1880 to 15.1 per cent in 1900. An even more remarkable increase in the proportion of women employees has occurred in the making of soan and candles. In 1850 women constituted only 5.5 per cent of the persons engaged in this industry and in 1900 21.8 per cent.ª The first of these industries (the manufacture of electric apparatus and supplies) is, however, a new industry for both men and women, and consequently the women employed have not displaced men, unless it be considered that they have displaced potential men. The making of soap and candles is an industry which formerly belonged primarily to women as part of the routine of maintaining the home; it is one of the numerous industries which, when carried on in the home for household consumption, has heen part of woman's burden, and when carried on for sale or as a wholesale business has been appropriated by man.

In 1831 in once stablishment in New York, out of 30 hands smployed in packing seep, 20 were girk. The business of fancy seep making and the preparation of perfumery was said to employ in that year from 600 to 700 girk in New York City and from 3,000 to 5,000 in the country. In the rity the average aveges were giron as 84 a weak and in the country as about 33 a week.⁴ In 1870 buckles were said to be mado mostly by women. The thick wires were lench, according to a description given by Mrs. Robert Dale Owen hefore "Storesis," by mechinery and were worked by women into the required form, the teeth being afterwards sharpened and pointed.⁶

At Newhallville, Conn., in 1871, 300 girls are said to have been engaged in making rille extridges.⁴ And in 1872, out of about 150 hands employed by the American Lead Pencil Company, Hudson City, N. J., about 80 were women.⁴

The saddlery business in the New England States, like the manulacture of busiles and whips, was referred to in 1830 by a committee of the National Trades Union is 'in a certain measure governed by females.'' And in 1851 it was said that in New York ''a large number of females' were employed at very fair wages in the manulacture of leather goods.'' They appear to have been engaged in

[&]quot; See Table XV1, pp. 258, 259.

⁶ Burns, Life in New York, 1851.

[&]quot;The Revolution, March 24, 1870.

d Idem, February 16, 1871.

[«]Greekey and others, Great Industrius of the United States, 1873, p. 737.

[/] National Laborer, November 12, 1836. Reprinted in Documentary History of American Industrial Society, Vol. VI, p. 285.

[@] Burns, Life in New York, 1851.

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sewing by hand the lighter materials. It was many years later before severing machines were used in the business, blue when, about 1803, the wax-thread machine began to be used in the manufacture of harness $^{\circ}$ it was doubless operated by men. In 1871, however, a ''Indiy'' satillery and herries dealer in Chicago is said to have employed more than a hundred women upon ''Dhankots, nets, wraps, etc.''⁵ And in 1875 sewing girks engaged in the manufacture of lather were said to make \$4 a week in Kentucky and \$0 a week in California.'' In the tanning of leather the introduction of machinery has recently caused a substitution of women and girks for men, the proportion of women to the total number of employees in the division ''leather, turned, curried, and linkide'' increasing from 0.5 per cent in 1900, or from 264 in 1890 to 1,173 in 1900, an increase of 344.3 per cent.''

In the manufacture of rubber and clustic goods a large proportion of the employees have always here women. In 1850 females constituted 80.7 per cent of all the workers in the industry. One india rubber factory in New York in 1853 issuid to have employed between 200 and 250 hands, about 210 of whom were women. The hours were from 7 a, m, tot p, m, and wages from \$2.501 o.80 a week for the girls, boys, and apprentices, and from \$5 in 6812 a week for the men. The young women, according to the account, were complayed in cutting the rubber into garments and pressing the edges together to form the scans, and they worked in large well-ventilated and well-lighted rooms⁴. In 1860 the proportion of women employees in the industry appears to have decreased to 35.2 per cent, and it has lucituated considerably since that time, but has always remained over 35 per cent of the total number of employees.

The match industry, though small numerically in its employment of women, is important because of the damage, which it has always involved in this country, of phosphorus poisoning. The number of women employed, according to the remass figures, increased from 340 in 1850 to 1/20 in 1880, and then decremed to 733 in 1900, increasing again, however, to 1/248 in 1905. Meanwhile the proportion of women to the total number of employees decremed from 52.9 pc cent in 1850 to 38.5 per cent in 1900/ but rese to 39.2 per cent in 1905.9. The introduction of improved numebinery is responsible for

¹⁰ Depew, One Hundred Years of American Commerce, Vol. 11. ¹⁰ The Harness and Saddlory Trade,¹⁰ by Albert Morsback.

^b The Revolution, May 25, 1871.

[•] Young, Labor in Europe and America, 1875, p. 774 (United Statest Bureau of Statistics, Treasury Department.)

[#] Twelfth Census, Manufactures, 1996, Part I. p. exxiv, and Part III, Selected Industries, pp. 713, 714.

^{*} New York Daily Tribune, June 17, 1853.

[/] See Table XV1, p. 259.

[#]Special Reports of Census Office, Manufactures, 1905, Part 1, p. 13.

the decrease. Formerly hand work was used in most of the processes. and little or no skill was required. In 1866 a committee of the Eight-Hour League and Trades' Assembly of Detroit found a large number of girls, many of them not over 10 and some even as young as 7 years, employed in match factories in that city. All worked by the piece, doubtless packing the matches in boxes. They were fined if late, but were obliged to stav in the factories, even when not employed, to be ready for the work when it was furnished.^a In 1872 girls were generally employed to box matches and upon to dip them. The Swift and Courtney and Beecher Company in its three establishments was said to employ about 400 hands, the chief portion of whom were women and girls. Machines for cutting the wood were run by men.^b From the beginning of the industry, doubtless, a larger proportion of women and children than of men have been engaged in work which has subjected them to the danger of "phossy jaw."e

^b Greeley and others, Great Industries of the United States, 1872, pp. 1229, 1230.

"See "Phosphorus poisoning in the match industry in the United States," by Dr. John B. Andrews, Bulletin of the Bureau of Labor, No. 86, p. 33.

a Daily Evening Voice, May 3, 1866. Quoted from the Detroit Daily Union.

CHAPTER VII.

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TRADE AND TRANSPORTATION.

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CHAPTER VII. TRADE AND TRANSPORTATION.

GENERAL CONSIDERATIONS.

Though the number of women engaged in the manufacturing industries is still far greatest thrain in trade and transportation, the most rapid increase within recent years has occurred in the latter group of industries. In 1870 nearly 20 per cent of all the formules 10 years of age and over ourgard in gainful occupations were in manufacturing and mechanical pursuits and only 1 per cent in trade and transportation, but in 1090, while the proportion of women in manufacturing and mechanical pursuits had increased to 24.7 per cent, the propotion in trade and transportation had increased to 9.4 per cent, ⁸ The increase of women in trade and transportation industries was more marked, too, among malive-horn than among foreign-horn women.⁸ As for the proportion which women formed of the total number of persons engaged in trade and transportation, this increased from 1.5 per cent in 1570 to 10.1 per cent in 1900.⁸

There is not in every class a clear line of distinction between accupations in the group "trade and transportation" and the group "manufacturing and mechanical pursuits." Thus most of the "packers and shippers" are probably employed in manufacturing establishments, Many of the occupations classed under trade and transportation require a greater degree of education, skill, or knowledge of the world than is usually domanded in manufacturing usually domained in manufacturing the manufacturing the smally domained in manufacturing the manufacturing accompanied by any great wage advantage.

The trade and frausportation industries are peculiar, too, in that their development upon a large scale is comparatively recent, having followed in the train of the commercial expansion of the latter half of the nineteenth century. Just as wholesale manufacture, together with its handmaids, machinery and division of labor, caused the industrial revolution and brought women in large numbers into fac-

« See Table IV, p. 246. b See Table V, p. 246. See Table XVII, p. 259

lories, so wholesale trade for widdy sonttared markets, with its handmaids—the railroad, the steamship, the telegraph, and the typewriter, has caused a commercial revolution and is bringing woman in increasingly large numbers into the occupations included under "trade and transportation." The continual overcreving, moreover, of women's occupations, intensified from time to time by the invention of labor-saving devices, has tended to accentuate this movement, the end of which is not yet to be seen. The history of the employment of women in trade and transportation is, however, short and comparatively well known.

This group of occupations has been divided into two classes, (A) those in which the mightly of persons engaged are probably wageearners, and (B) those in which the majority are probably engaged in independent business. Of the latk-r class by far the hargest numher of women are "morehants and dealers (except wholesake)" and the next largest are "juncksters and peddlers." In the former compation the proportion of women has increased, but in the latter it has decreased. "The occupations classed under B, however, do not properly form part of this study." Of those in class A the most impartant, as employing the largest number of women, are the first fore in Table XVII, "seleswomen," "incomprepars and typowriters," "clerks and copyists," "hockkeepres and accountants," and "telegraph and telephone operators."

SALESWOMEN.

One of the favorite remedies proposed by Mathow Carey for the low wages of womon tailoreses and samatresses was to employ them in relaid shorps, for which employment, he wid, "they are antimizably calculated."¹⁶ And in 1835 the United States Telegraph made the following auggestion for the relief of the distressed working women: "Let them stand behind counters and attend to such parts of the relial fixed as its least laborious. Here at once would be a great source of employment, which would tend to equalize wages, and in other respects be advantageous to the public."⁸ In 1840, however, "Inew if any females" were said to be employed as clorely in this country.⁴

The subject was again taken up in 1845, when one of the speakers at a meeting in behalf of the working women of New York

⁴ See Table XVII, p. 259. For a description of the huckster women who were common in New York in 186, see the New York Daily Tribune, Sept. 13, 1846. Jul 1851, too, huckster women were familiar sights on the business streets of New York. See Burns, Life in New York, 1861.

^b Carey, Appeal to the Wealthy of the Land, third edition, p. 33.

[•] United States Telegraph, July 4, 1835.

d'Mechanics' and Labourer's Guide, etc., to the United States, 1840, p. 256.

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recommended, according to the New York Heraldy that the working women memorialize the merchants in dry-goods establishments to employ women. She stated, too, that there were "ratious other branches of business in which men were employed for which females alone were suitable and intended," and suggested that the men in these occupations "go out to the fields and seek their irvihilood as mon ought to do and leave the females their legitimate employment."

The employment of women in dry-goods stores was also advocated at this time by the New York Sun and the Tribune. "Let them send committees to those stores," said the Sun, "in which women should be employed and are not, to ask dealers to dismiss their men to manly occupations and save for society a thousand women from want and temptation."a The Tribune even went so far as to suggest a boycott of those shops which did not employ women. "All our stores," it said, "mainly visited by women should be attended by women. It is a shame that fine, hearty lads, who might clear their 50 acres each of western forest in a short time, and have a house, a farm, a wife, and boys about them in the course of ten years, should be hived up in hot salesrooms, handing down tapes and ribbons, and cramping their genius over chintzes and delaines. They should know better; but, if they do not, our women of intelligence and means should take compassion on their less fortunate sisters and for their sake refuse to trade where they can not be waited on by females."6 Thus was the principle of the Consumers' Learne, recently used to protect saleswomen and others from bad working conditions, originally suggested as a means of introducing women into the very positions in which they have needed that protection.

As late as 1851, however, there were faw shopwonnen in New York, and the time when they should be employed was looked forward to as the millenium of the working wonant. A shougid was referred to by one writers as "more fortunate than the great majority of her sax," and the picture of "the strong youth, frittering away bis strength and emasculating his manhood behind the counters of our reali shops" was pronounced as "and to contemphate" as that of the wonant overtaking her strength by working 14 or 18 hours a day.* A little later the New York Time National Democrat, comparing this country and England with Europe in the matter of the employment of woran in stores, stated that "50,000 realis lateres" in our large cities and towns ought to afford employment and good wages for 100,000 woran."

[&]quot; Quoted in Workingman's Advocate, March 8, 1845.

New York Daily Tribuno, March 7, 1845.

Burns, Life in New York, 1851.

⁴ Quoted in The Unn, September, 1853.

Tribune, later joined by the Times,* renewed its agitation in favor of the employment of saleswomen, charging that "the offeminacy of the half-men who come into competition" with women in their narrow range of occupations was one of the causes of their low wages, and advising wealthy women to "decline to buy at shops and stores waited on by men."⁹

For some reason, however, few women appear to have been employed in stores until the time of the civit war. The hours of work in shops in New York in 1863 were from 7 in the morning until at least 6 and often until 10 or 11 at night, with half or three-quarters of an hour for dinner.⁴ During and immediately after the war, however, the agitation in favor of the employment of women as clerks in stores where women were the purchasers was renewed by Miss Anum E. Dickinson,⁴ the Rev. Henry Morgan of Boston,⁴ and others. In 1869 the American Artisan spoke of the precarious status of drygoods clerks.⁴⁷ About this time women began to displace men in retail allops and before many years the office of usch employusent to rennely low wages and long hours had been tested by experience.

By all of these early advocates of the saleswoman as opposed to the salesman it seems to have been assumed that when women entered the stores they would step, so to speak, into the shoes of the men clerks who had gone "to the fields" or "out west." The factor overlooked by them was that, when women replace men, the standard of wages in the occupation tends to be reduced to the level of women's wages in other occupations. Once women were introduced in the stores, however, not only did this tendency become apparent, but the work soon proved itself so attractive, as compared with other women's occupations, that the pressure of numbers served further to reduce wages. The hours, too, though they have been gradually shortened, have always been long, and it soon became evident that the constant standing, which had been required of men, was injurious to women. Other evils, too, appeared. The history of saleswomen, then, like the history of other classes of working women. early becomes a story of hard work, long hours, and low wages.

Even in 1865, when employment in stores was still being urged as a desirable outlet for women from the sewing and other congested trades, complaint was made of the competition of partly supported girk. "In agreement with the destimony of a lady," said the Daily

[&]quot; Hunt's Merchant's Magazino, Vol. XXXIII, p. 766.

^b New York Daily Tribuno, June 24, 1853.

[&]quot; Fincher's Trades' Review, November 21, 1863.

d Idem, March 11, 1805; Daily Evening Voice, April 8, 1865.

Daily Evening Voice, February 12, 1866.

[/] American Artisan, August 4, 1869.

Evening Voice,⁶ "a gentleman informed us that he knew of young women, whose parents had ample means for their maintenance, new employed behind the counters of first-class stores for very moderate compensation, while others in the same employ must of necessity endure grievous privations and self-dening, because the same compensation in their case is utterly inadequate to their proper support."

A method of keeping down wages was to hirr young girls to be taught the business, paying them little or nothing, and thon to discharge them 'as soon as they began to expect more pay. The Philadolphia Saturday Night asserted in 1806 that in almost every ristal establishment in that city it was the custom to procure the services of a young girl six months for nothing under the pretense of teaching hor the business—though alm was a useful hand at the end of one month—then give her \$2 a week for six months and \$3 ta week the second year, and diselarge her the third year to make room for new comers who cost nothing. It was said \$3 a week was the highest rate paid the oldest and best hands in the majority of stores.⁴

In New York wages appear to have been somewhat higher, but the hours were very long. A saleswoman in a first-class dry goods store in New York in 1808 testified that she made 87 a week working from 8 in the morning until 9 at nights⁶ A nother saleswomen said alse worked from 7 until 9 five nights a week and on Saturday from 7 until 11 for 86 a week.* About the same time it was said that, while 'a saleswoman in one of our Broadway stores will receive eight or ten dollars per week * * * a man, at the same counter, who does much less to influence trade, receives fifteen or twonty dollars.''

Saleswomen in Boston in 1869 are said to have received from 5.5 to 37 a week, only the observest enring the inter sum. Unless they lived with their parents the cost of board was about 35 a week, loaving, abviously, for the more poorly paid, nothing for elothing or incidential expresses of any kind. At the same time they were required, of course, to dress better than scamstresses or factory operatives,⁴

By 1870 the saleswomen of New York were sufficiently numerous to form an organization for the purpose of self-protection,7 and in

a Daily Evening Voice, April 7, 1865.

^b Quoted in the Workingman's Advorate, September 8, 1886.

[&]quot;The Revolution, October 1, 1868.

d Idem, February 19, 1868.

[&]quot;Idem, May 13, 1869. Quoted from the Boston Daily Advertiser.

[/] Idem, July 21, and August 4, 1870.

June of that year the women employed in stores on Sixth and Sighth avenues, Grand and Catherine streets asked the aid of the Olerke' Early Closing Association in inducing their employens "to follow the example of the Broadway shopkeepers and close their establishments at 7 p. m. except on Saturday avenings." They were accustomed, they said, to stand on their feet continually, not being allowed to ait down, from 8 a. m. to 11 p. m.^a It appears from the accounts that the employees of the Broadway shopkeepers were mainly men and had secured a reduction of hours through the Clerke' Early Closing Association.

Even before this time the physical harm to women of long standing bohnd counters began to attract attantion. In Philadelphia, where more girls were employed than in any other city, a large number were said to be suffering from diseases induced by long standing. One omployer in that city, however, had already broken through the time-honored rule of the trade and allowed his girls to sit down behind the counters.¹ In Bochon, too, complaint of this rule arcse in 1860. Because for the girls to sit down, and a writer in the Boston Daily Advertisor,⁴ would make trade appear dull, they were required to stand from 8 a. Ito 6 p. m. with the exception of an hour for dimer. It was suggested blat the constant standing position was probably as injurious as the use of the sewing machine.

In New York where the same excuse was made for compelling asleswomen to stand all day, viz, that if they were scatted it looked as if trade were dull, it was suggested that the names of all employers who forbade standing all day should be published in order that they might be patronized.⁴

By the end of the seventies agitation begin in favor of legislation providing that a desworms about the furnished scata and be allowed to use them, and also in favor of laws limiting the hours of labor. The ensutient of such laws and the growth of great department stores with their hundreds of working women, constitute the two great changes since the sixties and seventics in this class of occupations. From 1880 to 1000, though the number of saisesworm increased from 7,462 to 142,265, the proportion to the total number of employees changed only from 23.1 to 23.3 per cent.⁴

STENOGRAPHERS, TYPEWRITERS, CLERKS, COPYISTS, BOOKKEEP-ERS, AND ACCOUNTANTS.

Even before the invention of the typewriter women were employed to a certain extent as copyists. In 1870, for instance, they are said

[&]quot; The Revolution, June 2, 1870. American Workman, June 11, 1870.

^b Penny, Think and Act, 1869, p. 57.

Quoted in the Revolution, May 13, 1869.

⁴ The Revolution, July 15, 1869.

[·] Sce Table XVII, p. 259.

to have been amployed in Washington to copy speeches and other documents for Members of Congress, and in other eities lawyers employed them to copy briefs and various logal documents. In January, 1371, a statement appeared in the Revolution^a that many lawyers in the eity would be willing to give work to competent women copying clarks if their orders could be filled on short notice. It was further suggested that 8 or 10 women clarks should combine to rent an office in the lower part of the city in order to accure this business. For this work women were paid in some cases from 3 to 4 cents for every hundred works, and in other cases from 3 to 3 cents a page.⁵

Though women were said to be sometimes employed to write from dictation at a salary of about \$600 a year; their first exportance as stemographers appears to have been in the transcribing of notes taken by men. Thus in 1849 hos stemographer of the surrogates' court, New York, wrote a letter to the Revolution calling attention to "phonographic reporting" as an industrial field open to women "in which the pay is renumerative, but into which they do not seem much inclined to entor." For several months past, he said, he land all all his shorthand notes taken in court transcribed by a girlt, to whom he had paid the same wages as to a man, and who had proved vary efficient.⁴

As long, indeed, as the use of stenographers was confined to contriwork and to the reporting of long public speeches—work which is still generally done by men—women gained little foothold in the business. As industries, however, have expanded and commerce has grown, the tendency toward concentration and the adoption of labor-saving devices in trade as well as in manufacture have created a great-lemand for stenographers, typowritene, clorks, and copylats for ordinary business work—a demand largely filled by girls. This domand and comparatively promising field of employment has been opened to women.

Women elerks began to be employed about the same time or even active than women copyists. In 1861 they were first compleyed in the Treasury Department to clip or trim the notes, which some afterwards was done by machinery. The women, however, remnined, doing other kinds of work, and gradually their numbers increased-most of the new ones being, for a time, war widews or orphans. By 1866 they had proved their efficiency, and were recognized by act of Congress and their salaries were fixed at \$900 per year. In 1870, however,

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⁴ The Revolution, January 12, 1871.

[&]amp; Penny, How Women Can Make Money, p. 11.

[•] Idem, p. 1.

d The Revolution, January 14, 1869.

Congress legislated that women clerks should be graded like men and should receive the same salaries. As late as 1868, however, no women were employed in the Congressional Library, or in any department except the Treasury, Post-Office, and War."

As bookkeepers and accountants the employment of women was suggested as early as 1845, when one of the sneakers at a meeting held in behalf of the working women of New York stated that "there were hundreds of females in this city who were able to keep the books as well as any man in it." And in 1853 a writer in the New York True National Democrat said that, "as accountants and bookkeepers, females would stand unrivaled."

It was not, however, until the sixties that women began to gain a foothold in this occupation, and then at much lower salaries than were paid to men. It was said, for instance, in 1868, that when a New York merchant found himself in need of a bookkceper he employed a woman for \$500 a year, whereas he had paid her predecessor, a man, \$1,800.4 By 1870 several women were said to be employed as bookkeepers in New York at salaries of from \$16 to \$20 a week." Another writer added, however, that men of the same capacity and acquirements as these \$16 to \$20 women bookkeepers would domand from \$25 to \$40 per week. /.

Soon afterwards the increased demand for stenographers and bookkeepers caused the starting of business schools where women could receive training for such work. In 1871 S. S. Packard of New York offered to educate 50 young women free for business. Other schools were opened to women and at first gradually, then rapidly, they entered this new field of employment.

In 1870 there were reported to be employed in this group of occupations, including "stenographers and typewriters," "clerks and copyists," and "bookkeepers and accountants," only 9,982 women. In 1880 the number increased to 28,698, in 1890 to 168,808, and in 1900 to 238.982.4 Meanwhile the proportion which women formed of the total number of persons engaged in these occupations rose from 3.3 per cent in 1870 to 5.7 per cent in 1880 and to 16.9 per cent in 1890. In 1900, 75.7 per cent of the stenographers and typewriters, 12.9 per

"The Revolution, February 19, 1868.

e Woman's Journal, Boston and Chicago, Soptember 17, 1870. Quoted from the Boston Post.

The Revolution, October 20, 1870.

p Idem, February 23, 1871.

A See Table XVII, p. 259. The figures for 1370 and 1800 also include saleswomen, of whom there were 7,462 in 1880 and 142,265 in 1900.

a The Revolution, April 16, 1868.

b Workingman's Advocate, March 8, 1845. Quoted from the New York Herald. Reprinted in Documentary History of American Industrial Society, Vol. VIII, p. 228. · Quoted in The Una, September, 1853.

CHAPTER VII.-TRADE AND TRANSPORTATION.

cont of the clerks and copyists and 28.6 per cent of the bookkeepers and accountants were women."

TELEGRAPH AND TELEPHONE OPERATORS.

As telegraph operators women were employed almost, if not quite, from the loginning of the business. In 1868 fitteen young women were said to be employed in one office in New York,⁹ and later in the year the American Telegraph Company was reported to have in its employment about 80 female operatives, nearly half of them in New York. Their salaries varied from 330 to 350 per month, while male operators received an average of 375 per month and several over 3100.° In 1870 the salaries of women telegraph operators were reported to be from \$15 to 520 per weak.⁴ But in 1871 good operators, it was said, received 30 a month and first-class potentors 30 are

In 1869 Cooper Union of New York, in conjunction with the Western Union Telegraph Company, established a tree school for teaching tolography to women. This was said to have been the first attempt in this country to give women a regular training as telegraph operators.⁷ Thitteen pupils graduated from this school at the end of unce torm in 1871. Some pupils, it was said, graduated at the end of three months.

By 1870 women were said to have proved ''s great success'' as telegraph operators.⁶ Even in San Francisco at that time a young woman had charge of one of the Western Union branch offices and a number of others were learning to operate the telegraph.⁴ And in 1871 two women telegraph operators of New York built a city telegraph line, opened offices on Broadway and in other places, "purchased a partion of the Manhatan Company's wires," and started out to "cooperate with all the opposition lines,"¹⁴

Primi 1870 to 1990, telephone and telegraph operators were grouped together in the census reports on occupations. The number of women employed in the group has increased enormously, as has also the par cent which they form of the total number of persons engaged in these occupations. In 1870 only 350 women were reported, and in 1900, 21,080. Meanwhile the propertien of women, as compared with the total number of persons engaged, interessed

- " See Table XVII, p. 259.
- 6 The Revolution, July 30, 1868.
- 41dom, Docember 10, 1868.
- d'The Woman's Journal, Boston and Chicago, February 20, September 17, 1870,

/ Idom, Fobruary 18, 1860.

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[&]quot;The Revolution, June 29, 1871.

[#] idem, Decombor 20, 1870.

h Lihm, September 8, 1870.

⁴ Idem, March 16, 1871.

^{49460°-}S. Doc. 645, 62-1-yor. 9-10

from 4.3 per cent to 29.3 per cent.ª Since 1900, two special reports on the telephone and telegraph systems of the United States have been issued by the Bureau of the Census, for the years 1902 and 1907. The data in them are not strictly comparable with the precoding census figures, because employees are classified merely as male and female, with no distinction as to age, and because the number of operators reported is an average for the specified years, as reported by the companies, while the data from 1870 to 1900 are made up from the number of persons who individually gave their occupations as telephone and telegraph operators. On the other hand, telephone operators are reported separately, and it at once becomes evident that the great increase in the group, telephone and telegraph operators, is in the number of female telephone operators; for in 1902 there were 37,333 reported, with but 2,525 male operators, while by 1907 the number of female operators had increased to the surprising figure of 76.638, while only 3.576 male operators were reported.^b Corresponding figures are not available for women telegraph operators. In 1902, however, the commercial companies employed an average of 2,914 female operators and 10,179 male operators. This must represent a considerable increase over the number in earlier years.". In the same year the railway telegraph and telephone companies reported 30,336 operators and dispatchers. but did not report as to sex.4 Undoubtedly the employees in this branch of telegraphy are largely male.

Son Table XVII, p. 250. Girls under 10 years of ago are excluded.
b United States Consus: Special Report on Telephones 1907, p. 71.
c United States Consus: Special Report on Telephones and Telegraphs, 1902, p. 102.
4 Jdom, p. 104.

APPENDIX.

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APPENDIX.

TABLE I.-PEROKNTAGE OF BREADWINNERS IN THE FEMALE POPULATION 16 YEARS OF AGE AND OVER, BY GEOGRAPHICAL DIVISIONS, 1870, 1880, 1890, AND 1900.

[The figures for 1900, 1899, and 1880 are from Special Reports of the Cenaus Office: Statistics of Wongen at Work, 1900, page 131; those for 1870 are derived from the Ninth Cenaus, 1870; Population and Social Butalitie, page 1370 and 19-765.]

Geographical division.	1870.	1880.	1890.	1900,
Contigental United States	14.7	10.0	19.0	30.0
North Atlantic Division. Bouth Atlantic Division. North Ceating Division. Bouth Central Division. Western Division.	10.1 20.0 0.2 17.9 0.3	18,7 21,4 10,2 18,1 10,6	22.4 23.3 11.4 19.6 15.4	24.0 25.0 16.2 20.8 16.8

TASLE II.—PERCENTAGE OF BREADWINNERS IN THE FEMALE POPULATION & YEARS OF AGE AND OVER, FOR CONTINENTAL UNITED STATES, CLASSIFIED BY AGE, RACE, AND NATIVITY, 1880 AND 1000.

[From Special Reports of the Census Office: Statistics of Women at Work, 1900, page 21.]

Reco and nativity.	15 to 24 years.		25 to 34 years.		35 to 44 years.		45 to 54 years.	
	1890.	1900.	1890.	1900.	1890.	1000,	1890.	1900.
All classer :	29.6	39.6	17.2	10.0	13.2	15.6	12.9	14.7
Native white, both parents native Native white, one or both parents foreign-born.	17.7	20.1	11.4	13.9	0.2	11.6	10.0	11.0
Pareign-born white Negro- Indian and Mangolian	50.4 45.3 15.7	48.0 47.4 14.0	10.8 37.4 10.4	10.8 41.8 15.2	12.0 37.0 10.7	13.0	10.5 37.8 16.8	11.7

65 to f4 years.		05 years and over.		Age niknown.		Total.	
1890.	1000.	1800.	1900.	1890.	1060.	1803.	1900.
12.0	13.2	8.3	9.1	:00.8	94.9	18.0	28,6
1.0	11.2	0.7	7.8	22.2	15.2	12, 4	14,0
10.7 9.4 37.2 15.0	11.0 0.8 41.0 17.6	7.2 6.1 20.2 13.8	7.7 6.2 28.5 13.6	31.1 37.5 42.1 10.9	25.1 26.3 38.3 6.5	25.3 19.8 39.9 16.2	25.4 19.4 43.2 16.3
	18:00. 12.0 9.0 10.7 9.4 37.2	1890. 1000. 12.0 13.2 0.0 11.2 10.7 11.0 8.4 0.8 37.2 41.0	1890. 1000. 1890. 12.0 13.2 8.3 0.0 11.2 0.7 18.7 11.0 7.2 9.4 0.8 6.1 37.2 4.1 0.2	astrony years aver, 18900, aver, 18000, aver, 18000, aver, 19000, 12.0 13.2 8.3 0.1 10.0 11.2 8.3 0.1 10.7 7.8 0.1 5.2 10.7 1.0 7.2 2.0 1.0 37.2 41.0 20.2 28.5 1.0	of Intri youts byer, byer, 1890. rpstin 1890. 1000. 1890. 1990. 1980. 12.0 13.2 8.3 0.1 18.8 0.0 11.2 0.7 7.8 22.9 10.7 11.6 7.2 7.7 31.1 9.7.2 4.0 9.0 29.5 347.3	Bern Hy Jennik Tayer, 1890. Part Hindhown, 1890. Part Hindhown, 1890. 12.0 13.2 8.3 0.1 10.8 24.2 9.0 11.2 0.7 7.8 22.2 16.2 18.7 11.6 7.2 7.7 31.1 25.1 19.7 11.6 7.2 7.7 31.1 25.1 37.2 8.0 90.9 29.2 29.2 16.2	as in the proof. Bayer, Bayer, 1260. Post minuteres. Post minuteres. O 1260. 1000. 1500. 1000. 1000. 1000. 12.0 15.2 8.3 0.1 38.8 91.2 10.0 10.0 11.2 0.7 7.8 22.3 15.2 15.2 10.0 11.2 0.7 7.8 22.3 15.2 12.4 10.7 1.0 7.2 7.7 31.1 25.1 25.3 25.4 10.7 2.6.2 2.7 7.3 2.2.2 15.2 12.4

TABLE III.—PERCENTAGE OF BREADWINNERS IN THE PEMALE POPULATION IS YEARS. OF AGE AND OVER FOR THE UNITED STATES (AREA OF EXUMERATION). (LASSI-PIED BY RACE, NATUTY, AND MARITAL CONFITION, 1860 AND 1960.)

(From Special Reports of the Cousts Office: Statistics of Women at Work, 1900, p. 22.)

Roes and nativity.	Single.		Married.		Widowed.		Divorced.	
Race and nativity.	1800.	1990.	1890,	1900.	1850.	1000.	1890.	1000.
All classes	40, 5	43.5	4.6	5.0	29,3	31.5	40.0	63,;
Nativo white, both parents native Nativo white, one or both parents	27. 5	31.4	2.2	3.0	23.7	26.1	42.0	47.4
fordign-born Foreign-born white	44.4 70.4 59.3 25.0	49.1 00.4 00.5 18.8	2.7 3.0 22.7 8.0	3.1 3.6 21.0 10.7	30, 3 21, 3 62, 6 28, 2	32.3 20.7 67.0 30.0	47.9 41.8 79.8 (n)	51. 51. 12.

" Per cent not shown where base is less than 100.

[The figures and percentages for 1880, 1890, and 1900 are from the Twelfth Census, 1900; Special Report on Computing, pages Sch, Schl, and Zevl. The figures for 1870 are from the Ninth Census, 1870; Population and Scienti Buttistics, pages 670, 917.]

	1670	L.	1880	6	1800	k	1993	N
Compution groups and geographical divisions.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
All perspations: Confinental United States	1,838,288	100.0	2,647,157	100.0	1,095,532	100.0	5,319,397	100.0
North Atlantic Division South Atlantic Division North Cantral Division South Central Division Agricultural purganitis: Continential United States	342,100	100.0 100.0 100.0 100.0 100.0 100.0 21.6	070, 075 658, 270 637, 090 529, 014 45, 208 594, 810	160.0	721,448	100.0 100.0 100.0 100.0 100.0 100.0	1,814,310 907,440 1,397,631 971,821 108,285 077,335	100.0 100.0 100.0 100.0 100.0 100.0
North Atlantic Division North Atlantic Division North Central Division South Central Division Professional service: Continental United States	2, 689 184, 751 5, 296 202, 684 569	14.7 14.7 54.1 2.8	4,048 201,009 15,402 309,039 1,115 177,255	47.3 2.0 58.3 2.5 6.7	20, 674 282, 496 81, 821 378, 013 0, 839 311, 687	1.4 30.2 8.1 62.7 0.3 7.8	84,683 334,946 100,019 492,360 15,382 430,597	1.9 36.5 7.2 50,1 7.3 8.1
North Atlantic Division North Atlantic Division North Central Division Sonth Central Division Womern Division Tomesile and personal service: Continental United Buttes	********		70,079 13,141 74,253 12,444 6,453 1,181,300	7-3 2-4 13.8 2.3 14.4 44.0	100, 671 25, 570 134, 617 27, 349 17, 490 1, 607, 651	7.0 3.5 13.3 3.8 14.1 41.0	141,025 37,411 178,061 42,1041 30,220 2,005,410	7.6 4.1 12.8 14.2 16.2 39.4
North Atlantic Physics Routh Atlantic Division North Control Division South Control Division Youth Control Division Trate and Transportation: Positionental United Biolec	200, 544 284, 025 158, 174 16, 002	59.5 18.5 51.0 42.2 77.0 1.0	437, 149 225, 064 310, 300 181, 002 24, 185 03, 058	41.8 40.8 57.8 34.3 53.5 2.4	678,772 309,634 473,807 247,132 -00,210 298,431	40.4 42.9 40.7 34.5 48.4 6.7	601.717 380,053 507,258 346,050 85,435 603,347	37.8 41.9 42.7 35.1 43.7 0,4
North Atlantic Division South Atlantic Division North Central Division Routh Central Division Wristern Division	13,389 1,923 2,251 974 161	1.967.37	38,500 0,757 13,430 3,171 1,194	3.0 1.2 2.5 .0 2.0	115,477 17,523 74,076 10,958 0,187	8.1 2.4 7.4 1.6 7.0	238, 023 32, 882 181, 047 25, 023 25, 772	12.0 3.0 13.0 13.0
Continental United States	353, 950	10.3	031,034	23.8	1,027,028	25.7	1, 312, 603	24.7
North Atlantic Division South Atlantic Division North Control Division South Control Division Western Division	201, 833 25, 961 39, 583 12, 670 3, 894	38.2 14.5 14.5 14.5 14.5	425, 102 40, 200 123, 740 23, 058 12, 220	43.5 8.3 21.0 4.5 37.0	6218, 825 85, 223 240, 035 63, 641 30, 403	42.0 12.0 24.6 7.6 24.4	739, 802 122, 148 340, 240 (0, 020 40, 020	40.1 13.5 24.3 7.2 20.6

The 1994 has interdingliable uses 0 Applications ¹⁰ embeddenia and explored user/set ¹⁰ ¹⁰ Yoods that imprations in the interding of t

TABLE V. PER DENT IN EACH OCCUPATION GROUP OF NATIVE AND POREIGN BORN PENALES, IN YEARS OF ARE AND OVER, BIGAGED IN GAINFUL DECUPATIONS, 1889, 1869, AND 1960.

(From the Pwelfth Course, 1966: Special Report on Occupations, page exc.)

Organitation growth.	N	allye-born		Perelgn-born.			
Origination group.	1880,	14884.0	1900.	1880.	1890,0	1000.	
All occupations	100.0	100.0	100.0	300.0	100.0	100.0	
Agricoliumi pamalia. Professional service. Domestio anti personal service. Trate anti transportation. Manufacturing and personalisi purcetts.	20.7 7.5 40.4 2.2 22.2	22.8 0.1 37.3 8.0 24.8	21.1 0.1 30.0 0.0 ZL3	1.5 2.0 00.5 3.5	4.4 2.5 50.4 4.8 20.2	4.7 2.0 53.3 7,2 31.0	

"Corrected figures, See Twelfth Cenaus, 1000; Special Report on Ovenpations, p. Javi, for explanation.

TARKS VI-PER CENT IN RACII OCCUPATION GROUP AND IN SELECTED OCCUPA-TIORS OF PEMALE BERADWINNERS IS YARASOF AGE AND OVER, POR THE HINTEN) STATES (AREA OF ENUMERATION), CLASSIFIED BY RACE AND NATIVITY, DEG AND 1900.

[From Special Reports of the Census Offler Scalistics of Women at Work, 1900, page 161.]

		Native	white	۹. (in the second			
Occupation,	Itst	oth ents lve,	tol	e or a pa- a lor- born.	For	elgn- white,	Ne	gro,	Ŧo	tal:
	1890	1900.	1820,	1900.	1890.	1900,	1890.	1900.	1890.	1900
All occupations.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
Agricultural pursuits	14.0	15.0	1.7	23	4.4	4.8	41.2	39.8	16.0	10.
Agricultural laborers	3.8	0.4	. 1	-0	.4	0	35.6	31.6	9.8	B,
Professional service	16.2	16.1	0.2	0.9	2.0	3.0	1.0	1.3	8.4	8
Peachers and professors in colleges, etc.	12.7	11.4	7.5	7.8	1.8	2.0	.0	1.2	0.6	a.
Domestic and personal service	1000	30.4	39.5	30.0	60.7	53.0	51.0	55.N	42.8	40.
linthers and halfdrossets	- 11	.1		.2	a	1.	1	1	1	
Boarding and lodging house kcepers	1.3	1.7		.0	1.3	1.7	.2		.9	1.
liotel keepers and stewardesses			1.5	2.0	2.6	3.5	(a) .9	(0)	2.3	2
lanitors and sextons	(0)	1.2	1	.2	-2	1.0	4.0	6.3	di	2
Landresses. Nunca and midwives.		2.3	1 1.0		4.2	5.0	17.3	18.6	5.8	6
Numes and midwives	1.3	2.4	25.3	1.7	1.7	3.1	3).2	1.6	1.1	2
Servanta and waltresses Other domeatic and personal service	.2	.2	.2	.3	30.1	-0	1.0	24.8	.2	24,
Trade and transportation	7.7	12.0	31.1	17.0	4.5	7.2	.3	.3	0.11	1 1
Agonts		.4	1.	.2	1	2.7	(0)	12	.1	1
Bookkcepers and accountants. Clerks and copyists.	1.1	2.0	1.4	2.7	-3	-7	18	18	1.7	11
Merclants and dealers (except wholesule)	3.6	6	1.7	.7	1 1.6		1.2	1 3	1 7	1.1
Packers and shippers	1.7	3.4	3,7	3,9	:0	2,0	(0)	10)	.2	1 2
Stenographers and typewriters Telegraph and telephone operators	1.0	2.5	.0	3.0		2.0	52	1.82	1.5	Ĩ
Telegraph and telephono operators. Other persons in trade and transportation	.3		.4	.8	1.4	125	(a)	100	.2	
Manufacturing and mechanical	29.0	27.0	47.6	40.1	28.8	31.4	1.0	2.8	21.8	25
Dookbindera	.2			.8	.2	1.2	(#)	(+)	.3	-
Hoot and aboo makers and remairers				1.5		1.6	00000			
Box makers (paper)	.3	1.3	.0	.8	.2	1.3	(2)	000	.3	
Glovounkers.	1.12	1.2	1.1	.7		1	123	183	1	
Gold and silver workers.	1.11		12						-1	
Paper and pulp null operatives.	.2	1.3	.0	14		3	(a) (c)		.3	
Inoveniments Tooki and sliver workers Paper and pulp utill operatives. (Trinters, Itlogotaphers, and preswromen. Ruinher-factory operatives. Set Itle-mill operatives. Could and operatives.	1	1.1	1.04	3			165	(0)		
Carpol foology operatives	4.2		10.0	7,4	10.2	9.7	(*)	302	6.7	5
Cotton-mill operatives	1.7						1 255	123	2.3	2
Hoslery and knitting-mill operatives.	.6	1	1.0	1.0	:5	17	1 522	52	10	12
Woolen-mill operatives	1 .6	1 .4	2.1	11	1.4	1.1	00000	1000	.0	1
Cation-mill operatives. Hostery and knitting-mill operatives. Rilk-mill operatives. Woolen-mill operatives. Other textile-mill operatives.		.0	1.202	1,9	2,0		1.2.2		1,2	
Poxtilo workers	10.0	16.3	26.2	21.1	13.7	14.8	2.3	2.1	15.8	13
Dresemakers. Hat and cap makers				.3	0.0	0.0	(0)	(a)	.2	
Mullners.	2.7		2.3	2.6	.2	1.1	(°)	8	1.6	1.1
Milliners. Heamstreasta Shiri, collar, and cuif mokers.	1.3	3.4	6.3 .9	3.8	2.8	3.0	1.3	1.0	3.0	2
Talloresses. Other toxtilo workers				2.2		2.0	(2)	18	1.7	1 1
Other textile workers	12	1.8	1.0	1,0	.3	1.2	(0)	(a)	-3	
Other manufacturing and mechanical								.4	1	
paraulta	1.7	2.8	4.4	6.6	1.8	3.5	1.1	.2	1.0	3

. Less than one-tenth of I per cent,

TABLE VIL-PER OENT, BY CONJUGAL CONDITION, OF FEMALES TEN YEARS OF AGE AND OVER ENGAGED IN SPECIFIED OCCUPATIONS, 1830 AND 1860.4

	1.0.00	16	190.		1	16	00.	
Occupations.	Singles	Mar- ried.	Wid- owed.	Di- vorced.	Single.o	Mo ried.	Wid- owed.	DI- vorced
All occupations	0 70 5	\$ 12.9	615.7	60.A	18.2	14.5	10,1	1.5
Agricultural pursuits	b 50.1	\$ 19.8	\$ 29.3	4.8	46.8	23, 2	20,0	1,0
Agricultural laborers	67.5 9.0 40.2	⁶ 22.7 13.0 20.7	8.9.4 76.4 37.4	4.4 1.8 1.7	84.4 9.1 31.6	26.7 15.6 26.2	H.3 73.4 40.1	1.4
Professional service	87,9	0.0	4.6	.6	87.5	7.4	4.6	1
Musicians and leachers of music Teachers and professors in collegus, etc All others in this class	80.0 02.0 154.0	, 11.9 4.5 20.9	6.9 3.1 13.7	1.2	7R.8 92.2 64.4	12.3 4.5 21.3	11.7 2.9 12.6	1.5
Domestic and personal service.	69.9	12.8	16.3	1.0	64.2	15.4	18.8	1.4
Boarding and lodging house keepers. Housekeepers and stowardesser. Laborner frod specified) Jaundresses. Nurses and hidwiver. Rervands and waltresses. All others in this class.	33.6 50.0 81.5	23.2 16.2 26.8 31.6 13.1 8.2 24.6	00.1 33.4 21.4 33.2 85.1 9.6 44.5	3.5 2.3 1.0 1.6 1.8 2.4	14.0 50.5 49.7 30.1 58.7 78.0 27.11	26.3 12.3 25.3 31.3 12.7 9.4 30.6	45.7 25.7 23.4 34.2 27.0 10.6 39.1	49142444
Trade and transportation	82,2	7,4	0.7	1	85.5	6,8	7,0	
Bookkeepers and accountants. Clerks and copyists. Merchants and dealers (except whole-	92.6 90.6	4.3 4.5	2.6	.5 .5	98.0 90.2	4.0 4.9	2.5 4.3	3
sale). Prokers and shippers. Baleswornen. Blongraphers and typowriters. Telegraph and telephone operators. All others in this class.	92.0	24.7 4.5 4.3 2.4 5.5 10.5	48,2 3,2 3,3 2,4 3,2 2,7	1.334765	25.2 92.1 90.7 95.0 -02.9 (21.0	2X 3 4.3 2.4 4.0 18,3	44.7 2.9 3.6 2.0 2.0 20.0	Tered
Manufacturing and mechanical pursuits.	79.0	10.7	2.4	.0	77.7	11.8	0.4	L
Hook blinders. Hook and also makers and repairers. How makers (npper). Cotton-mill operatives. Drassinakers Hookers and kolitting-mill operatives. Matal workerse.	94.6 82.7 74.9 85.9 90.3 21.8	2,3 11,4 3,0 12,6 12,1 6,6 17,3	2.9 4.8 2.4 11.0 3.0 0.0	1.334503	93.4 82.7 93.7 78.8 69.1 89.7 89.7 70,3	2.0 11.6 3.6 16.3 14.3 6.1 7.2 12.1	3.77 4.74 4.83 14.83 14.83 14.83 14.83 14.83 14.83 14.83 14.83 14.83 14.83 14.83 14.83 14.83 14.83 14.83 14.83 14.84 14.83 14.84 14.83 14.84 14.83 14.84 14.83 14.84 14.	TA DE LET
Printers, Uthographers, and press- women Seamstreases Bhirt, collar, and cuff makers, Bhirt, collar, and cuff makers, Bilk-mill operatives Tailoresses Tailoresses	90.1 72.1 87.3 92.8 79.8	5.7 10.0 6.1 4.6 9.5	3.5 16.6 6.1 2.5 10.0	1.3.5.1.7	90.2 71.2 85.8 92.0 80.3	6.0 10.7 7.7 6.2 8.8	3.1 16.6 5.0 2.5 0.1	10000
TextBe-mill operatives (not other- wise specified) a Tobacco and eight factory operatives, Woolen-mill operatives. All others in this class.		10.2 10.4 9.2 8.0	8.7 6.5 4.1 7.3	.44	83.9 76.0 82.9 81.0	9.8 16.4 12.1 10.7	5.8 6.4 7.0	1

[From Twelfth Census, 1900: Special Report on Occupations, page cexxil.]

a Includen unknown. • Viscel types corrected figures. Sie Twylith Creans, 1901: Speeld Report on Occupations, p. Lvvi, for specific includent all works in them and steel and other module. • Includent works in them and steel and other module. • Includent works of the specific interview.

APPENDIX.

TABLE VIIL-PER CENT OF WOMEN 16 YEARS OF AGE AND OVER IN ALL MANU-FACTURING INDUSTRINS, COMPARED WITH MEN 16 YEARS AND OVER AND WITH CHILDREN UNDER 16 YEARS, BY GEOGRAPHICAL DIVISIONS.

[From the Twellth Census, 1900: Manufactures, Part I, page exxviii. The percentages for 1830 and 1860 are from the Ninth Census, 1870: Industry and Weelth, page 303, and relate to all "Male hands" and all "Female hands," as no distinction of age was made.]

	Per cont for	in each cla such divis	iss of total	l'er ce	for Unit	a division ed States.	of total
Geographical divisions and year.	Men 16 years and over,	Women 16 years and over.		Men 16 years and over.	Women 16 years and over.	Children under 16 years.	Total.
United States: 1900	77.4 78.3 73.9 78.6 79.3 76.7	19.4 18.9 19.4 15.8 20.7 21.3	3.2 2.8 6.7 5.6	100, 0 100, 0 100, 0 100, 0	100.0 100.0 100.0 100.0	100.0 100.0 100.0 100.0	100. (100. t 100. c 100. c
1000	69.9 68.1 65.0 65.7	27.8 29.2 28.6 28.4	2.6 2.7 6.4 5.9	16.1 16.8 20.8 21.4	25.2 29.8 34.8 46.3	14.0 18.3 22.7 27.1	17.8 10.5 23.1 25.1
1900 1890 1880 1870	74.4 75.7 70.1 77.9	22.5 21.5 23.0 15.9	3.1 2.8 6.9 6.2	35.8 37.2 39.5 38.9	43.2 43.7 49.3 39.0	36.3 37.7 43.5 43.2	37,2 38,2 41, 3 30, 5
Sonthern States: 1905 1990 1880 1870	80.7 81.7 81.3 80.6	12.7 12.7 9.0 7.3	6.6 5.6 8.8 6.2	12.9 10.1 9.0 10.0	8.1 6.5 4.2 4.2	25.5 19.1 10.8 10.1	12,5 0,5 8,5 9,1
Central States: 1900	85.1	14.5 11.8 8,8 6.3	2.3 2.2 6.1 4.4	29.8 31.0 27.3 27.0	20.6 17.6 10.7 9.5	20.2 21.3 21.5 18.9	27.5 28.5 23.4 23.2
Western States: 1900. 1800. 1880. 1880. Paellos States:	89.8 89.3 92.1 97.4	8.1 7.9 3.7 1.5	2.1 2.8 4.2 1.1	2.5 2.1 1.3 1.0	.8 .8 .2 .1	1.5 1.8 .6 .2	2.5
Paellie States: 1900 1800 1850	\$3.8 \$5.9 \$8.4 94.9	14.3 12.1 8.4 3.2	1,0 2,0 3,2 1,9	· 2.9 2.8 2.1 1.7	2.0 1.6 .8 .3	1.6 1.8 .9 .5	2.1 2.2 1.2 1.2

TABLE IX.-AVERAGE NUMBER OF WOMEN WAGE-EARNERS AND FER CENT WINDER WOMEN FORMED OF THE TOTAL NUMBER OF WAGE-EARNERS, BY GROUPS OF INDUSTRIES, 1860 TO 1605.

The other back and the second second

	1850	k -	1800.		1820,		1850.	
Industry groups.	Number.	Per cent.	Number.	Per cent,	Number.	Per cent,	Number.	Per cent,
Total	225,298	23.3	270, 897	20,7	323,770	15.8	531,639	10.4
Textile industries #	80,787 115,459 919 53 1,075 7,027 1,253 2,310 417 787 738	60.25 40.55 10.37 10.37 10.37 10.37 10.37 10.34 10.37 10.34	110,285 121,164 2,010 46 3,721 11,443 2,324 3,520 583 807 1,743	53.4 45.00 127.5 127.5 127.5 127.5 127.5 127.5 127.7 1.7 5.3	126,680 115,440 8,617 89 7,704 18,425 5,050 6,771 2,050 1,344 4,053	43.3 37.0 7.8 10.3 20.2 1.8 2.3 7.1 1.3 8.4	204, 440 3) (), 608 21, 276 131 20, 480 20, 712 4, 585 7, 008 3, 730 2, 213 8, 781	44.8 40.7 10.5 21.9 21.9 21.9 21.9 21.9 21.9 21.9 21.9
Vehicles for hand transportation Shipbuilding. Other manufacturing industries c	738 58 14 7,471	.4 .1 3.0	188	82	218 0 26, 243	(9) 9.6	301	(a) 0,3

	1680.		180.		HIKG.		
Industry george.	Number.	Por cent,	Numier.	Per cent.	Number.	Per cent.	
Total	803,050	18.0	1,025,295	19.4	1,005,884	10.5	
Textific judinities	244, 383 321, 912 40, 021 50, 831 7, 811 13, 337 8, 649 4, 551 15, 370 1, 542	47.84 47.84 19.10 19.10 19.10 10	303, 820 401, 437 94, 032 1, 035 53, 374 73, 022 13, 777 13, 678 14, 310 9, 336 95, 827 2, 220 2, 234	40.00 40.00 30.75 30.75 30.75 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.51 30 40.510	341,784 1890,875 70,804 1,101 06,304 18,510 16,873 30,491 10,855 20,488 2,106 85 85 85	44.4 63.2 57 41.5 10 2 2 5 7 8 3 2 5 7 8 3 14 1 9 1 8 4 1 9 1 1 8 1 9 1 1 8 1 9 1 1 9 1 1 9 1 9	

 \sim This is not the result server of "results" or a first in the Twenth (hower, in the the Mandaman and the

"Clothing."

TABLE X.-TEXTILE INDUSTRIES: AVERAGE NUMBER OF WOMEN WAGE-EARNERS AND FER GENT WHICH WOMEN FORMED OF THE TOTAL NUMBER OF WAGE-EARN-ERS AT EACH CENEUS, 1860 TO 1600.

This is not the scenar proof "strike" of given in the "scelific Gramm, Note Menneticutes, part includes all the prime from 0 and gramm, then are scenarios of the scenarios of the prime scenarios in the scenarios of the prime scenarios means of the scenarios of the scenarios

Industries.	1850.		1800.		1870.		'DESO.		1890.		1900.	
	Num-	Per	Num-	Por vont.	Nun- ber,	Per cent.	Num-	Per cont.	Num-	i'er rent.		l'er cont.
Total	86,787	60, 2	110,285	53.4	190,680	48, 3	204, 140	44.8	258,383	47.0	302,820	10.1
Avenings, tents, and sails lings, other than paper b Belting and liceo, linen c Carpots and rise, other	823	1.4	31 249 166			8.3 32.0	2,129			60.5	1,701 2,622 181	10.0
Carpols and roigi, other than rag ⁴ . Carpols, rag ⁴ . Ciolh, sponging and refin-	2,305	37.0	2,771	41,5		35.7		42 1	18,070	45.5 19.5		43.0 21.1
Ishing f. Clothing, horse g. Cordage and twine k	10,001	39,8	700 71,540	19.0	77		18 407 1,450 01,148	87.1	1 423	40.5	318 4,703 190,885	201.1
Cotton, compressing Cotton waste J. Cotton batting and wad-				1111					7	27.2	AU	18.5
ding. Cotton, thread, twine, and yarnsk. Cotton coveriels.			3,451		31	517.6	1					
Cotton fiannel carding Cotton lamp wick			30	\$3.0			11,01-0		1/	1111) 1111)	5	1.1.1
Cotton table cloths. Tapes, binding and web- bing .	2	73.1	230					ŕ	119111			
Thread, and fluishing tex-	150	57.1		13.5	64	11.3	2.00	12.	2,20	1.	1.25	11
goods	72	1.00		14.5	1,350	14.1						
Pelt goodse Plags and banners P Flag, dressed y	105	38.	20	37.7		- iii	11	5.	1M 2/1	146, 1 51, 3	31	61.
Hammooks.	10.000	(APT)	ree	0.00	1200	18071	1,357				173	

TABLE X.-TEXTILE INDUSTRIES: AVERAGE NUMBER OF WOMEN WAGE-EARNER: AND FER ORNT WHIGH WOMEN FORMED OF THE TOTAL NUMBER OF WAGE-EARN ERS AT EACH CENSUS, 1830 TO 1900-Coucided.

Industries.	1850.		1830.		1870.		1880,		1890.		1900.	
	Num- ber,	Per cent.	Num-	Per cent.	Num- ber.	Per cent.	Num-	Per ocnt.	Num- ber.	Per cont.	Num-	Per
Horizz and kult goods' Linna pods's Mana pods's Maria da Lantard' Maria da La	31 631 2 70 70 553 100 14,070 22 1,055	47.0 70.9 84.3 84.3 84.3 84.3 84.3 84.3 84.3 84.3	1 47 73 140 140 1,811 1,990 1,811 19,120 19,120 19,120	63,86 54,8 2,4 18,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7 14,3 12,0 16,7	700 16 170 300 300 300 300 300 300 300 1,300 40 10 10 10 10 10 10 10 10 10 1	43.5 10.1 38.8 13.0 1.2 67.8 52.8 54.9 23.7 36.4 7.6 7.4	200 200 730 11 11 11 11 10,000 10,000 20,007 20,007	67.8 44.3 4.3 54.3 54.3 64.3 8 8 8 8 7 7 8 2 8 7 8 2 8 7 8 2 8 7 8 9 8 7 8 9 7 8 9 7 8 9 8 7 8 9 8 9	735 255 33 614 614 1, 805 28, 914 802 30, 150	00 3 51, 4 7, 0 83, 2 2, 8 40, 1 58, 6 27, 0 39, 1 40, 1 58, 6 27, 0	2,004 1,787 288 040 34 1,128 1,128 34,707	45.3 DH. 4 24.1 24.1 16.5 1.6 53.5 35.7 35.7 35.7 45.5

*** Horizont thread on the Biology and Biology and Biology and the Biology and Biol

 $^{\circ}$. The second se

TAKE XI.-CLOTHING INDUSTRIES: AVERAGE NUMBER OF WOMEN WAGE-BARNERS AND PER CENT WHICH WOMEN FORMED OF THE TOTAL NUMBER OF WAGE-FARM-ERS AT EACH CENES, 1850 TO 1600.

The table incident pairs of the inflations proves fars, by Tawlin, Caman, Boro, Manusheimer, Ja Luer, Darrow Maran, Barraw Mara [This table include

	185	04	188	0,	187	D .	188	0.	189	9	IVO	
Industries.	Ninn- bor.		Num-	Per ount.	Num- ler.	Per onnit.	Num-	Per orni.	Non-	Per cent.		l'or cont.
Total	115,450	49.5	121,164	45.0	115, 440	37.9	203, 104	40.7	326, U12	51.4	401, 437	55.9
Clothing, mon's o	10,000	113.7	72,963	63.0	58, 400	.64.8	80,994	10.4	16,077	44.2	80,874	47.1
Ciething, women's, druss- making b. Ciething, women's, issiery			4,014	97.2					47,104	97.0	40, 835	81.0
product 4			4,800	84.8	10,247	87, 0	22,253	88.3	25,013	16.2	55, 100	67.1
Clothing, ohlidren's . Furnishing goods, men's d.,	327	190. S	339	70, 2		38.2	9,505	85.0	10, 414	19.0	25,283	K1.
Itals and caps, not includ- ing wool hats 4. Hat and cap materials 7.	8,220	54.1	4,243		6,301		6,337	20.2	471		540	40,1
Wool hats 2. Millinery and lace goods A. Millinery, quatom work 4. Artificial feathers and flow-	3,468	92.0 95.3	980	87.8	0, 100	84.7	1,460	20.7	1, 121 8, 65 10, 407	2 34 6	14,035	83.7
eta Areastantantantantantantanta	372	85.7			1,114	24.8	3, 577	87. 4 M. 4	5,311	81.7		
Subris Corsols #	·····	60.1				67.2	22,180	165.1	25,805	6 81.1 1 83.5		10.
Costumes Dyoing and cleaning		222	*******	1	19	1	406	133.6			2,12	10.3
Buttons. Umbrellas and panes I,	1,765	10.1	1,40	111	1,783	188.1	1,851	RZ. 4 63. 8	2,10			47.1
Dinheetta farmiture Fur goods 4	1		4	22.1				(Carl	3,10	No.	6,280	10.
Furs, dressed a. Gloves and mittings c	1,00	89.0 10.0	200	61.1	1,522	71.1	6.26	10. L	5,001	MA.	0,70	07.1
Boot and alsos, out atook Boot and shoe findings r	10	11.9	·····	13.1	1.54	011	1,45	48.7	1.02.	8 40.1	1.174	O at :
Heat and shoo uppers				um	10111		17	art	130	46.0	31	13,
moduet 4. Boots anytom	312, [k H]	31.5	28,61	21.5	10,112	14.1	25,12,	92.0	39,88	1 252.1	17,18	31
work and repairing				1.00.			1,10					1.
Pockethooka r	100	20.1	300	484	295	1 10.1	1 311	20,	40		1 600	1.36

• Toreforder 22, 151 establishaments in 1960 und 12,401 in 1860, resorted as "Clathing, ment's, contain work, and repairing," 5,721 in 1960 and 4,927 in 200 reported as "Clathing, invers, foretay nonlina," and 197 in 1960, and 200 in 1967 reported as "Clathing, ment's, foretay nonlina, "An and 197 in 1960, and 200 in 1967 reported as "Clathing, and the introduction of the second se

¹⁰ Point and the second s

¹⁰ "Hook and there" in RNA, part "Black page" in RNA, "Also Andreas," "Black and the set of th

254 WOMAN AND CHILD WAGE-EARNERS-WOMEN IN INDUSTRY.

TABLE XI.—OLOTHING INDUSTRIES: AVERAGE NUMBER OF WOMEN WAOF-FARNERS AND TER CENT WHICH WOMEN FORMED OF THE TOTAL NUMBER OF WAOF-FARN-ERS AT EACH CENEVIS, 166 TO 100—Consolud.

	1850.		1860.		1870.		1890.		189	0,	390	0.
Industries.	Num- ber.	Per cent.	Num- ber.	Per oent.	Num- ber.	Per cont.	Num- ber.	Per cent.	Num- ber.	Per cont.	Num- ber,	Per cont.
Belt clayps and alides Skirt supporters. Nootles and pins # Hooks and gyes. Harwork ⁶	207		7 10 165 57	61.5	2200 67 940	84.5 35.2 55.9	380 63 937	35.3 27.0 70.0	001 00 1,099	42.9	1,019	

a Includes "Needles" and "Pins," separately given in 1860, and only "Pins" in 1860.
b "Wign and hair work" in 1860; "Wign and curls" in 1850.

TABLE XII - DOMESTIC AND PERSONAL SERVICE: NUMBER OF WOMEN 18 YEARS OF ADRIAND OVER AND PERCENT WHICH WOMEN FORMED OF TOTAL NUMBER OF 1987 TO 1990, INT OLLY EMPLOYED, IN SPECIFIED OCCUPATIONS AT EACH CONSUS, 1987 TO 1990, INT OLLY EMPLOYED, IN SPECIFIED OCCUPATIONS AT EACH

	1870	1	1980	4	1890.		1900	10
Occupations.	Number.	Per cent.	Number,	Per cent.	Number,	Per cont.	Number,	Per cent.
Total	882, 10	41.8	1,074,523	31.6	1, 400, 124	39,1	1,953,407	35.
Servanta and walfresses b. Housekcepers and stowardesses. Names and midwives. Laborers (not specified) Janifresses and sx toos. Watchmen, pollcemen, firemen, etc. Hartenders.	780,035 11,356 18,677 152	88.4 90.4 1.8 5.2	876, 377 14, 057 * 51, 272 711	75.0 041.4 2.8 7.7	1,231,314 41,393 50,321 2,893 279	84.5 87.0 2.6 10.0 .4	1, 105, 501 146, 929 105, 001 100, 916 8, 010 870 440	74. 91. 80. 4. 14.
partoniers Juandressen Barbers and Indrefressors Boarding ond Jodging houso keepers. Hotel keepers Reduurnat keepers d Raloon keepers Other doniestie and remonal service 4.	815 714	91.4 4.8 4.8 3.3 1.4 3.0	107, 136 2, 890 12, 313 2, 136 2, 106 6, 485	87.8 0.3 0.6 2.0 10.2	215, 121 2, 779 32, 503 6, 276 4, 837 9, 375	87.2 3.3 73.5 12.0 3.3	328,935 5,440 20,455 8,533 4,845 2,080 6,747	45. 4 R3. 14. 12. 19.

a The figures for 1000 relate (a "Fendes 16 years of uge out over." * In 1004, 1004, not 1000 includes "Homosceptors and sitewardnesse." * Out 1004, 1004, 1004 includes "Homosceptors and sitewardnesse." * Out 1004, 1004

TASER XIII.-FOOD AND KINDRED PRODUCTS: AVERAGE NUMBER OF WOMEN WAGE. EARNERS AND FER CENT WHICH WOMEN FORMED OF THE TOTAL NUMBER OF WAGE-ARNERS AT EACH CONSUS, ISO TO 1900.

"This is blocknown of the influences in the genum" From and kineter peoplastic matching and the array of the peoplastic matching and the second of the secon

	185	li,	180	λ.	187	D.	188	0,	189	0.	110	J.
Industries.	Num- ber,	Per cent.	Num-	Per cont.	Mum-	Fer out.	Num-	Per cent.	Num- her.	Per cent.	Num- ber.	Per cent.
Total (Food	910	2.4	2,010	4.0	8,617	7.8	ZJ, 270 131	10.5	40,031	10.7	64,000	20.8
TOOD AND XINDERD PROD-	- agoing		1					1		1	200	1020
Bread and other lakery products a.	370	5.6	338	8,2	842		2,210	0.8	4,072	1.1.1.1	10, 452	1.20
densed milk 5.	12	21.8		23, 5	1,270	27.6	1,330	10.8	724	6.8	1,053	8.1
tigt# #	17	60.0		25.0	87	43.7	113	10.7	1143	38.4	102	45.1
Confect and apice, reseting and grinding d Confectionery Confisies and strugs d	12	2.1	65 605	0.2	1, 225	8,2 21,0 19,8	435 2,827	10.1	0.41 0,254 58	43.0	15,840	47.5
Fish, canning and preserv- ing f. Flavoring extracts c. Flavoring and grist, mill					1790	28.0	101	12.8	841 150	10.8	2,633	
products Food preparations & Fruits and vogetables, con-	10		50 51	189.7	91 397	32.8	-45 205	28.4	309	32.1	2,00	北
ning and preserving Glucon Lard, refused Disautavaring					78, 434	58.6	16,402	3.0	35,714 141	l a	10,190	1
Ovsters, counting and pre- zerving 6. Pickles, preserves, and		m				in			1,705	10.3	1,13	KL
Rico, elevating and pollsh-	11	40,8	omi	-	121	30.1	1.150	1.2.5	1,132	1	3,080	45.
ing 2 Blaughtering and meat packing, not including retail butchering f.	1		213	19.2	902	2.4		18.2	1,014	1.1		4.5

a "Bread, crackers, and other inkery products" in 1820; "Bread and categorie" in 1830; and "Hators"

In 1800, 2 Includes 115 establishments in 1800 and 160 in 1800 spectra and Chevrol and Chevrol 1902 UNIT "Addition 2 Includes 115 establishments in 1800 and 160 in 1800 spectra and "Chevrol, butter, and conducted in 1800, and a long pred-dent of the instability in 1800 and 5 in 1800. In 1800 includes 2 "Chevrol" and 1800 includes 1800 includes 1800 1,213 establishments in 1800 and 5 in 1800. In 1800 includes 2 "Chevrol" Chevrol" and 1 "Milly, condensed" within 1,213 establishments in 1800 and 5 in 1800.

The minimum control of the Dirac set of

256 WOMAN AND CITLD WAGE-EARNERS-WOMEN IN INDUSTRY.

	1850.		1600,		1870.		1880.		180	ю.	190	ю,
Industries.	Num-	Per cont.	Num- ber.	Per cont.	Num.	Per cent.	Num-	l'er	Num- ber.	Per cent.	Num-	Ter dent.
Sugar and molasses refin- ing o Vintgar and elder b Provisions	15		11	2.2	90 7	1.0		3,6	246 155	3.6	420 130	2.0
LIQUOES AND BEVERADES. Bottlingc. Liquors, distilled d Liquors, windt d Liquors, vinous. Malt f Minerol and roda waters p.	22		14	3.8	1 34 32	10.04	10 20 57 8 27	21.030	55 250 20	2.5	130 80 404 61 4	1.2.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2

TAREX XIII.—FOOD AND KINDRED PRODUCTS: AVERAGE NUMBER OF WOMEN WAGE. EARNERS AND PER CENT WIIGH WOMEN FORMED OF THE TOTAL NUMBER OF WACE-EARNERS AT EACH CENESUS, ISO IS 1000-Concluded.

a fipsical haplow and LBB "diagon and molecules, bet", which is 100 was founded in "All other basis of the set of the se a Includes in 1900 and 1880 "Sugar and molasses, boot," which in 1890 was included in "All other i irks."

4 Turbings on 1997 "Editions, maximum "Barn requires reasons, resonance of the second seco 11 establishments.

"Mineral water" in 1800 and "Minoral water and pop" in 1850.

TABER XIV.- TOBACCO: AVERAGE NUMBER OF WOMEN WAGE-EARNERS AND PER CENT WINCH WOMEN FORMED OF THE TOTAL NUMBER OF WAGE-EARNERS AT EACH CENTUS, 1886 (1966.

	185	1850;		1940),		ð.	1880,		180	0,r	100	0.
Tuluaries	Num- ber;	Per rett.	Nun- her.	Per-	Num-	Per cent.	Numi-	Per rent.	Num-	Per cout.	Num- ber,	Per
Total	1,075	13.9	3,721	13.0	7.70	16,3	20, 18/	83, 1	30, 419	20.7	63.37	37.5
Tobaccó: Chewing, anak- ing, and staff a. Tobacco: Elgara and elgar- ettes e. Tobacco: Stemming and re- tandling e.	1,975	13.9	2,990 731	1.1.2	5 4,800 4 2,034		0, 105		24,214	27.8	11,500 37,702 4,022	an

⁴¹ "Tolacco and anni?" in 1800; ⁴² Tolaccondula" in 1800; ⁴² The Twelfin Lemans, 1900; Manufacturea, Part III, Melotted Industries, page 660, gives 5, 170, ⁴² "Tolacco and oigna" and "Qines" in 1800; "Gigant" in 1800; usi given in 1800; ⁴⁷ Diavertino Genum, 1800; Manufacturea, Part III, Belested Industries, page 615, gives 2,616. ⁴⁷ Noi given in 1850, 1800; or 1870.

TABLE XV-PAPER AND PRINTING: AVERAGE NUMBER OF WOMEN WAGE-EARNERS AND FER CENT WITCH WOMEN FOLDARD OF THE TOTAL NUMBER OF WAGE-KARN-ERS AT EACH CENDE, 1896 1000.

This fields benchmer all the benchmarking preven in the series years of "types" and regulators" but the second a luman-metatricing biometry of [200, The light second by 100 km cm cm cm cm cm second second transfer light second transfer light second second second second second second second second second biolitatory and "biolitation lenges" the end of the light second second second second sector second sector second sector second sectors, biol. I the second sectors second sectors second sectors second sectors second sectors second sectors second second second second second second second second second sectors second sectors second second

	18	ю.	18	0.	183	W.	189	6.	18	0.	100	16 .
Industries.	Num-	l'er	Num-	Per	Num-	Per	Num-	Per	Num-	Per cent.	Nini-	Per
Total	7,027	32.3	11,343	26.1	18, 425	26.2	211, 702	24.9	60, 831	22.5	73,922	24.8
Bags, paper 4,			0	14.2	\$06	46. 1	1862	66.3	653	54.4	935	40.1
making .	1,000	41.7	2,732	17.2	3,175	41.2	4, 101	45.5	5,762	40.1	7,872	40.3
Paper miling 4. Boxes, fancy and paper d.	116	62.8	1,000	18.1	3,088	00.7	0,830	70.0	12,860	67.0	18,192	105.8
Card cutting and designing / Card cutting and designing /	22	02.0	7	42.0	ins	51.7	125	36.5	20	31.1		34.8
Bigns and show cards. Rograving and diosinking g		1	8222	17.5	1	1	1 10	1	1 20	1	1 30	
Engraving, atcol, including plate printing Engraving, wood	47				200		20		NO		1,085	
Engraving and stonell outling Lithographing and ongraving i "hromos and lithographs			20	p. e	30	pure		13.8	1,490	16.1	2,14	10.1
Photolithographing and photo- ongraving J. Many and allows 4			110						73	U	117	
Envelopes, and earlie, amborsed	37	185.7	250	115.7	627	148.0	1148	78.7	1,707	73.4	2,040	131
Stellondry I. Labels and tags ** . Paper and wood pulp *	1.1.1.	ALC.	20	8.1 88.5		25.7	NI	24.7	140	24.	261	34.1
lapor, printing Japor, wrapping Japor, writing					2.143	Jan.	1.1.1.1					
Paper goods not elsowhere apeci-						ĺ			411		12,878	40.3
Paper hungings 7. Paper shades and paper stalning 4.	10	2.2	01	26.1		10.2				1		
Poper patterns «				1081.1	1. 410	20.5	284	80.0		NR. 2 36. 4		80.4

s Not given in 1850. 5" Bookbinding" in 1870; "Bookbinding and blank hooks" in 1880; "Bookbinders and blank books" In 1850.

a 1850. «Pour "Male hunda" but no "Ponado húnda" reported (n 1860. «"Hoxes, fancy" and "Boxes, paper" in 1870; "Hoxes, paper" in 1860; "Boxes, band and filmy" in 1850,

In No. And State and St

"Stationers" in 1850

¹¹ "Weinford" and "Lock during the Bitter 1550. In 1995 United Sciences and the Bitter 1550 and the Bitter 1550 and the Bitter 1550 and the Bitter 1550 bitter 1550 and the Bitter 15

⁴⁰ "Paper Stanters" in 1850.
⁴⁰ Paper Stanters" in 1850.
⁴⁰ Dress nutterns? In 1800; nut given in 1870 or 1850.

49450°-S. Doc. 645, 62-1-vol 0-17

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TAME XV .- PAPER AND PRINTING: AVERAGE NUMBER OF WOMEN WAOBEARN-

	18	1850,		1800.		1870.		1890		ю.	10	10.
Tuilnatzler,	Num-	Per	Num-	l'or	Num-	Por cont.	Num	Per cont.	Num-	Por	Num-	Per
Printing and publishing •	1,413	10.3	2, 333	11.0	2,800		0,777		10,028 180 67	13.0	28, 766 32 121	17.0

*14. Skol nebilete 6.202 estabilitation ret represent on "Printing and problem, lower and printing the printing end pri

ing and guildabing, no to goodfold," In 1690 and gives the number complexed in that yours at 1,600 and the spin-spitten as 7 as your content, in 1379 in 1550 industing "Triving" classes, further on the spin of the spin of

TABLE XVI-BELICTER INDUSTRIES INCLUDED IN OFFIRE MANUE ACTURING INDUS. TRIES, BY CHOUPE, ANDRAGE SIMARE OF VOLEN WAGESAANNERS AND FER CENT WILDIE WORKN FORMED OF THE TOTAL NUMBER OF WAGESAANNERS AT EACH CENTUS, 1860 OF 1060.

FIGURATIONS AND ALL AND ALL

	187	83	186	Q,	183	W.	181	n.	185	а,	100	0,
Industries.	Nam-		Num-	Per coni.	Num- Tær.	Per vent.	Num-	Por cont.	Num. Lier.	Per cent.	Num-	Per
Total	4,078	10.3	12,611	19.0	201, 116.6	\$31.3	22, 79	11.7	29,661	13.4	14,020	18.1
bruggists ² preparations, ² not in- chiding preseriptions. Pstant medicines and com- pounds ⁴ .		10.2	370	9L.0	-162	8.6	1.000	20.6	2.00	18713	3,110	1/8. 1 60. 1
Policery, terra colta, and finietay presidente e Hand foundry e	43 17 300	1.8	84 251 281	2728	310 710 1,610	4.5 4.7 10.3	918 743	0, 3 3, 1 16, 7	2,020	10.7 3.2 21.4	4, 481 5, 529 6, 310	10.3 0.30.1
Watchist 7	23	20	123	4.1		6.0		IL A		14.0	1,371	22.
Vinity articles, not clowhere specified A		un	27	10,2	107	41.7	101	28. 1	1,000	18.7	3,06	88
Where specified f.	Juni	how	10	135, 0	23	67.0	137	25.1	818	23.6	2,005	591.

The second seco

Formate functor," No. 4 Process and Televal and "Proval and In 1860 only "Proc." Not given in 1866, a inclusion stary "More and dusters" in 1870 and "Quilts" in 1860, Not given in 1860.

APPENDIX,

TABLE	XVL-SELECTED	INDUSTRIES;	AVERAGE	NUMBER	OF	WOMEN	WAGE.
		EARNERS.	RTC,-Conclu	dod.			

	1850.		1960,		1870,		1880.		18	0.	10	ю,
Industries.	Num- ber,	Per cont.	Num- ber.		Num- ber.		Num- ber,	Per cent.	Num- bor.	Per cont.	Num- her.	Pvr.
Photography a Ruisher and chatle goods b Bonp and sundlos « Matehre Furniture, including cabinetmak-	17 1,558 159 519	5.5	973	6.3	452 2,649 310 1,059	44.0	vieto 2,281 3839 1,130	24.8 35.4 7.3 60.6	4,295	20.0 46.8 15,1 49,1	3,118 7,317 2,000 703	36,0 36,0 21,8 38.7
ing, repairing, and uphoister- ing d. Straw goods, not elsewhere speci- fied *	1,721	7.3	1.1.1.1	10.00	5,081 12,691	2.0	2,908					3.7

• "I backgraphic" in 1070 cm1 1060 cm1 "Descence repropute" in 1050, • "India rubbe and down in pace?", "In 10%, "India rubbe gates in 1060, "In 1060, "I

TABLE XVIL—TRADE AND TRANSPORTATION, NUMBER OF WOMEN IS YEARS OF AGE AND OTHER AND THE CEPT WITHET NUMER FORMED STOLEN AT A SAULT STOLEN. TO DOG.

(Figs. Depring and percentages for 1000 and 1880 rets laken, occept when otherwise mentilement, from the "weight cleans, 1000 Hypoint Report on Crearpholius, jeage arexit.exxxvi the fagures for 1800 and 1370, and the statistics from which the percentages for these years no derived, from the Kloventh Consus, 1860 (Population), Furt II, pages cle-vev).

	IN	70.	18	NØ.	186	0,4	to	10.
Occupations,	Num- her.	Per tent.	Num- ber,	Por wat.	Num- ber.	Per cont.	Num-	Pwr. ivnt.
Total	18,650	1.8	6125,010	3.2	223,201	0.8	181,159	10.1
A-Suleswomen	in		7, 1012	23.1			142,265	23. 2 76, 7
Clerks and copylats * Bookkeepers and accountants * Telegraph and telephone opera-	0,162	3,3	28,608	4.7	168,508	01.0	81,000	12.1
miors.	350	4.3	1,221	6.3	8,403	10.2	21,0:00	29.5
Packers and shippers. Agents, Messengers and errand and office	170 Vu	3.3	-177	6.1 1.2	8,147 4,853	23.4 2.8	17,032 10,463	28.1
Bigam railroad comployees	(21) 102	(0)	49	12	1,383	4.4	2,453	8.4
Foremen and overseers	(Creation)				875		1.418	21
Comprerelat Involets, Draymen, backmen, teamsters,	32	-4	271	1.0	611	1.0	.010	
Porters and helpers (in stores,	70	- 11		******	221	11	(171)	
Porters and Repets (in addres, etc.) /, Boatmen and sallors,		inter	2,028	5.4	315	1.3	492	.1
Street railroad employres	Ť	12	1	(1)	11	(1)	15	
Haulters (100		COURT		1.0		1.0	1 2
wholesalo) o, Hueksters and peddlers	5,651	1.8	11,741	3,1	25, 180	3.7	33,825	4.7
Officials of banks and companies e.	181	.0			217	.5	1.271	1.7
Undertakers	20 20	1.0	51	1.1	83	1.8	324	2.0
Bankors and brokers					11.11.11		261	
Livery stable keepers	11	.1	33	.2	47	.2	110	
Other persons in trade and trans- nortation	601	1,3	1,521	27	1, 173	1.0	3,314	0.2

The formula for High India is benchmarks by proved if a new drives the formula moment of years of the second seco

260 WOMAN AND CHILD WAGE-EARNERS-WOMEN IN INDUSTRY.

TABLE A.-SOME STRIKES IN TEXTILE FACTORIES ON ACCOUNT OF REDUCTION IN WARKS, 1820 TO 1878.0

Year.	Locality,	Per eent duc- tion.	Authority.
1823	Taunton, Mass		Columbian Continel, Boston, May 9, 1829.
1843	Manayunk, Pa	20	Peunsylvanian, Philadelphia, Aug. 28, 1833.
1814	Philadelphia, Pa Dover, N. H.		Tim Man, New York, Apr. 22, 1834.
1814	Lowell, Mass.	******	The Man, New York, Feb. 20, 1834, from Boston Transcript.
1816	Jowell, Mass	0 123	Heston Transcript, Oct. 8, 1830.
1810	Springfield, Mass	6124	National Laborer, Oct. 29, 1830.
1816	Norristown, Pa.	0.152	National Laborer, Sent. 24 and Nov. 5, 1836
1810	Chester Creak, Pa		National Laborer, Nov. 5, 1810.
1812	Lowell, Mass	e 20	New York Daily Tribune, Jan. 3, 1843, from Lewell Courier; Wash- Ington Spectator, Dec. 30, 1842.
1843	Springfield, Mass		Eleventh Annual Report Massachusetts Ibureau of Statistics of Labor, 1880, p. 5,
1844	Allegheny, Passes	distant.	Workingman's Advocato, Aug. 17, 1844.
1845	Fall River, Mass		Kloventh Annual Report Massachusetts Dureau of Statistics of Labor, 1880, p. 6.
1840	Colions, N. Y		New York Dally Tribune, Sept. 3, 1840.
1850	Philadelphia, Pa	10	Report Bureau of Industrial Statistics of Ponnavivania, 1880-81, p. 275
1853	Blackstone and Ad-	(1)	Eleventh Annual Report Massachusetts Bureau of Statistics of Labor, 1880, pp. 14, 16.
1858	Nowburyport, Mass.	(d)	Eleventh Annual Report Massachusotts Bureau of Statistics of Labor. 1880, p. 16.
1858	Sprinefield, Mast		Do.
1858	Salom, Mass.	12	Weekly Day Book, New York, Apr. 3, 1858.
198	Paterson, N. J		Dally Evening Voice, Jan. 19, 1808.
1807	Maymerel, Mass	10	Eleventh Annual Report Massachusetts Bureau of Statistics of Labor, 1880, p. 22.
1887	Allegheny, Pa	(/)	Boston Weekly Volco, Sept. 12, 1867; Workingman's Advocate, Sept. 14, 1867.
1985	Foll River, Mass	18	Rieworth Annual Report Massuchuseits Bureau of Statistics of Labor, 1880, p. 24.
1800	Dover, N. H	12	The Revolution, Dec. 30, 1849.
1874	Fall River, Mass	10	Baxier, History of Fall River Strike, 1875.
1874	Philadelphia, Pa	15	Workbirman's Advocate, Feb. 28, Mat. 7, 1874.
1878	and do a contraction	(0)	National Labor Tribuno, Nov. 16, 1878.

This is not a complete list of such strikes;
 Rise in heard,
 Previous reduction,

Woolen mills,
 Prom \$4 to \$3 per week;
 Prom \$4 to \$3 per week;

d Por increase.

TABLE B.-PIECEWORK RATES ASKED BY THE TAILORESSIES UNION OF NEW YORK AND THE LATES OFFERED BY A SMALL NUMBER OF THE EMPLOYING TAILORS, JUNE AND JULY, ISS.

[From Curey's Selected Excerpts, vol. 4, pp. 4 to 10.]

Articles.	Tullor- reserved pricest.	Cloth- hex' prices.
Conters of elath:		
Single breast	\$2.00 2.25	\$1.75
Surferor of sailment; Studio Interest		
Daulde breast	1.75	1.25
Outres of bombinzine, pongeo silk: Single brenst	2.00	2.00
Double breast.	2.25	2.25
Conteres of merino cloth:	10100	
Single breast. Double breast	2 00 2.25	1.75
Poek cada of the above-maneet thin goods:		
Singla irreat Double breat, 'auters of Circussian, hombazetto, grass linen, or lenverteen: Whenh weathing, hombazetto, grass linen, or lenverteen:	2.00	(*) (*)
Confers of Circassian, hombazette, grass linen, or heaverteen:	1.75	1.30
Shigh breast	2.00	1.75
Frank coats of the above	(11)	(1)
funding coats with flans:		
Single breast Breast peckets outside, each packet extra-	2.00	1.75
Double brend, extra	. 25	.25
Bolling collars.	1.50	1.00
Second quality, Braidest edges, extra		.75

« Same es conteva,

APPENDIX.

Articles.	'Tallor- esses' prices,	Cloth- Iors' prices.
Satingt round Jack ets:		
Fine Becond quality	\$1.25	10.7
Becond quality. Contess of angola pri linen: Single brusst. Deuble brusst.	1.00	1.2
Double breast With breast pockets outside:	1.75	1.8
Pea coats:		
Tea Gozie, ere clah, hun- With rolling collate, Bozie and yo collate, Radiang collate, Radi	2.00	2.0
Standing collars.	1.75	1.0
Rolling collars.	1.75	1.9
Baboon jackets, kersoy or cloth:		
Standing collars.	1.25	.8
Monkoy Jackets: Kersey or cloth	1.00	.7
Keiney or ciolu. Lion skin or coating. Babeen or prea jackets, lion skin or coating.	.75	. 6
Baboon or pea jackets, Bon skin or coating	1.00	.7.
Hombarino, pongee, silk, or merino cloih		
Honinarios, pongee, silk, or merino eloiti Ningla breast. Douithe breast.	1.00	1.0
Circassian, bambarette, or leating	.75	.0
Donbla breast	1.00	.6
Singlo breast	.75	iumme
Dopilo broast. Chreacien, and matentio, or insting - Brouido broast. Brown Tites, Jines and relation driffing, angola, etc Bingle broast. Bingle broast. While Bloes and white jame.	.87	.6
White linest and white jame— Binglo breast Touble breast	.87	.6
Beaverteen-		
Bando Josefi Singlo Josefi Double breast Fustime, uegre obable, etc Single breast	1.00	
Fustian, megro elath, etc	.00	
Double breast	.112	.3
Double breast Cloth for maxy or marfines, infinited. Confees, cloth for maxy or marfines.	1.00	1.7
	.20	.4
Common satinel	. 60	
Fine satingt	1.00	.0
Merino cloth or eastimere	1.00	100
Common enume dela	:75	
Circassian, brown linen driffing, cotton driffing, angola, etc., coarse, plain	.50	.3
Beaveriven or fine bring-up eard	.75	-1
Poarse being-tip cord.	37	.2
Tousta ming-up contained backets. Duck, Testan find 2 packets. Course fustion of negro sulfinels. Proviews of all descriptions.	(25)	.1
Drawers of all descriptions	18	3
Vests: Cloth, velvet, hombazhe, or slik Rolling collor		
Kolling collor	.75	-B
White Marzelles and Valencis River State Control of State St	.75	.18
Stauling collars. Cause swanslawn, worstel, and all other coaces out on goods. Rolling milling	.62	.0
Course swanslown, worsted, and all other coarse cutton goods. Italling collars	.62	.14
Rolling collars, Standing collars,	. 50	.3
Chaska, of chells" Will hout cape, plain ceillar. Will onn cape, partne. Fach, aidd Honal cape, extra.	2.00	1.2
With one cape, extra Each additional cape, extra	.25	.2
Corded collar, extra	.25	.2
Coreie Collar, extra. Villa sleeves, extra. Clarks of emullet:		
Cooks of comblet: Willionit cope, plain collar. Willionit cope, plain collar. Bacht adull load cope, exito.	1.25	annin Lo
Each additional cape, exita	.25	
Wings or side weits	1.50	13
Common caution of a state	1.02)	1.2
Without cape, pisin collar	.75	

TABLE B .- PIECEWORK RATES ASKED BY THE TAILOREESES UNION, ETC .-- Cont'd.

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TABLE C .- WAGES OF SEWING WOMEN IN PHILADELPHIA IN 1863.

[From Fincher's Trades' Roylew, Nov. 21, 1863.]

Article or occupation.	Amount.	Cult of work.	Estimated weekly enrologs,
Bhirte a	. 18 20	Per doren. 	\$2, 40 \$2, 10-4, 30 2, 44 3, 00 2, 10 2, 50-3, 00 4, 00 3, 00 (4) 1, 50-1, 80

 \diamond In some establishments if a builton was left off a shirt 25 cents was said to be deducted from the pay. \diamond Two could be made in 10 hours' work, but the drist had to buy their own thread at 10 cents a spool, one spool heiring month for two conts.

TABLE D .- WAGES OF WOMEN IN NEW YORK IN 1863 AND 1860.

[From the Fourth Annual Report of the Working Women's Protective Union, quoted in the Daily Evening Voice, Mar. 2, 1807.]

Occupation.	1863.	1806,
Chekimaker Marinaker Nord exting Unrella sever. Unrella sever. Unrella sever. Unrella sever.	6.00-7.00 3.00 3.00	\$8.00 \$7.00- 3.00 4.00- 5.00 8.00- 0.00 4.00- 5.00 4.00- 5.00 3.00- 5.00
Dressmakers Pur sovers Maetime operators	3,00-6,00	4,00- 7,00 7,00-10,00 4,00- 8,00

TABLE E .-- WAGES REPORTED AS PAID INDIVIDUAL WOMEN IN NEW YORK IN 1868.

[From reparts given by the women at a meeting of the Workingwomen's Association, No. 2, as given in The Recumition, Oct. 1, 1963.]

Article or securation.	Price.	Unit of work,	Estimated weekly carnings.	Hours.
Latter eine eines	, 60 , 50 , 15	Kach Per ilozen.	\$11.00 \$5.0 - 0.00 \$5.0 - 0.00 \$5.0 - 0.00 \$7.00 \$7.00 \$7.00 - 10.00 \$1.50 - 0.00 \$7.00 - 10.00 \$5	10-13 11 12 12 10-14
Straw-had sower	0.0105	Per hat	5.00 - 15 00 6.00	

APPENDIX.

TABLE F .-- WAGES REPORTED AS PAID INDIVIDUAL WOMEN IN NEW YORK IN 1870.

[Reported by "Shirley Date" as given to her by the women themselves, New York Tribune, Feb. 20 1870.]

Occupation,	Wages per week.	Hours per day.
Pollorest .	\$1.00	
Do	6,00	9
Seamstress	9,00	10
Do	6,00	10
Do	6.00	10
)perstor	8.00	11
Do	8.00	1
Do	6.00	
perator on coals	9.00	1
tosk maker.	7,00	
	9.00	
	12.00	
DoDo	15 00	
are maker	6.01	1 1 2
Do.	7.10	1
ur sower	6.00	i
wather worker	6.00	
lat trimmer	12.00	1
lat maker	8.00	1
ion Atler	12.00	1
110	12.00	i 1
lave sower	7.60	1 6
Do	7.60	
Do	8,00	

TABLE G.-NUMBER OF GIRLS EMPLOYED IN BOOKBINDERIES OF SPECIFICD FIRMS IN FHILADELFHIA, PA., WITH AVERAGE HOURS EMPLOYED FER DAY, FIECE-WORK RATES, AND AVERAGE WEEKLY BARNINGS ESS.

[From the Radical Reformer and Workingman's Advocate, July 7, 1835, p. 79.]

		Piecowork rates						
Name of employer.	Average number of girls om- ployed.	Per 100 sheets Syo.		Per 100 sheets 12mo. and 15mo.		Hours worked per day.	A verage curnings per per week.	
	proyect.	Folding,	Stitching.	Folding.	Stuching.		1 E.	
Desilver, Herso & Lindsnys, Kales & Co.s. Correnter & Rismonis. Correnter & Rismonis. B. Caskill, Ja, Hoghes, J. W. Willer, J. W. Willer, D. Carke, C. Peterse, C. Peterse, J. Hulder, J. Hulder, J. Balder, J. Balder, J. Balder, Georger, J. Starke, C. Peterse, C. Peterse,	30 15 15 10 12 20 5 6 5 7 6 4 81 5 1 81 5		\$0.02 .02 .02 .02 .02 .02 .02 .02 .02 .02	(A)	(b) 02 (c) 02 (c	7-0 7-9 7-9 7-9 7-9 7-9 7-9 7-9 7-9 7-9 7-9	\$3,22 3,22 3,22 3,00 3,55 3,00 3,25 3,00 3,25 3,00 3,22 3,20 3,20 3,20 3,21 3,20 3,21 3,21 3,21 3,21 3,21 3,21 3,21 3,21	
harey, Len & Co. i, P. Rtory c. . Clerk	4 	.01		02 02 02		10	\$1, (0-2.0	

a Employ one or more girls in Jobbing, who are paid from \$3.50 to \$1 per week and who work from \$ to the band bar day. on per day. "aid by the week. "ays 3 cents per 100 for stitching pamphiets, 800 of which is a good day's work.

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200.2011 8.201.915 1.25.125 1.82 2.15.218 2.25.718 1.27 1.02 1.0

	PARO.
Rox mokers, paper, employment of women as threas filling onneloyment of women in New Yerk (My) (197 Heredwinners, (207 Heren bereadwinner; Wag connens.) thread (no., Mass, early comployment of women in bed and since making. thread (no., Mass, early comployment of women in bed and since making.	247, 248, 267 223 224
Brockton, Mass., early employment of women in hoot and slice making Brocklyn, N. Y.: Compositors, employment of women as, and wates told. 1858	168,100
Brooklyn, N. Y. Brooklyn, N. Y. Sono Hitten, waarde 6, 1971. Waarborwaard, attribut, for higher magin, 1000. Waarborwaard, attribut, for higher magin, 1000. Waarborwaard, attribut, for higher magin, 1000. Waarborwaar	113 181 133 228 146 222,223 165,253
C.	
Culterates, segare of eveness methodopol in munification of facilities in, 1975. Constraining, Mars, and Sprogram of eveness in the docs docts for height by the Pho- celling and the segare of the photon of the second second second second Constraints in the second second second second second second second second constraints of the second second second second second second second second constraints of the second second second second second second second second second second constraints of the second seco	229 226,227 180,190 247,251 228 15-17 102,102 270 276,256,258
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Changes in employment of women in	2-58
Cotton spinning by machinery, effect of introduction of. Decrement in proportion of women employed in, in New England States, since 1875	13
Displacement of women by men in, reasons for	1.58
Education of employees in	9,10
Employment of women In	.232
Hours of inbor of employees in	2.74
Dilitency of employees in	8,80
Nationality of simployees in, effect of Civil War upon,	2,81
Number of employees and per cent of women in, by States, 1831	4,85
Propertion of women to men in, at beginning of nineteently century	
Statistics of all consists of 1820	0.71
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Daughters of B. Crispin (shoensking), Lyrn, Mess, wages enrued by 1863,	4
Maide' becartes, employment of women in, 1866. 22 Bowing womm, weges of 16-becartes in, 2600. 2007 Tolawes and clear factories in, conditions in, 1860. 2007 Bowing of an average and an average of the second secon	16
Decreases in propertion or some employed in during admetectal ventility. If 16, 16, 20, 20, 20, 2 Employment of women in the second second second second ver in the programment divisions, 150, 100, 2 Number and per rent of formats 10 years of age and over in, by programment divisions, 150, 100, 2 Number and per rent of formats 10 years of age and over in, and in secoffed eventual target index.	6)
and per cent which women formed of total instance of ways ensurers. Is first test. 2 Per cent of the boundar by even in any and rest in, and in specific discrimutions under, by face and multi-typ. Boundar B. years of any and rest in, by antibity, how total Per cent of the formation in specific of the boundary of t	12
and 1007	280
Denors see the work of in defining lanking years of the second se	00000000000

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