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Micro-Level Data Sets
Suitable for Investigation
of Macroeconomic Issues Extracted from Reports
of the State Bureaus of Labor Statistics, Circa 1890

Susan B. Carter and Richard Sutch

July 1989

Key words: historical labor market statistics, labor markets, unemployment

Abstract

This paper describes a project underway at the University of California, Berkeley and Riverside campuses, and at Smith College. The project is intended to create a machine-readable data base of microeconomic data extracted from a selected subset of over 150 separate reports published between 1874 and 1920 by over 20 different state bureaus of labor statistics. The data available in these reports can be broadly classified into one of three categories: 1] Survey data collected from workers canvassed by bureau agents in studies seeking information on occupation, wages, working conditions, living standards, asset ownership, and many other diverse subjects. Altogether the complete data set would include information from over 100,000 respondents; 2] Data contained in "special reports" on a amazing variety of topics ranging from special investigations of the industrial depressions of 1893 and 1907, to the health of female college graduates, special investigations of the character and extent of unemployment, to the balance sheets of saving banks and building associations, union membership and strike success, to detailed industry studies of technology, labor practices, and industrial structure; 3] Survey data collected from firms canvassed by the states seeking information on output, employment, hours, wage rates, employment practices, and many other issues. For several states consistent information was collected on an annual basis.

The data collection project is part of a larger effort designed to explore the structure of late nineteenth-century labor markets and to trace the evolution of labor market structure into the 1920s. This project will make extensive use of all three types of data mentioned above. The paper describes the data and illustrates possible uses with reference to these labor market issues.

JEL Classification: 042, 229, 824

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The assistance of Brian A'Hearn in preparing this paper and the accompanying appendixes is appreciated. The project described is being undertaken in close collaboration with Roger Ransom and Charles Wetherall. We thank them for their support and encouragement. We have also benefited from discussions with Barry Eichengreen, Michael Haines, Joan Hannon, Thomas Weiss, and participants in the NBER-DAE/Berkeley Project on Macroeconomic history. Further advice and suggestions are welcome.

The financial support of the National Science Foundation, the Institute of Industrial Relations at University of California, Berkeley, the National Bureau of Economic Research, the Institute of Business and Economic Research at the University of California, Berkeley, the Academic Senate of the University of California, and Smith College is gratefully acknowledged. Data collection and preparation cost a great deal of money and without the support of these agencies the project described here would not be possible.

Susan B. Carter

Richard Sutch

Smith College University of California, Berkeley University of California, Berkeley National Bureau of Economic Research

INTRODUCTION

This note describes a project underway at the University of California, Berkeley and Riverside campuses, and at Smith College. The project is intended to create a machine-readable data base of microeconomic data extracted from a selected subset of over 150 separate reports published between 1874 and 1920 by over 20 different state bureaus of labor statistics. The data available in these reports can be broadly classified into one of three categories:

- 1] Survey data collected from workers canvassed by bureau agents in studies seeking information on occupation, wages, working conditions, living standards, asset ownership, and many other diverse subjects. Altogether the complete data set would include information from over 100,000 respondents.
- 2] Data contained in "special reports" on a amazing variety of topics ranging from special investigations of the industrial depressions of 1893 and 1907, to the health of female college graduates, special investigations of the character and extent of unemployment, to the balance sheets of saving banks and building associations, union membership and strike success, to detailed industry studies of technology, labor practices, and industrial structure.
- 3] Survey data collected from firms canvassed by the states seeking information on output, employment, hours, wage rates, employment practices, and many other issues. For several states consistent information was collected on an annual basis.

The existence of this rich source of data has been known to cognoscenti for some time. Data of the first type was called to the attention of economic historians by a classic paper of Jeffrey Williamson [1967]. However this data was not utilized until Williamson's student, Joan Hannon, analyzed a sample collected by the Michigan Bureau in her dissertation on ethnic discrimination [1978, 1982b]. Since then several other of these data sets have been used by

Hannon [1982a], Barry Eichengreen [1984, 1987], Eichengreen and Henry Gemery [1986], Steven Maddox and Eichengreen [1986], Roger Ransom and Richard Sutch [1986, 1989], Susan Carter and Peter Philips [1988], Carter [1988], Carter and Elizabeth Savoca [1989a, 1989b], Robert Whaples and David Buffum [1988], and others. Data of the third type are well known because they were exploited by pioneers in the creation of macroeconomic data on GNP, employment, wages, and hours [Berridge 1923; Jerome 1926; Douglas 1930; Frickey 1942; Rees 1961; Lebergott 1964]. They have also been used to study issues connected with racial and gender discrimination [Philips 1982]. The special reports have been virtually ignored until recently. The work of Alexander Keyssar [1986] has drawn attention to the value of the special investigations of unemployment. Hannon [1984] is analyzing reports on poor relief. Gerald Friedman [1988] is studying strike activity. William Sundstrom [1989] and Carter and Sutch [1989] are investigating the depression of 1893.

Despite these ongoing efforts, the rich volume of data contained in state labor bureau reports remains unexplored. Few of these data sets have been machine coded, much remains entirely unexamined, and even the quantitative data previously examined remain to be fully exploited. Virtually no attention has been given to data contained in the special reports.

The present authors are engaged in a project designed to explore the structure of late nineteenth-century labor markets and trace the evolution of labor market structure into the 1920s. This project will make extensive use of all three types of data mentioned above. Meanwhile Roger Ransom and Richard Sutch are continuing their investigation on the history of saving and they contemplate further use of these data, particularly surveys of the expenditures, budgets, and saving behavior of farmers and self-employed workers. To further these particular research agendas and, not incidentally, to make available a valuable source of data to other scholars working on these and other topics we propose to take a systematic approach to the identification, assessment, collection, and archiving of as much of the state report data as funds, time, and will

permit.¹ This report is intended to give a brief overview of the data available, suggest some of the many questions in macroeconomic and microeconomic history to which they might prove critical or insightful, and to describe some of the collection, distribution, and archiving procedures we propose. We wish to emphasize that the project has only begun and that a major purpose of presenting these comments to the National Bureau Conference is to elicit suggestions for the conduct of this effort. Nothing is yet fixed in procedure, format, or personnel. All comments, suggestions, and praise are welcome.

THE STATE BUREAU OF LABOR STATISTICS MOVEMENT

Massachusetts was the first state to establish a Labor Bureau. It was founded in 1869 as the Massachusetts Bureau of Statistics of Labor to collect and present statistical information on labor in the state to the Legislature. However, its first chief, Henry Oliver, apparently used his office to further the interests of organized labor and the Bureau soon fell into political trouble with the Great and General Court of the Commonwealth. A prominent state senator, Carroll D. Wright, was asked to take charge in 1873 to prevent the abolition of the unit by the legislature. Although Wright had no formal background as a statistician, he adopted the position of the German school of social statisticians which emphasized the collection of large samples of cross-section data obtained from carefully-designed "inquiries" into the facts. Questionnaires were administered to a large "representative" sample to obtain precise quantitative responses. By adopting the German methodology Wright was implicitly rejecting the alternative journalistic approach advocated by the

^{1.} This proposal received a friendly reception and endorsement from the National Bureau of Economic Research Subcommittee on Macroeconomic History sponsored by the Development of the American Economy (DAE) Section when it met in Berkeley in March 1989. The project, if adequately funded and carried forward, would be in collaboration with Ransom and Charles Wetherall and perhaps others. Thomas Weiss has proposed holding a small conference at the University of Kansas in 1990 to discuss the value and use of state bureau of labor data. Interested parties are encourage to contact one of us for further information.

French social scientists of the "Le Play School." These scholars would arrange to live with and work along side a representative family to observe their situation "first hand." This approach was akin to anthropological field study and gathered largely qualitative information.

To avoid some of the political problems produced by his predecessor's advocacy, Wright pursued a "pure" approach to data collecting. Rather than attempt to interpret or even to summarize the information his agents collected, it was published "raw." In the Massachusetts Bureau of Statistics of Labor's <u>Sixth Annual Report</u> [1875], for example, Wright published the full responses to his questionnaire about the condition of workingmen in Massachusetts for each of the 397 respondents interviewed. As Jeffrey Williamson reported:

Never before had such a sample been collected on such a scale, with such detailed economic data, and with such care with regards to its representativeness of the population. With the appearance of the <u>Sixth Annual Report</u>, public criticism of the MBSL died down and Wright became a legend in his own time [Williamson 1967, p. 103].

The subsequent success of the Massachusetts Bureau produced successful legislation in other states creating similar agencies. Table 1 provides a list of states chronologically by date of first report issued. Wright became the informal leader of the state labor statistics movement. There were annual meetings, of representatives of the various state bureaus and a concerted attempt was made to establish operating principles and quality control, to standardize methodology, and to deal with practical and political obstacles to their work with a united front. As a consequence, many of the individual state studies were similarly designed, asked identically-worded questions of their respondents, and were conducted using the established selection and interviewing techniques.

In 1885 Congress established the federal Bureau of Labor Statistics and Wright was appointed the first United States Commissioner of Labor. In his new position he worked with the superintendents of the state bureaus to promote data collection at the state level. One result was an outpouring of statistical surveys of working conditions undertaken in the early 1890s through

house-to-house surveys of workers. The United States Bureau of Labor conducted its own massive survey of workers in 1889 and 1890 [U.S. Commissioner of Labor, 1890 and 1891]. The family budget survey covered 8,544 working-class families; 6,809 in the United States, and 1,735 households in five European countries.² What makes these state and federal reports so valuable to the modern researcher (but made them almost useless to the contemporaries) was that the statistics bureaus followed a pattern of publishing lengthy volumes reproducing each individual's exact responses to the questions asked. Beyond a simple tabulation of the results, no systematic analysis of the data was undertaken.

Today it is possible at reasonable cost to transform the raw published data into machinereadable form and use computer-assisted statistical and data handling techniques to address a variety of exciting historical questions. To provide an idea of the volume and data available and the type of questions to which it might be directed we shall discuss in turn each of the three categories of data listed above beginning with the surveys of employment and living conditions.

^{2.} This data has been used by Allen Kelley [1972], Peter Lindert [1978], and Michael Haines [1979, 1985]. Haines [1979] provides a detailed description of this data which is now available from the Interuniversity Consortium for Political and Social Research in machine-readable form.

Table 1
State Bureaus of Labor Statistics, March 1902

State	Year of First Report	Number of Reports Through 1901
Massachusetts	1870	44
Pennsylvania	1873	28
Ohio	1877	24
New Jersey	1878	23
Indiana	1879	$\frac{1}{14}$
Missouri	1879	23
Illinois	1879-80	21
New York	1883	18
Michigan	1883	18
California	1883-84	9
Wisconsin	1883-84	9
Iowa	1884-85	9
Maryland	1884-85	13
Kansas	1885	16
Connecticut	1885	17
Maine	1887	14
Rhode Island	1887	11
North Carolina	1887	14
Colorado	1887-88	9
Minnesota	1887-88	7
Nebraska	1887-88	7
West Virginia	1889-90	6
North Dakota	1889-90	6
Tennessee	1891	10
New Hampshire	1893	6
Montana	1893	7
Utah	1894	1
Washington	1897-98	2 3
Virginia	1898	3

Source:

United States Bureau of Labor, <u>Index of All Reports Issued by Bureaus of Labor Statistics in the United States Prior to March 1, 1902</u>. (Washington: Government Printing Office, 1902).

WORKER SURVEYS

Table 2 lists ninety-seven working and living condition surveys with reliable data that we have identified in our search of the state reports. The list may be incomplete since our compilation is still in progress. We should note that all of the state reports published before 1900 are available at the University of California library in a microfiche format and that many of the published volumes are stored as part of the University's documents collection. Other volumes are available with varying ease on interlibrary loan from state archives and historical societies. Princeton University library has a particularly good collection. The Library of Congress may have a virtually complete set of reports available in Washington if no lendable copy can be located. A very helpful annotated guide to some of these reports was published by the Department of Agriculture [Williams and Zimmerman, 1935]. The U.S. Bureau of Labor published two indexes to the state reports. The first, published in 1893, covering all reports published up to 1892, is also annotated [U.S. Bureau of Labor 1893]. The second index issued in 1902 is not [U.S. Bureau of Labor, 1902].

The reports listed in Table 2 are in order of a preliminary priority for collection by the project. Those at the top have already been collected although they made require additional data cleaning and documentation before they can be widely used. These are followed by those that we propose to collect to further our own particular research agenda. Finally we list other reports that merit, we believe, inclusion in the eventual collection by virtue of their quality, size, and regional or topical interest to economic and social historians. We have excluded from Table 2 a number of surveys that we believe should have low priority. Some of these sets are very small, others are flawed by inadequate quality control, apparent bias, or a limited range of data. We again emphasize that these lists are incomplete and preliminary and the priorities for collection proposed are very tentative.

Table 2 Worker Surveys

State	Title and Year of Report	Coverage	
Data Sets Alrea	dy Collected		
California	Fifth Biennial, 1893	3493 workers	
Indiana	Fifth Biennial, 1893-94	500 women workers	
Iowa	First Biennial, 1885	347 teachers	
Kansas	First Annual, 1885	337 workers	
Kansas	Second Annual, 1886	471 workers	
Kansas	Third Annual, 1887	444 workers	
Maine	First Annual, 1887	108 workers	
Maine	Second Annual, 1888	118 workers	
Maine	Fifth Annual, 1891	1084 workers	
Michigan	Seventh Annual, 1890	5419 furniture workers	
Michigan	Eighth Annual, 1891	4038 ag implements and iron wo	rkers
Missouri	Fourteenth Annual, 1893	259 workers	
	TOTAL	16,618	

--More--

Table 2 -- Continued Worker Surveys

tate	Title and Year of Report	Coverage
Data Sets Proposed	for Immediate Collection	
Connecticut	Fourth Annual, 1888	693 farmers
owa	First Biennial, 1884-85	751 workers
Michigan	Sixth Annual, 1889	3191 copper and other workers
Michigan	Eleventh Annual, 1894	9204 railroad workers
Michigan	Twelfth Annual, 1895	5600 farm laborers
		2300 domestics
		935 farmers
Michigan	Thirteenth Annual, 1896	1250 self-employed hack drivers
		2000 employed hack drivers
		1865 street car workers
Michigan	Fourteenth Annual, 1897	4000 vehicle workers
New Hampshire	Second Annual, 1894	711 workers
New Jersey	Twenty-Sixth Annual, 1903	950 child workers
Ohio	Third Annual, 1879	367 workers
Ohio	Seventeenth Annual, 1893	8671 farmers
Pennsylvania	Seventh Annual, 1879-80	299 workers
Pennsylvania	Ninth Annual, 1880-81	167 workers
Pennsylvania	Twenty-Second Annual, 1894	1376 building trades
Rhode Island	Second Annual, 1888	600 workers
West Virginia	Second Biennial, 1892-93	236 miners, workers
Wisconsin	7th Biennial, 1895-96	555 farmers
		1488 mechanics
	TOTAL	47,209

--More--

Table 2 -- Continued Worker Surveys

State	Title and Year of Report	Coverage
Data Sets Proposed	for Eventual Collection	
California	Third Biennial, 1887-88	430 women
Colorado	First Biennial, 1887-88	458 workers
Illinois	First Biennial, 1879-80	529 workers
Illinois	Second Biennial, 1881-82	1191 workers
Illinois	Third Biennial, 1883-84	2129 families
Iowa	Third Biennial, 1888-89	2141 workers
Iowa	Sixth Biennial, 1894-95	3334 workers
Iowa	Ninth Biennial, 1899-1900	268 workers
Iowa	Tenth Biennial, 1901-02	395 workers
Iowa	Eleventh Biennial, 1903-04	333 workers
Iowa	Twelfth Report, 1905	407 workers
Iowa	Thirteenth Biennial, 1906-07	404 workers
Iowa	Fourteenth Biennial, 1908-09	507 workers
Iowa	Fifteenth Biennial, 1910-11	152 workers
Kansas	Fifth Annual, 1889	147 workers
Kansas	Seventh Annual, 1891	361 workers
Kansas	Ninth Annual, 1893	1058 workers
Kansas	Tenth Annual, 1894	1397 workers
Kansas	Eleventh Annual, 7895	519 workers
Kansas	Twelfth Annual, 1896	539 workers
Kansas	Fifteenth Annual, 1899	819 workers
Kansas	Sixteenth Annual, 1900	531 workers
Kansas	First Biennial, 1901-02	772 workers
Kansas	Second Biennial, 1903-04	741 workers
Kansas	Twenty-Second Annual, 1906	335 workers
Kansas	Twenty-Third Annual, 1907	390 workers
North Carolina	First Annual, 1887	779 heads of families
Ohio	Second Annual, 1878	101 workers
Okiahoma	First Annual, 1908	242 workers
Oklahoma	Second Annual, 1909	92 workers
Okiahoma	Third Annual, 1910	117 workers
		320 families

-- More --

Table 2 -- Continued

State	Title and Year of Report	Coverage
Data Sets Proposed for	or Eventual Collection Continued	
Maine Michigan Minnesota Missouri Missouri Missouri Missouri Missouri Missouri Missouri Missouri Mew Jersey New Jersey Nobraska New Hampshire New Hampshire Ohio Ohio Ohio Ohio Ohio Ohio Ohio Ohio	Fourteenth Annual, 1893 Twelfth Biennial, 1909-10 First Annual, 1879 Second Annual, 1880 Eleventh Annual, 1889 Twelfth Annual, 1889 Twelfth Annual, 1890 Thirteenth Annual, 1891 Fifteenth Annual, 1879 Sixth Annual, 1883 Second Annual, 1884 Eighth Annual, 1885 Ninth Annual, 1886 Eleventh Annual, 1888 Second Biennial, 1889-90 First Annual, 1893 First Biennial, 1893 First Biennial, 1877 Fourth Annual, 1880 Fifth Annual, 1881 Sixth Annual, 1882 Seventh Annual, 1883 Eighth Annual, 1884 Ninth Annual, 1885 Tenth Annual, 1886 Sixth Annual, 1886 Sixth Annual, 1892 Eighth Annual, 1894 Third Biennial, 1901-02	175 workers 9527 construction workers 212 families 475 workers earners 147 workers 130 miners 438 car shop workers 1230 workers 1467 miners and workers 383 workers 550 workers 1300 workers 608 workers 436 workers 721 unskilled laborers 436 wage earners 1815 shoe workers 145 mechanics and miners 286 wage earners 864 families 299 workmen 1013 workmen 314 skilled laborers 353 workers 355 workers 573 artisans 2299 textile operatives 100 wage earners
Washington Wisconsin	Fourth Biennial, 1903-04 Third Biennial, 1887-88	100 wage earners 671 workers
	TOTAL GRAND TOTAL	49,934 113,761

Appendix A provides a guide to the topics and coverage of most of these reports.

Appendix B provides a sampler of pages photocopied from the original reports for several of the worker surveys. These should give an idea of the way the data is presented, the form in which the questions were asked, and -- we hope -- will pique the interest of individual researchers.

As an example of the type of issue that can be pursued with cross section data of this type we turn some attention to a problem of particular interest to us: the homogeneity of unemployment around the turn of the century.

An Example: Homogeneity of Unemployment

In modern labor markets the burden of unemployment falls on a relatively small proportion of the labor force who are out of work a long time [Clark and Summers 1979, p. 14; Murphy and Topel 1987, p. 13]. It has been suggested by historians, however, that in the late nineteenth century the "the burden of joblessness was widely shared among the working people" [Keyssar 1986, p. 77]. In particular, while there were differences in unemployment rates across industries, "the joblessness that occurred in any particular trade or industry was fairly evenly distributed among men who were born in the United States and men who were born abroad" [Keyssar 1986, p. 82; Sutch 1988]. It is also asserted that the unemployment rates experienced by young and old, men and women, and whites and blacks were all about the same during the major depressions of the late nineteenth century. Since the heterogeneity of unemployment in the modern era is commonly attributed to labor market structure, the homogeneity of turn-of-the century unemployment appears to imply that such structure was absent.

An alternative explanation suggested by our findings on the importance of suspensions of operations [Carter and Sutch, 1989] is that employers did favor some workers over others, but that their scope for expressing their preferences in terms of differential unemployment during depressions was limited by an all or none pattern of workforce reduction. Some cross-section evidence consistent with this interpretation was collected by the Maine Bureau of Labor Statistics [1891] and analyzed by Ransom and Sutch [1989]. The Maine survey gives the number of days lost due to sickness, unemployment, and personal reasons. Figures 1 through 4 illustrate the estimated age profiles of the number of days lost by cause.³ Illness, as expected, rises with age. It is interesting that the amount of time lost due to layoffs also rises with age. Perhaps this is an indication of some type of age-discrimination by employers.⁴ Whether such discrimination was induced by the reduced likelihood that an older worker would quit and seek alternative employment if laid off, by reluctance to hire older workers (despite their lower asking wage which is evident in the Maine data) thus lengthening the job search for older unemployed workers, or by a paternal regard by employers for the welfare of younger men with small children at home is a subject that awaits further investigation.

The fact that voluntary absences from work increase with age even as the worker experiences an increase in the number of days lost for involuntary reasons and a decline in the wage rates may be significant. If a worker wanted to resist the fall in income implied by these two factors that were out of his control, he might be expected to decrease voluntary time off. This is not

^{3.} The profiles for layoffs and vacation time are estimated from the data on workers who reported a positive number for the number of days lost to these causes. Time lost because of a lack of work was reported by 572 workers (53 percent of those surveyed) and vacation time was reported by 584 (54 percent). The profile for days lost to illness, however, is based on all workers including those who reported no illness.

^{4.} Our own preliminary analysis of individual-level data for Michigan furniture workers in 1889 also suggests that employers were not indifferent about which workers were laid off. We find that seniority had a strong influence on layoffs. Each year of tenure with the firm reduces the average annual number of days lost by two.

Figure. 1

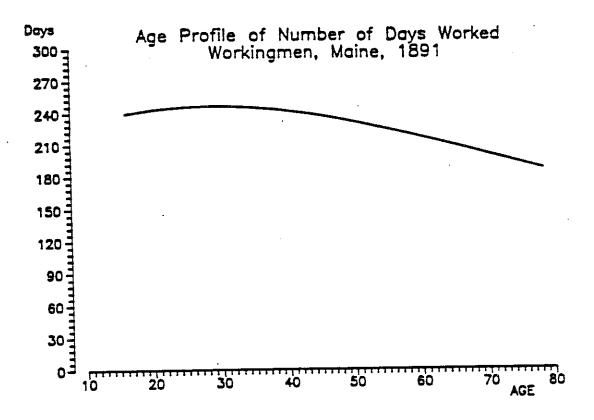


Figure Z

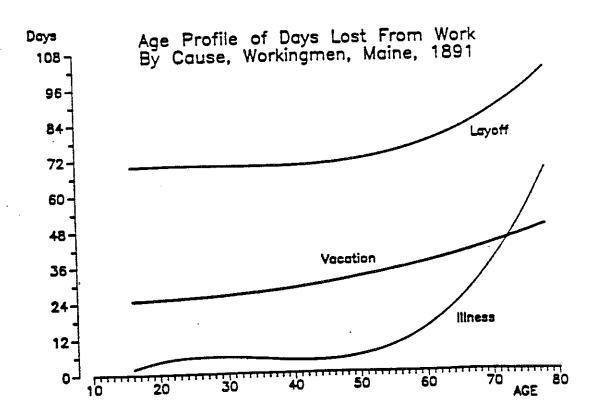


Figure 3

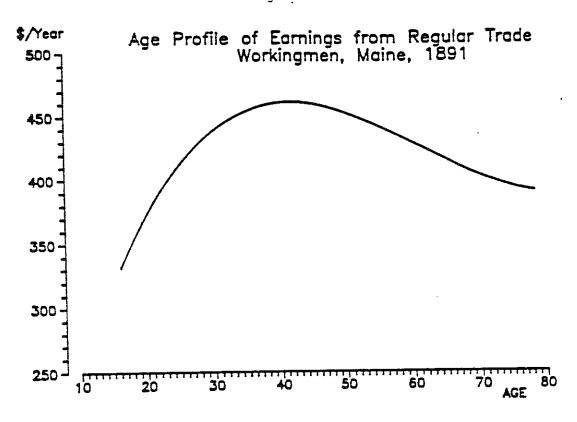
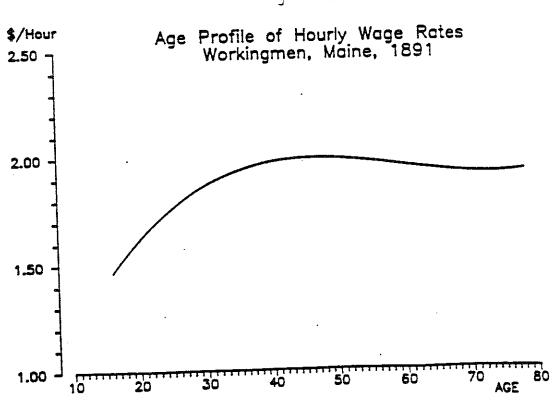


Figure 4



what the data shows. Instead workers not only do not resist the decline in income they actively accelerate it, perhaps because they have been successful in accumulating assets. If so, they could maintain consumption levels despite their declining income by reducing their rate of saving or even by dissaving if necessary.

The data on workers budgets contained in the various state reports can, we believe, help gain insight into these and other issues. Our point here is to illustrate some of the ways that microeconomic data extracted from these reports can be put to use.

SPECIAL REPORTS

In addition to surveying workers and firms, state labor bureaus conducted a variety of special investigations. Industrial and mining accidents; apprenticeships; property assessment; banks; benefit and insurance associations; building and loan associations; child labor; company stores; factory inspection; the homes, mortgages, and mortgage interest payments of wage laborers; labor laws; liquor; lost time; pauperism; wage payment practices; prices; the railroads; strikes; unemployment; and unions were among the major topics of study. The indexes to state reports prepared by the U.S. Bureau of Labor [1893, 1902] provide full references to these investigations. Table 3 lists some these special investigations which are of particular relevance to our study of labor market structure. Appendix C provides a sampler of pages from several of them, to give an idea of their possibilities. Here we illustrate possible uses of one special survey, the Connecticut investigation of the industrial depression of 1893.

Table 3
Special Surveys

State	Title and Year of Report	Subject
Data Sets Already Co	bilected	
Connecticut	Tenth Annual, 1894	1893 depression
Data Sets Proposed f	or Immediate Collection	
Connecticut	Eleventh Annual, 1895	1893 depression
Maine	Eighth Annual, 1895	1893 depression
Massachusetts	Eighteenth Annual, 1887	unemployment
Massachusetts	Seventh Annual, 1893	manufacturing
Massachusetts	Eighth Annual,* 1893	manufacturing
Massachusetts	Nineth Annual,* 1894	manufacturing
New Jersey	Eighteenth Annual, 1895	1893 depression
New Jersey	Nineteenth Annual, 1896	1893 depression
New Jersey New York	Thirty-First Annual, 1908 Eleventh Annual, 1894	1907 depression 1893 depression
Ohio	•	manufacturing
·	Eighteenth Annual, 1895 Twenty-Fourth Annual, 1896	manufacturing
Pennsylvania Wisconsin	Fifth Biennial, 1891-92	longevity of firms
	· · · · · · · · · · · · · · · · · · ·	longevity of firms
Wisconsin	Sixth Biennial, 1893-94	innoevily or mine

^{*}Annual Statistics of Manufactures

An Example: The 1893 Depression in Connecticut

In 1894 the Connecticut Bureau of Labor Statistics conducted an investigation of the effects of the industrial depression on its state's economy. While acknowledging that "[s]ome results of such a depression cannot be told in figures even approximately" it felt that, "after a minute inquiry and a searching examination of accounts" effects such as "loss in working time, loss in wages and loss in product could be accurately tabulated...." [Connecticut BLS 1894, p. 167]. Monthly reports from manufacturers for the fifteen months between June 1, 1893 and August 31, 1894 were requested. Because accuracy was desired, "...the inquiry was limited to some 500 establishments which, because of their size, were presumed to have accounts which would facilitate the filling out of the schedule" [Connecticut 1894, p. 168]. One effect of this restriction is that surveyed firms are quite large. The average firm in the sample employed 195 workers, over nine times the state-wide average. An advantage of this focus on large firms is that the 378 firms which submitted usable responses accounted for a large fraction of the state's industries and industrial workers. The Bureau found that,

about three-fourths of the total of the more important industries in the State are represented in the figures obtained by the Bureau's agents. Many minor industries and many minor establishments were omitted, as also such important industries as the building trades and kindred employments, and yet the total of employes [sic] represented is 48.17 percent of the total number of employes in all industries as given in the census of 1890, and 47.12 percent of the total number of employes as ascertained in the very exhaustive inquiry of this Bureau for 1892 [Connecticut 1894, p. 169].

To establish a basis of comparison for depression conditions, the Bureau requested information on average number of employees, average monthly wage payments and value of production in 1892. It also requested the time or hours worked under "what may be termed an ideal condition of full time" [Connecticut 1894, p. 183]. For each of the fifteen months between June 1893 and August 1894 information on number of days entirely shut down, weekly hours of labor, average number employed, the total paid in wages and the value of output was obtained. Firms were also asked to report changes in wage rates between June 1, 1893 and August 31, 1894. Some of the responses were published at the firm level by industry, others were

aggregated and reported as industry averages. A reproduction of the data for the Boots, Shoes, and Leather Goods industry is included in Appendix C. Table 4 presents mean values of key variables.

<u>Production</u>: The production index shown in Table 4 indicates that the large Connecticut firms included in the survey experienced an extremely severe depression in 1893. The nominal value of production for fiscal 1893 fell more than 20 percent from its 1892 value. This is larger than the 15 percent drop at the national level. It is almost as severe as the 24 percent decline in the national figures between 1920 and 1921.

<u>Unemployment, Days, and Hours</u>: Table 4 indicates that total labor hours fell 29.6 percent between 1892 and the depression period. This overall decline was the result of a 15 percent reduction in employment and a 17.5 percent reduction in total hours per worker, a division similar to that in manufacturing today [Topel 1982]. Days per worker fell 13 percent as a result of a reduction in days in operation — plant closing which idled the entire workforce. Hours per worker per day fell five percent.⁵

Suspensions of Operations: The most distinctive feature of turn-of-the-century business practice revealed in Table 4 is the heavy reliance on suspensions of operation as a method of reducing labor inputs. Almost half of the reduction in total hours was accomplished by plant closing which idled all workers. We have been unable to find data on suspensions of operations in the modern era but casual empiricism suggests that the routine use of complete plant shutdowns to effect reductions in labor inputs is rare. Except for some establishments supplying educational and recreational services, modern firms almost never close down completely. Even when they institute massive layoffs, firms retain some workers.

^{5.} These figures probably overstate the actual decline in days and hours inputs since they compare conditions in the depression to a hypothetical "full time" in 1892. The overstatement does not appear to be very great, however.

Table 4
Percentage Change in Average Output,
Employment, Days, Hours and Wages;
Connecticut Investigation of the 1893 Depression

	Percentage Change
m . 1 ***	20.40
Total Hours	-29.48
Employment	-14.78
Days per Worker	-13.43 -4.24
Hours per Day per Worker	-23.11
Total Wages	-23.11 -9.77
Wages per Worker Wages per Hour	+9.03
Output	-20.58
Output per Worker	-6.81
Output per Worker Hour	+12.62
Proportion of firms instituting:	
General wage reductions	34.13%
Partial wage reductions	20.37
Both general and partial	1.58
General wage increases	0.53
Partial wage increases	3.17

Note: Unweighted means across firms in the survey of the percentage change in average monthly value between 1892 and the period June 1893 through August 1894. Partial wage reductions and wage increases mean that not all employees were affected.

Source: Connecticut [1894].

1694

1893

HOURS

2

73

Figure 5

HARDWARE INDUSTRY

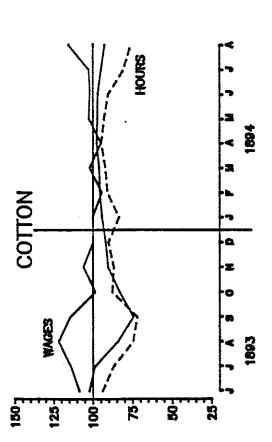
150-1

125

100

+ tgure

WAGES



73

Ş

Figure 7

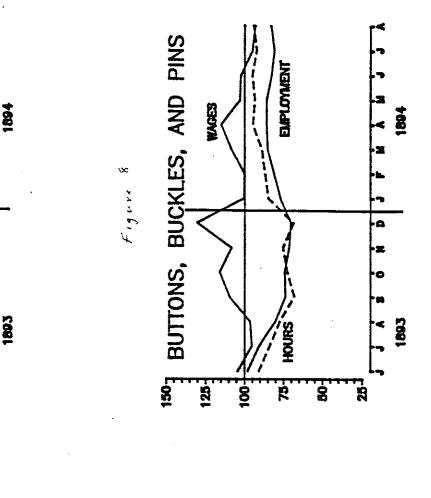
HATS

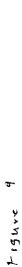
1507

MOES/

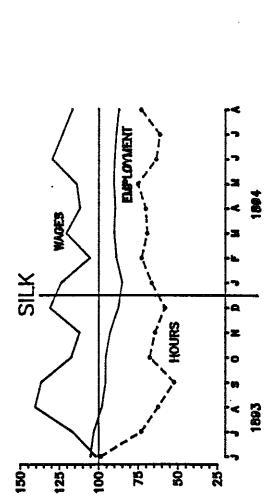
125

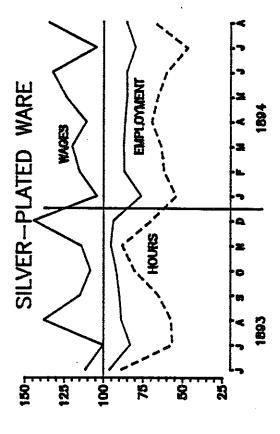
180

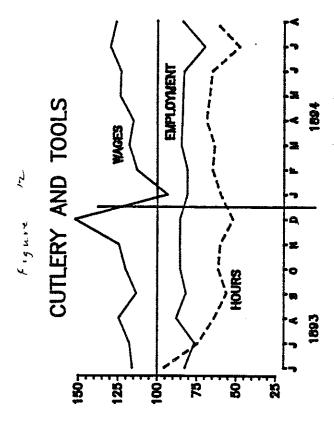


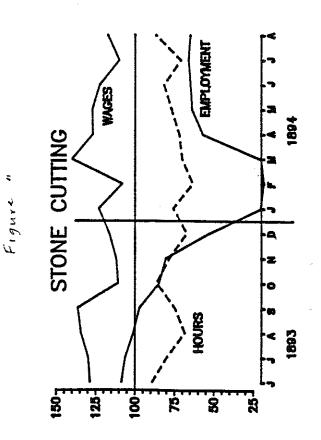


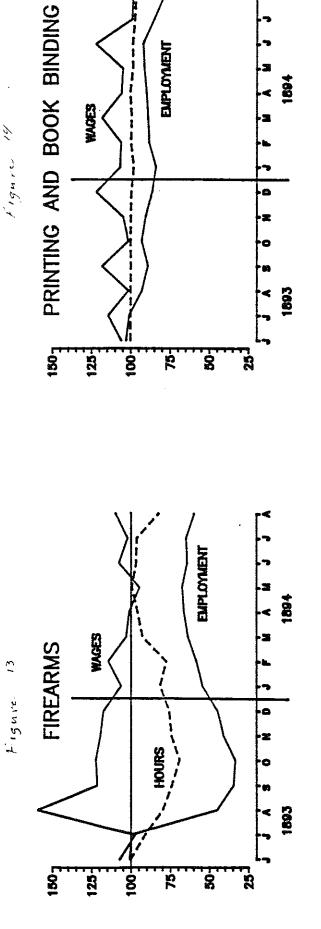
Figures to







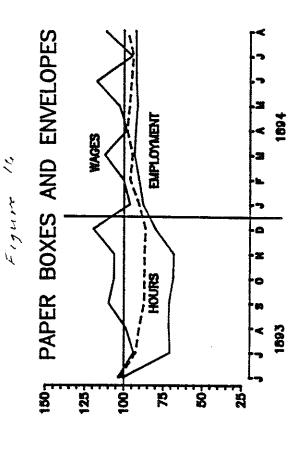


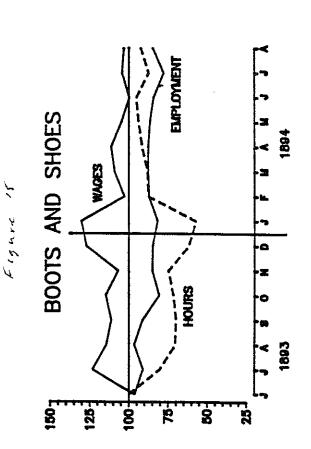


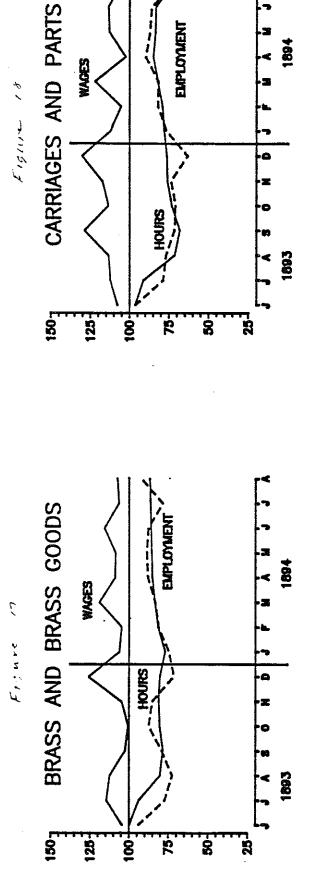
EMPLOYMENT

WAGES

1694

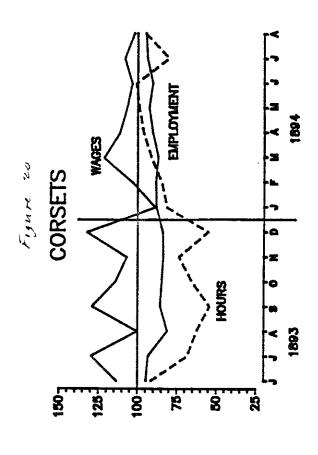


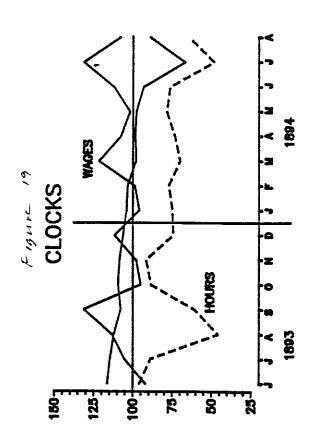


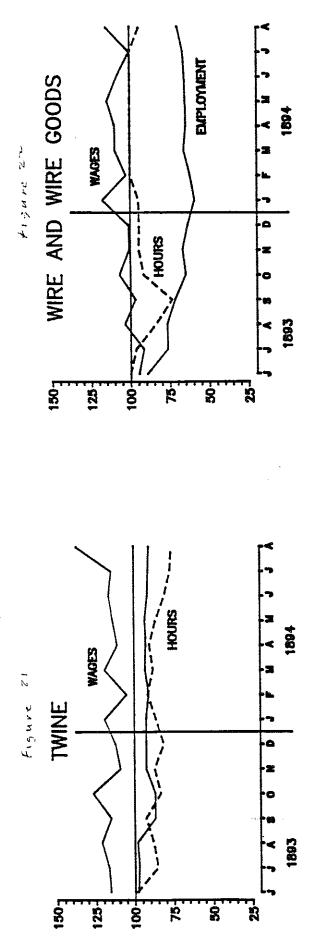


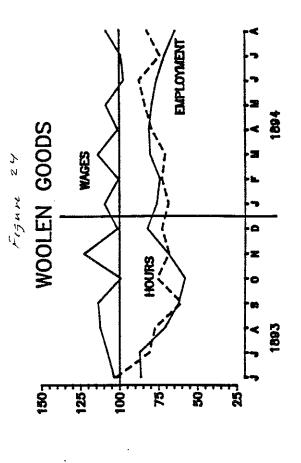
EMPLOYMENT

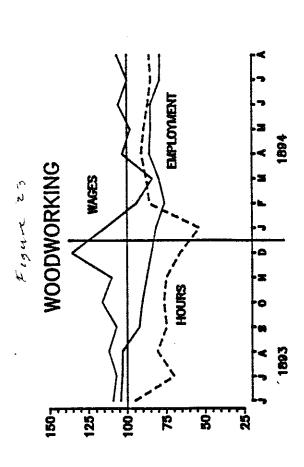
1894











Suspensions of operation were like modern temporary layoffs, however, in that they appear to have been a work sharing arrangement. As the Connecticut report makes clear, workers names remained on the payroll when the plant shut down. It comments, "It will be noted that the large majority of the industries retained on the pay-rolls a large percentage of the ordinary number of employees. The reduction made necessary by the depression was largely in the working time" [Connecticut BLS 1894, p. 186].

Short Run Increasing Returns to Labor: Although total worker hours fell almost 30 percent, the nominal value of output fell only 20 percent. Since output prices were falling, real output per worker hour must have risen even more than the 12 percent indicated in Table 4. This pattern is the opposite of that characteristic of the modern economy where output per worker hour falls in contractions as firms hoard excess labor [Hultgren 1960; Fair 1969].

Average Hourly Wages: Wage payments fell less than total hours so that the average nominal hourly wage rose 9 percent. Since prices were falling, the average real hourly wage increased even more. Figures 5 through 24 present monthly data on the nominal average hourly wage in the depression as a percentage of the 1892 average together with similar monthly ratios for employment and hours per worker, by industry, for the 15 months for which data is available. In general, the nominal average hourly wage rate is above its pre-depression value when employment and hours per worker are below. The average hourly wage falls when employment and hours begin to recover.

This counter-cyclical behavior of the nominal wage in the 1893 depression is also evident in the aggregated data which serve as the basis for discussions of relative wage flexibility in this era. The annual nominal wage series developed by Albert Rees [1961] and analyzed by Jeffrey Sachs [1980], Robert Gordon [1982] and John Taylor [1986], increases 4 percent between 1892 and 1893 while the annual output series falls by over 10 percent. The nominal average hourly wage rate falls almost 10 percent between 1893 and 1895 when the output index increases 15

percent. This phase relationship is different than the post-World War II period when industrial output and wages were nearly perfectly in phase.⁶ Failure to appreciate the nearly countercyclical behavior of wages in the 1890s may mean that the flexibility of wages in this period have been overestimated. Jeffrey Sachs, for example, gauges the amplitude of cycles with reference to peaks and troughs of the wage series [Sachs 1980, p. 80]. This method understates the magnitude of early production cycles.

Our data do not allow us to say why the nominal hourly wage rises in the downturn. One possibility, consistent with our earlier evidence that output per worker also rises, is that firings are concentrated among the unskilled and poorly paid workers while the skilled and/or industrious are retained.

Wage Rate Cuts: Approximately half of all firms cut wage rates during the depression. Two-thirds of these cut the wage rates of all their employees, with the vast majority of workers receiving a wage cut of exactly 10 percent. Sundstrom reports a similar pattern in Ohio data from this period [Sundstrom 1989]. Our preliminary probit analysis of these wage cuts shows the probability of a wage cut to be closely related to reductions in output and in employment. Firms experiencing a 50 percent reduction in output have a 50 percent probability of cutting wage rates [Carter and Sutch 1989]. It is difficult to say whether these results support the notion that wages were flexible in the nineteenth century. Looked at one way, half of all firms experiencing a 50 percent reduction in output maintained wage rates at their pre-depression level! We are currently engaged in an effort to develop modern evidence which will help us to put these findings into perspective.

^{6.} Wages in the 1890s are also more out of phase than in the interwar period when, according to Daniel Creamer's analysis of the National Industrial Conference Board's monthly series on average hourly earnings in 25 industries, nominal wages lagged business activity and factory employment by about nine months [Creamer 1950, p. 17]. Ben Bernanke and James Powell find that real wages were also "half-out of phase" in the interwar era [Bernanke and Powell 1986, p. 600].

TIME SERIES

Perhaps best known to modern researchers are the consistent, annual data on output, employment, wages, and days in operation collected by state bureaus of labor statistics. These data form the basis for Rees' annual average hourly wage series for the period 1890 to 1914 [Rees 1961] and for Stanley Lebergott's interpolating series for manufacturing employment between census benchmarks from 1890 through 1909 [Lebergott 1964, p. 436]. Rees [1961, Appendix A] provides a useful state-by-state guide to these data for the years 1890 through 1914. Examples are shown in Appendix D.

While these data have received considerable attention, they were last analyzed using hand methods of tabulation and calculation, before the widespread availability of high speed computers and computer-assisted data management and statistical analysis [Berridge 1923; Jerome 1926; Douglas 1930; Frickey 1942; Rees 1961; Lebergott 1964]. Few of these data sets have been machine coded. Computers permit us to supplement and extend the pioneering work which lead to the creation of the existing series in ways which were far too expensive to be practicable in the past. For example, the widely-used series on employment and wages are all based on data from the small number of states which collected consistent information for a long run of years. Rees' annual hourly wage series for the years 1889 through 1914 is based on data from just three states, Massachusetts, New Jersey and Pennsylvania [Rees 1961, p. 31]. We may be able to develop ways to make more systematic use of data from the many other states which were collecting comparable information in this period. Computers may also permit us to better exploit the rich industry and demographic detail in these reports. Finally, since our analysis of the Connecticut investigation of the depression of 1893 suggested a large role was played by suspensions of operation as a method of reducing labor inputs, we may want to rethink some of the inferences of earlier studies. As an illustration we offer the following comments on the volatility of unemployment.

An Example: The Volatility of Unemployment

Estimates of the volatility of unemployment for this era depend in large part on the volatility of the time series, "Average Number of Persons Employed." However, this measure appears to ignore employment variation caused by temporary suspensions of operations. We say "appears to" because we can find no explicit definition of the term "Average Number of Persons Employed" in the state reports from which intercensal employment interpolations are constructed. All we know for certain is that the "Average" is computed by adding monthly totals of "Aggregate Number of Persons Employed in the Month of ---" and dividing by 12. We believe that the "Aggregate" monthly figures are totals of names on firms' payrolls in a given month.

This interpretation of "Aggregate" would make the state definition consistent with that in the federal census of 1890 where "Average Number of Persons Employed" is "the number necessary to be continually employed during the time the establishment is reported as being in operation in the census year to perform the work of a varying number employed" [U. S. Census Office 1895, p. 14]. It would also be consistent with the definition of the term "Number of Persons Employed" in the Massachusetts Census of 1885 as implied by its discussion of the decline in yearly earnings between 1875 and 1885. The Census reports,

This average decline in yearly earnings should be looked at in its true significance.... Owing to various causes business was dull, and suspensions were numerous and long continued. This swelled the number of unemployed to an abnormal extent, and yet every person who was employed for any length of time during the year became one of the "divisor" by which the total wages paid during the year were divided, and it being a statistical as well as arithmetical rule that "the larger the divisor the smaller the quotient," consequently the average annual earnings were correspondingly reduced [Census of Massachusetts 1888, p. ccxii].

Finally, Rees appears to interpret "Average Number of Persons Employed" as the average number on the payrolls each month. When generating his estimates of daily wages, he deflates state bureau of labor statistics data on annual wages by "Days of Operation" in addition to

"Average Number of Persons Employed" [Rees 1961, p.23]. He notes that he was motivated to make this adjustment in order to reconcile discrepancies between Paul Douglas' estimates of annual earnings and full-time weekly and hourly earnings.

The differences between Douglas's annual earnings series and his full-time weekly series multiplied by 52 seem, in many cases, too large to be explained by the conceptual differences between the two measures.... In every industry except slaughtering and meat packing, full-time weekly earnings times 52 exceeds average annual earnings. In most industries the difference is large, and in the union industries, ... it is extremely large.... The state establishment data on days in operation permit us to get consistent annual and hourly earnings estimates" [Rees 1961, p. 24].

Clearly, Rees feels that "Average Number of Persons Employed" does not already reflect variations in days in operation. If this interpretation is correct then the payroll employment measure falls in response to firings, but not to suspensions. Since all of the annual manufacturing employment series for the period prior to 1920 are based on this payroll measure they may miss a substantial fraction of the unemployment of this era.

DATA DISTRIBUTION

The data sets described in this report are all relatively small. They can be distributed on floppy disks and, in most cases, easily manipulated within the standard confines of a desktop computer. As an illustration of the documentation standards and distribution format we have brought to the Mini-Conference an example of a IBM-PC standard software binder with the 1890 data from the worker survey for the State of Maine. Suggestions on alternative data distribution vehicles and comments on our documentation standards are welcome.

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APPENDIX A GUIDE TO COVERAGE IN SELECTED WORKER SURVEYS

APPENDIX A

Guide to Coverage in Selected Worker Surveys

State Report Year	Calif 3rd Bi 1887-88	Calif 5th Bi 1893	Colo 1st Bi 1887-88	Conn 2nd An 1886	Conn 4th An 1888	Ill 1st Bi 1879-80	Ill 2nd Bi 1881-82	Ill 3rd Bi 1883-8
No. Respondents	430	3493	138	69	693	529	1191	2129
Personal								
Age	1	1						
Sex	4	ī	3	1			5	5
Family	6	ž	8	9	10	10	11	12
Nativity	19	í	•	ĺ				1
Residence		23		-	1			ī
Housing	30	32	33	34	35	30	32	31
Savings	50	JZ	51	50	52	53	53	53
Other Assets	20		31	30	1			33
Insurance		59	58		-			
Labor Union		1	1					
Health	1	1	1	1				
	1	7	1	ī				
Opinions			1					
Employment								
Industry	1	1		1	1			
Occupation	1	1	1	1	1	1	1	3
Wage Rate	1	1	1	1				
Change in Wage Rate							1	
Piece Rate	1							
Yearly Earnings		1	1	1	1	1	1	1
Change in Earnings		-						
Family Earnings			1	1		1	1	1
Hours per Day	1	1	ī	-		-		-
Pay Period	-	-	ī					
Time Lost		1	ī	1				
Cause of Time Lost		î	ī	-				
Work Experience	63	64	_					
Skills	5 4	-						
Expenditures								
Total	1		1		1	1	1	1
Detail	ī	•	=		1	ī	ī	1

Note: "1" indicates that the named variable is included in the survey. A key to other codes appears on page 41.

APPENDIX A -- Continued

State Report Year	Ind 5th Bi 1893-94	Iowa lst Bi 1884-5	Iowa 6th Bi 1894-5	Iowa 9th Bi 99-1900	Iowa 10th Bi 1901-02	Iowa 11th Bi 1903-04	Iowa 12th kBi 1905	Iowa 13th B 1906-0
No. Respondents	500	347	3334	268	395	333	407	404
Personal								
Age	1	1	1					
Sex	4		1					
Family	12	7	8			13	13	13
Nativity	20	1	1	1				
Residence	1	•	1	1	1	1	1	1
Housing	30	26	36	34	37	37	37	37
Savings	50	50	54		50	50	50	50
Other Assets	20							
Insurance		58		1	1	1	1	-
Labor Union		3.5	1	1				
Health	1		-	_				
Opinions	r	1	1		l	1	1	1
-								
Employment								
Industry Occupation	1	1	1	1	1	1	1	1
	1	i	1	ī	ī	1	1	1
Wage Rate Change in Wage Rate	-	-	_	-	ī	1	1	1
			1		_	_		
Piece Rate	. 1	1	î	1	1	1	1	1
Yearly Earnings	. +	1	_	-	-	-		
Change in Earnings								
Family Earnings	1		1	1	1	1	1	1
Hours per Day	Ţ	1	1	-	-	-	_	_
Pay period	1	1	1					
Time Lost	1		1					
Cause of Time Lost	1	66						
Work Experience	65	71	70					
Skills		/1	7.0					
Expenditures								
Total	_	1						
Detail	1							

APPENDIX A -- Continued

State Report Year	Iowa 14th Bi 1908-09	Iowa 15th Bi 1910-11	Kan 1st An 1885	Kan 2nd An 1886	Kan 3rd An 1887	Kan 5th An 1889	Kan 10th An 1894	Kan 11th A 1895
No. Respondents	519	152	337	471 famil	444	147	est. 300	519
Personal								
Age			1	1	1	1	1	1
Sex	1	3	3	3	3	4	1	3
Family	13	13	14	9	9	6	13	9
Nativity			1	1	í	19		19
Residence	1	1	1	1	1			
Housing	37	37	38	39	32	30	30	28
Savings	50	50	55	55	55	53	50	53
Other Assets	30	~0	55	~~	~~	33	30	
Insurance	1	1	60	60	60			5.8
Labor Union	1	1	1	1	1			1
Health			1	1	i			1
Opinions	1	1	1	1	7			1
opinions	*	*	- -					-
Employment								
Industry								
Occupation	1	1	1	1		1	1	1
Wage Rate	1	1	1	1	1		1	1
Change in Wage Rate	: 1	1		1	1			1
Piece Rate								
Yearly Earnings	1	1	1	1	1	1		
Change in Earnings								
Family Earnings			1	1	1			1
Hours per Day	1	1	1	1		1	1	1
Pay period			1	1	1			1
Time Lost		1		1	1	1	1	1
Cause of Time Lost				1	1	1		1
Work Experience						63	65	66
Skills						72	71	
Expenditures								
Total		1		1	1	1	1	
Detail		*		1	-	i	1	
Decart				7		_	-	

APPENDIX A -- Continued

State Report Year	Kan 12th An 1896	Kan 15th An 1899	Kan 16th An 1900	Maine 1st An 1887	Maine 2nd An 1888	Maine 2nd An 1888	Maine 3rd An 1889	Maine 5th A 1891
No. Respondents	539	1058	531	108	222	118	116	1082
Personal								
Age	1	1	1	1		1	1	1
Sex				3	4	3		1
Family	15	7	7	10	12	10	10	10
Nativity	19	1		1	1	1	1.	1
Residence	1	1	1	1	1	1	1	1
Housing	28	28	28	28		28	28	28
Savings	5.3	53	53	55	56	51	51	51
Other Assets		1	1					
Insurance	58	1	1	59		60	61	61
Labor Union	1	1	1	1		1	1	1
Health								
Opinions	1	1	1	1	1	1	1	1
Employment								
Industry		1	1		1		1	1
Occupation	1	1	1	1	1	1	1	1
Wage Rate	1	1	1	1	1	1	1	1
Change in Wage Rate	1	1	1				1	1
Piece Rate		1	1		1			
Yearly Earnings	1	1	1	1	1	1	1	
Change in Earnings						_	_	
Family Earnings	1			1		1	1	1
Hours per Day	1	1	1	1	1	1	1	1
Pay period		1		1		1	1	
Time Lost	1	1	1	1	1	1	1	1
Cause of Time Lost	1	1	1	1	1	1	1	1
Work Experience Skills	66	67	67					
Expenditures								
Total	1	1	1	1		1	1	1
Detail		1	1				1	1

APPENDIX A -- Continued

Personal	State Report Year	Maine 14th An 1900	Mass 6th An 1875	Mich 6th An 1889	Mich 7th An 1890	Mich 8th An 1891	Mich 10th An 1893	Mich 11th An 1894	Mich 12th A 1895
Age 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No. Respondents	175	397	319	5419	4038	13757	9204	93!
Age 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dersonal								
Sex 3 3 3	• • • • • • • • • • • • • • • • • • • •	1		1	1	1		1	
Family 10 14 9 16 9 11 12 Nativity 1 1 1 19 19 19 1 1 1 Residence	-	-	3					3	
Nativity 1 1 1 19 19 19 1 1 1 1 1 1 1 1 1 1 1 1		1.0		9	16	9	11	12	
Residence Housing 28 40 41 34 28 42 43 Savings 51 57 57 50 55 50 Other Assets 1 1 1 1 1 Insurance 61 61 61 61 61 1 60 Labor Union 1 1 1 1 1 1 Opinions 62 62 62 Employment Industry 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					19	19	1	1	
Housing 28		-	_			24	1	1	1
Savings 51 57 57 50 55 50 Other Assets 1 1 1 1 1 Insurance 61 61 61 61 61 1 60 Labor Union 1 1 Health 1 1 1 1 1 Opinions 62 62 62 Employment 1 1 1 1 1 1 1 1 1 Occupation 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		28	40	41	34	28	42	43	
Other Assets 1 1 1 1 1 1 60 Insurance 61 61 61 61 61 61 1 60 Labor Union 1					57	50	55	50	
Insurance 61 61 61 61 61 1 60 Labor Union 1			7	_	1	1			
Labor Union 1 Health		61	-			61	1	60	
Health Opinions 62 62 62 Employment								1	
Employment				1				1	
Employment Industry 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							62	62	1
Industry 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•								
Occupation 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			_	_				1	1
Wage Rate 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									1
Change in Wage Rate 1 Piece Rate Yearly Earnings 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1						7
Piece Rate Piece Rate Yearly Earnings Family Earnings Family Earnings Family Earnings I Hours per Day I Pay period I I I Cause of Time Lost Vexperience Skills Total I I I I I I I I I I I I I				1	_	1			
Yearly Earnings 1 1 1 1 1 1 1 1 1 1 Change in Earnings Family Earnings 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1						1	
Change in Earnings Family Earnings I								_	
Family Earnings 1 Hours per Day 1 1 1 1 1 1 Pay period 1 1 1 1 1 1 1 Time Lost 1 1 1 1 1 1 1 1 Cause of Time Lost 1 0 1 1 1 1 Work Experience 64 64 64 Skills 70 72 69 Expenditures Total 1 1 1 1		1	1	1	1	1	1	1	
Hours per Day 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
Pay period 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Family Earnings							_	
Time Lost 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hours per Day	_							
Cause of Time Lost 1 0 1 1 1 1 1 Work Experience 64 64 5kills 70 72 69 Expenditures Total 1 1 1 1	Pay period								
Work Experience 64 64 54 70 72 69 Expenditures 70 1 1 1 1	Time Lost	1		_					
Skills 70 72 69 Expenditures Total 1 1 1	Cause of Time Lost	1				1	1	1	
Expenditures Total 1 1 1	Work Experience				64				66
Total 1 1	Skills			70			72	69	
Total 1 1 1	Expenditures								
		1				1			
Detall 1 1 1		1	1		1				

APPENDIX A -- Continued

State Report 1 Year	Mich 2th An 1895	Mich 12th An 1895	Mich 13th An 1896	Mich 13th An 1896	Mich 14th An 1897	Mo 1st An 1879	Mo 2nd An 1880	Mo 11th A 1889
No. Respondents	2300	5600	4992	1943	4000?	575		3117
Personal								
Age	1	1	1	1	1			
Sex	4	3			3			3
Family	6	12	8	8	12	11	11	
Nativity	i	1	1	1	1			
Residence	î	ī	ī	1	24		1	
Housing	-	-	43	43	44		30	
Saving	50	50	50	53	50		55	50
Other Assets	30	30	~~	1				
Insurance	61	61	1	ī	60			
Labor Union	i	1	-	-	1			
Health	_	-			-			
Opinions	62	62		62	1			
Optitions	02	02		V.	-			
Employment					_			
Industry	1	1	1	1	1	_		1
Occupation	l	1	1	1	1	1	1	1
Wage Rate	1	1	1		1	1		1
Change in Wage Rate	1	1	1		_	1		
Piece Rate					1	1	_	
Yearly Earnings	1	1		1	1	1	1	1
Change in Earnings				1			_	
Family Earnings							1	
Hours per Day				1	1			
Pay period	1	1	1		1			
Time Lost	1	1	1	1	1	1		
Cause of Time Lost	1	1	1	1	1			
Work Experience								
Skills								
Expenditures								
Total						1	:	
Detail							:	

APPENDIX A -- Continued

Personal Age Sex Family Nativity Residence Housing Savings Other Assets Insurance Labor Union Health Opinions Employment Industry Occupation Wage Rate Change in Wage Rate	1	3	1 9 19 22 45 1 61 1	1467 1 3 11 26 53	311 3 15 1 40 50 1	159 1 3 7 1 1 46	11 1 1 30 54	316 19 47 57 61 1
Age Sex Family Nativity Residence Housing Savings Other Assets Insurance Labor Union Health Opinions Employment Industry Occupation Wage Rate			9 19 22 45 1 61	3 11 26	15 1 40 50	3 7 1 1	1 1 30	16 19 47 57 61 1
Age Sex Family Nativity Residence Housing Savings Other Assets Insurance Labor Union Health Opinions Employment Industry Occupation Wage Rate			9 19 22 45 1 61	3 11 26	15 1 40 50	3 7 1 1	1 1 30	16 19 47 57 61 1
Sex Family Nativity Residence Housing Savings Other Assets Insurance Labor Union Health Opinions Employment Industry Occupation Wage Rate			9 19 22 45 1 61	11 26	15 1 40 50	7 1 1	1 1 30	16 19 47 57 61 1
Family Nativity Residence Housing Savings Other Assets Insurance Labor Union Health Opinions Employment Industry Occupation Wage Rate	1		19 22 45 1 61 1	26	1 40 50	1	1 1 30	19 47 57 61 1
Nativity Residence Housing Savings Other Assets Insurance Labor Union Health Opinions Employment Industry Occupation Wage Rate	1		22 45 1 61 1		40 50	1	1 30	47 57 61 1
Residence Housing Savings Other Assets Insurance Labor Union Health Opinions Employment Industry Occupation Wage Rate	1		45 1 61 1		40 50		30	57 61 1
Housing Savings Other Assets Insurance Labor Union Health Opinions Employment Industry Occupation Wage Rate	1		45 1 61 1		50	46		57 61 1
Savings Other Assets Insurance Labor Union Health Opinions Employment Industry Occupation Wage Rate	1		1 61 1		1		54	61 1 1
Other Assets Insurance Labor Union Health Opinions Employment Industry Occupation Wage Rate	1		61 1		1			1
Insurance Labor Union Health Opinions Employment Industry Occupation Wage Rate	1		61 1					1
Labor Union Health Opinions Employment Industry Occupation Wage Rate	1		1					1
Health Opinions Employment Industry Occupation Wage Rate	1				62			_
Opinions Employment Industry Occupation Wage Rate	1		1		62			1
Employment Industry Occupation Wage Rate	1		-					
Industry Occupation Wage Rate	1	_						
Occupation Wage Rate	1			1				
Wage Rate	1	1	1	1 1	1	1	1	1
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	1	I	1	1	1	+		1
					1			1
Piece Rate		,	,	1			1	. 1
Yearly Earnings	1	1	1	1			Τ.	1
Change in Earnings			1					1
Family Earnings			1		1			1
Hours per Day				1	1			1
Pay period				1	1		1	1
Time Lost			1		1		1	3
Cause of Time Lost			1		Ţ		1	64
Work Experience								64
Skills								
Expenditures			•		4		1	1
Total			1		1		1 1	-
Detail							1	

APPENDIX A -- Continued

State Report Year	NJ 2nd An 1879	NJ 6th An 1883	NJ 7th An 1884	NJ 8th An 1885	NJ 9th An 1886	NJ 11th An 1888	NJ 11th An 1888	NJ 26th A 1903
No. Respondents	383	550	1300	608	376	680	est. 225	943
Personal								
Age							1	2
Sex	5				3		4	1
Family	17	11	10	10	10	15	6	
Nativity	i			1	1	1		21
Residence	-	1	1	ī	1	ĺ	1	1
Housing	32	30	30	31	31			
Savings	53	55	55	55	53	52		
Other Assets	55	55	33		J.	02		
Insurance						58		
Labor Union						1		
Health		1	1	1		-	1	1
	3	1	1	i			1	1
Opinions	1	1	1	1			-	1
Employment								
Industry		1	1	1	1	1		
Occupation	1	1	1	1	1	1	1	1
Wage Rate	1	1	1	1	1	1	1	1
Change in Wage Rate					1	1		
Piece Rate		1	1	1			1	
Yearly Earnings	1	1	1	1	1	1		
Change in Earnings	-		_					
Family Earnings	1	1	1	1	1	1		
Hours per Day	ī	ī	ī	1	ī	1	1	1
Pay period	ī	-	_	-		ī		
Time Lost	i	1	1	1	1	1		
Cause of Time Lost	1	i	ī	ī	ī	1		
Work Experience	67	-	-	•	-	-		63
Skills	3,						71	72
Expenditures								
Total	1	1	1	1	1	1		
Detail	1	1		1	1			

APPENDIX A -- Continued

State Report Year	Ohio 1st An 1877	Ohio 1st An 1877	Ohio 1st An 1877	Ohio 2nd An 1878	Ohio 3rd An 1878	Ohio 4th An 1880	Ohio 5th An 1881	Ohio 6th A 1882
No. Respondents	65	84	61	101	367	286	est. 500	299
Personal								
Age								
Sex		3	5	3			3	3
Family	11	11	11	12	10	11	11	11
Nativity								
Residence	1	1					1	
Housing	-	30	30	30	30	30	31	46
Savings			53	55	55	53	53	53
Other Assets					1			
Insurance					-			
Labor Union								
Health								
Coinions							1	1
obititous							-	-
Employment								
Industry	1	1						
Occupation	1	1	1	1	1	1	1	1
Wage Rate	1			1	1	1	1	1
Change in Wage Rate	1			1	1	1	1	1
Piece Rate	_	1		1	1	1	1	1
Yearly Earnings	1	ī	1	ī	1	1	1	1
Change in Earnings	-	_	-	_	-			
Family Earnings			1	1	1	1	1	1
Hours per Day	1		_	ī		1	1	1
Pay period	-	1		ĩ		1	1	1
Time Lost	1	-		1.	1	. 1	1	1
Cause of Time Lost	-			-	-	, -	_	_
Work Experience	66				68			
Skills								
Expenditures								
Total			1	1	1	1	1	1
Detail			1	1	1	1	-	_
			L		_	-		

APPENDIX A -- Continued

State Report Year	Ohio 6th An 1882	Ohio 7th An 1883	Ohio 7th An 1883	Ohio 9th An 1885	Ohio 10th An 1886	Ohio 17th An 1893	Ohio 17th An 1893	Penn 7th An 1878-79
No. Respondents	74	1013	212	353	355	8671	?	299
Personal								
Age								1
Sex		3	3	3				3
Family	11	11	11	10	11	11	11	11
Nativity					1			
Residence			1	1		1	1	1
Housing		31		31	48			
Savings	53	53	53	55	53	50	50	50
Other Assets								
Insurance				1				
Labor Union				1	1			
Health					1			
Opinions		1		1	1			
Employment								
Industry	1	1	1			1		
Occupation	1	1	1	1	1	1		1
Wage Rate	1	1	1					1
Change in Wage Rate	1							
Piece Rate	1	1	1	1				. 1
Yearly Earnings	1	1	1	1	1			1
Change in Earnings								_
Family Earnings	1	1	1	1	1			1
Hours per Day		1		1				1
Pay period	1	1	1					1
Time Lost	1	1	1	1	1			1
Cause of Time Lost		1		1	1			
Work Experience								66
Skills								
Expenditures					_		•	1
Total	1	1	1	1	1	*	1	Ţ
Detail				1 .	1	1	1	
Farmers'Statistics							1	

APPENDIX A -- Continued

State Report Year	Penn 9th An 1880-81	Penn 22nd An 1894	RI 2nd An 1888	RI 2nd An 1888	RI 6th An 1893	RI 8th An 1894	WV 2nd Rpt 1892	WV 2nd Rp 1892
No. Respondents	167	1378	600	600	573	2299	100	136
Personal								
Age	1		1	1			1	1
Sex	3	3						
Family	11		15	15	10	9	18	
Nativity		1	19	19		19	19	19
Residence	1	1			1	1	1	1
Housing		26	32	32	32	49		
Savings	53		53	53	5.5			
Other Assets								
Insurance			58	58	58			
Labor Union			1	1	1		1	
Health								
Opinions								1
•								
Employment					•	1		1
Industry		1	-		1	1	1	1
Occupation	1	1	1	1	1	1	1	1
Wage Rate	1	1	1	1	1	1	1	1
Change in Wage Rate		1	1	1		1	1	Ţ
Piece Rate	1	1	_	_	_		_	
Yearly Earnings	1	1	1	1	1		1	
Change in Earnings		1	_		_			_
Family Earnings	1		1	1	1		_	1
Hours per Day	1	1			1		1	1
Pay period	1	1	1	1	1		1	1
Time Lost	1	1	1	1	1	1	1	1
Cause of Time Lost			1	1				1
Work Experience	66							
Skills		72	69	69	69			
Expenditures								
Total	1		1	1	1		1	1
Detail	-							

APPENDIX A -- Continued

State Report	Wisc 3rd Bi	Wisc 7th An	Wisc 7th An
Year	1887-88		1895-96
No. Respondents	est. 900	1488	555
Personal			
Age	1	1	
Sex	3	3	
Family	6	13	14
Nativity	1	1	1
Residence	25	1	
Housing	26	29	
Savings		50	55
Other Assets			
Insurance		1	58
Labor Union			1
Health	1		
Opinions	1		1
_			
Employment			•
Industry			1
Occupation	1	1	1
Wage Rate	1	1	
Change in Wage Rate			
Piece Rate	1	•	
Yearly Earnings	1	. 1	
Change in Earnings			
Family Earnings	,	1	
Hours per Day	1	1	
Pay period Time Lost	7	Τ	
Cause of Time Lost			
Work Experience	63		66
Skills	69		00
SKIIIA	0,9		
Expenditures			
Total		1	
Detail		1	
Farmers'Statistics	•		1

Key

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Variable available.
    Children only.
    Men only.
    Women only
    Heads of household.
    Marital status.
    Marital status, dependents.
   Marital status, dependents, family size.
    Marital status, dependents, family size, children in school.
   Dependents, family size.
   Family size.
    Marital status, family size.
    Dependents.
    Marital status, family size, children in school.
    Dependents, family size, children in school.
   Marital status, dependents, children in school. Marital status, children in school.
    Family size, children in school.
    Nativity, parents' nativity.
   Nativity, parents' nativity, father's occupation. Parents' nativity, father's occupation.
    Years in U.S.
    Years in U.S., years in state.
    Current residence, years in U.S.
    Current residence, years in state.
    Home ownership.
    Home ownership, mortgage.
    Home ownership, mortgage, value of home.
28
    Home ownership, mortgage, home value, mortgage interest rate.
    Rent.
    Rent, number of rooms.
    Home ownership, rent, number of rooms.
    Home ownership, mortgage, home value, mortgage interest rate, number of rooms.
    Home ownership, mortgage, rent.
35
    Home ownership, mortgage interest rate.
    Home ownership, mortgage, number of rooms. Home ownership, value of home.
38
    Home ownership, number of rooms.
    Home ownership, mortgage interest rate, rent.
    Home ownership, rent.
    Home ownership, mortgage, value of home, mortgage interest rate, rent.
    Home ownership, mortgage, mortgage interest rate, rent, number of rooms.
    Home ownership, mortgage, mortgage interest rate, rent.
    Home ownership, mortgage, mortgage interest rate.
    Home ownership, mortgage, value of home, rent.
    Home ownership, rent, number of rooms.
    Home ownership, mortgage, value of home, rent, number of rooms.
    Home ownership, mortgage, value of home, mortgage interest rate, rent, number of rooms.
    Home ownership, mortgage, rent, number of rooms.
    Savings this year.
    Savings this year, dissavings, savings in past years, has savings account.
    Savings this year, dissavings, has savings account. Savings this year, dissavings.
    Savings this year, savings in past years.
Savings this year, dissavings, savings in past years.
    Savings in past years.
    Savings this year, has savings account.
    Insurance, benefit society.
    Benefit society, weekly benefits.
60
    Insurance, weekly benefits.
    Insurance, benefit society, weekly benefits. "Better off now than in the past?"
61
62
    Age began work.
    Age began work, years in present occupation, years with present employer. Age began work, years in present occupation.
Years in present occupation.
     Years with present employer.
    Years in present occupation, years with present employer.
    Apprenticeship.
     Training in old country.
    Years of schooling.
72 Apprenticeship, training in old country.
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APPENDIX B SAMPLE PAGES FROM STATE BUREAU OF LABOR STATISTICS WORKER SURVEYS

- Source: Michigan Bureau of Labor and Industrial Statistics, Sixth Annual Report. (Lansing: Thorp and Godfrey, State Printers and Binders, 1888).
- Short Description: Individual responses from 54 employees in the fire clay, 20 in slate, 69 in coal, 124 in grindstone, 193 in gypsum, 234 in stone, and 2,497 in the copper industry of Michigan in 1887.
- Noteworthy Attributes: Wages in old country together with wages in Michigan; value of remittances to the old country; savings; asset ownership; regularity of employment.
- Comments of Workers: Summaries of worker comments are reported verbatim without comment.

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1.—Statistics
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ABLE NO.

Wages received in the old connirg.	\$50 per year \$2 00 per week \$2 00 per week \$65 per week \$65 per week \$65 per week \$65 per year? w'k'd at home w'k'd at home 1 85 per day 1 85 per day 1 150 per day 1 100 per week \$150 per day
What occupation did you tolior is to sold sold sold will.	farmer laborer butcher farmer
How do wages compare with former years in this	about same same same same same same not answ'd not so good
Amount saved during the year,	001 001 001 001 001 001 001 001 001 001
How often are you paid.	
Are you paid cash or trade.	00000 00000 00000 000000 000000
Anines levend	######################################
Wages pald.	55523 2252 7:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1
	04000 00000 00000 00000 000000 00000000
e rot sunod tuem woH .	ACTOR OF THE PROPERTY NO PROPERTY
Number of months em- ployed during year.	
How long with present employer.—(Years.)	######################################
How many years at pres-	2
How many depend on you	00 00 00 10 1
How many children in family.	○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○
Married or single.	
How iong in U. S., if ior- eign born.—(Years.)	##
Satisfity of parents.	France U. S. Commany Commany U. S. Commany
. Girlia.	Treland U. S. C. S. C. S. C. S. C. C. S.
fer	A = 2000
Occupation.	Brioklayer Fireman at Elin Kiln setter Clay moider Laborer Runs clay press Laborer Runs clay press Faborer Runs clay press Runs clay clay clay clay moider Runs moider Runs moider Runs moider Runs moider Runs moider

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time.	Causes not stated			왕 홍	: : : : : : : : : : : : : : : : : : : :	<u> </u>	: : 2
2	Inability to obtain work.—(Days.)				26	24	3
1,088	From sickness.— (Daya.)			::=:		::::::	:42
_	Years ago.	# 5 8 5 ° °	::::	::: 22 Yes :::	:::::	:::::	. : c . :
1	Rate of interest.			, t-	:::5		
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bio	Line number. day's work in the country.	2	2 2	2000		######################################	1 1 98 8a8a8
1-	sedman ent.I	.				-	
	Occupation.	Bricklayer Fireman at kiin Kiin settor	Laborer		****		

Source: Michigan Bureau of Labor and Industrial Statistics, Seventh Annual Report, 1890. (Lansing: Darius D. Thorp, State Printers and Binders, 1890).

Short Description: Individual responses from 5,419 furniture workers by firm.

Noteworthy Attributes: Earnings, savings, experience with firm, and regularity of employment.

Also, amount of money on arrival in the U.S.

Comments of Commissioners:

In preparing this report, an effort has been made to obtain reliable information relating to the social and industrial conditions surrounding the employees in one of the leading industries of the State.... The answers to the questions enumerated in the tables are therefore the personal testimony of the men employed, and are entitled to credit [p. xi].

LABOR AND INDUSTRIAL STATISTICS. CALIFORIA

TABLE No. 1 .- Shouring the indicidual reports of the employes

in the Furniture Manufacturing Industry in Grand Rapids.

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Source: Michigan Bureau of Labor and Industrial Statistics, Thirteenth Annual Report for the Year Ending February 1, 1896. (Lansing: Robert Smith and Co., State Printers and Binders, 1896).

Brief Description: Individual-level data for 3,134 employees of hack and bus lines and 1,943 individuals who own their own hack, bus, dray or team.

Noteworthy Features: Earnings, time lost by cause, savings, home ownership, insurance.

Comment of the Commissioners: "In making the canvass, care was taken in selecting canvassers, to employ those from whom, by their general intelligence and standing with employers and employes, satisfactory service might be expected" (p. 1).

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- Source: Kansas Bureau of Labor and Industry, <u>Tenth Annual Report</u>, 1894. (Topeka: Press of the Hamilton Printing Company, 1895).
- Short Description: Individual reports on the economic, educational and social conditions of 164 female and 1,233 male wage earners in professional, manufacturing, clerical, sales, and service occupations in cities across the state. Averages, by occupation, for a much larger number of workers.
- Noteworthy Attributes: Includes workers outside of manufacturing. Years of schooling and age when left school reported.

Selected Comments of Commissioners:

The civilization of this age is inclined to broaden the opportunities and make women more independent, until she is now man's competitor in almost every occupation and profession. By this change in industrial conditions the bars have been let down, but their advent into all the industrial fields has perhaps tended to decrease men's wages; for the only way in which women could procure work was to offer their services for less money, as the prejudice against women taking up other than something domestic had to be overcome; but now that this difficulty has been conquered and the fields are all open to them, they have proven themselves equal to the task; nay, in most instances, more competent and careful workers than their more favored brothers. They all say: "Give us equal pay for equal work, regardless of sex. And the tendency is decidedly in that direction; industrial progress is all in their favor" [pp. 173-174].

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- Source: Iowa Bureau of Labor Statistics, Reports, Nos. 9-15, 1899-1900 to 1910-11. (Des Moines: Emory H. English, State Printer).
- Brief Description: Eight reports with virtually identical formats containing the individual responses of 2466 wage earners from a cross section of trades and locations across the state.
- Noteworthy Features: Savings, insurance, home ownership and amount of equity in the home, change in hours and wage rates since the previous year.

A Concern of the Commissioners:

"While this is the largest number of reports ever returned to the Bureau for any one report, it only represents a very small per cent of the total number sent out.

There seems to be very little interest manifested by the wage earners of the state with regard to properly filling out these blanks and returning them to the department, and so long as the mailing system is used as a means to circulate blanks and collect this data, it will be impossible to obtain any definite information along this line of inquiry. However, great care has been observed in an effort to obtain a fair representation of the different trades and vocations, and from the various localities throughout the state as well" (p 270).

DUREAU OF LABOR STATISTICS

WAGE EARNERS

showing eccupation, hours worked, usge rates, annual earnings, savings

AIR DRAKE CLEANER.

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AIR BRAKE CLEANER.

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Source: Pennsylvania Bureau of Industrial Statistics, Report, 1894. (Clarence M. Busch, State Printer, 1895).

Short Description: Report on the condition of the building trades from 1890 through 1894.

Noteworthy Attributes: Individual-level longitudinal data on wage rates and months worked each year from 1890 through 1894.

A Comment of the Commissioners:

As the workingmen in one place know what wages are paid for similar labor in other places, one would suppose that in view of the easy and cheap modes of communication between them, those living in places where remuneration was lowest would go to places where the highest remuneration was paid.... One of the consequences of establishing labor organizations, and, indeed, one of the reasons for establishing them, was to obtain information for the use of their members concerning these matters, and in truth the members do know quite as well, or better, than their employers what remuneration is paid everywhere throughout the State. Nevertheless,..., there is no uniformity in the rates, nor do they vary from year to year in the same manner. Doubtless the varying local demands explain some of the differences, but they do not wholly account for the variations. Another reason is that employers are disinclined to change rates unless the necessity for doing so clearly exists. Perhaps no prices on the whole remain as stable as those paid for labor, and so the varying rates exist, even within short distances and often where communication is easy and frequent [p. 4B, emphasis added.]

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APPENDIX C SAMPLE PAGES FROM STATE BUREAU OF LABOR STATISTICS SPECIAL SURVEYS

SPECIAL SURVEY

- Source: Connecticut Bureau of Statistics of Labor, <u>Tenth Annual Report for the Year Ending November 1</u>, 1894. (Meriden, Conn.: Press of the Journal, 1894).
- Short Description: Report of an investigation into the effects of the industrial depression of 1893 on the manufacturing establishments of the State.
- Noteworthy Attributes: Firm-level data on changes in output, employment, time worked, earnings and wage rates.
- Remark of Commissioners: "It will be noted that the large majority of the industries retained on the payrolls a large percentage of the ordinary number of employes. The reduction made necessary by the depression was largely in the working time,..." (p. 186).

CHANGES IN WAGE RATES.

The most common percentage of reduction reduced the rate of wages. The reductions, as reported, will be was ten. In many cases the reduction did not affect all of the reports of a slight increase in wage rates, sometimes restricted to a A little more than one-half of the establishments represented stone-cutting, cotton, carriage-making, wool, hosiery and knit goods, wire goods, cast-iron and forgings, hardware and cuttery. In There were portion of the employes, in sixteen establishments, three of them In four instances the increase was a restoration of part of a previous reduction, three of the four instances being employes. The industries in which wage-rate cutting was most frequently reported are the manufacture of musical instruments, reductions in wage rates, and in the one industry of printing and several industries not over one-third of the establishments reported book-binding no changes in wage rates were reported. found in the tables. being woolen mills. in woolen mills.

All the details supplied by the schedules are presented in the of the establishments is given a serial number, which it retains succeeding tables by establishments, industries and months. Each through the tables.

BOOTS, SHOES AND LEATHER GOODS.

HOURS, EMPLOYES AND WAGES BY ESTABLISHMENTS.

Per Cent.	Average Wages Paid of Average In 1892.	77.08	. 22 98	# #	8.8	\$0.56	3	81.78
Average Monthly Pay- Menth in Wadre.	June, 1693, Lo Aug., 1894.	92,667.93	1,218.67	2 008.00	8,286.79	8,458.83	409.ET	6,896.71
AVERAGE M MENTS II	In 1897.	\$1,481.50	3,809.00	3,400.00	1,416.00	6,700.00	1,300.90	7,209.44
Per Cent.	Number Employed of Average in 1893.	8.8	100.00	00:001	8.98	8 .13	74.20	12.20
RAGE NUMBER Employed.	June. 1963 to August, 3694.	3	22	\$	F	2	×	ĭ
AVERAGE NUMBE Employed.	12 162	k	E	*	2	3	2	2
Per Cont.	Hours Worked of Full Time.	2 2	2.3	2	:	2	2.	# # # # # # # # # # # # # # # # # # #
Nu: Retai	mber of	-		-	+	•	•	•

EFFECTS OF THE INDUSTRIAL DEPRESSION.

68.

PER CENT. HOURS, EMPLOYES AND WARES BY MONTHS.

RONTHS.	Per Cent, Hours Worked of Full Time.	Per Cent. Less Than Pull Time.	Per Cent. Number Employed of Average Number	Per Cent. Wages Paid of Average Monthly Payments in 1862.	Per Cent. Decrease in Wake Payments.
June, 1885,	12.98	. R.	94.09	82.NS	7.6
July. 1896.	73.13	荒	60.94	10.00	1.93
August, 1888, .	48.06	24.16	3	77.77	27.73
Beptember, 1888,	62.50	27.78	81.28	28 2:	#.
October, 1883	67.73	# #	30.E3	91.99	33.83
November, 1893,	62.61	2.5	92.00	67.62	32.38
December, 1888, .	27.72	47.84	F. 8	66.26	27.74
January, 1884.	48.40	25.25	83.56	80.48	39.62
February, 1894,	78.81	# #	87.78	78.37	27.52
March, 1894,	77.34	E.	20 20	4. 21	16.73
April, 1884,	80.23	19.78	93.68	59.29	10.71
May, 1894,	18:10	18.79	39 .64	87.86	16.92
June, 1894.	80.23	19.77	H.73	28.82	3 3 3
Jaly, 1884,	67.98	15.01	11.81	70.91	80 82
August, 1894,	78.23	21.78	8	1	2

IDLE DAYS, PHODUCTION AND CHANGES IN WACK HATES.

# 5 4 £	Per Cent. Production in Last Find in Last Find in 1892. In 1892. 78.00 89.00 60.00	General.	Per Cent. of Reduc-	Partial. Partial. Of Cont. Dioyea. Affected.	General.	Per Per Cent. of 18.	Parlst. Per Gent. Ent. Booyes So. Affected.
11.60	75.00	:	:	= :	:		

SPECIAL SURVEY

- Source: New York Bureau of Statistics of Labor, Eleventh Annual Report. (Albany: James B. Lyon, 1894).
- Short Description: Report of an investigation into the effects of the industrial depression of 1893 on the manufacturing establishments of the State.
- Noteworthy Attributes: Information on changes in wage rates and responses to the question, "At the time your works closed, did you have orders ahead sufficient to keep them running, provided the banks would render you the usual discounts and assistance?"
- <u>Summary Remarks of Commissioners</u>: Firms' responses to the question regarding the role of banks in the depression are summarized as follows:
 - ...1,359 reported they were deficient in orders ahead, which necessitated the closing of their manufactories, either partially or totally, while 92 inform the Bureau that they had orders ahead; that the banks were willing to render them the usual discounts and assistance, but they, nevertheless, closed their workshops. Eighty-six manufactures reported that they had no orders ahead, but the banks were willing to assist them, and 55 manufactures stated that the banks refused to assist them. Forty-eight manufactures reported that their works were not closed during the business depression [p. 414].

TABLE F.

Answers to Question: "At the Time your Works Closed did you have Orders Ahead Sufficient to keep them Running, Provided the Banks would Render you the Usual Discounts and Assistance?"

						-	
industry.	Number who answer yes.	Number who suswer no.	Nunber who do not reply.	Number of workshops not closed.	Manufacturers reporting that orders were canceled.	Manufacturera reporting no orders abrad, but that banke were willing to rend-r usual discounts and assistance.	Manufacturers reporting that banks refused to render regulred discounts and assistance.
Agricultural implements. Agricultural implements (not classified) Agricultural implements (not classified) and		•		•	1	******	
Agricultural implements (not classified) and sash, doors and blinds		1	••••	1			••••••
Drills " (grain). Farm edge tools	• • • • • • • • • • • • • • • • • • • •	i		*****	•••••	*******	••••••
Feed cutters		1 1		1		i	
Machine knives	•••••	1	1	••••			******** ********
Mowers and binders Plows		2 2	····i	*****	•••••		*******
Totals		18	_2	6	1	1	
Arms and ammunition. Arms, sewing machines, etc	1			• • • • •	2		••••••
Toy torpedoes and paper caps	1	4		1	2		
Artisans' tools				2	==		
Axes Drills (rock) and compressors Files and rasps Hammers and hatchets, (steel)		. 1	••••				
Tools (butchers')		1 1 1				1	
" (trimmers')		6		3		1	
Coots and shoes. Boots and shoes. Shoes	4	4 539	•••••	1 7	i	3	8
Shoes	1	2		<u> '</u>		3	

G One firm remarks: "The fact that banks would not discount our business papers interfered basiderably with our business, and caused embarrassment for the time being."

b One firm remarks: "We had orders which we would have filled in ordinary times, but which rejected through fear that the depression might so affect the particular parties in question to result in a loss to us."

SUMMARY OF TABLE F.

			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
				7	= 1	anufacturers reporting no orders ahead, but that banks were willing to render usual discounts and assistance.	# 65
	ł	1		not	that	무급의	Manufacturers reporting that banks refused to render re- quired discounts and assist- ance.
<u> </u>		1	2 1			ween	~ ⊁ ≝
	9	- 6	둓	R .	> 8 ∤	宣유교학	X-2 a
	. K	ă	9	<u> </u>	불하	규칙으립	불용별
	<u>u</u>	닞		긜	돌일	호급호달	돗독물
•	2 1	E I		프 .	74	유수 인명	<u> </u>
	5	9		of workshops closed.	20	20.0	273
INDUSTRY.	2 1	12	윤	声奏	- 4	20.00	223
•	ا ۃ	•	اۃا	고경	2 2	22.23	5 A S
•	4	4	į	5 T	45	48# E	유통의
	•		.		동동	돗교근님	ಕ್ಷ ಕ್ಷರ
•	8	.	6	8	3.5	3 E - 3	ĕ≅₹.
	-2	곂		- <u>e</u>	30	3922	fanufaci banks 1 quired ance.
•		불			9	크로운의	9 2 3 9
	Number who answer yes.	Number who answer no.	Number who do not reply.	Number	Manufacturers reporting orders were canceled	Manufacturers reporting orders ahead, but that ba were willing to render us discounts and assistance.	3~5
Agricultural implements		18	2	6	1 2	1	
Arms and ammunition	1	4	ll	1	2		
Artisans' tools	- 1	6		8		1	1
Boots and shoes	7	58	i i	Ď.	9	4	Ğ
Brick, tile and sewer pipe	1	4	l			Ž	
Brooms and brushes	7125	ĝ		18952			
Building	5	· 45	i	14		6	Q
Burial cases, caskets, coffins, etc	Ĭ	6	ا ا				7
Buttons and draps trimmings				9	i i		i
Buttons and dress trimmings	2	22 13	l'	2 1 18	il		i
Carriages, wagons, etc		83		18	1	2	ŝ
Coment, lime, plaster, etc		8]	-2			
Chamicale soids ato		8		2			
Chemicals, acids, etc		12		i		3	******
Cickling	81	869		1 70	23	SÔ.	11
Clothing	ĭ	20		7			11
Cordage and twine	ī	Š		7			
Cotton goods		19		Ē			
Drugs and medicines				7			
Non-activides	1	į		6 7 9			
Dyckture and conservation		ž					
Misself and aluntwaters and applicated		Ř		5			i
Filectuc apparates and apparates	Q	7		4		2	•
Fancy articles		1		•			
Earthen and stoneware		ាំ		_	••••	••••	
Flags	******	48887119	1	• • • • • •	*****	i	
Food products		07		40	*****	i	1
Food products Furniture Glass and glass goods Hosiery and knit goods Ink, mucilage and paste Ivory, bone, shell, horn goods, etc	•	27 77	8	10	*****	18	i
All and along mode	1 1	is	1	10	i		
Giada and Kiasa Koons		22		2	î î	1	
HORIETY AND KNIL KOULS	• • • • •		•	2		•	
INE, INUCUASE AND PASSO		8	1	.	*****		
TAOLA' DOUG' KURIT' DOLU ROOM' ere		7	9	14			
Laundries		li	I				
Tark a and leather made]····;	89	2	1 8 8		1	
Leather and leather goods			Ī				
Liquors and developes (not spatted day)		8	8	15			
Liquors (spirituous)	8	82	8	10			
Lumber Machines and machinery	. 9	86	16	15	3	10	4
Metals and metallic goods	· 4	107	1 4	17	1 7	2	
Musical instruments and materials	i	ii	1 8	l	l		
Oil and illuminating fluids	I	1 74		6	1		******
Paints colors and crude materials	1	5	i	2		1	
	i	76	1 1	32	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	1 4	9
Paper and paper goods		1 .		1		l ï	
Perfumery Photographs and photographic materials		· 5	1			- -	
			1				
Printing, publishing and bookbinding	Б	28	9	49			5
Railroad construction		18	li	7		1	
Rubber and elastic goods		6	l i	•			
Karbet and enteric knows	******	4		lī			
Salt		1 2		l i			
Scientific instruments		l ī		2	1		
Ship and boat building	1	26	1	3	'''i	1	
Blik and slik goods	1 *	1	1	i			
Sporting goods		1 4		ģ	''''i'		1
Stone, marble, etc		i	i i	6	1		
Tailow candles, soap and grease		44	â	33	1	9	1 6
Tobacco, cigarettes and cigars	' "	- 6	1	3	1]	
Toys and games	1	4				1	
Trunks and valises	1	li		ļ			
Whips		- 18	l'''i'	1 1			1 12
Wooden goods		19	l i	1 4	1	i	
Worsted goods		7	_	•	i		1 412
					.		
Totals	09	1,859	84	470	48	86	, P.
	1		1 5	***	1	1	1 ''4

Source: Ohio Bureau of Labor Statistics, Eighteenth Annual Report. (Columbus: State Printers, 1895).

Short Description: Survey of employment, wages, days in operation, capital, raw materials, and inventories for manufacturing establishments throughout the State in 1892 and 1893.

Noteworthy Attributes: Information on changes in wage rates and on inventories on hand January 1, 1893 and January 1, 1894.

Comments: The Ohio report contains no discussion of these statistics. Albert Rees comments:

The Ohio data are very different in form from those of the other states we have used. The data consist of the number of workers employed, average number of days worked, average daily earnings, and average yearly earnings by occupations within industries, separately for Cincinnati, Cleveland, Columbus, Dayton, Toledo, other cities, and villages. No averages whatever are provided for these many observations for occupations.... The industry definitions of the Ohio data are consistent throughout, though they do not correspond exactly to census definitions. The coverage of the data is very good after 1900 but often low before that time.

^{*} Albert Rees, Real Wages in Manufacturing, 1890-1914. (Princeton: Princeton University Press, 1961: Appendix A, pp. 133-134.

TABLE L

GIVING BY OCCUPATIONS NUMBER EMPLOYED, NUMBER OF DAYS WORKED IN 1892 AND 1893, AVERAGE DAILY WAGES, YEARLY EARNINGS FOR 1893, HOURS OF DAILY LABOR AND CHANGES IN WAGES IN PER CENT. FOR THE YEAR 1893.

TABLE Ig-Cincinnati.

	1	ABLI	e I	a(inci	rnati.				
	Occupations—Mala.	umber employed.		m bei days rked	. !	daily wages.	Yearly earnings, 1898.	daily labor.	Change in per cent i ending L	or year ec.31,
Number.		Number •	185	92. 1	892.	Average daily	Yearly et	Hours of	Advanced.	Reduced.
2.716	Tools. Machine hands	85		000	200	\$1 75	\$350 00 130 00	10 83/4		1
2,516 2,503 321 2,503	Vice hands	i	353333333	300 300 300 300 300 300 300 300 300	250 250 245 250 250 250 250 260 200 200 200 200	2 2 25 1 75 2 25 1 75 2 75 3 05 1 50 1 50	562 50 806 25 437 50 562 50 437 50 187 50 600 00 800 00 300 00 250 00	10 10 10 10 8		10
5 RH3	Brooms, Brushes and Wire Goods					1 35	388 80	9	,	
286 2.143 7.466 1.814 2.466 2.207 2.053 993 1.514 1.019	## mand sectors are no squares	11	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	300 250 812 312 312 200 292 275 312 312	288 215 312 312 312 312 300 235 250 312 312	1 25 1 25 2 50 1 50 1 80 1 80 1 35 2 50 1 50	268 75 889 60 780 90 468 90 561 60 830 90 513 90 337 50 780 00	9 10 10 10 10 9 9		
2,713 2,632 2,796 2,556 2,796 2,711 2,635 1,729 2,711 2,635 2,711 2,635	Ice pullers Ice pullers Wagon men Helpers Tankmen, laborers Stable band House men	001 001 001 000 000 000 000 000 000 000	0	390 270 \$66 366 366 366 366 366 200 500 270	1 300	1 50 1 50 1 77 1 78 1 8 1 5 2 0	825 01 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14 1,206 14	5 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12		15
2,49 (30 2,63 1,75 2,63 1,3 1,3	Hearse mounters		14 5 5 75 12 1 18 2 8 7	300 298 308 298 298 299 299 290 303 303 290	25 27 27 27 27 27 27 27 27 27 27 27 27 27	0 1 1 6 1 1 6 1 1 6 1 1 1 1 1 1 1 1 1 1	53 512 55 505 55 424 95 534 17 1,156 95 534	40 5 08 5 70 8 20 5 92 10 21 10 24 10 00 1	9/2	10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 1000

BUREAU OF LABOR STATISTICS.

TABLE Hd-Toledo.

Monthly average.

November, December.

Beptember. October.

August.

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TABLE 11d-Toledo.

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L. ST.

22

1893, THE VALUE OF MANUFACIURED ARTICLES AND MATERIAIS ON HAND JANUARY 1, 1893, AND JANUARY 1, 1894, WITH THE TABLE V-CHVING BY INDUSTRIES THE NUMBER OF ESTABLISHMENTS RIPORTED, THE VALUE OF GOODS MADE AND MATERIALS USED IN CAPITAL INVESTED.

TABLE Va-Cincinnati.

	. 9							
	eetab gente r il.	Total value of all goods made from Jennary 1.	Value of manufaction on band	Value of manufactured articles on hand—	Total value of all materials used from Janu-	Value of mater	Value of materials on hand-	Capital in-
	No. of Itsha porte	INUAL L	January 1, 1893.	January 1, 1894.	ary 1, 1893, to January 1, 1894.	January 1, 1898.	January 1,1894.	
	•	1	ı		#114 700 CO	_	\$62,875	\$114,000
Awaings, tents and flage	• •	369.851.00	15,237 00	15,882 00	2(16,229 00	00 086,11		175,500
H.K. i. P. Lattan and Willow Ward	~	3	00 0991		20 087.6		20.216	619 618
Billiard tables and bar fixtures						16,831 00	12,505	125,967
Mollet and Callida	28						17.503	270.914 65.934
HORE MILE BEING		200		8,659 00	74.11.6.67	87.09.26 87.09.26	12.004	25.25
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Bread and other bakery products	35			84.699 36	21,815 33		7,434	20718
				136,871	205,159 68	00,527,00 606,555,50	650.00	2519735
Carringer and Walons	\$	200	8	224 6.16 274 6.16	369.265 41		191,388	128.732
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Coffee and spicks,	. 66	27,213	6,926 31	122 4516	618,535 10	00 012'. NB	811,833	957,000
Collins and bullal cases		14 57 58A	27.488 64	26,816		41,576 91	\$1,395	177,840
(:onleg(labet)		914 381		610,59		203,922 13	227,371	005 019 646 446
Copper and Press			142 449 31	149,280	2000 2000 2000 2000 2000 2000 2000 200	28.5 80	71.17	80,130
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Source: New Jersey Bureau of Statistics of Labor and Industries, Seventeenth Annual Report for the Year Ending October 31st 1894. (Trenton, N.J.: MacCrellish and Quigley, Book and Job Printers 1895).

Short Description: Report on 306 co-operative building and loan associations doing business in New Jersey in 1894.

Noteworthy Attributes: Information on assets, shares, debts, and arrearages.

PART VI.

Co-operative Building and Loan Associations of New Jersey.

The data from 306 associations doing business in this State in 1894 have been summarized in the present report, and those from 295 collated in detail in the general tables, Nos. 1 to 4. This is exclusive of two small so-called national concerns calling themselves the Metropolitan Building and Loan Society and Columbia Building, Loan and Investment Company, incorporated in Camden county, in August 1, 1893, and April, 1894, respectively, concerning which no reliable information could be obtained officially. Nor is one foreign association included, the Granite State Provident, of Manchester, N. H., admitted by the Commissioner of Banking and Insurance to do business in this State, having made the required deposit of securities. This is the first outside building and loan association that has complied with the provisions of the act of June 10th, 1890, and thus becomes legally entitled to carry on its transactions in New Jersey. It is a national, and its general yearly report for 1894 is published in the annual report of the Bank Commissioner. Its admission to this State occurred too late to render the required statement to this office, under the legislation of 1890, Chap. 261, which provides for returns from "every mutual loan, homestead and building association organized under the laws of this State or doing business therein."

NEW ASSOCIATIONS.

There were 21 new associations incorporated in New Jersey since the Bureau report of 1893, and of these, as far as known, 13 are in operation, viz.:

(171)

	JERSEY-CLASSIFICATION	
APPENDIX I.	CHARLES 1 BITTINING AND LOAN ASSOCIATIONS OF NEW JERSEY-CLASSIFICATION	

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JERSEY	AND	NUMBER	-	19 and under		ಣ		ಣ	20			Btate
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SUMMARY 3—BUILDING AND ASSOCIATIONS ACCORI				LOCATION.	Atlantic County		Burlington County	Camden County	Glougester City	Cape May County	Cumberland County Bridgeton	£

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NEW JERS F SHARES	ER OF A	100 to 200°	-	*	က	മ⇔≃	2	First III
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SUMMARY S.—BUILDING AND LOAN ASSOCIATIONS AUMBARY TO NUMB		LOCATION.	Atlantic County	ĭ	Bergen County	Kount Holly	Gloucester City	Cape May County

JERBEY - GENERAL NET PROFITS, BTATISTIOS: SHARBS AND SHARBHOLDERS, NET ASSETS, NET PI INDESTEDNESS, RECEIPTS AND DISBURSEMENTS—Continued. NEW ĐĐ. ASBOOTATIONS AND LOAN 8.—BUILDING BUMMARY

-				AMOUNT OF	Derts owing	ž	ARSCCIATIONS.	.XA.		. •	
	TOTAL OUTST	DUTSTANDING	CARII IB B DURING	B RROWRD	CARI	CARIT RETAID	LOANH 1	LOANH UNDELIVERED TO BORROWERF.	UNEA	UNEAHNED PHE- MIUMR.	
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.OCATION.	enoitaionasa tedani.	†.funcama latoT	Suoistions seociations.	Total amount.	Namber sesociations.	.tanoma latoT	Zumber assectiations	.tanoms istoT	Number associations	.tanoma latoT	
A shouth Counts	1			000'1\$	E.	\$11	2	\$1,215		202	
Atlantic County.	; en a		_	NO.		8,7+10 2,640		200			
Raroan County			4	91,664	14	104,350	6	22,651	2	3,425	
Duslington County		34,456	2	43,976	7	34,025	4	3,300	61	4,012	
Burlington Councy	- i			30,200	-	W. 61	7	2,100		1,525	
Camden County	. 83	169,566	12	66;785 61,785	10	57,769 65,248	m #	40,200	£ 7	15,770	
Gloucenter City			-	3,6(8)			ed share	but exclusive	o of net	mouled aharen but exclusive of net worth, unearned	

*City totals included in county totals. | † inclusive of overpayments and amounts owing on cancelled shares, but premiums and uncompleted loans. | † inclusive of amounts paid on borrowings of previous years.

			ă	inv e sta ent	INT OF ABBETS	.119.		
groths	<u></u>	8801	BOND AND MORTGAGE	O 36	88 (3			
LOCATION.*	roces to technical	Total resources (g	JanomA	Per cent. of investments.	Book losns (stock	Real estate.	Cash on hand.	†-stessa тедзО
Beex County	67 \$8,566,871 54 7,001,651	371 \$8,925,825 361 7,390;243	\$8,100,035 0,588,482	16	\$343,412 288,133	\$105.714	\$184.777 170,000	\$186 2%5 168,023
Gloucester County	7 718,581	156,296	696,272	20	13,444	11,485	10,392	24,703
	51 8,182,980 40 5,834,602 3 718,720 2 772,121	42, 980 8, 929, 402 886, 602 718, 720 771, 838 771, 838 771, 838 771, 838 771, 838	8,226,495 6,908,742 731,835 784,406 468,400	8222	134,434 105,286 4 575 10,100	132,004 125,000 2,217 4,713	206,079 146,989 17,413 10,611	230,390 198,684 15,448 9,304 2,440
Hoboken	. Ñ	94	12:10,085	80	6,410		2,510	22,765
	ਾਂ 	57,420 571,200 411,299 142,802	471,823	85 g	24,982 0,510	17,244	29,959 28,420	27, 192 10,631
	17 2,307,364 n 1,445,783 4 191,013	307,364 2,328,767 1,445,783 1,45,354 197,015 381,883	22,139,079 21,798,089 347,700	85 28	89,114 24,673 10,000	6,413	43,637 11,890 14,86:1	53,524 17,462 27,967

- Source: Massachusetts Bureau of Statistics of Labor, Eighteenth Annual Report, December, 1887. Boston: Wright and Potter, State Printers, 1887.
- Short Description: Results of a survey on the incidence and duration of unemployment conducted in connection with the state census of 1885.
- Noteworthy Attributes: Unemployment incidence and duration by gender and age, and by town, gender and occupation. Also information on "other work having been done during the whole or a part of the time unemployed at the principal occupation" [p. 261].

Comments of Commissioners:

[A]bout one-third of the total persons engaged in remunerative labor were unemployed at their principal occupation for about one-third of the working time.

By a purely mathematical calculation based on the elements here presented, the result of this investigation would seem to indicate that all the products of manufactures could have been secured by steady work for 307 working days of 9.04 hours each, if this steady work could have been distributed equally among all the persons engaged in manufactures, while all remunerative work of the State, of whatever kind, if it could have been distributed equally among the entire working population, could have been accomplished in 307 working days averaging 8.99 hours per day. The practical difficulty in reaching such a condition lies entirely in the distribution of time employed to secure equalization in the various industries [p. 294].

THE UNEMPLOYED: FOR THE STATE.

THE STATE, SEX,				ÅG	E PERIO	DS		• •		
AND NUMBER OF MONTHS UNEMPLOYED.	10 to 13	14 to 19	20 to 20	30 to 39	40 to 49	50 to 59	60 to 79	80 and Over	Un- known	ALL
THE STATE, Males, Females,	560 341 219	44,905 26,216 18,689	78,584 51,051 27,533	45.678 06.626 9,052		22,119 20.028 2,091	15,610 14,650 960	388 361 27	20 18 2	241,589 178,628 62,961
ONE MONTH, Males, Females,	41 28 16	3,844 1,816 2,028	7,640 4,474 3,166	4,089 3,149 940	2,251 1,935 316	1,156 1,063 123	511 474 37	12 8 4	1 1 -	19,578 12,948 6,630
Two months, Males, Femules,	91 48 43	8,642 4,469 4,173	17,483 10,488 6,995	9,718 7,469 2,249	6,402 5,390 1,012	3,626 3,215 411	1,785 1,649 136	25 23 2	3 2 1	47,775 32,753 15,022
THREE MONTHS, . Males, Females,	82 49 33	7,009 3,900 3,109	14,642 9,156 5,486	8,599 6.813 1,776	5,062 5,216 846	3,485 3,135 350	1,975 1,836 139	27 27 -	6	41,877 30,138 11,739
Four Montes,	85 53 32	7,417 4,805 2,612	15,000 10,665 4,335	9,431 8,022 1,409	7,157 6,454 703	4.919 4,565 354	3,336 3,169 167	73 67 6	6	47,424 37,806 9,618
Five montes,	37 24 13	2,926 1,827 1,099	4,997 3,528 1,469	3,026 2,574 452	2,490 2,298 192	1,601 1,523 78	1,151 1,098 53	17 17	2 1 1	16,247 12,890 3,357
SIX MONTHS, Males, Females,	114 78 36	8,073 5,244 2,829	11,924 8,310 3,614	7,333 5,927 1,406	6,283 5,460 823	4,692 4,195 497	4,265 3,999 266	128 121 7	1 -	42,813 33,335 9,478
SEVEN MONTHS, . Males, Females,	13 10 3	1,369 806 563	1,775 1,180 595	970 784 186	834 729 105	628 575 53	537 505 32	11 10 1	. 1	6,138 4,600 1,538
EIGHT MONTHS,	18 12 6	1,770 1,108 662	1,853 1,200 653	1,037 805 232	887 743 144	827 738 89	740 697 43	84 32 2	-	7,166 5,335 1,831
NINE MONTHS, . Males, Females,	27 12 15	1,520 914 606	1,357 805 552	673 494 179	642 512 130	520 466 54	566 522 44	15 14 1	1	5,320 3,739 1,581
TEN MONTHS, Males, Females,	22 14 8	1,368 774 594	1,094 697 397	480 325 155	432 853 79	346 296 50	394 368 26	17 16 1		4,153 2,843 1,310
ELEVEN MONTHS, . Males, Females,	27 13 14	912 510 402	628 386 242	229 175 54	193 155 38	150 125 25	128 116 12	9 8 1	 	2,276 1,488 788
Twelve montes, . Males, Females,	-	55 43 12	191 162 29	103 89 14	92 92 -	139 132 7	222 217 5	20 18 2	-	822 753 69

From the table giving the unemployed for the State, we draw three tables of percentages, showing the distribution of the unemployed first by sex, second by number of months unemployed, and third by age periods. The first percentage table showing the distribution of the unemployed by sex, as regards age periods and number of months unemployed, follows:

Source: Rhode Island Commissioner of Industrial Statistics, Ninth Annual Report, 1896. (Providence: E. L. Freeman and Sons, State Printers, 1897).

Short Description: Report on strike activity in Rhode Island between 1886 and 1894.

Noteworthy Attributes: Information on the cause, duration and outcomes of all strikes in the state between 1886 and 1894.

			r organ-	Esti liabo invol	14		Strikers re- ployed or p filled by oth	2006
OCCUPATION.	Locality.	Canse or Object.	Ordered by labo	Closed.	Not closed.	Begienlug-	Date.	Days to date.
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- Source: New Jersey Bureau of Statistics of Labor and Industries, <u>Twenty-sixth Annual Report, 1903</u>. (Somerville: The Unionist-Gazette Printing House, 1904).
- Short Description: Report on "The Negro in Manufacturing and Mechanical Industries" in New Jersey in 1903.
- Noteworthy Attributes: Survey of all the largest manufacturing establishments in the state. Published results for those employing black workmen include kind of skilled work done and whether equal wages are paid to negroes for the same work.

Comments of Commissioners:

[W]ill the managers of great industrial enterprises receive them into their shops and will the white mechanics who must always be greatly in the majority, consent to work with them; until that is settled in a manner favorable to the negro, industrial education will only fill his mind with delusive hopes which cannot be realized and make him discontented with the occupations he now follows, and in the pursuit of which he meets with little or no opposition on the part of the whites.

That this aversion to the negro and disinclination to collaborate with him exists among the whites there is no doubt, but there is also good reason to hope that as this dislike was based on the characteristics of the negro as he came fresh from chattel slavery, with but few human attributes beyond the form and speech of a man, it will weaken and finally disappear before a race transformed and humanized by the influence of education and the pursuit of industry [p. 165].

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APPENDIX D SAMPLE PAGES FROM STATE BUREAU OF LABOR STATISTIC TIME SERIES

TIME SERIES

Source: Massachusetts Bureau of Statistics, <u>Annual Statistics of Manufactures</u>, <u>Ninth Report</u>, 1894. (Boston: Wright and Potter Printing, State Printers, 1895).

Short Description: Report on the condition of manufactures, by industry, including number of establishments, average number of wage earners, total wages, classified weekly wages, and days in operation.

Noteworthy Attributes: Consistent information is provided annually from 1890 through 1920.

A Description of the Annual Series by Albert Rees:

Beginning in 1908, the industry classification used is identical with that of the census. The data for 1909 and 1914 are identical with the census data, but provide, in addition, the number of days in operation. There are no omissions of industries or employees.

Before 1908 the industry classification is not identical with that of the census but is rather similar, and there were a few difficulties in combining series into census industries. The coverage of census employment is not complete, but is generally very high. Through 1905, two sets of data are provided for each year, one covering the same establishments included in the preceding year, one covering the establishments included in the following year.

^{*} Albert Rees, Real Wages in Manufacturing, 1890-1914. (Princeton: Princeton University Press, 1961: Appendix A, pp. 131-132.

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