VOLUME IV.

Adjutant General, Biennial Report, 1918.

Public Property, Biennial Report, 1918.

Highway Commission, Annual Reports, 1917 and 1918.

Oil Inspection, Biennial Report, 1918.

Land Office, Biennial Report, Secretary of State, 1918.

VOLUME V.

Document Department, Biennial Report, 1918.

Parole Board, Biennial Report, 1918.

Railroad Commission, Annual Reports, 1917 and 1918.

Railroad Assessments, Annual Reports, 1917 and 1918.

Fish and Game Department, Biennial Report, 1918.

Dental Examiners, Biennial Report, 1918.

Boat Inspector's Report, 1918.

R328.7774 Iogd 1919

State of Ioma 1918

REPORT OF THE

BUREAU OF LABOR STATISTICS

FOR THE

Biennial Period Ending June 30, 1918

A. L. URICK, Commissioner

27-12

Published by THE STATE OF IOWA Des Moines

23094

BUREAU OF LABOR STATISTICS ADMINISTRATION

A. L. Urick	Commissione
ALFRED SHEPHERD.	Deputy Commissioner
H. H. Bye	Factory Inspects
J. D. SEAMAN	Factory Inspector
ELLEN M. ROURKE	Factory Inspector
JOHN E. NORDSKOG.	Statisticia
May Douglas	
J. C. Nietzel, succeeded by	
GEO. B. ALBERT	Free Employment Clerk
SARA MARCUS, MINNIE L. TRUAN an	d Leslie H. Needham
Temporar	ry Clerks for part of the period

LETTER OF TRANSMITTAL.

HON. W. L. HARDING, Governor.

Sir.—In compliance with Section 2470, Chapter 8, Title XII, Supplemental Supplement to the Code 1915, I have the honor herewith to transmit to you the Eighteenth Biennial Report of this department.

Very respectfully,

A. L. URICK, Commissioner.

Des Moines, September 30, 1918.

BUREAU OF LABOR STATISTICS

The Eighteenth Biennial Report of the Bureau of Labor Statistics is submitted with the purpose, as contemplated by law, of informing the citizens of the state and United States, and foreign countries as well, of prevailing industrial conditions and the progress the state has made in the last two years. The law governing this department, and Section 2470 of the Code in particular, which summarizes its duties and the subjects to be reported on, are so vastly comprehensive that no single report can hope to meet all demands, but as heretofore, the aim is to give as fully as possible such information as shall tend to increase production, and consequent employment of producers; to report the business of the bureau during this biennial period, and give such information as may be considered of value to the industrial interests of the state, also the number of laborers and mechanics employed and their economic status.

The unusual conditions resulting from the war compelled the abandonment of several special investigations contemplated and which had been partially arranged, so that in the present report there is no special investigation on employment conditions of women and children, such as the investigation of department and other retail stores and hotels and restaurants included in the Sixteenth Biennial Report; and of the telephone exchanges, also of laundries, as included in the Seventeenth Biennial Report. A special investigation was made, however, similar to that of two years ago, by the woman factory inspector, of children having work permits, and the statistics on child labor includes detailed information on the findings of such investigation.

STATISTICS OF MANUFACTURES.

The manufactures statistics are more complete and comprehensive than in previous reports. The present form of these statistics was adopted for the Sixteenth Biennial, the returns for the first year being from 1,325 factories; the confidence of the manufacturers in this form of statistics has grown in the meantime, and the second returns as given in the Seventeenth Biennial were from 2,904 factories, and we now offer returns from 3,280 establishments, which shows a wholesome increase; in fact, when taken

into consideration that under the statutes governing this bureau firms not employing one or more persons are excluded, the completeness of report becomes evident.

At each compilation we find that a large number of firms have gone out of business; there are of course new firms which enter into the work; both of these reasons account for material changes in various classifications, aside from the fact that returns are more complete. In addition to the former tabulations and analyses, we have given a comparison of the manufacturing production of each industry for the last two biennial periods, also a similar comparison of the value of manufacturing production for each county, which will be useful to show where there has been a marked increase in returns from the manufacturers and the effect in data compiled.

The manufactures statistics show a gratifying increase in capital invested, value of stocks and materials used, value of products, number of wage earners both male and female, and for the last three biennial periods show a steady increase in average yearly earnings: The average for 1913 was \$577.00, and for 1915, \$651.37, in increase of \$74.37; in 1917 the average yearly earnings were \$785.22, which makes an increase of \$133.85 over the 1915 average.

Another interesting fact to be mentioned is concerning child labor in factories. In 1913, with returns from only 1,325 establishments, there were 664 children employed; in 1915, for 2,904 establishments (more than double the former returns), there were only 400 children; in 1917, for the 3,280 establishments, there were 569 children employed. The marked change from 1913 to 1915 is no doubt caused by the new child labor law which went into effect July 1, 1915; the increase for the last period is undoubtedly caused by labor conditions due to the war. The policy of maintaining normal conditions regarding child labor, in spite of the effort to suspend the child labor law during the period of the war, has resulted in checking a great increase in child labor. The above figures apply to factories only.

FACTORY INSPECTION.

One of the most important duties of the Bureau of Labor Statistics is the factory inspection work. The tabulations given on this work show the number of inspections made and recommendations made for each industry, this work being done by a small force consisting of the deputy commissioner, two men inspectors

and one woman inspector. It is impossible to meet the requirements of the state in that line of work with only four inspectors, but earnest work has had a telling effect, as shown by the following:

For the biennial period ending December 31, 1913, there were 3,361 inspections and 5,540 separate recommendations;

For the bienial period ending December 31, 1915, there were 4,434 inspections, with 5,814 recommendations;

And for the two and one-half years up to July 1, 1918, for 5,175 inspections there were only 3,193 recommendations, showing that the conditions of factories are becoming more safe and fewer corrections necessary. The managers of establishments in general are also co-operating heartily with the department in making their work shops more safe and sanitary.

The effect of factory inspection is also reflected in the number of accidents which are reported to this department. The aim is to minimize accidents. The number of injuries is apparently decreasing, although the appended figures should not be taken as definite proof because of change in law relating to reports. The following shows condition: Calendar year January 1, 1916, to December 31, 1916, 19,768 accidents were reported; calendar year January 1, 1917, to December 31, 1917, 18,277 accidents were reported; for the six months of January 1, 1918, to June 30, 1918, 5,325 accidents were reported. For fiscal year July 1, 1916, to June 30, 1917, 21,676 accidents were reported, and for fiscal year July 1, 1917, to June 30, 1918, 13,743 accidents were reported. This difference is in large part due to the fact that since July 1, 1917, accidents need not be reported unless injury causes more than one day's loss of time.

CHILD LABOR.

The tabulations on child labor are similar to those of the previous report (Seventeenth Biennial) so that a fair comparison can be made with the facts brought out at that time. The present child labor law went into effect July 4, 1915, and 1,522 work permits were received by this office up to July 1, 1916, which formed the material for our child labor statistics given in the Seventeenth Biennial Report. The statistics offered herewith are based on 4,893 permits received during the two-year period ending July 1, 1918, and with so much more material to work with, the information given is more comprehensive and valuable in a study of

Iowa child life. Besides several minor changes in tabulation, a small additional table is given showing the number of children engaged in the street trades. There are only eighteen cities in Iowa with a population exceeding 10,000 and therefore governed by the street trade law; only thirteen of these cities reported the number so engaged, as follows: In 1916, there were 2,250 boys working in the street trades, and in 1917, 3,204 boys. (Girls under 18 years of age are not permitted in street trades, and boys between 11 and 16 years must have proper badges.) The figures for 1916 are not as complete as for 1917, as the table plainly shows, and therefore no evidence of any material increase during the period.

Following the statistics on work permits, is the special investigation report covering twenty-two cities of various sizes, in which our woman factory inspector had personal interviews with 375 boys and 275 girls between the ages of 14 and 16. All information is tabulated along the same line adopted two years ago.

WAGES OF FARM LABOR.

As in our Sixteenth and Seventeenth Biennial Reports, a table showing the comparative wages paid farm hands, for summer and winter months, for a period covering the eight years, 1910 to 1918, is included herewith. The monthly average for 1910 was \$28.15 for summer months and \$21.13 for winter months. Reference to the table will show that each year has brought an increase, but the greatest increase is from the year 1916 (summer months \$33.30 and winter months \$25.26) to the total averages given for 1917 (summer months \$38.95 and winter months \$31.55).

LABOR ORGANIZATIONS

The labor organizations of the state show a steady increase for the biennial period in both locals and membership, and a marked increase in wage scales. Each table is more complete than previous ones because the organizations themselves have co-operated more heartily with the department. The tables are self-explanatory and we refer to them for information as to number of local unions, membership, wages, etc. In addition to such tabulations, there is a concise summary of labor legislation urged by the local bodies, which indicates what labor legislation is needed, in the opinion of organized labor, to bring about the conditions necessary to meet the ideals and standards of the various trades.

ARBITRATION AND CONCILIATION.

The arbitration and conciliation act of this state went into effect July 1, 1915, and up to the time of former report only two cases had been arbitrated. In the present report we include three additional cases, relating the findings of the arbitration boards in disagreements of street railway employes of Dubuque, another of the molders' union of Waterloo, and the third of the building trades of Des Moines.

The law provides mainly for compulsory investigation, which undoubtedly has been responsible in averting many labor controversies since it first went into effect. Enforcement of the decison rendered by the board is not compulsory except where both parties have agreed to abide by the decision, in which case the decision is binding for one year.

STATE FREE EMPLOYMENT BUREAU.

The law creating The State Free Employment Bureau went into effect July 4, 1915. There had been for many years past a great need for such a department, and when finally created its services were availed of by a rapidly increasing number. It is natural that applications from farmers and farm help would predominate, with the largest percentage of Iowa's population engaged in agriculture. With the co-operation of a number of the county agents, the department was able to relieve some very trying situations for both the farmers and farm hands.

The plan originally adopted was to issue a bulletin once each month or oftener if needed, listing applications from employers and from those wanting work. These bulletins were mailed to postoffices, to banks and stores in farming communities, city clerks and county auditors, and also to some of our principal manufacturers. For a time these bulletins served the purpose of advertising the bureau, keeping its literature before the public in conspicuous places so that the confidence of the public was won. During 1917 the bulletin plan was dropped and more effective methods introduced.

When in September, 1917, it was arranged with the United States government that a federal agent should co-operate with the state office, the work of the department grew by leaps and bounds. The one "State-Federal Employment Bureau" at Des Moines found it impossible to meet the urgent demands of the state, and to make the distribution of labor more effective during these grave

war times, other State-Federal Employment Bureaus have been added as needed until Iowa at the present time has twelve bureaus located in eleven cities reaching all parts of the state.

ADMINISTRATION AND NEEDS-RECOMMENDATIONS.

The Bureau of Labor Statistics was created in 1884. Its functions were purely statistical. The range for the gathering of these statistics was made quite comprehensive, and the power was granted the commissioner for issuing of subpoenas, to administer oaths and take testimony in all matters relating to the duties assigned, but if the commissioner was denied admission to any place where labor was employed he had no authority to enter the establishment, and if admitted could not enforce the remedying of any condition of labor whether of safety, sanitation, environment or any other. He could publish his findings in a biennial report and there his powers ended. It was not until twelve years later (1896) that the commissioner was definitely granted the right of entry into any establishment coming within the scope of the law for investigation of labor conditions. In 1894, ten years after the creation of the bureau, a deputy was added to the working force, and twenty years later (1904) a clerk was added and also a factory inspector, this session adding the enforcement of a fire escape law to the duties of the bureau, while the previous general assembly (1902) had enacted a factory inspection law providing for what were in those days considered quite progressive features in the interest of safety, health and protection of employes. In 1909 an additional inspector was added, and in 1913 a woman factory inspector was provided for, and also an additional clerk for the department.

The bureau is one of the oldest departments of the state over which presides an appointive officer, and considering the vast scope of usefulness to which it should be put in the interest of both industry and the thousands of producing wage-earners, it should be one of the most important. Its range of possibilities for good is unlimited. Unfortunately, provisions have not been adequate heretofore for the bureau to keep in step with the natural progress demanded by expanding industry and commonly accepted standards necessary to the promotion of the safety, health and welfare of the employes, now more than one-half million in number, so generously included under the protective anticipations of Section 2470 of the Code.

"Protective anticipations" is rather a peculiar term for a report of this kind, but no one can read the above section without dreaming of the millenium on earth subject to rude awakening when the laws both as to provisions of and means of practical enforcement are studied.

The child labor law and that relating to fire escapes alone stand out as modern and efficient from a heap of inadequacy, if the commonwealth really meant what it indicated way back in 1884 and has since permitted to stand on the statute books, i. e., investigation of all conditions of industry and of labor, with a view of the fullest protection to both as a means toward the greatest possible progress for our commonwealth.

FACTORY INSPECTION LAWS.

The laws relating to factory inspection are antequated and should be entirely rewritten to make them more definite, and if this is done provision should be made for more practical inclusion of elevator inspection, which under the law as it now stands includes guards and ordinary safety devices, and these only because a court somewhere and sometime held an elevator to be a dangerous machine. If a court should be found with a different view, the inspection department would be helpless, and the hazard to life and limb would go on without restraint except perhaps for the fear of coming in contact with the workmen's compensation law.

Boiler Inspection. Two years ago attention was called to the wholly inadequate safety provisions relating to boilers except those of locomotives and which come under federal statutes. The only inspection is that made by casualty insurance companies, and a boiler not inspected by them or rejected by them as a too hazardous risk may be used indefinitely at the option of the owner and at the jeopardy of employes and citizens adjacent.

The factory inspectors under Section 5026 of the Code of 1897 can demand good and sufficient steam and water gauges and safety valves and there ends authority. Practically all other states are making some provision to guard against the great hazards incident to defective boilers. Some states assume full charge of inspection, while some require insurance companies to file a duplicate report of all inspections with the state inspection department, such department having authority to enforce conditions of safety in cases of boilers rejected, and to make inspections

of all such for which no insurance is asked. Which ever plan is followed makes necessary some minimum fixed standard and this should be provided by the state as the institution most interested in the life, limb and welfare of its people.

The matter of standards of safety leads to another important subject in boiler hazard, that of construction. State after state is fixing standards conforming to code as drafted by the American Society of Mechanical Engineers for the American Uniform Boiler Law Society, the latter composed of the leading boiler manufacturers, who were confronted with the need of some uniform construction code. So long as standards vary between states there is never any assurance of a boiler meeting the requirements of one state not being rejected in another.

As progress is being made in the matter of standardizing boiler construction by other states, Iowa stands in a peculiar condition. Not having any standard of safety whatsoever, Iowa is almost certain to become the dumping ground for all manufacturers of boilers rejected in other states. Both a fixed standard and certain provisions for inspection of boilers, and also a code for installation are highly essential if our state is to do its duty to all concerned.

Lighting. Modern shop engineering places great stress on proper shop lighting. No other agency is more conducive to accident than poor light in factory, work shop or other place of employment. Many of the establishments of Iowa are housed in other than buildings constructed upon modern plans, with the result of miserable lighting facilities, endangering life and limb and ruinous to eyesight, the latter in turn productive of greater accident hazard. Provision should be made to provide an abundance of light, based upon approved modern lighting principles.

Ventilation and Sanitation. The factory laws of Iowa are wholly silent upon ventilation and sanitation except with relation to toilets and providing for dust-carrying devices where emery wheels or tumbling barrels are in use, and also for pipes to carry off deleterious gasses and fumes from molten metal or other materials giving off such substances. Not even a study of the law is necessary to determine its inadequacy in the light of accepted principles of ventilation and sanitation. Unquestioned investigation and conclusions by sanitary experts and physicians has made definite the need of pure and sufficient air and good sanitary conditions and environments not only for the protection of the

health of employes and as a means of minimizing accident hazard, but as a safeguard to the public in its health and economic welfare. Efficiency engineers and economists, as well as progressive managers, are convinced that good and sufficient ventilation and sanitation are an enormous economy in production because they mean fitter, more alert and careful workers, less subject to accident, more productive and more contented. The state spends thousands of dollars annually in educating men and women to cure disease and to care for the sufferers, much of it occupational in its origin and much of which could be prevented by good and sufficient law regulating ventilation and sanitation in places of emplayment.

Building Code and Inspection. A bill providing for a code of safety in building construction and repair was passed by the Senate of both the Thirty-sixth and Thirty-seventh General Assemblies and in each case defeated in the House during the closing days of the sessions. Twenty or more of our sister commonwealths have had laws for a term of years similar to those defeated, and these are working highly satisfactory. The building laborer and mechanic wants the protection of safety, while the responsible builder and contractor is financially benefited by such a law in that he must now furnish adequate protection to his workmen to protect himself in case of carrying his own casualty insurance or else as a means of a lesser hazard rate of insurance, while being compelled in too many instances to come in competition with the irresponsible contractor who neither carries casualty insurance nor stands to suffer material loss because of injury to employes, but who stands for greater profit when getting by without injury to workmen. Under the compensation law as it now stands, as also under the common law, the injured workman of the uninsured and irresponsible contractor has no recourse whatever, and he should at least be protected by the state in compelling a reasonable place of work.

With relation to buildings already constructed, calls are frequent from both public officials and individuals interested for the inspection of buildings considered a hazard to life, limb or property. While the factory inspector is given power to order guards and safety devices for certain dangerous machines; provide for fire escapes and signs indicating same as a means of exit; order dust and gas-carrying pipes to prevent injury to the health of the worker; in some employments demand clothes lockers, washing

facilities and dressing rooms—yet the building in which the work is done may be ready to tumble down and there is no state authority to compel any one to make it safe, except that the statutes provide under general powers granted cities and towns for condemnation, an authority which is seldom if ever exercised because of local political influences, and in some of the smaller places from lack of experts to make the proper investigation. In this day and age human life is too valuable, and crippled men and women too great an economic and social loss to permit an unsafe building any more than an unsafe machine as a hazard to life and limb. The law assumes a safe place of work, and provides for inspection of machinery as an extra precaution against hazard of the unsafe machine: then why not apply the same precaution in the case of the unsafe building which stands as a catastrophy hazard.

Section 4999-al should be made consistent. As the section now stands its provisions relating to washing facilities, clothes lockers, and dressing rooms apply to factories, mercantile establishments, mills and work shops, thus covering practically all industrial establishments, and these facilities must be furnished separate for the sexes. But when it comes to water closets and privies, the matter of sex privacy is entirely ignored for all mercantile establishments, the section applying to "manufacturing establishments, work shops and hotels," a language which can in no possible manner be construed to include the mercantile establishment. Laws of this nature can have only one object—that of protection to sex proprieties and of morals. It is therefore beyond conception why this protection is necessary in the factory and not in the store where equally great numbers of opposite sex are employed.

Direct attention is called to the several phases of our laws relating to safety to show the need of amendment in some cases and wholly new legislation in others. The need of a change in many particulars is evident, and this may be effected as above indicated, or by the plan as now generally held to be the more satisfactory to all interests concerned; more scientific in its relation to ever and rapid changes in machinery and conditions of work; in fact, productive of better results in factory inspection with less criticism than any law seeking to specify all possible details has ever effected.

Modern Method. Under this plan authority is given to the department having supervision of industrial conditions in addition to the right to investigate, the power to ascertain, declare and prescribe what safety devices, safeguards, or other means or methods of protection are best adapted to render the employes of every employment and place of employment and frequenters of every place of employment safe, and to adopt reasonable and proper rules and regulations relative to the exercise of its powers and authority and the mode and manner of conducting investigations and hearings. The plan is, with the co-operation of employers and employes to work out codes of safety in all lines of industry, and which will become effective after due hearings and publication. By this means the experience of the worker, the knowledge of the employer and the critical ability of the expert can all be molded into constructive methods for safety, health and welfare, and upon the most concise and economic plan. These by their knowledge, experience and expert skill can give attention to close detail impossible upon the part of a legislature with its multiplicity of problems, and which at best in questions of standards can only be general in their treatment.

In several states where this method of adopting codes by a commission, department or bureau was attacked in court upon the ground of right of a legislature to delegate law-making authority, the statutes were affirmed as being constitutional.

OTHER CHANGES.

Child Labor. Attention is called to the provision of Section 2477-d which provides that the child to be permitted to work when between the age of 14 and 16 years must have an education equal to six yearly grades. This is a magnificent provision for the period when school is in session, and materially strengthens the compulsory school attendance law, but it fixes, during the school vacation period, a discrimination between children who may be equally developed in every other particular for work. The clause was undoubtedly intended to induce school attendance until the attainment of a given school grade, but if the child above 14 years is held capable under the law to perform labor during the school term when he has a sixth grade education, then there can be reason to question the sufficient development of the child by standard of school grade alone for work during the vacation period when there is no opportunity of acquiring the standard school grade. If this change is made, work permits issued to the under-grade child should be plainly designated "Vacation Period Only" and should not be honored during the school term.

There is also the sub-normal child with the type of mind that can never attain the sixth grade set by law. Fortunately we have very few of these, but they exist, and provision should be made for them for some class of work, for after they have reached their limit in education, to leave them idle will work to their harm and to keep them in school can do neither them nor the school as now constituted any good. When otherwise fitted they should be issued work permits, although the utmost precaution should be exercised to guard against abuse. Superintendents of schools should in these cases be authorized to use their judgment in matter of issue of work permit, subject to review by the commissioner of labor who is primarily the officer to enforce the child labor law, This review would stand as a protection against a too wide latitude in discretion, especially in cases of unruly or otherwise objectionable pupils, who might in some cases be issued permits as subnormals as a means of riddance.

Private Employment Bureaus. In both the Sixteenth and Seventeenth Biennial Reports attention was called to Section 2477-K, Supplement to the Code, in relation to regulative features of the private or fee employment bureau. This section makes it the duty of the commissioner of labor to investigate all complaints made against any office, and is given authority to examine at any time the records, books, and any papers relating in any way to the conduct of any employment agency or bureau within the state. The theory of this section is splendid, but unfortunately no such agency or bureau is required to keep any record or books, or even to preserve any papers or correspondence. Considering the nature of the business, the often times almost helpless class of people coming in contact, the difficulty of these in making formal complaint and the inadequacy of the law must become apparent.

Then again under the provisions of Section 700, Supplement to the Code, 1913, cities and towns are given the power to license and regulate these offices. Some of the cities take advantage of this provision by adopting ordinarces to license and regulate, in which the greater activity is usually manifest in the collection of license, while other cities fail to take advantage of their right, thus giving an advantage to the agency or bureau of one part of the state against those of another. If the system of license and regulation is to be continued, then the state should assume full power and supervision and the keeping of uniform records should be made compulsory.

In the light of experience, however, the better plan would be to prohibit all fee employment bureaus or agencies. The many abuses charged against these offices have brought all of them under heavy suspicion and into disrepute, but not to consider the truth or falsity of any of these charges, there is one general charge against even the best regulated that should lead to their prohibition-that charge is that "they are against public policy." The greatest evil of industry, whether applied to employer or worker is the "labor turnover." To the employer it means wasted power, energy, expense of breaking in new men, in fact, general economic loss; to the worker it means wage loss, discouragement, and too often aimless drifting and general shiftlessness. The evils from an endless chain of this need not be here enumerated. They are too apparent. And the private employment office stands as the one beneficiary of the evil. They profit by every "labor turnover" and profiting financially, it is only human nature to encourage. The charge made against them of having "three men for one job; one upon the job, one going to the job; and one coming from the job, and receiving compensation from all," is too true.

Public policy is deeply concerned in steadying employment, fitting men for work, to prevent labor turnover, and every effort in this line is thwarted so long as the private employment office is permitted to continue. It is not even true anymore that it serves any useful purpose. Both the state and federal government are doing the work effectively, efficiently and honestly because of the discovery of public interest and public policy in the employment problem.

Housing of Workers. There is no phase of the problem of employment in its relation to efficiency of the workers more important than that of proper housing; this not only in its effect upon the present worker, but in a far greater degree upon the child that will become the future worker. Successful employers are spending great sums of money in providing sanitary and safe places of work, providing good ventilation, good light, good drinking water, modern washing facilities including hot and cold water and even shower baths and dressing rooms, equipping rest rooms, reading rooms, providing lectures and even music rooms. The motive of this is not wholly philanthropic, but philanthropy mixed with a well thought out plan that pays in the making of more efficient and contented workers. If it pays to do this during the time of actual work which occupies about one-third of the time

of the worker, then is not society, as represented in the commonwealth, gravely concerned in the home under the environments of which so much more of the time of the worker is or should be spent. But there is a still greater concern—the mothers who are to bring into the world feture workers. Surely their health, strength, content and happiness must be considered, if not for themselves, then in its relation to the children who must do the work of the future. Dark, foul-smelling, ill-ventilated and generally unsanitary homes and environment do not as a rule prove accessory to vigorous, happy and contended motherhood, nor do they tend to the fullest opportunity for development of the child.

The commonwealth of Iowa, with a per capita wealth greater than any of her sisters, with unusual natural resources, with no great congested population centers, in fact a comparatively small but well-distributed population to area, should not be content until every human habitation in her borders is made fit for a healthy home of self-respecting human beings, and the state should go farther—encouragement, help and protection should be extended to every worthy and willing head of a family to acquire a home worthy the name. When this is done, and no improvement found, the carping critic of listless, weak, irresponsible, shiftless, inefficient working men and women will receive more support, and be in better standing, for it will then be definitely proven that "the home is not the backbone of the nation;" that light, sun, air, cleanliness and decency have no part in the development of mankind for greater efficiency.

Personnel and Salary. The census of 1895 shows 29,532 employes in the manufacturing plants of the state. These figures are for the same year in which the general assembly added a deputy commissioner to the Bureau of Labor. Definite rights of factory inspection had just been accorded and provisions for means of escape from buildings in case of fire. For 1905 the census shows 49,482 factory workers and there was added to the bureau a clerk and a factory inspector. For 1909 the United States census shows 61,635 as the average number of factory employes, and another inspector was added. The session of 1913 designated that a woman should be added to the force, assigning in addition to regular inspection duties special attention to conditions under which women and children work. Another clerk was also added to the force. The wage earners reported by manufacturers for 1917 are 97.607.

This remarkable growth in factory employment is in no way indicative of the increase of demands on the personnel of the bureau. The factory has not only grown in importance but machinery has been developed during the past ten years as never before, requiring closer attention and greater inspection knowledge. Compensation laws have brought in their train an urgent and emphatic demand for safety in employment. The slogan now is accidents must be prevented instead of paid for. While but a few years ago the coming of the factory inspector was resented, the criticism is more frequent now that he does not come often enough. His coming in daily contact with all classes of machinery under all possible conditions makes him valuable in solving accident hazards. The manager, superintendent or foreman becomes in part automatic about machinery and place of work and often overlooks imminent accident hazard. One instance in point: A manufacturer of the state who is given credit as a safety crank with especial hobby on set screws, upon arrival of the factory inspector said he would be willing to pay ten dollars for each exposed set screw found. Within five minutes two were found in places of considerable danger, and upon his attention being called to them, he threw up his hands and with emphasis declared that he had passed by them many times each day and had never noticed them. They had been put there by some foreman for temporary use and then forgotten, left standing as a menace to life and limb and also possible loss to the firm.

The growth of factories is equalled in development by other classes of establishments included among the activities of the bureau. The fire escape law applies to all buildings three or more stories in height, and all school houses of two or more stories; it includes exits and means of exit from all theaters, picture shows and places of amusement; the enforcement of child labor laws, supervision of private employment agencies, in fact, the activities of the state relating to safety and welfare of approximately one-half million wage earners in their places of employment are placed under the Bureau of Labor.

This work can not be done with two men and one woman as an inspection force, even though because of the inadequate force, the deputy commissioner has been doing such work more than two-thirds of the time. What is true of the inspection force is true of the office force. There are now over 80,000 accident reports in the office which have never been analyzed as to time, case, effect

20

or any of the numerous details so valuable in accident prevention and compensation. These are carefully filed, indexed and anproximately 60,000 ready for tabulation, but this can not be done by two clerks who at the same time must compile the material for biennial report and take care of an outgoing mail approximating 30,000 first-class pieces per year.

Increase of Force. The inspection force should be increased to four men and two women. These should be given salaries based upon present day standards. Qualifications for service and increased cost of living should be taken as a basis. For efficient service and as an incentive for promotion the salaries should be graded. For a beginner the present salary of \$1,200 per annum is good providing that after six months' test of fitness the amount is raised to \$1,500 and after one year's service to \$1,800. No man of qualifications for factory inspector, who has served a year's apprenticeship and has made good should be asked by the wealthy state of Iowa to work for less than \$1,800 per annum. The deputy commissioner should be increased to at least \$2,400 per annum.

The office force should, if the bureau is to be made of real value to the industrial enterprise, and to the wage earners of Iowa, consist of a statistician with a salary of not less than \$1,500 per year, a clerk at \$1,200 and a stenographer in addition.

EXPENSE OF BUREAU OF LABOR STATISTICS.

The following is the expense complete of the Bureau of Labor Statistics for the biennial period, July 1, 1916, to July 1, 1918;

Salaries: Commissioner, \$1,800 per annum. Deputy commissioner, \$1,800 per annum. Three factory inspectors, \$1,200 per annum. Clerical help Extra help (provided by retranshment and reform Chief clerk of the State Free Employment Bureau, at \$1,200 per annum. Total salaries for the beenial period. Travelling and hotel expenses for blennial period.	7,200,00 4,075.01 200,00 2,369.30	\$20,544.21
Supplies and postage: 49.15 Paper		
Total for supplies and postage for biennial period	917.89 51.27 137.21 113.29	10,875.91
Grand total of salaries and expense for bienial	perlod	.\$31,420,22

The above includes the expense of the State Free Employment Bureau, itemized as follows:

Furniture and stores. Telephone and telegraph. Printing Miscellaneous expenses	290.74
Supplies and postage: Office supplies Postage and stamped envelopes	\$ 26.17
Total for office supplies and postage	315.75
Total expense of the State Free Employment Bure	au \$729.54

STATISTICS OF MANUFACTURES, 1917.

Iowa ranks twenty-fourth in area among the states of the Union and in 1910 ranked fifteenth in population with 2,224,771. According to the state census, on January 1, 1915, this population had increased to 2,358, 066 of whom 1,277,950, or 58.44 per cent, were resident in cities and towns, the urban population for the first time showing an excess over the rural population. Of those engaged in gainful occupations, 41.5 per cent of all males above 14 years of age, and 36.3 per cent of all persons above the age of 14, were found in agriculture pursuits, indicating that the predominating industry of the state remained agricultural. This because of the extraordinary per cent of tillable land, its wonderful fertility and ideal climatic conditions for agricultural pursuits combined with transportation facilities exceeded by no other state. The great production of food and raw material from the land, of hogs and cattle, large coal and clay deposits, and its railway mileage is gradually increasing the importance of the state in another activity-that of manufactures.

In the gathering of these statistics the same plan was followed as for the Sixteenth and Seventeenth Biennial Reports of this bureau. The general tables are along identical lines except that the statistics are more complete and therefore more representative of true conditions. It should be kept in mind that this bureau cannot compel any establishment to report unless they employ one or more persons as a wage earner for either part or all of the year, while the United States census includes all establishments with an output of \$500 or more, which many times includes some side line of manufacture run in connection with some other industry.

STATISTICS OF MANUFACTURES

23

This will explain in part the disparity in number of establishments between those herein enumerated and the United States statistics of manufactures.

Further, there is still some reticence on the part of some manufacturers to make report to this bureau, fearing that these might be used in a way to disclose the private business affairs of their concern. With each recurring report, this fear is becoming less in the light of experience. There also appears a growing realization of the importance of setting forth to the world what our commonwealth is doing in the line of converting our wonderful production of raw materials into manufactured products for the benefit of mankind, and that it is the duty of every one to co-operate in supplying data requested.

The gathering of the statistics for the Fifteenth Biennial Report (1913) showed a great number of small and medium-sized plants doing business without any system of bookkeeping from which reports could be made with any degree of accuracy, while the larger concerns had no difficulty in this line. A great change in this particular is noticeable, both in number of reports, in promptness and in accuracy.

COMPARISON OF REPORTS.

For the purpose of comparison, the number of establishments, value of products, average wage earners and total wages paid as reported by the United States census for 1914, the report of this bureau for 1915, and of this report are taken and which show an unprecedented growth in the manufacturing industries of the state as follows:

	Establishments reporting	Value of Products	Аунгаде и адечаатнега	Total wages paid
1914 U. S. Census	5,614	\$310,749,974	63,113	\$39,860,000
1915 State Bureau of Labor	2,964	274,794,443	38,765	38,278,330
1917 State Bureau of Labor	3,280	462,819,446	71,896	56,411,349

In all analytic and general tables, capital invested, value of stock and materials used, and value of products of car repairs and construction by railroad shops are excluded because of claimed inability of these concerns to make separate reports for the state,

SIZE OF ESTABLISHMENTS.

The relative importance in total output by number and size of establishments with average output for each size for 1917 report follows:

Retablishments by Size of Product	Number of establishments	Total product of each size establishments	Average products for each size
Over \$1,000,000 \$100,000 to \$1,000,000 \$20,000 to \$100,000 \$1,000 to \$20,000 Lees than \$6,000	485 948 994	\$277,012,381 129,963,098 43,295,397 10,352,402 2,196,168	\$5,327,161 267,963 45,670 10,415 2,742

COMPARISON BY SIZE OF PLANTS.

This comparison is made for the purpose of indicating the increase of the number of larger sized establishments in productivity. That for the United States census of 1909 showing all plants of all sizes while the state figures are based upon only those reporting to this bureau. For the reason, however, that failures to report are almost wholly among the smaller and medium-sized plants, the figures given for the larger-sized plants should be accepted as correct for all practical purposes, as follows:

ESTABLISHMENTS OF EACH CLASSIFIED OUTPUT.

	Total	I ces than . \$5,000	\$5,000 and less than \$20,000	\$20,000 and less than \$100,000	\$100,000 and less than \$1,000,000	S1.000,000
1909 U. S. Census	5,528	2,281	1,096	1,156	366	29
	2,904	750	884	- 844	341	33
	3,280	801	994	948	485	52

Not only did the number of establishments with a product of over \$1,000,000 increase from 29 in 1909 to 52 in 1917, but the average output of these plants increased from \$3,296,045 in 1909 to \$4,213,517 in 1915 to \$5,327,161 in 1917.

Those with an output of \$100,000 and less than \$1,000,000 increasing in number from 366 in 1909 to 485 in 1917, the average

value of output per plant increasing from \$248,876 in 1909 to \$267,963 in 1917, the plants of smaller size showing a relatively smaller per cent of average output and increase.

GENERAL TABLES.

Table No. 1. Statistics of manufactures gives for the state, the total number of establishments reporting and the number of each classified industry, capital invested, value of stock and material used, amount of wages paid, average yearly earnings, average number of wage earners by sex, with the smallest number of wage earners employed and largest number employed during the week of smallest and greatest number employed by each establishment reporting.

In this table it is intended to show the importance of manufactures from viewpoint of four outstanding essentials: (1) That of investment; (2) that of change of raw or partially manufactured material into a more serviceable or valuable commodity; (3) the value of the finished or partially finished material after the process of fabrication, and (4) the highly important factor—to what extent do the manufactures of the state give employment to the men and women of the state, and the amount of wages paid in the aggregate and average as a means of determining their value in social significance.

RELATIVE VALUE OF INDUSTRIES.

In the analysis of the four great essentials, it is of interest to note those industries ranking highest in each essential and for this purpose twelve leaders of each group are given with their actual and relative importance as shown by the Seventeenth Biennial (1915) Report of this bureau when compared with this (1917) report.

The twelve leading industries of the state for 1917 by the amount of capital invested, railways shops not reported, with relative rank for 1915 and 1917:

Industry		1015	1617		
	Rank	Amount	Rank	Amount	
Electric light, heat and power Foundry and machine shop products. Slaughtering and meat packing Slaughtering and meat packing Prod preparating and positing Brick and tile. Prixing and publishing Lumber and timber products Caming and preserving. Butter, choose and condensed milk Floor mill and grist mill products	24 28 57 0 62	\$ 10,400,167 25,046,336 18,150,070 19,945,670 9,774,722 12,448,504 10,788,902 8,811,178 11,002,196 4,488,369 4,481,908 3,587,051	5 6 7 8	8 55.543.835 41,107,004 26,532.134 19,470,001 18,141,537 14,249,358 13,116,781 11,295,522 9,325,319 7,880,624 5,944,106 5,629,849	

This table shows a considerable increase in capital invested in all twelve of the leading industries. The same is true of all classes of industry with twelve exceptions. The industrial classification showing the greatest loss in capital invested is that of cutlery and tools, the decrease being from \$783,577 for 1915 to \$362,792 for 1917. Soap also suffered a decrease in investment, the figures being \$1,042,041 for 1915 while in 1917 they are only \$710,225. It is noticeable that washing machines increased in importance during the period. The capital invested in 1915 was \$2,554,601 and for 1917 it was \$4,174,910.

The industry having the largest per cent of increase of any classification was that of musical instruments, the manufacture and inclusion in this classification of phonographs being responsible. The investment for 1915 was \$12,205 and for 1917 it was \$1,605,247. The value of products of this industry for 1915 was but \$14,050 which increased for 1917 to \$1,719,594.

In the matter of stocks and materials used in twelve leading industries for 1917, railway shops excluded, and the relative rank for 1915 and 1917 is as follows:

Industry		1915		1917	
	Hank	Amount	Rank	Amount	
Slaughtering and meat packing	1	875,046,953	1	\$123,438,126	
ood preparations	22	25,858,954	2	56,004,336	
lutter, cheese and condensed milk.	R	21,168,792	3:	28,830,393	
Foundry and machine shop products	4	1 7,074,088	4	21,046,200	
flour mill and grist mill products	- 5	7,776,555	15	15,133,400	
umber and timber products	- 6	5,542,458	6	8,905,853	
frend and other bakery products	7	3,537,992	7	5,802,900	
anning and preserving	1.7	1,787,039	8	5,161,240	
Printing and publishing.	8	3,492,058	.9	4,798,416	
Confectionery (including ice cream)	9.	2,660,227	10	4,282,30	
Sectric light, heat and power	1.5	2,009,304		3,457,300	
!ement	12	2,186,209	12	3,354.90	

This table shows a great increase in value of stocks and materials used in 1917 over those used in 1915 and while part of this increase must be attributed to increased cost resulting from general advance in price because of war conditions, when a comparison is made in the number of wage earners employed it at once becomes evident that there was considerable increase in quantity of stock and materials used as well as increase in value.

The twelve leading industries for 1917, railroad shops not reported, in value of products, the relative rank for 1915 and 1917 is as follows:

Industry		1915	1917	
and only	Rank	Amount	Rank	Amount
Slaughtering and meat packing	-1	8 84,297,232	1	\$135,815,480
Food preparations		32,546,926	2	72,728,14
Poundry and machine shop products	3.	24,112,273	3	37,621,47
Butter, cheese and condensed milk		15,354,428		32,103,74
Plour mill and grist mill products	10	8,964,208	5	17,218,56
Printing and publishing	. 5.	12,134,597	6	14,445,200
Lumber and timber products	6	9,163,844	. 7	13,980,21
Electric light, heat and power		6,756,846	8	11,641,85
tread and other bakery products	10	5,918,520	- 9	9,267,58
Canning and preserving	15	2,508,398	10	8,438,139
Sement	12	4,521,422	31.	7,548,05
Confectionery (including ice cream)	14	4,104,679	122	7,369,50

The importance of Iowa as a food producing state is evidenced in this table at a glance. Her high rank in agricultural production is known to all, but too little attention is given her importance in food preparation. The two leading industries in value of products are slaughtering and meat packing and food preparations, while butter, cheese and condensed milk, and flour mill and grist mill products rank fourth and fifth, with bread and bakery products, and canning and preserving ranking nine and tenth, and confectionery twelfth, placing seven of the twelve ranking industries in food production. These seven food producing industries had a combined product of \$282,941,464 for 1917; this amount being 61.1 per cent of the entire value of manufactured products of the state.

The twelve leading industries in average number of wage earners employed in 1917, by relative rank, for 1915 and 1917:

Industry		1915	1917	
	Rank	Number	Rank	Number
Car repairs and construction	1	9,776	1	11,962
Foundry and machine shop products	25	5.074	2	9.233
Slaughtering and meat packing.	2	5,345	3	5,087
Tipling and publishing	- 4	2,974	4	4,145
Amber and timber products	6:	3.003	5 5	3,220
snck and tile	8	2.201	6	3,085
rood preparations	- 10	2,105	7	3,059
		2.338	N.	2,910
Slectric light, heat and nower	100	1.622	0	2,350
		1.271	10	1,786
cread and other bakery products	100	1.470	11	1,602
Pobacco, cigars and smoking	15	1.182	12	7,424

The twelve leading industries in amount of wages paid for 1917 and comparative rank for 1915 and 1917:

Industry		1915	1917	
Antonio	Rank	Amount	Rank	Amount
Car repairs and construction	1	\$ 7,149,068	1	\$ 10,878,566
Foundry and machine-shop products	2	\$ 3,815,292 3,295,173	2	8,670,936
Slaughtering and meat packing	4	2,983,205		3,428,574
Brick and tile	- 5	2,287,888	5	2,671,396
Food preparations	7	1,344,567	6	2,443,60
umber and timber products	6.	1,951,757	7	2,304,55
Electric light, heat and power	9	1,121,681	8	1,838,77
Suttons, pearl	10	1,074,144		1,634,40
ement	13	847,817	10	1,315,21
Sutter, cheese and condensed milk	8	1,230,598	11	1,210.02
Bread and other bakery products	1.1	879,981	12	1,025,70

Twelve leading industries in average yearly wages paid during 1917 and comparative rank for 1915 and 1917:

Industry		1915	1917	
	Rank	Amount	Rank	Amount
Cement	8	8 768.64	1	1.146.65
Malt.	-6	807.12	2	1,074,38
Car repairs and construction	15	731.28	3	990.26
Wall plaster	14	731.73	4	982.39
Marble and stone work	4	816:47	5	957.04
Sutter, cheese and condensed milk (co-op.)	5	815.00	6 7	942.95
Foundry and machine-shop products	30	751.93	7	939.12
Stoves and furnaces	7	771.15	8	923.52
Oils and grease	20	701.14	100	886.09
Stacking, cleansing and polishing prep.	4.0	580.82	- bis	877.63
opper, tin and sheet iron products	66	483.16	100	874.52
Brick and tile	20	674.69	12	865.93

These tables show but little variation in the relative rank of twelve leading industries in the number of wage earners nor in yearly wages paid. The table of average yearly wages paid is, however, a revelation, and shows the beginning of unrest and upheaval in wage and economic conditions resulting from the war. The high average wage in the cement industry is partly due to the fact that this is a continuous 24-hour-a-day industry, a large number of the employes working on eleven and twelve-hour shifts. The second ranking industry, that of malt manufacture, shows an average increase of \$267.26 per year in excess of two years ago when brewing of malt liquors was included in the classification. The trend of nominal wages was rapidly upwards during the two-year period from 1915 to 1917, and in which the wage earner in transportation, the metal working industries and the occupations incident to the manufacture of war material were the greatest beneficiaries. It should not be assumed, however, that this condition resulted from the production of any great quantity

of war materials in Iowa prior to December 31, 1917, the date of collection of data for this report, but it came rather as a result of the great activities of the Atlantic and Pacific coasts in these lines competing for labor and bidding up the wage rate, also as a result of the rapidly advancing cost of living which made some advance in the wage rate obligatory.

VALUE OF PRODUCTS.

The United States census for 1914 reports 5,614 manufacturing establishments with a product of \$310,749,974, while this report for 1917 is based on 3,280 establishments with a product of \$462,-819,446 or an increase of 48,94% during a period of three years. It is safe to say that if all plants with an output in excess of \$500, the basis of the United States census, were included, the value of the products of the factories of Iowa would have exceeded the half-billion mark. The following comparative table is of interest to indicate the growth or decline in classified industries.

COMPARISON OF MANUFACTURED PRODUCTION FOR YEARS 1915 AND 1917.

Name of Industry	Yes	or 1915	Year 1917	
	No. Estab- lishments	Value of Products	No. Estab-	Value of Products
Agricultural implements	30	\$ 5,451,851	25	\$ 5,680,968
		494,652	123	1,777,312
		9,078	*********	
		362,050	10	647,461
Auto tires	C.000.00	************	All M	1,057,964
		255,446	14	257,177
		181.543	- 9	239,182
			- 0	93,716
			9	314,137
Boots and shoes.	ALCOHOLD BOOK	741,084	- 4	1,130,813
	7	102,325	2	148.508
		130.854	0	228,408
		254,078	6	856.885
		5.918.520	165	9,267,580
Brick and tile	2.875	7,100,400	110	7,260,987
		598,047	92	833,974
		13,607,661	135	19,890,314
	210	10.504,612	180	
		3,404,205	45	12,213,433
	800	2,508,308	50	5,499,570
		72,608	6	8,438,138
		1.767,264	51	84,121
				2,285,931
		4,521,422	59	
		2.020,010	.5	7,548,061
			20	3,858,383
	- 6	1,021,477	9	1,632,471
		1,024,210		2,345,709
	4.2	881,472	- 9	857,675
	04	4,104,679	- 83	7,369,809
	36	287,707	11	340,966
	11	1,805,857	39	2,409,837
	16	290,022	10	321,627
	16	800,273	11	375,989
	104	388,894	- 5	981,009
Electroplating. Plags, banners and regalia	200	6,756,646 12,609	159	11,641,851

Flour-mill and grist-mill products 92 8,964,296 103 17,	Year 1917		
Food preparations. 10 23,344,026 12 72, Poundry and machine shop prod. 160 13,354,428 188 37, Four goods. 111 200,661 17 12 100,661 17 12 12 12 12 12 12 12 12 12 12 12 12 12	alue of roducts		
Foundry and machine shop prod. 100 15,354,428 188 37, Four goods. 111 290,661 166 166 176 176 187 187 187 187 187 187 187 187 187 187	17,218,50		
Foundry and machine shop prod. 160 15.354.428 158 37. Page goods. 111 200.601 166 200 200 200 200 200 200 200 200 200 2	72,728,1		
For goods. 11	37,621,47		
Farnishing goods, mem's 13 600,210 7	579.35		
Parmitters and refrigerators 32 2.519,194 31 32 32.535,835 32 33.535,835 34 32.535,835 32.535,8	350.1		
Jase and electric fixtures	2,605,83		
Sas, Huminating and heating	289,93		
All	3,577,0		
State and caps. 3	1.958.20		
Toolsery and knis goods 2	168.50		
Coc. manufactured 266 501,836 300	623.20		
Sewelry Sewe	644.60		
### ### ### ### ### ### ### ### ### ##	51.97		
Aguera, mail	3.241.50		
Mail	9-492-01		
Ambier and timber products 54 9,163,844 67 13, 484 13, 484 67 13, 484 67 13, 484 67 13, 484 67 13, 484 67 13, 484 67 687,205 73 1, 12, 124 1, 12, 124 1, 124 1, 124	1,215,60		
Marble and stone work 50 1,078,326 73 1,	13,980.2		
### dattensess and apring beds. 7			
## ## ## ## ## ## ## ## ## ## ## ## ##	1,456,90		
dirrors and glass	1,181,48		
fusical instruments	1,264,7		
Todels and patterns, not paper 6	42.8		
phis and grease 2 750,384 6 1, ppictal goods 7 191,561 8 and varnish 2 37,760 3 aper and wood pulp 2 145,665 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1,719,59		
patical goods. alint and varabh. 2 37,760 4 aper and wood pulp. 2 145,663 30 4 aper and wood pulp. 2 146,663 30 4 4 27,486 2 5 148,067 68 1 4 2 64,880 7 5 12,134,567 68 1 4 2 74,886 2 5 12,134,567 68 1 4 2 74,886 2 5 12,134,567 68 1 4 2 74,886 2 5 12,134,567 68 1 4 2 10,865 5 6 1 10,865 5 6 1 10,865 5 6 1 10,865 6 6 1 10,865 6 7 1 1 10,865 6 7 1 1 1 1,865,860 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
aint and varnish. 2 37.760 3 apper and wood pulp. 2 145.665 4 atent medicines, etc. 27 2,145.695 4 atent medicines, etc. 27 2,145.695 4 atent medicines, etc. 27 2,145.693 30 4, etcs, fountain, etc. 32 274.848 2 374.848 2 374.848 2 374.848 2 374.848 2 374.848 2 374.848 2 374.848 2 374.848 2 374.848 2 374.848 2 374.848 2 374.848 2 374.848 2 384.74.81 6 3	1,018,7		
aper and wood pulp. 2 146,665 4 attent medicines, etc. 27 27,116,393 30 4, ens. fountain. 3 274,445 30 4 ens. fountain. 3 274,445 5 ens. fountain. 3 274,445 5 ens. fountain. 3 274,445 5 ens. fountain. 3 274,445 6 ens. fountain. 4 374,511 6 ens. fountain. 4 4,511 6 ens. fountain.	279,0		
27 2,1615,393 30 4, ens. fountain 27 2,1615,393 30 4, ens. fountain 3 374,848 2 54,380 3 74,848 2 54,380 3 74,848 2 54,380 3 74,848 2 54,380 3 74,848 2 54,380 3 74,848 2 74,84	108,1/		
ens. fountain.	722,81		
ens, fountain. 2	4,200,0		
hotographic apparatus, etc. 2 54,280 integraphic apparatus, etc. 2 51,286,67 689 144, minting and publishing 55 53 12,144,667 689 144, minting and publishing 55 10,00,018 8 1.4 integration of the second of the s	555,8		
rinting and publishing			
umps 7 919,681 8 1.0	4.445.2		
emodies, stock and poultry 22 1,108,056 24 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,	1,450.63		
erum, hog cholers, 8 437,451 6 1, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.876.5		
igns and advertising novelties. 13 1,009,018 13 1,1008 and parks 14 1,1008 and parks 1	1,351.7		
100e and parfs	1,687,3		
Section Sect	1,709.8		
pap. 7 1,321,649 4 1,2 toves and furnaces 12 881,292 13 1,2 obacco, cigars and amoking 142 2,034,055 130 2,4 inegar (and pickles) 3 2,6 3 2,4 ulcanising 6 22,662 7 3 all plaster 3 1,885,320 5 2,3 all plaster 3 1,885,620 13 4,4 700 color, worsted and fell goods 10 4,45,006 13 4,4 700 color, worsted and fell goods 2 145,006 14 6 1 1,4 6 1 1,4 6 1 1 1,4 6 1 1 1 1,4 6 1	15,815,4		
toves and furnaces 12 881,292 13 1, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,212,01		
obacco, digars and smoking. 142 2.034.005 139 2.1 inegar (and pickles) 3 2.6662 7 ulcanhing 6 22,662 7 2.13 Dates 3 1.050,329 5 2,1 2.4 Ashing machines 1 2,182,866 13 4,5 7.00ker, worsted and fell scode 2 145,006 4 4	1,737,04		
linegar (and pickless)			
ulcantizing 6 22,662 7 All plaster 5 1.380,320 5 2,7 ashing machines 11 2,182,866 13 4,8 Cooles, worsder and felt goods 2 422,172 13 3	2,673,97		
Vall plaster 8 1,380,320 5 2,7 ashing machines 11 2,182,866 13 4,5 (Fe products 10 412,176 13 6,5 (Proposers) 11 412,176 13 6,5 (Proposers) 12 412,176 13 6,	324,77		
Vashing machines 11 2,182,866 13 4.4 Foolen, worsted and felt goods 2 145,006 4	28,10		
Foolen, worsted and felt goods 2 146,006 4	2,128,27		
Toolen, worsted and felt goods 2 145,006 4	4,496,44		
other, worsted and felt goods 2 145,006 4	886,76		
	30,40		
Il other industries	3,710,14		

It will be noted in the above table that establishments in the manufacture of auto tires, boats, gloves, and vinegar and pickles increased in number sufficient to include in separate classifications, and that the manufacture of malt liquors ceased upon repeal of the mulct law, but that the manufacture of malt for shipment continued, therefore calling for separate classification.

The number of plants making artificial limbs, electroplating, flags and banners, models and patterns, and photographic apparatus decreased, making necessary their being included in "all other industries" to avoid disclosing statistics on individual establishments.

MANUFACTURES BY COUNTIES.

Table No. 2 is a tabulation by classified industries of the manufactures of the counties similar to statistics contained in table No. 1 for the state. Capitalization, stocks and materials used and value of products of "Car and general construction" shops are omitted for the same reason as in table No. 1. The importance and relative standing of counties that have large industries of this class would be materially advanced were it possible to include these valuations. In the following comparative table it will be seen that with the exception of the counties of Clark, Dickinson, Fremont, Taylor, Union and Wayne, every county in the state made a substantial gain in the value of products from 1915 to 1917.

COMPARING MANUFACTURES STATISTICS BY COUNTIES, ACCORD-ING TO NUMBER OF ESTABLISHMENTS AND VALUE OF PRODUCT FOR 1915 AND 1917.

Name of Industry	Year	1915	Year 1917	
Awarde or Andriancy	No. Estab-	Value of Products	No. Estab-	Value of Products
dair	7 1	8 215,714	0	F 216,24
dams		44,600	- 6	74.27
Hamakee		490,776	-17	077.15
ppanoose		352,855	20	623,50
udolson		277,567	16	329.27
enton		520,304	34	1.511.02
lack Hawk		12,223,638	122	24.812.92
OOTH	25	855,106	28	903.73
		1.376,842	41	1.865.25
remer		504,756	24	847.05
uchanan	900	337,531		370.22
uona Vista	92	341,549	22	
utler	22		14	417,97
alhoun	21	254,544	24	407,96
arroll	28	950,280	44	1,319,26
ASS.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	18	481,701	3.6	895,07
edar	18	271,308	25	545,84
erro Gordo	43	11,268,509	52	19,122,90
herokee	12	101,920	3-6	149,09
bickasaw	21	669,893	22	781,35
larke	4	31,761	16	26,11
lay	18	568,821	17	620,08
layton	39	1,204,689	39	1,530,54
linton	75	9,853,689	NIS	18,631,52
rawford	17	446,029	222	623,51
allas.	26	710,776	231	1,532,90
avis	- 5	43,007	7	70.90
ecatur	12	239,002	13	4.50,33
elawaro	26	619,007	25	773,63
en Motnes	72	5,384,476	74	8,100,65
lekinson	57	436,247	13	344.86
abaque	120	11,922,806	130	16.882.30
nime\$	11	234,186	-37	454,06
xyette	42	1.042,939	45	1.500.21
loyd	10	2.021.285	32	4.500,32
ranklin	14	443,291	13	662.08
nimont	13	33.474	11	47,36
reene	14	243.922	-16	354.22
rundy	13	132.055	12	161.54
uthrie	20	219,450		227,37
amilton	21	615,712	20	771,93
ancock	18		21	411,58
ardiu	29	312,900	10	
	400	787,701	38	1,347,03
AFTISCHL.	122	188,710	3.5	288,13

Name of Industry	Yes	r 1915	Yen	1917
Seams or Industry	No. Estab-	Yalue of Products	No. Estab- lishments	Falue of Products
Ilóward	_ 20	623,226	21	679,04
Humboldt	16	175,789	17	482,82
da	15	133,997	15	242,95
lows		264.057	13	195.75
fackson	21	405,041	24	791.64
faaper		2,180,769	47	3.878.51
efferson	17	1,380,860	21	2,488,78
ohnson		617,273	34	1.120.12
ones.		979,489	25	1.291.85
Ceokuk	20	459,016	23	564,00
Cossuth	33	613,415	35	842,94
40	77	0.080.822	.54	16.018.08
Jan		40,297,953	162	75,097,72
ouisa		158,380	12	332,98
Jucas	4	72,585	12	251,58
yon	20	366,036	16	417,07
fadison		50,837	5	67,05
Calculate	32	788,941	37	1,294,49
fahaska	27		20	
farion	22	698,245	45	1,013,22
farshall	. 37	4,169,703		4,670,80
fills	- 7	77,260	12	265,77
litchell	- 13	355,848	22	631,22
fonona	- 8	127,310	15	245,14
fonroe'	. 13	249,438	12	414,60
fontgomery	25	1,253,573	27	2,422,01
Inscatine	. 98	4,751,040	80	8,362,31
Brien	. 23	970,936	23	1,380,60
Sceola	- 0	79,550	6	117,42
Age	37	1,367,663	34	1,172,46
alo Alto	17	505,353	19	697,88
Tymouth	1 21	953,799	26	1.728.08
ocahontas	11	127,023	32	219.37
olk	221	20,956,049	231	30,539,47
ottawattamie	60	3,430,700	76	5,235,42
'oweshiek	93	1.400.30N	24	1,786,77
tinggold	. A	24.853	- 3	58,83
BC	205	576,825	25	891.05
cott	132	18,590,645	150	36,399,91
helby	7 7	196,505	10	201,78
loux	36	722,326	37	1,137,97
tory	- 24	280.789	41	838,50
ama	22	310,538	27	1,001,63
aylor	13	221,805	12	93,92
nion	10	763,456	10	416.66
an Buran	10	34,806	13	81.32
apello	62	20,380,100	65	30,225,90
arren	7	33,399	8	
ashington	- 21	420,104	27	67,98
ayne	11	1.001.620	14	645,48
Tobater	47	7,107,855	50	524,82
innebago	13			13,539,00
Throughtale	24	391,426	35	646,00
Inneshiek	100	1,032,671	27	1.337,81
oodbury	107	54,525,502	103	88,810,10
orth	11	343,403	10	440,94
right	-22	325,460	26	507,57

Thirty counties reported capital invested in manufactures in excess of \$1,500,000 each. These are given in the following table with relative rank among all counties of the state in capital invested, raw materials used, value of product, number of wage earners and their earnings. A study of this table will indicate the effect of the predominating industries of the county in relative standing under the respective heads. For instance, Linn county, whose predominating industry, except in capital invested, is food production, ranks first of all counties in total amount of capital

invested; second in both raw materials used and products, but drops to fourth rank in number of wage earners and wages paid. The last being incident to the great number of women employed in food production, while the centralizing of the electric industry is largely responsible for first rank in capital invested and a drop to fourth rank in number of wage earners because of the small number required in power production.

Polk county, which stands second in capital invested, drops to sixth rank in raw materials used, her predominating industry being printing, except in capital invested, with foundry and machine shop products ranking second. In both of these industries labor is a relative important factor, both in quantity and skill of the finished product, with consequent result in placing the county in first rank in both number of wage earners and also in total wages paid.

In Scott county 50% of capital invested is in foundries and machine shops, and approximately that per cent of wage earners are employed in this industry, which accounts for the decidedly even ranking of third in investment, raw materials and product, and second in wage earners and earnings, the higher ranking in the latter two being incident as before noted to the importance of the labor factor in this class of products.

Woodbury county ranks first in raw materials used and in products, this because 86% of raw materials used is in live stock and 82% of products in meats. The amount in value of labor added to the raw material is relatively lower than in a number of industries requiring greater application of skill, which lowers the county's rank to fifth in number of wage earners and sixth in total wages paid.

In each case where an apparent disproportion in rank appears in the table it can be traced to some predominating industry in the different requirements of the essentials.

Table follows:

MANUFACTURING INDUSTRY IN THIRTY COUNTIES OF IOWA

	Capitalization	Stocks & Materials		Total Product	Wage Earners	Same	Wages Paid	
County	Janoury	outsV	Mank	ManH	Mumber	Masit	sunowy	Manil
After the control of		88 20 20 20 20 20 20 20 20 20 20 20 20 20		の 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	######################################	*	本 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4-000年四十四年四二年四日日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日
nge. cerion ayerte	253	1,049		210 510	397	: Q 25 C	15 / 15 / 15 / 15 / 15 / 15 / 15 / 15 /	

TWELVE LEADING INDUSTRIES IN NUMBER OF EMPLOYES.

	Industry	Month of great- est average em- ployment.	Average employes in greatest month	Extreme greatest employment	Extreme smallest employment
1. 2.	Car repairs and construction		12,574 9,678	13,277 11,490	10,768 7,147
3.	Slaughtering and meat packing Canning and preserving	January September	6,494	6,867	4,229
4.56.7.	Printing and publishing	December	4,243	4,678	3,750 2,507
7.	Food preparations	December August	3,480	4,003	1,792
8.	Buttons, pearl	February	3,427	3,836	2,272
9.	Lumber and timber products	July	3,317	3,662	2,767
10.	Electric light, heat and power	July	2,600	2,896	1,964
12.	Confectionery (incl. ice cream)	October	1,981	2,181 1,752	1,440

The following are the twelve ranking industries employing the greatest average number of women:

17	Clothing, men's
2.	Buttons, pearl
3.	Confectionery
4.	Printing and publishing
5.	Tobacco, cigars and smoking
5. ·	Food preparations
7.	Bread and other bakery products
4	Canning and preserving
0.	Canning and preserving Clothing, women's
O.	Slaughtering and meat packing
1	Gloves
2.	Patent medicines, druggist's preparations

Of the above twelve industries, the following shows those in which the women wage earners exceed in number the male wage earners, also the relative numbers of each sex:

Industry	Men	Women
Clothing, men's, Clothing, wemen's, Confectionery, Gloves Patent medicines, druggists' preparations, Tobacco	108 174 704 115 157 624	1,222 428 1,027 368 278 786

Table No. 4 gives the number of adult employes by sex, and the number of young persons employed on a definite date for all establishments reporting. December 15, 1917, was selected because of it coming just before the holiday season and sufficiently close to date of report to make it easy for all establishments reporting. The month of August came closest to the average em-

Table No. 3 gives the average employment of wage earners by sex and industry for each month of the year, and should be instructive as a means of determining the seasonal or irregularity of employment in the several occupations. Referring to table I there will be found a column giving the smallest number and another giving the greatest number of wage earners employed by the industries. These figures are derived from reports in which each firm gives the smallest number of persons employed during any one week of operation during the year and also the number in the most active week of operation. It does not mean the same week of all or any of the industries, but indicates the drift of employment or non-employment. The report shows a drift from the minimum employment of 57,271 to the maximum of 92,607. It is thus seen that in excess of 38% of the factory workers are out of employment during some time of the year, some perhaps for considerable periods, while others are drifting from some line of work or job to another. Table 3 shows the average employment for the year to have been 71,694, of whom 61,119, or 85.3%, were males and 10,575, or 14.7% were females, the per cent for each sex. being identical with those for year 1915 as reported in the Seventeenth Biennial Report, although at that time the average employment was almost 13,000 less than for the year 1917. It is, of course, natural in a state having as great a range of industries that some should be decidedly seasonable in character while others are decidedly uniform in operation during the year,

The twelve leading classifications of manufactures are placed in comparison to show the month of greatest employment, the average number of employes during the year with greatest and smallest employed during the same period. These classifications are representative of extreme seasonable employment as well as of those reasonably uniform. ployment, but as the month of December averages only 126 above that of August, it was taken as sufficiently typical. December 13, 1915, there were employed in the manufactures of the state 51,017 males, 8,778 females, a total of 59,795 wage earners. For December 15, 1917, the numbers were 61,268 males and 10,965 females, a total of 72,233, thus again showing a decided growth of industry.

CLASSIFIED WEEKLY WAGES.

Table No. 5 shows the weekly rate of wages paid by classified industries to 88,655 wage earners, this being the number reported for the maximum week of employment for which accurate wage rates were given. Of this number, 74,051 were males, 14,035 were females, with additional number of 569 persons under 16 years of age, the latter being about equally divided between the sexes. This table, as all others, shows that there was very little relative change in employment of sexes for the year 1915 and 1917, the percentage in the former year being males 84,3%, females 15,2% and 0.5% of persons under 16, while for the latter period being males 83,54%, females 15,94% and persons under 16 years, 0.52%. The wages given are the rates per week for full time work.

A synopsis of the general table follows, showing separately the aggregate number and per cent of males, females, and those under sixteen earning a specified wage and also the number and per cent of each earning less than a specified wage.

A comparison of this synopsis with a similar one for the report of 1915 shows a marked increased in weekly wage rate, this for both men, women and youths. In 1915 but 39.98% of the males received \$15 per week or more, while in 1917 the number had increased to 70.81%. For the same period the women earning \$10 per week or more increased from 23.29% to 36.5%; while the number of those under 16 years of age receiving \$7 per week increased from 16.25% to 34.27%. The only exception to this general advance was in the number of females receiving less than \$3 per week, this number for the two-year period increasing from 2.63% to 3.38% of the total female employes.

MALE WAGE EARNERS AND CLASSIFIED WAGES.

Rate of Wages	Number	Per Cent	Rate of Wages	Number	Per Cen
Total Male wage earners	74,051	100.00			
Under \$3.00	190	0.26	Under \$3.00	190	0.26
\$3.00 but under \$5.00	316	0.43	Under \$5.00	506	0.69
\$5.00 but under \$6.00	277	0.37	Under \$6.00	783	1.06
\$6.00 but under \$7.00	447	0.61	Under \$7.00	1.230	1.67
\$7.00 but under \$8.00	704	0.95	Under \$8.00	1.934	2.62
\$8.00 but under \$9.00	705	0.95	Under \$9.00	2,639	3.57
89.00 but under \$10.00	1,547	2.00	Under \$10.00	4,186	5.66
\$10.00 but under \$12.00.	3,754	5.06	Under \$12.00	7,940	10.72
\$12.00 but under \$15.00.	13,677	18.47	Under \$15.00	21,617	29.19
\$15.00 but under \$20.00.	30,938	41.78	Under \$20.00	52,555	70.97
\$20.00 but under \$25.00.	14,233	19.22	Under \$25.00	66,788	90.19
\$25.00 and over	7,263	9.81	\$25.00 and over	7.263	9.81

FEMALE WAGE EARNERS AND CLASSIFIED WAGES.

Rate of Wages	Number	Per Cent	Rate of Wages	Number	Per Cent
Total Pemale wage earners 1.00 der \$3.00. 23.00 but under \$5.00. 25.00 but under \$5.00. 25.00 but under \$6.00. 25.00 but under \$6.00. 25.00 but under \$6.00. 25.00 but under \$6.00. 25.00 but under \$10.00. 25.00 but under \$10.00. 25.00 but under \$10.00. 25.00 but under \$10.00. 25.00 but under \$5.00. 25.00 but under \$5.00. 25.00 but under \$5.00. 25.00 but under \$5.00.	14,035 475 829 877 1,957 1,409 1,558 2,146 1,622 1,106 1,78 70	100.00 3.38 5.91 6.25 13.94 12.85 10.04 11.10 15.29 11.56 7.88 1.27	Under \$3.00 Under \$6.00 Under \$6.00 Under \$7.00 Under \$7.00 Under \$9.00 Under \$10.00 Under \$10.00 Under \$10.00 Under \$10.00 Under \$10.00 Under \$20.00 Under \$20.00	475 1,304 2,181 4,138 5,945 7,334 8,912 11,058 12,681 13,787 13,995	3.38 9.29 15.54 29.48 42.36 52.40 63.50 78.79 90.35 98.23 99.50

WAGE EARNERS UNDER 16, BOTH SEXES, AND CLASSIFIED WAGES.

Rate of Wages	Number	Per Cent	Rate of Wages	Number	Per Cent
Total Minor wage earners. Under \$3.09. \$3.09 but under \$5.00. \$3.00 but under \$6.00. \$5.00 but under \$6.00. \$7.00 but under \$8.00. \$7.00 but under \$8.00. \$8.00 but under \$10.00 \$10.00 but under \$10.00 \$10.00 but under \$10.00 \$15.00 do under \$10.00 \$15.00 and over	309 84 153 49 78 88 20 30 20 27	100.00 14.76 26.89 10.37 13.71 15.46 3.52 6.85 3.52 4.74 .18	Under \$3.00. Under \$5.00. Under \$6.00. Under \$7.00. Under \$8.00. Under \$8.00. Under \$10.00 Under \$10.00 Under \$10.00 Under \$10.00 Under \$13.00 \$15.00 and over	84 237 296 374 462 482 521 541 568	14.76 41.65 52.02 65.73 81.19 84.71 91.56 95.08 99.82

Table No. 6 gives the average number of days in operation by each classified list of industries. A comparison with former reports shows this average operation for 1913 to have been 283.5 days; for 1915, the average had decreased to 280.4 days, and the present report, 1917, shows 284 days.

A glance at the table indicates a number of industries to have been operating very near the maximum working days of the year, which exclusive of Sundays and holidays were 305. Electric light and gas plants, because of the nature of industry, operate the full 365 days, while the canning industry operated the least time, the average being 81.5 days.

The actual earnings of wage earners in manufactures can be somewhat definitely arrived at by a comparison of rates per week in table No. 5, the average days of operation in table No. 6, with a reasonable allowance for variations in employment as shown in table No. 3.

TABLE NO. 1-STATISTICS OF MANUFACTURES 1917.

		Industries	Total for the State	Agricultural implements Artificial stone Automobiles, bodies and parts. Auto tirus Awnings, tents and sails	Badota, rattan and wiltow ware. Blacking, cleaning and pollshing prep. Boots and shoes Boxes, clipt. Boxes, fancy and paper.	firms and bronze products. Read and other bakery products. Relex and tile From: Butter, choese and cond. milk, co-operative.	Butter, choose and condensed milk, private. Buttons, pearl, Cambing and preserving. Carpets and rugs. Carriages, wagons and materials.	ar repairs and construction* ement forthis, men's. Jodhing, women's. Offer and riples, reasting and grinding.
	91	Number of anadelidates	3,580	REE"	Man-a	-83888	25 2 2 2 E	80800
	pa	Capital invest	\$212,644,629	5,011,094 1,801,198 1,801,190 1,217,611 130,301	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4,381,611 4,380,707 7,880,638 7,880,834 8,282,887	9,325,219 2,444,835 1,171,964 1,342,896
P	-p	Value of stock	250, 722, 622	1 07,570 £ 207,519 207,519 573,600 205,011	20.00円 20.00円 20.00円 20.00円	363,796 5,802,909 2,718,139 485,067 11,508,101	17,222,291 1,439,465 5,161,245 21,968 1,189,333	3,354,904 2,883,284 947,325 1,596,902
	aq uaz	hear, bajq qanjus r ymonur ot wa	\$ 50,111,349	684,789 467,878 10,886 711,881 10,510	80,08 9,584 228,309 46,457 86,685	118,583 1,025,707 2,671,206 130,487 409,242	800,784 774,918 81,886 513,686	10,878,366 1,315,212 532,966 302,813 83,738
	4	chaor, oganov A. egalaraco	\$ TH. 25	28.287 28.287 29.29 29.29 29.29	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	808.83 640.36 865.93 865.93 842.95	809. 69 3600. 40 387. 50 546. 98 734. 88	1,146 1,146
	Average	soletic	61,131	発音に至ま	原の計画は	36.93	1,786 883, 883 67,6 67,6	11. 14. 14. 14. 14. 14. 14. 14. 14. 14.
Wago-E	age Number	Pennsles	10,710	Hus-H	4-8=	48450	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 20
ago-Earners 1	ther	Both Sexes	21,841	- FERNS	100円	HESE	2,916 1,319 699	11,147 11,147 10,000 10
Employed	200	lmuN reollens	57,871	888H=	E-E-S	83588	11 12 12 12 12 12 12 12 12 12 12 12 12 1	1,768
p	JEK.	dmuN testesti	209, 88	HE SE	F12882	2511,4 200,4 2012	1,386 3,836 6,191 830	12 12 12 12 12 12 12 12 12 12 12 12 12 1
	1011	bord to sulaY	8,418,819,4	5,680,968 1,777,312 647,481 1,067,964			88888	7,548,051 3,858,383 1,632,471

TABLE NO. 1.	ego	p	pos	9 10		Way	Wage-Earners	rners Er	Employed	107	tot	
Industries	Number of setablidates to	Capital investor	a short of stock a boan slattering	Amount of wage paid during the	Average yearly	Make	Females	Both Sexes	dmuX teellans	Greatest Numb	ubord to sulay	
Offits and undertakers goods Onfectionsy (including the cream) Outpers, and wooden goods Outpers, tin and afteret-fron products Traibed rock and stone	*2123	814,215 8,257,2 109,001 117,110	442,988 200,200,1 200,100 140,000,1	84,48 84,48 87,83 88,81	705 A5 61 534 61 535 62 535 63 535 63 535	200128	280,1	SEEE	525,1 586,1 500,0	8113.08 8113.08	2,469,505 2,469,507 31,109,505	
Outlery and tools Dafrymen's, aplanies and poulterers sup- Electric light, heat and power Flourmil and gristemil products Food preparations	20882	362,792 982,969 56,543,833 5,629,849 18,141,567	158,553 682,806 3,457,302 81,133,440 86,004,333	82,073 148,279 27,888,179 200,678 2,645,500	200 SE S	2,320 2,320 468 2,468	9×8118	2,350 2,350 3,059	2,500 to 200.00	2,896 2,896 4,000 4	375,989 11,041,851 11,213,543 148,145	
Considery and marchine aloop products for sooth for the constant of the cons	報品に出て	41,107,804 208,501 2,129,949 384,081	84,846,18 18,24,181 18,881,181	80,079,8 100,001 100,000 100,000 100,000 100,000	20 20 20 20 20 20 20 20 20 20 20 20 20 2	200, e 701, 72, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2	251 251 251 251 251	B. 110 100 100 100 100 100 100 100 100 10	FEEEs	08,11 886 1,000,1 120,01	152888	
Oak, illuminating and heating. Glores: Hats and cape. Hosiery and kint goods. For manufactured.	#Sauk	19,470,001 1,461,508 11,259,149 2,027,102	1,484,002 1,085,983 19,288 110,878 110,878	558,740 154,942 154,943 154,943 154,943	810 98 390 62 390 62 57 975 57 98	SHREE	H 12 52 1	SALHU	188 88 E	85 9 85 K		
dewice goods Lanther goods Lanther good thinker products Marker and stone work	* CP HT	2,732,983 11,208,522 11,238,522 1,239,672	11,426 1,428,127 1,621,078 1,621,078	18,500 469,818 2,304,356 36,329 26,343	781.79 845.90 713.70 1,074.38	M P E M S	51 1	2,250 2,250	288. 200. 200. 200. 200. 200. 200. 200.	3, 652 3,052 38,052	51,971 3,241,501 13,880,214 1,215,699 1,456,950	
Mattresses and spring bods Mineral and solds waters. Marrers and gless Madeal instruments (fact: phonographi) Olfs and greate	02400	1,007,214 1,000,703 1,000,247 1,000,246 1,000,462	SECTION SECTIO	Eduta Series	25.00 25.00	20 2 H 2	22	Manga	SHEET ST	SEREE	1,181,482 1,284,730 42,841 1,018,004 1,018,731	
		В.								ш.		
Optical goods Paint and varnish Paper and wood pulp Paper and wood pulp Pens, foundain.	****	8, 181 181, 274 181, 284 181, 284 181, 283 181, 283 183 183 183 183 183 183 183 183 183 1	126,746 22,545 197,840 1,774,157 106,419	62,546 11,992 98,912 171,136 36,717	202.00 728.47 738.05 11.072	K1255	21 0 83	82555	81118	110 161 151 158	279,008 1108,118 122,018 186,081	
Printing and publishing Pumps Remedies, stock and positry Remedies, stock and positry Remedies and bost-building	Saken	1,394,388 1,394,388 1,394,388 110,462	4,786,416 801,880 116,880 116,980 116,080 116,080	24 85 85 85 85 85 85 85 85 85 85 85 85 85	827.23 821.46 822.49 841.33	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 m	通過報記案	¥=84=	25 E S S S S S S S S S S S S S S S S S S	14,446,397 1,486,590 1,876,679 11,881,711	
Signs and advertising novelties. Shogatering and meat packing. Staggistering and meat packing. Stoop. Stoops and furname.	228-2	1,45,972 1,000,000,1 1,000,000,1 1,000,000,1	25, 554 121, 557 121, 557 121, 558 121, 558 121, 558	227,822 121,686 3,939,144 51,884 302,737	509.00 707.00 806.00 906.00 906.00	SE 20 E	至い器はの	SEP SE	当に哲な祖	328.2	1,687,341 1,709,841 1,212,942 1,737,044	
Tobacco, cigans and smoking Vinegar (and picklen) Vinegariting Valledating Washing machines	8=	1,899,336 401,287 69,683 4,174,910	1,330,003 192,012 10,626 (41,818 2,306,121	730,130 36,231 6,833 645,600 689,411	2000 2000 2000 2000 2000 2000 2000 200	8 K = 7 B	30 30	1 N E 7 N	785 0 50 TOS	25. 25. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27	2,673,978 23,108 2,108,254 4,406,448	
Whe work, incl. who rope and cable Woolen, worsted and felt goods. All other industrien!	272	685,145 80,570 8,841,199	1,990,429 11,678 1,990,439	886,511 875,8 184,776	800 88 376 21 746 24	8,08	818	Sug	Hat	Na8	886,764 30,405 3,710,148	

*Railway companies did not report capital invested, value of materials used, nor value of product. All other items complete. *All other notations are setablishment of each of the following industries: Art supplies (pictures), artificial flow-reported includes one establishment of each of the following industries: Art supplies (pictures), artificial flow-reported in a color pipes, gampored each explosives, day fait (roofing materials); ferro-silicon from ore, hard lead, photographic paper, game beards, sanked, is binding twine, plating and polishing, dying, derival supplies, evered buttons and pleating, commercial movings peletures, artificial links, respect pages and polishing, dying, dental supplies, Special Note.—After all manufactures tables were completed, seven reports were received too late to be entered in their proper riassification. The combined total value of products of the seven reports is \$2,738,757.

TABLE NO. 2-STATISTICS OF MANUFACTURES 1917.

100
- 22
- 11
=
0
0
1000
五
- 3
3
PH.
4.
0
Sec
-
200
Φ.
Fig.
160
- 25
12
12
144
-
4
200
60
100
77
8
8
6
-
2.9
20
90
(0)
n
ort.
(2)
20
200
et
55
-
70
-
10
-
63
23.
70
0
-
144
12
72
23
400
- 00
25
-
-
20
- 2
8
240
4
Esh
blish
ablish
stablish
Sstablish
Establish
f Establish
of Establish
of Establish
of Establish
per of Establish
ther of Establish
mber of Establish
umber of Establish
Number of Establish
Number of Establish
Number of Establish
Number of Establish

			p			-	Wage-Earners Employed	ners Er	nployed		
	måeri	por	pos	etja eo2e		Aver	Average Number	lber	10	20	30
Counties and Industries	Number of amfalldates	Reynal lastqeO	decis to sufaV su slairstam	animb bled sainb bled rest	Average yearly	soleld	Formalon	Both sexes	dmun bolism8	Greatest numb	ubovq to sulaV
Addit county Addit county Hitter the tone The term of contensed mits, Printites and publishing.	00000	108,904 12,602 19,805 30,385 46,000	\$ 187,584 3,223 170,300 2,566 11,295	\$ 15,083 5,303 4,510 2,935	\$ 751.15 792.64 865.64 644.30 723.75	\$10000 A	91 01	Sunt	16	20 to 10 to	\$ 216,812 3,450 181,362 13,005
Adams county Bruter, chose and condensed milk Printing and publishing Other industries.	POMH	51,008 4,500 20,508 6,000	40,809 40,809 4,794 10,000	9,549 3,167 6,382		400	41 01	400	o 12 eo 20	200	2, 47, 47, 42, 309, 81, 98, 98, 98, 98, 98, 98, 98, 98, 98, 98
Allamakoe compty Batter, chees and condensed milk Batter, chees and condensed milk arriages, watere and materials Triffing and publishing	Common	4,246,315 22,500 97,098 12,798 30,100 4,082,824	686 940 474 019 25,029 4,847 5,081	41,975 41,806 41,806 41,806 41,806 41,806	00 128 20	25 25 25 25 25 25 25 25 25 25 25 25 25 2	6 11 6	88 5 ° 11	Essin	25. 100 100 11	12,000 677,154 410,526 90,921 7,823 25,732
Appatrone county. Bread and other bakery products Confectionery. Printing and publishing Trinting and publishing Other infusives	Suunne	24,140 24,140 47,450 47,450 47,450 47,450 47,450		808-014 5.074 4.436 12.338		S Eccio	700-10-	3 3 2 2 2 2	4 1	201 8 118 8 128 178 178 178 178 178 178 178 178 178 17	133,153 622,508 57,240 47,778 47,778

12 15,190 19 24,190 14 187,461 13 22,007 125 70,461	1,889 1,611,088 15 281,342 411 808,145 703 702,323 29 55,443 259 55,443 259 55,443	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	800 804,738 19 59,338 88 163,661
20 200	#4 10 110 110 110 110 110 110 110 110 110	20 20 20 20 20 20 20 20 20 20 20 20 20 2	855 55 55 55 55 55 55 55 55 55 55 55 55
Sanna Sanna	20 a	27,4 21,2 = 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15 SE
o me	2010-	7 4-188883 1 848 E	146
Segues 8	四日の日十四日の田田	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	575 50 50 50 50 50 50 50 50 50 50 50 50 50
200 200 200 200 200 200 200 200 200 200	873.98 846.10 846.10 897.14 898.94 775.00 888.94 775.75	### 1990 1990	890.00 707.00 896.73
100 00 00 00 00 00 00 00 00 00 00 00 00	985 187 9 957 9 957 9 957 9 957 9 957 9 978 10 978 10 98 10	### ## ## ## ## ## ## ## ## ## ## ## ##	891,857 12,725 64,765 848,973
8,200 164,977 8,945 40,845	1,049,610 8,300 20,659 27,900 47,900 13,391 16,483 67,700	8,4 10,4 10,4 10,4 10,4 10,4 10,4 10,4 10	481,000 41,225 40,832 60,832
\$15,55 \$1	1,721,664 16,566 241,706 241,706 1,065,220 8,562 265,320 265,338	8,4 8,4 8,4 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1	1,287,141 16,290 178,273
	Sauce to the contract	# mandamanununun 4400 4400 440	20000
Auduon conny Auduon conny Brick and tile. Butter, theree and condensed milk. Perinting and problehing.	Parleton country Artificial tooms of the country fried and other bakery products frieds and tile orders of ordersod milk and tile ordersod milk hamite and proserving as them had and preserving the producting and publishing	Rack Flave county Artificial store Rack Flave in County Flave and brother and parts Flave and brother below products Flave and other below products Carriages, wagons and materials Carriages, wagons and materials Carriages, wagons and meterials Carriages, wagons and meterials Carriages, wagons and meterials Carriages, wagons and meterials Carriages and expect and any other Carriages and any other Flave and any desired and products Flave flave flave flave flave flave Flave flave flave flave flave Flave flave flave flave Mire work, incl. was products Whe work, incl. was products Whe work, incl. was products Whe work, incl. was products History of when topic and cabite History and cabite History of the flave products Flave f	Boone county Bread and other bakery products Brick and title Brick and construction

FABLE NO. 2.			1				Wage-Earners		Employed		
	NS10	po	pa pure	013 802		Ave	Average Nun	Number	20	30	10
Counties and Industries.	Number of emfeldabes	Capital Invest	Value of stock us statistisms	ar to innout.	Average yearly	solald	Pemalos	Both sexes	dmun teollams	dmun teoleon	Value of produc
Foundry and machine-shop products Asher goods Printing and publishing Other industries	MM1-3	188,888 66,450 187,781 672,189	111,513 100,58 100,681	4 - M 2 - M 2 - M 2 - M 2 - M 2 - M 3 - M	1. III 18 11 11 11 11 11 11 11 11 11 11 11 11	8*88	* X	2*R5	8-12	L. a. 23	187, 284, 49, 744, 111, 384, 111
A Brease county Attended at one Butter cheese and condensed milk atter cheese and condensed milk atter cheese and condensed milk attender group. Order industries	马州西州市田	801 500 327 500 327 500 32 500	1,417,447 1,313,614 11,313,614 11,313,614 12,318 13,310	三	48.25.25.25.25.25.25.25.25.25.25.25.25.25.	F-28.22	1 -2 22	Z-28-82	3 2- 21	3==8===	284, 284, 1 267, 311, 1 24, 199, 1 24, 171, 18
Duckarian rounity Inter-chem and condensed mile. Latter chem and condensed mile. Perinting rock Other industries	ZoneS	Miss as as as a second	685 685 210,015 100,015 100,001			F8-13	201	ğn-==	28-28	s du-nt	
Burna Vista county Artificial since Prick and the Blutze, choses and condensed milk Trifiting and publishing	Sauce	28.00 20.00	25 25 25 25 25 25 25 25 25 25 25 25 25 2	8 198 10 188 16 188 11 188 11 17	4.767 4.767 4.767 4.767 7.768 7.769 7.769	RESERVE	70 00 00	202250	2 020	当の物料が	25 05 05 05 05 05 05 05 05 05 05 05 05 05
Butier county Butter, chosen and condensed milk. Printing and publishing.	4044	100 100 57,425 30,500 14,275	357,407 328,871 5,018 23,618	8,506 3,606 3,618	1,000 54 600 00 600 00 600 00	BETTO	** **	Sie	8244	0.17.0	
Calboun county veilinisa stone Read and other bakery products Read and other bakery products Leadure choose and condensed milk	200000	530,212 8,480 77,360 50,560	13,910 10,112 98,481	47,225 10,015 2,725 9,680	1,252.00 682.00 605.62	Saus	2	5×+2	2 ==	110	20, 263 26,559 17,595
Printing and publishing	00	211,360		15,271	639 21	110	119	34		25	90,70

1,519,865 82,700 48,700 186,280 186,280 4,001 13,445 19,145 4,606 27,348	806,078 69,614 12,006 813,428	24, 44 20, 81 20, 81 20, 91 20, 71 20, 71 20	2,116,257 1,257,564 1,257,564	3,440,125 89,900 66,005 89,546 24,340 84,870 90,414 6,665	148,084 25,586 120,535	781,380 602,678 30,962 147,710
£2-288331 8	11 9 15 E	\$-1:0X	Subs.	28222447282	106	27128
高いなのお客いみに 宝	22-2	8 05.	Nu Su	Elixask-zsul	222	2118
新名-18至0-81 N	5 m 4 85	Sans	Huga	日本日に来り口をい	101 108	8578
=	24 0	W MM	4 m	H nenn	= no	0 100 H
28408801-0 2	3208	4-028	02284	Banna so.	808	212.02
20 20 20 20 20 20 20 20 20 20 20 20 20 2	25 A	11.00 11.00		200 200 200 200 200 200 200 200 200 200		810.20 810.20 870.80 603.80
20,001 3,831 12,002 22,943 100,800 7,000 4,129 8,419 8,419	10,000 10,000 2,972 116,973	11,000 11,000 17,000 17,000	28,707,808 710,867 710,867 61,413	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28,72 21,13 21,62	37.844 12.153 7.991 17.501
84 074 81 375 81 186 104 186 104 186 105 80 105 80	200,003 31,500 3,257 466,131	ま_日。日 考証に発亡	11,813,461 105,640 680,433 1,159,839	1,388 (MT 10,175 (MT 1	4,868 4,868 39,733	634,180 576,243 8,303 69,604
\$ 170.348 79.200 21.636 160.093 123.837 123.837 123.837 123.837 123.837 123.837 123.837 123.837 123.837 123.837 123.837 123.837 123.837 123.837	E71.879 TTL, MII TD, 000 129, 000	100 00 00 00 00 00 00 00 00 00 00 00 00	3,454,412 31,454,412 31,654,103	8,085,386 90,078 1,882,900 10,580 10,	45,300 45,300 345,818	441,030 56,477 46,530 138,003
ZunauFunana	N-DH	Munda II	danne	1 01 01 01 01 01 01 01 01 00 10 10	200	# 1- 10 av
(Sarroll county (Matthen stone Bread and other bakery products Bread and other bakery products Bread and other bakery products Receive does not materials Receive Baker goins and season going Mitters and such season Tobacco, cetar publishing Tobacco, cetar publishing	Cass county Kleetric light, best and power Printing and publishing. Other industries.	Codar county Artificial stone Bullitte, theses and condensed milk Printing and publishing.	Cerro Gordo consty Cerro Gordo consty Bread and other bakery products frick and tite The same and condemsed milk.	Confectionery Co	Cherokee county. Printing and publishing. Other industries.	Chickasaw county Butter, choose and condensed milk. Printing and publishing. Other industries

TABLE NO. 2.				***			Wage-Earn	armers E	pecoldu			
Counties and Industries	To redmist	Number of establishments Capital invested	Value of stock at fraction under	Amount of wagon paid during the year	Average yearly a spinish	silate.	Mind Number of Minds	Hoth sexes field	median minimis	Greatest number	Value of product	
Clarke county Trioting and publishing Other industries	111	27,530 27,530 1 2,300	2,546	141	707.7	22	44	10	0,0	100	86,716 24,716 1,400	
Clay county Artificial stone Presed and other bekery products Butter, chosen and conformed milk, Printing and publishing.	111111		# # # # # # # # # # # # # # # # # # #	## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	844 4 922 7 922 7 922 7 816 8					EG***	204,000 204,000 204,000 204,000 205,00	
Chayton county Buttor, these and constrained milk. Button, partle Referringer, such constrained Electric fight, but and power Printing and publishing Printing and publishing Other buttories.	THIRITIE	# 0 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,132,000 11,130 11,131	25 25 25 25 25 25 25 25 25 25 25 25 25 2	2000 2000 2000 2000 2000 2000 2000 200	20 0.75	\$82+×====		#8240-2-3	英部第四本に対し第	7,699,540 1,021,965 100,264 7,642 40,611 5,014 6,017 206,999	
Read and other bakery products Therefore and the bakery products Therefore and condensed milk. Therefore and condensed milk. Cichibat, somen; Four-sail and grein-mil products. Four-sail and grein-mil products. Four-sail and grein-milk products. Four-sail and grein-milk and grein-milk products. Four-sail and such products.	1111111111111	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24,800,800,800,800,800,800,800,800,800,80	25.20 20.20	**************************************	2000484080H24	28 28 4 28 28 28 28 28 28 28 28 28 28 28 28 28	277 199916	P. HANG	1,171,1964 1,171,1964 1,171,1964 1,171,1964 1,051,000 1,000,000 1,000,000 1,000,000 1,000,000	
Printing and publishing. Tobosco, eigens and amoking. Whe products. Other industries.	F465	2,677,298	7,041 1168,511 120,512 1,710,112	3,638 10,703 10,103 10,103	746.05 556.11 570.05	3"H8	n-se	8.82	5 o ta 6	8-120	242,614 15,984 290,584 2,482,177	
Crawford county. Binermal and grid-mill products. Branton goods. Printing and publishing. Other industries and stroking.	Sunnan	44,679 94,879 100,111 100,111 100,111 100,111	25.00 25.00	24.1.1.23 24.1.2.23 24.2.2.23 24.2.2.23 24.2.2.23 24.2.2.23 24.2.2.23 24.2.2.23 24.2.2.23 24.2.2.23 24.2.2.23 24.2.2.23 24.2.2.23 24.2.23 24.2.23 24.2.23 24.2.23 24.23 25.23 26.23		Southed	No. En. 100	Saudad	Sanzar!	Post II se	681, 216 9, 200 10, 819 10, 819 10, 855 10, 85	A.S
Dallas county Artificial store. Butter, and the store and condensed milk Butter, afrees and condensed milk Prainting and preserving Prainting and preserving Other industries.	Han44401-10집	2000年 2000年	記載記載 を表現 は の は の に の に に に に に に に に に に に に に	28.00 20 20 20 20 20 20 20 20 20 20 20 20 2		Sullinge	S 0+0+0	Muliannia	2-81 E18	Saknana	28,000 28,000 28,000 127,200 127,200 127,200 16,300 16,300	
Davis county Printing and publishing Other industries	1-11-4	25,00 20,00 20,00	10 A 200 10	10,000 4,546 5,837		Fall	900	H×II	202	2*2		100 21
Deestur county Presed and other bakery products Printing and publishing Other industries	Suar	15,800 10,800 10,100 10	300,645 18,000 19,012 20,042	2,000 2,000 1,000 1,000 1,000		Sall	h-48-	8788	3782	2080	100 kg 100 kg 10	*****
Delaware county Butter, choses and condensed milk Porticult and grate mill products. Printing and publishing Cobseco, eigers and amolting Other industries.	THE REPORT OF THE PARTY	22,682 16,410 16,410 12,211 12,210 34,110	614,949 614,949 1,851 8,112 5,976 44,800	28 8 50 20 8 8 50 20 8 8 8 50 20 8 8 8 50 20 8 8 8 8 9 9	25 25 25 25 25 25 25 25 25 25 25 25 25 2	22-2-2	6-m 17 m (1)	28-11-12	SH-12+2	227292	82 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CALL TO STREET
Dre Motions centry ware. Basket, raiten and villow ware. Basket, raiten and villow ware. Carriages, wagnes and materials. Carriages, wagnes and materials. Escript lifth, heat and power. Escript lifth, heat and power. Promittors and materials and power. Promittors and reductionship products. Promittors and expressions.	1-01 to 00 4 00 4 00 00 4	7,085,486 186,740 186,740 186,410 369,211 1,000,000 720,218 65,822 561,910 163,094	4,730,768 81,783 270,413 74,198 45,812 46,842 803,854 140,350 121,234 96,284	2,000,121 55,578 56,287 28,007 8,001 363,112 21,000 188,025 48,788	21 22 22 22 22 22 22 22 22 22 22 22 22 2	Kind de de Se	28 Pa 10 10 10	が高さるこうない	Serie serie	CERRESTRE.	220,402 220,402 447,202 662,964 110,738 242,000 815,232 180,116	

200' 6AT

10,863 795,908 795,853

082, 485

226,81

23,306

985,72

291,728

288, 01 588, 983

HGC' 200 HGC' 200 HGC' 200

302,269 5,250,790 5,250,000

845, 000, 4

812,008,1 888,701,1 888,721 888,721 888,4 607,61 878,07 608,4 009° b

149,195

569° EZ

786, 951 789, 921 545, 561

569,567,5

773, E12 231, 380, I 313, 381

218, 855

20,377

148,695

14 6E

11

te

90Z 22 25

10

130

102

81 678, I 619 900 12

\$16, 1 Tes

TEL, I 008 456 II

SHEE

6I 92 91 22 928 000,1 11

19

202 188

810,1 823 134 LEL" IFT 388 38 38 92 121

851

112

652, 1

in

99 100

95 12 12 83 601

90 31 8

19t 681 E1 100 691

II

8 8

1

20

28

14

1

9

1 86

1

12

TE

6 2 17

88 12 66 9

562 3

110

128 128

138 113 712,80 616,86 799,54 527,32

25.529

88,100

00.028

\$6,228

848 75 948 75 948 00

10.687

16.839

22, 888

59.197 86.590.1 61.878 06.515

8,7,8 8,7,8 13,183

1,963 1,860 1,860 4,967

999,11

515, 88 065, 7 786, E

278, 301, 1 ESA, 8 ESA, 7 ETA, 80 ETA, 818 ETA, 818 FTE, 79 ETE, 79

190,157

528,063

1,380

551, 54

180, 828

119,280

110,8 110,8 110,8 110,8

092'16 99'9 161'86 919'\$ 181'108

194,11

1,250 1,250 3,785

209,961

808, 10E 808, 10E 808, E

HEZ'881

14,337

101,852

\$51,132.1 \$78,971 \$78,971 \$61,72 \$78,925

621'98

000,71

849,11 858, 11 858, 21

845, 190 I

14,200

TEE, PAI

844, 878

588,888,2

847, 842 88, 511 88, 840, 1 818, 88

215,881

131,633

209, TEE 004, 81

16,900 30,553 72,782

120,235

90,05 001,01 001,01

161,000

841, 185, 1 844, 702 715, 97 781, 982 781, 982

839, 181, 8 15, 409 19, 200

909, 595

7,000 7,000 7,000 2,060 2,060

185,815,1 00,125 000,127 008,5 001,14

211,78

085, 518 085, 51 787, 671 711, 78

851,529,4

204 230

B CH CH CO

11 2 6

日本のかは

SHERRING SOLD

おおいる

15 Parents

12

200 2011 108,912 444,986 240,971

Chresto county.
Artificial atoms
Butter, cheese and condensed milk
Proming and publishing
Orber industries

Promon county

for manufactured

Printing and publishing

Other industries

Floyd county
Bread and older bakery products
Britise; chosse and condensed milk
Youndry and machine-hop products
Frinking and publishing

Frinking and publishing
Other industries

Payette county

Payette county

Plour-mil and when the county

Promise and acconse work

Problems and conse work

Problems and conse work

Tobacov, eigens and smoking

Other industries

Emmest county
Artificial stones
Buttier, choses and condensed mills
Printing and publishing
Orber inclusives

Satishida par apilishing.

Rabi-bushida faot Jon 2004 Shagistering and mont-passing.

Shagistering and most-passing.

Tobacco, classrs and smoking.

							-				
ELO, TE 500, 01 510, 12 510, 12 510, 12 510, 12 510, 12 510, 12 510, 12 511, 12 511	8 19 20 11 10 10 10 10 10 10 10 10 10 10 10 10	E # # E26	8 257, 5 8 2	1	9 250,1 1 10 11 12 12 12 12 12 12 12 12 12 12 12 12	00 162 99 995 95 959 92 925 02 925 02 925 03 995 10 995 11 925 12 965 13 965 13 965 14 166 15 166 16 169 17 169 18 160 18	PRI'S SEN' 9 SEN' 9 SEN' 209 FIL' 9 SEN' 209 FIL' 9 SEN' 200 FIL' 9	225' 91 985' 96 1 1 1 1 1 1 1 1 1	008' EE 008' EE 209'		Other indicates Other indicates Pathogue on the control of the c
285, 552 285, 552 998, 412	2 91 70	1 2 18	11 60	1 2	ot ot	70.417 00.188 00.18 24.197	800, 91 173, 9 860, 1 645, 8	840, 878 858, 746 009, 4 555, 6	\$12, 881 87, 78 818, 71 818, 71	1 2 2	Diskitten county Butter, cheese and condensed milk Leather mode Tyriniteg and publishing
1907,881 279,61 300,578 151,851 538,695,5	89 7 86 7 87 146, 1	990'I 99 28 † 69	MA 68 50 71 71 71 71 71 71 71 71 71 71 71 71 71	299 21 11	85 87 86 1,295	00 192 00 005 105 005 00 116	805, 5 105, 08 105, 08 115, 046, 1	521,851,5 521,59 521,59 521,851,5	849, T21 878, S21 878, S21 253, 88 252, 88 253, 88	2000	stations and garacter and accordance
Value of product	Greatest number	Smallest number	Both sexes	Females 2	May Mark	Average yearly earnings	Amount of wages paid during the year	Value of stock and materials used	Capital invested	Number of establishments	Countries and Industries
		partord	ners Em	rail-squ'	M.						TABLE NO. 2.

TAME NO. 2.			-			W	age-Earners Employed	ers Em	pasoid		
	arja	pe	bna	oqi soli	,	Average	are Number	ber	200	200	900
Counties and Industries	Number of manufelideten	Ospital Investo	Value of stock at sfelviern	Your of wa	chaser, sparsovA, specimes	Mahr	Females	Both sexes	forum tentlern8	tmum bestassize	dorq to aniaV
Grundy county Leather goods. Priviting and publishing. Other industries.	duna	113,894 112,800 40,120 100,974	112,963 3,925 8,622 101,000	24,070 730 7,716 15,904	12 80 127 12 80 127 12 80 1087	5-05	*	21.12	0-00	5"=2	85,280 81,280 122,820
Guthefe county Butter, choices and condensed milk Carrieges, wagens and materials Leather goods Thenting and publishing	Sausi-o	20 20 20 20 20 20 20 20 20 20 20 20 20 2	78, 30 20, 80 20, 50 20, 50 77, 60 77, 60 77	Section Sectin Section Section Section Section Section Section Section Section	######################################	# name =		검사무하였다	Beanco	Franci	112,112 112,112 14,200 14,200 19,400 18,400
If antiton county British construction British construction British groots Frinking and publishing. Other industries	Summer or	25, 92, 71 25, 93, 71 25, 83 30, 71 31, 83 31, 83 3	2000年 2	25 25 25 25 25 25 25 25 25 25 25 25 25 2	202.00 202.00 202.00 202.00 203.00 20	Sa-utt	8 - 68	E8=+88	Str. was	PHE-NE	11,011 11,011 11,011 11,011 11,011 10,011
Hancock county Butter, thoses and condensed milk Leating grouts Printing and publishing Other industries	Zanen	91, 673 38, 888 38, 230 36, 742 9, 742	24 4 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	# 0 8 8 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8538, 70 1, 2840, 80 747, 81 675, 40	20-ps	10 21	22-20	No-on	STUTE	088'88 088'88 178'117
Repetit regards and conducting the seven conducting	**************************************	1,101 100 100 100 100 100 100 100 100 10	28, 150 28, 15	200, 0.081 8, 642 12, 586 13, 586 13, 586 141, 586 141, 581 188 188 188 188 188 188 188 188 188	869 00 11,000 58 800.00 58 178 20 20 58 184 20 20 18	● はしばいはしなる	11 6	第1日一日・日一七百	高田本 日ヶ台 四章	52502-505E	51,920 51,920 346,110 35,000 75,000 75,000 85,406 65,406 45,406 45,406 46,406 4

288,162 97,540 29,303 46,657	200, 200 201, 200 200 201, 200 201, 200 201, 200 201, 200 201, 200 201, 200 201, 200	14, 12, 14, 15, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16	15 00 00 00 00 00 00 00 00 00 00 00 00 00	26, 519 100, 811 56, 500 10, 580 10, 580	196,763 3,130 56,327 4,946 22,708 108,643	791,044
88==28	Sunrone	2724008	BRaunk	3*113	18 2 1 8 100	181
535 20 27 27 27 27	B+0-00-5+B	221-4448	\$ MMES	Seleu	5 u-no	222
Canal Series	Sansanas	225****	SHOULE	F.105	\$ 00 mm - 00 M	20 mg
40 4n	£ +-8	* 11 14	P. 0H		70 1000	8-11
200 000 000 000 000 000 000 000 000 000	정도무즈지다구락	STOAGA	4年2000日	Fulled	Nan-aw W	277
818.57 808.96 815.30 618.51 843.11	######################################	22.00 M S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	118811 1188188 11188188	875.00 830.00 1,100.00 919.44 908.90	683 50 870 50 778 50 811.75 613.25	707.08 910.00 850.07
28,980 8,186 8,302 424,417	12 Links 12 Links 12 Links 13 Links 14 Links 15 Links 16	1880年188	# # # # # # # # # # # # # # # # # # #	HOUSE HOUSE	# + 9H	1,820
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 10 10 10 10 10 10 10 10 10 10 10 10 10	20 A	· · · · · · · · · · · · · · · · · · ·	750 8 8 15 15 15 15 15 15 15 15 15 15 15 15 15	1 250 to 1 2	652,449 9,361 232,306
818,081 689,185 70,786 38,885 119,215	56.80 50.00	261,126 261,126 261,000 261,00	7,782,718 22,000 7,709 45,684 19,710 1,687,625	20,300 102,300 102,300 18,730 11,140	161_246 3,359 20,815 9,005 31,000 87,000	316,369 2,942 96,812
Zuur.	Mercent or record	Man on as on serve	Formarion	# commo	2000000	200
Harrison county. Electric light, boat and power Poter-mil and grist-mill products. Printing and publishing. Other Industries	Herry county Refersh and the Refersh light, has and power Aumber and timber products Morean and such waters Partition and problading Others and models and ordered	Browned central Continued milk. Copper, that and sheet how products. Beartic little, heat and power products. Foundly and machine-sheep products. Printing and publishing.	A Hamboldt county A Hamboldt county Butter, choses and condened milk Floor mall and price mill products. Printing and publishing Other industries.	Take county Butter choses and condensed milk Richert biltyl, hest and power Printing and publishing Other industries	Artificial trone. Butting diseased mill. Loakine goods. Chatter goods. Other industries.	Jackson county Bread and other bakery products. Butter, cheese and condensed milk

TABLE NO. 2.			1			-	Wage-Earners Employed	ers Em	ployed		
	iq	p	Detroi	oqi		Ave	Average Number	nber	40	20	90
Counties and Industries	Number of remainships	Capital Investe	Moote to sulaV eu elabotam	Amount of wat paid during	glaser ogenerA againtee	solate	Fernales	Both sexes	dmun teolland	Greatest numb	Value of produ
Buttons, pearl Printing and publishing Other industries	tatete	38,844 44,500 135,771	18,711 9,612 85,239	25,846	601.07 678.44 737.32	222	00	222	第四篇	59 118 61	46,564
Apper county Apper county Apper county Richte and time Richter inch, hast and power Richter inch, mat and power County and machine-shop preducts County and machine-shop preducts Amber and disher preducts Amber and disher preducts Rites and advertising novelies Signs and advertising novelies The production The production	#4uu44uuau45	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2,012 6,236 64,736 66,736 196,706 16,346 1,201,346 1,201,346 1,201,346 1,201,346 1,201,346 1,201,346 1,201,346	25,142 25,142 25,118 4,003 109,549 19,713 19,713 18,610 424,906	25 25 25 25 25 25 25 25 25 25 25 25 25 2	¥4世紀-日日初末○書命	+ +	24244日日日日日日	2 -2-2-23222 2 -2-2-23222	200mm 100mm	048,00 14,000 14,000 140,000 1
Afficence rounty grant and plantage of the products Frick and sile Frick and smoking	#unun+un	2,008,912 1,008,904 18,000 17,000 17,000 18,	1.855 Atts 2.857 111 3.587 113.683 7.989 5.408 66.601	261, 261 261, 261 261 261, 261 261, 261 261 261, 261 261, 261 261 261 261 261 261 261 261 261 261	2017 2017 2017 2017 2017 2017 2017 2017	100 + 10 T = 0 E	\$- T	200 24 200 200 200 200 200 200 200 200 2	38120-7-04	選択し出本名の 製	
Althouse county Althouse county Althouse and other products Althouse and the sales wiston Althouse and the sales wiston Position and publishing preparations Position and publishing and fragility incommittee Althouse care and fracebing	-	214,500 13,200 13,200 16,400 214,500 100,000 1,300,000 1,300,000 1,300,000	14.4.4.5.00 10.6.4.4.00 10.6.2.5.00 10.6.4.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	25, 50 20, 50 20	200 8 200 8	900 4× 200	8- E-	第2048台は	\$200 R800	Est-stau	26,081,081,1 20,083 21,000,01 20,000,01 101,483 101,483 101,483

1,291,815 386,811 470,663 8,817 121,024 304,540	664,008 22,469 196,005 159,680 15,081 139,625 139,132	## 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	20年2日 - 1 20年2日 - 1 20年2
\$62°°78	508 x x 28	Eussa	# # # # # # # # # # # # # # # # # # #
Bun 62	101 01 01 01 01 01 01 01 01 01 01 01 01	2 118	では、 1. 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
결정교-작업	F-E-cot	SUEER	20 20 20 20 20 20 20 20 20 20 20 20 20 2
20 27	1-11 21 22	10 01-0	2 0 N N L
ECH-製品	Endauer	SHREE	1.282 47-122 22 22 22 22 22 22 22 22 22 22 22 22
12 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	を を を を を を を を を を を を を を	200 200 L 201 200 L 201 201 201 201 201 201 201 201 201 201	### ### ### ### ### ### ### ### ### ##
25 25 05 05 05 05 05 05 05 05 05 05 05 05 05	85,000 86	71,979 77,146 19,928 18,514 28,391	######################################
25, 140 5, 140 181, 180 181, 180 180 180 180 180 180 180 180 180 180	176.271 176.271 176.271 176.271 176.272 176.28	92,027 9,101 853,310 13,512 96,144	### ### ### ### ### ### ### ### ### ##
254,589 58,682 9,188 189,003 221,574	第《四部门集译 古智名第四章译	計画を発送され	
Suaund	Sensone	8.555	Zannananana-annanananana:
Jones county Agrentium a impenents Agrentium a impenents Butter, chees sack condensed milk. Mineral and socia water. Piritaing and publishing. Other fulustiers	Fookuk county Bread and other bakery products Break and illie bakery products Break and illie break and condement milk Program and grabe milk products Program and grabe milk products Other factories	Konstite county Brite and tile Butter cheese and condensed milk Printing and publishing Other intinstries	Agricultural implements Auto fires Auto fires Intel and life fires Builds and tile Builds and tile Counting on previous products Foundary and mediate-lens products Foundary and mediate-lens products Foundary and mediate-lens products Authority and mediate products Authority and mediate products Authority and wood just Paper and wood j

Ocurties and Industries Ocite and payer. Ocite and payer. Ocite and payer. Construction Construction Authorized and payer. Authorized and payer. Substitution Manual products. Enternal products. Enternal products. Enternal products. Enternal products. Enternal products.				stujuës Letto Lorgh	Ave	Average Nu	Number	aoquin	pot	10
Counties and Industries of Counties of Cou			Buling bled 50	erado yearl)			*	lorn	Į!	
fifty (fit for the fit for th				a IAV	solabé	Pennahos	Both sexe	a sollant	mun bestanti)	Value of produ
		40 00 00 00 00 00 00 00 00 00 00 00 00 0	5114 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		· · · · · · · · · · · · · · · · · · ·	2 uzon 68 Kaoun 88-32 8	# # # # # # # # # # # # # # # # # # #	201100 E00100000000000000000000000000000	1,600 000 000 000 000 000 000 000 000 000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Cherrical (fully, heart and power Other indouveries Learns county, 12 Learns county, 13 Learns county, 13 Learns county, 14 Learns county, 15 Learns county, 15 Learns county, 15 Learns and inserviole.	Sid at	**** H***	24,000 Mg	2,0077.69 1,0077.69	00X 45	40 M W	*** EE	- S- #	- TE 20	251, 121 251, 121 351, 121 351 351 351 351 351 351 351 351 351 35

	275,242 275,243 36,855 104,978	67,058 15,700 51,349	18.18.18.18.18.18.18.18.18.18.18.18.18.1	1,013,488 40,298 40,298 46,690 64,589 41,888 41,886 41,886 41,285	28, 579, 4 28, 778, 8 21, 87, 8 21, 87, 8 21, 87, 8 21, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13	28, 751 28, 581 28, 581
	2812	200	製造されたおよき屋	答い立在にいいた。	1,800 13424525333454 134454535333454	B 22
- 0	×1112	77.0	田名に出し口い古芸	1 22200208	第115日表8821-015日8	Nubbi
	2222	Stele	発展は扱い立つなど	製のは日はいのおり見	# nexade asset	2-22
	SERVE	77	51 THE	H 10 12	E+1-5- uo E	S 45
	SEE	2001-	Bunzauzas	質の自然ないのとの目の目	1000 1000 1000 1000 1000 1000 1000 100	Name to
	1,005.17 1,005.00 766.00 766.00	820 86 320 86 1,106.85	######################################	#81884848 #81884848 #818848488	200 200 200 200 200 200 200 200 200 200	828.00 878.40 702.14 619.85
i	48,248 24,740 9,198 14,310	3,648	28.28.28.20.10.00.10.28.28.28.20.20.20.20.20.20.20.20.20.20.20.20.20.	8 278 488 488 488 488 488 488 488 488 888 8	944, 543 8, 492 118, 543 119, 643 143, 442 173, 442 194, 578 194, 578 196, 549 196, 549	4,182 4,182 9,80 27,88
	250,736 250,736 0,634 M,206	19,418 2,700 18,739	# # # # # # # # # # # # # # # # # # #	第一部日曜日に 。 第 日前日曜日 200 日 200	81.12, 1. 80.111, 1. 8	18 19 19 19 19 19 19 19 19 19 19 19 19 19
7	311,885 92,000 88,540 184,345	81,900 17,130 64,730	28,178,1 28,281 28,281 100,21 28,280 28,280 28,280 28,280 27,186,1	20 00 00 00 00 00 00 00 00 00 00 00 00 0	40 12 12 12 12 12 12 12 12 12 12 12 12 12	25, 200 25, 252 26, 252 26, 252
ì	2000	40 25 25	Founnated	Билининово	#nnunnennkn=	#uan
· · · · · · · · · · · · · · · · · · ·	Lyon county Dutter, cheese and condensed milk Printing and publishing Other industries.	Mathon county Printing and publishing Other industries	Mahaka vounty Bried, and other bakery products Bried, and other bakery products Bried, and the Total control and an and an analysis of the ana	Metron county Artificate droot and the bakery products Bricks and this bakery products Bricks and this bakery products Effects and this faction and materials Effects in this have and power Printing and publishing Printing and publishing Other industries, and smoking	Mosball county Read and flow blazy products Butter down and exhary products Butter down and confidence of the confidence of confidence of confidence of the confidence of t	Mills county Piora-mil and rise-mil products Printing and publishing Other industries

TABLE NO. 2.		-	-				Wage-Earners Employed	ners Eu	paloidi			
	1935	pe	pare	(34g) (000)	-	Average	age Number	pler	100	234	401	
Counties and Industries	Number of remtelidates	Capital Investo	Value of stocker statestant	Amount of was paid during year	Average yearly earnings	mola M.	Formalos	Both sexes	datun mollami	dmun teetaert)	Value of produ	
Mitchell county Prescribes Recal and other bakery predices Instear cheese and condensed milk Fluerenill and grid-mil prosteries Printer and publishing	Sen- uan	2017.2 001.2 000.2	515,518 3,738 447,826 21,400 13,520 28,530	14,687 10,163 14,215 8,906	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 2000	15	古 五十四年	# Mulls	t: nan	111, 112 057, 6 057, 112 057, 84 051, 04	
Monous county Printing and publishing Other industries	200	42,100	72,919 7,021 165,818	7,164	74.8 70 097 90 824 92	青一前	1010	七四日	212	8118	215,145	
Mouroe county. Totaling and publishing. Tobacco cigars and smolding. Other industries.	Bere	200, 147 24,000 115,629 115,219	21,078 21,078 203,475	40,451 6,914 11,655 22,000	688.98 691.06 627.15	3*22	90 0110	2222	おそれれ	Ran-	414 805 24 805 34 573 344 530	
Montanumy county Antificial stone and others From and other ballety products From and their ballety products From and their ballety products Products and modeline-aboy products Printing and publishing	************	20 00 00 00 00 00 00 00 00 00 00 00 00 0	26 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 AS	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	育さしの会工の資	1 4 4 97	2011年末日11日	Franktak	\$\$nepset	2,425,000 1125,800 11,173 447,173 530,615 530,085 5,608 1,238,102	
Amenative county Amenative county Minacipal airon Minacipal airon Minacipal	Sugar	2,402 117,511 12,512 118,511 1	所。 第2 第2 第2 第2 第2 第3 第3 第3 第4 第4 第4 第4 第4 第4 第4 第4 第4 第4	11 12 12 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	1828118881 1828818888	BUS - 42 - 10	3 - Es -	40Ho.48Ha.4	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	201,8 201,8 201,0	8 10 10 10 10 10 10 10 10 10 10 10 10 10	

186,285 28,080 18,000 18,000 11,000 11,000 18,000 18,000	7,580,609 13,633 276,004 982,000 7,000 38,689 80,216	28,322 9,640 79,460	20, 257, 277, 1 20, 207, 207, 207, 207, 207, 207, 207, 2	697,886 474,778 11,579 211,579	1,786,080 21,145 3,413 37,021 1,429,185 47,129 4,630 170,529
HBr. otal	N2221-88	20-8	東日中の一年の日本	22.8	\$ - 13 n 1 - 5
HE SHR	8 = E = E = E = E	일이구단	Z2H -8-"8	827-8	Fe-88-2
1120×131	H-18-118	Fuall	Bus k-skil	2200	F=======
NT 1-25	1 1	1	g = E	99 79	
製造のいな製品	5458-38	8448	Essu-Paus	82.4	50 c c c c c c c c c c c c c c c c c c c
36834 36834	26623311 8888811	778 44 240 00 650 00 774 47	######################################	1,023 64 10,023 64 101,20 10,438	25 25 25 25 25 25 25 25 25 25 25 25 25 2
25 25 25 25 25 25 25 25 25 25 25 25 25 2	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	16,264 16,264	25,525 25	21 22 22 22 22 22 22 22 22 22 22 22 22 2	2,130 2,130 8,586 8,586 32,196 11,574 13,574 10,040
23 = 0 × 10 0 M 21 00 50 00 00 M 21 00 50 00 00	## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18,981 18,923 171,2 181,78	25, 10 20, 10 20 20, 10 20 20, 10 20, 10 20 20, 10 20 20, 10 20,	645,094 450,094 1,72,101	1,86 \$13 1,968 1,968 1,968 1,186 1,186 1,186 1,180 1,1
82 52 52 52 52 52 52 52 52 52 52 52 52 52	28,000 28,000 28,000 28,73 28,73 28,73 28,73 20,000	72,214 13,500 57,234 57,235	1,783,562 316,583 17,100 17,800 81,573 80,563 90,963	247,009 42,960 21,280 166,549	28, 287 20, 280 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,
nnnnaaa	Futues	wnen	#manuauus	20+0	Zummmm-m-
Leather goods. Marbier and titule products. Marbie and titule products. Marbie and stone week. Without and oods water. Without and publishing. Other indicators.	O'Theira county Artiflets since and Platter, choses and condensed milk Plour-mill and grid-mill products Loadber goods Printing and publishing Other inflations.	Osceola county Electric light, heat and power Printing and publishing Other industries	Pewe count of Pewe counts Pewe counts Pewe counts of Pewer and other bakers products. Founds and some counts and some counts. The printing and pullshaling Pewer Section 2017 Pew	Palo Alto county. Butter, cheese and condensed milk. Printing, and publishing. Other industries.	Pyrometh county Bread and other bakery preducts Confectioney. Electric light, host and power Electric light, host and power Leather goods. Leather goods. Leather goods. Toblishing. Other industries.

TABLE NO. 2.			pu	or a				CHARTS E.	niployed		
Counties and Industries	Number of taenthelidatee	Capital Invested	a shots to outsY been statistican	Amount of wager th sultub bind the sultub binds	Average yearly earnings	Males	Pennahos Namalos N	Both sexes	sodmin sedlens	Greatest number	
Pocahontas county. Printer, choses and condensed milk. Printing and publishing.	Fue+	1,005,300 1,008,300	1180,876 41,885 6,413 77,977	0.2,730 9,478 61,188	1,074.17 910.00 789.83 1,162.91	E=23	N (0)	5.22	Sule	8412	
Polk evanty Awnings, torist and sails Blackfor, charating and polkeling preparations. Blackfor, charating and polkeling preparations. Brokel and other bakery products Brokel and title	Buurt.	141, 119, 52 110, 183 170, 83 128, 404		7,809,708 16,133 2,347 2,345 113,046 250,633	608.AT 674.50 674.10 674.10	38.25	資金では	Nau Ba	FR THE	01.0 03.4 03.4 03.4 03.4 03.4	8 "
Veocras Uttler, cheese and condensed milk Authing and preserving Authing and preserving Authors, watgoing and materials The breader and construction	*****	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 200 200 200 200 200 200 200 200 200	00 H 10 H	20.00 20.00	94485	aba*	18480	14888	NA SEE	HEREL
lodinia, men s onfectionery opper, itn and shoot-fron products shryman, a palacies' and poultry supplies	ne Sui	36,165 204,684 229,217 83,800	015,511 676,623 119,022 199,199	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	245 900 900 900 900 900 900 900 900 900 90	SILE BR	125-	M 25 2 2 2	2 2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	201 201 201 201 201 201 201 201 201 201	12
ogansty and manuscatop products. urnishing goods, men's urnishe and refrigerators.	2000	2,491,938 100,878 101,843 186,569	44,940 118,881 118,880 118,880	256,143 54,130 54,130 5,	806.09 876.61 298.90	F8.88	1830	Ē888	303	8285	2,343
as, intrinsinating and bearing. Ioves. Take and Cape. Or, manufactured.	nenam.	114,080 114,080 114,080	85,010 86,881 870,38	10 148 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 1	2000 2000 2000 2000 2000 2000 2000 200	SERE	220	Zzss	五年成初	8988	
anther goods, anther goods, and the products, darbie and stone work Astronom and stone work Martensom and stone work Martensom and stone work Martensom and stone work Martensom and stone work	N + C + M		IN THE SECOND	F. 1157 201.00 2	28 28 28 28 28 28 28 28 28 28 28 28 28 2	-Sine	7 9	- HERR	sellss.	128212	7
Training goods. Takent medicines, druggists, preparations.	ang	1,400,310	10 10 10 10 10 10 10 10 10 10 10 10 10 1	34,067	619.08 672.30	252	17.	HM2	nas	A = 1	100

4,180,128 81,128 101,208 171,008,1 11,008,021 81,028,021 7,533,06	6,891,180,0 28,811 28,812 194,036 194,	29,000 29,000 28,111 120,211 12,112 12,113 12,113 12,113 12,113 13,113 1	891,018 153,902 186,086 17,000 17,000 17,000 18,603 18,603 18,603
100,1 11,00	4 252230000000000000000000000000000000000	\$-8888	著作业といっな合
Facaleta.	2 2 2 2 2 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3	Accord and	F8040056
Naszze, W	SPECTAR PROPERTY SECTION	Patrick June	ER+++85
B-== 8	0 1 0 5 Mil -02078	804 804 FB	1 1 0 m
E-rata-8	東京の名は東京大阪の名は一名本の工芸	24 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	58404415
88 81 81 81 81 81 81 81 81 81 81 81 81 8	209 200 200 200 200 200 200 200 200 200	641.00 648.31 858.31 724.00 774.11 778.60 1286.00	786.55 745.65 745.65 776.78 776.78 776.78
786,885 6,402 77,181 60,500 186,673 8,988 1,010,14	1,807,707 20,872 27,160 27,160 27,160 21,250	4,000 11,000 10,	24 11 12 12 12 12 12 12 12 12 12 12 12 12
2, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2	2,111,500 10,000	7,041,884 158,840 170,021 28,706 836,496 84,007 1,017	\$61.47 \$5.50 \$5.50 \$15.90 \$1.435 \$1.4
10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2000年2000年2000年2000年200日 2000年2000年	2,000,28 10,070 10,070 10,000	825,176 8,285,80 9,285,80 9,00 10,00
BANANENS	Eunauraunausus	Southern Butter	Zanana5-
Printing and publishing Remedies, stock and prolifty Signs and advertising proveities Signs and parts. Signs and parts. To show a departs. To show a distribution with the stock in the sto	A Tropic at a state county Articulus of state a state of	Preventible country Proventible country British and other bakery products British and tilts Printish cheese and condensed milk Printish cheese and condensed milk Printish cheese and condensed milk Printish and publishing Observed and publishing	Sac county Artificial stone Butter, choses and condensed milk. Confidensery Foundry and machine-shop products families and turber products Printing and publishing.

7,177 20,578 10,578 10,565 10,566 10,	858,566 47,880 1186,784 120,888 100,888 100,888 110,888 111,120 4,730 4,730 111,130 240,871	1,001 28 18 18 18 18 18 18 18 18 18 18 18 18 18	20 M	28, 81, 13,964 18,192 18,192 180,738	21,212 21,213 21,213 21,214 21,214
200年のロー気力	26 e H H H H H H H H H H H H H H H H H H	#-88E-#B	多製品	\$-85±	28×-×
1-46re HB	E 2000-E- 32	30000000	Sus	250 200 300 800	7 ×-0
行二の主の日一日の	在日本祖祖中第四 22日	デュおエピュ出谷	228	J.z.E	25 mm
2 -1 - 6	2 - 128	M 00 00	11 9 9	7 7	
51-5×0-18	20-200-20 23	F-NIE-IE	801	10 mm	250-0
765.00 703.45 828.23 889.23 889.23 814.80 814.80 815.40 740.53	21128 21128	825 82 82 82 82 82 82 82 82 82 82 82 82 82	638.00 548.87 566.19	546.86 575.88 586.83 586.83 586.83 586.83	512.17 512.17 512.17 510.08 510.18
700,819 21,718 32,711 32,711 31,464 8,1464 116,211 116,211 116,211	18,841 2,146 10,304 10,900 10,900 11,711 808 20,24	117,848 11,942 11,640 8,065 11,967 14,713 83,840	世間に	26,140 1,640 16,134 5,907 367,738	77,167 8,194 8,402 890 4,861
81118111111111111111111111111111111111	25.29 kg 4 2.28 kg 2.2	######################################	28,487	1,538 17,178 10,247	22,25 20,25 20,25 10,50
24 25 25 25 25 25 25 25 25 25 25 25 25 25	7.83,086 7,532 7,532 85,73 1,738 88,593 10,530 117,820 117,820 117,820 117,820	102 LES 9 600 10 257 10 250 80,033 202,488	18, 88, 88, 88 81, 18	\$49,132 6,900 70,515 8,900 463,137	25 12 12 12 12 12 12 12 12 12 12 12 12 12
Foundation	Suunannunta	Puesere	250-10	Sucus	Zuan-
Sioux county Artificial stone Butter cheese and other bakery produces Butter cheese and output bakery produced Butter cheese and output bakery before and Betretie light, heat and power Fourarial and grish-mill and grish-mill and grish-mill and grish-mill and grish-mill and grish-mill and butter goods. Priguing and probleming	Story county Avillabia store Breks and other bakery products Breks and the bakery products Conferedoury Conferedoury Four-mill and gris-mill proser Four-mill and gris-mill proser Four-mill and gris-mill products Four-mill and gris-mill products White and publishing.	Francourty and control share control share control share control share and other bakery products Bride and the Bride and condensed milk Canning and prosecting and conserving. Printing goods. Printing goods.	Taylor county Printing and publishing	Union county Areificial stom Printing and publishing Thisbook, eigers and smoking Other industries	Van Buren county Briks and the Prenting and publishing: Tolkneco, clears and smoking Other industries.

Average Number of Countries and Industries Countries	FABLE NO. 2.			71				Wage-Earners Employed	ners En	padoidi	1	
Total property of the property		9110	po	pos pere :	orti orti	4	Aver	age Num	ber	pet	20q	100
Company Comp	Countries and Industries	Number of establishme	Capital Invest	doose to sola?	Businp pred	Passy ogaristA egnintas	solaht	Pennles	Both sexes	mua teellems	mna seoteoto	Value of prod
1 1 1 1 1 1 1 1 1 1	Wapello constry. Vapello constry. sod and other bakery products the fact alle titler, disease and construction titler, disease and construction microlinery and machine-shap products microlinery. microlinery and machine-shap products microlinery.	Suunnununge	PHRIN SEC		######################################		S HUBERT S REES	4 4 4 73 9 9 28	Panassini.	2006 150 170 170 170 170 170 170 170 170 170 17	美麗田田田田田田田田	22515 1022 2320 4115 2320
1	and an annual produces level and solds wister stored and solds wister show, class and modified Wer and substress The production of the pro	1111-7-8 20			21 10 11 11 11 10 10 10 10 10 10 10 10 10		1.055 #=	000 000	1,176	-uss ga-	The Parkets	82 E E E
Total Control	the Industries. Washington county Washington county Washington and power. The Country of the same and power. Washington and sidene write.	a Fannat					E SHELDS	12 OF	= 345-45	n ganna	a gar-a;	857, 28 84, 129 84, 129 88, 120 88, 12
東京 ただっ はら 一年 中 中 中 中 中 日 日 日 日 日 日 日 日 日 日 日 日 日 日	Wayne county and and other bakery products men and and solds waters waters and publishing we industries	Zunna	11,480 1,450 9,100 88,788 13,788	418,817 8,887 8,700 8,700 418,612			Tour-B		\$777E	200 1-10	27722	
	Webster county and and other bekery products this and the other set open and the	Sulla					51281 1	ğ	9=5=	7.215 150 150 150 150 150 150 150 150 150 1	THE PARTY OF	を対す
	The repairs and construction Confectionery	11	575,62	57,572	219,506	1,045.26	210	17	281	28	33	76,488

76,438 70,154 78,968 2,075,788 9,483,094	646,700 461,700 126,766 26,753 31,782	1,827,810 647,029 10,830 180,799 829,182	4 17 100 100 100 100 100 100 100 100 100	11,386
05 25 H M M M M M M M M M M M M M M M M M M	22222	811.87	6 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.00
88 711118 88	\$2005+	F8482	26 20 20 20 20 20 20 20 20 20 20 20 20 20	200
Sannage	REMES	高智。··邓 日	18.58 18.58 19.59 19.50	200
7 7 7 388	18 18	M - NW	28 No.82 Local L. 5.05.2 4	1
Sauna 68	42818	SNuda	######################################	202
1,045.28 490,46 915.00 785.30 891.89 989.42 701.66	606 48 1,139,30 584,00 940.92 697,90	28.867 680,62 57,069 67,070 89,070	######################################	729 00 919 57
219,000 13,733 21,145 9,949 49,946 49,946 49,546 800,834	14,811 10,291 10,291 10,291	10,000 10	14,000,180 200,000 200	3,645
57,572 38,118 38,616 38	11 28 28 01 12 12 12 12 12 12 12 12 12 12 12 12 12	新 新 第 第 第 8 8 8 8 8 8 8 8 8 8 8 8 8	## ## ## ## ## ## ## ## ## ## ## ## ##	3,575
59,574 170,000 165,770 249,296 1,935,534	100, 201 41,928 116,015 32,662 12,386	2,151,457 40,572 7,830 298,830 1,814,445		SES SES
unones	Spuen	Freed	Sinanundanunundanas Su	100 HD
Confedence and construction. Confedence was a machine-shop products. Pains and varies. Which plant on the plant of the pla	Winderpooling county Winderpooling Butter choose and vondened milk Cantog and preventing Christing and publishing Other industries	Winneshiek county Butter cheese and condensed milk Mineral and selds water. Printing and publishing Other industries.	In Wood play rounts y Wood but you want you wan	Printing and publishing Other industries

ABLE NO. 2.	R		p	-		W	age-Earners		Employed		
	spen	por	pos	uq3		Avera	ogo Number	ber	20	20	10
Counties and Industries	Number of establishme	Capital Invest	Value of stock us statisticals us	here period	charc operary egularies	solald	Pomalos	Both seases	dmun teoliem8	danua seoleosi	npoad to onteV
Wight county There is a contract of the contra	# annux a	28.00 20 20 20 20 20 20 20 20 20 20 20 20 2	121 525 121 525 121 525 122 525 123 52	## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#188 PE 188 PE 1	£2.850.8	- 0	£4×85×8	Bu.E=	\$40,524	200 200 200 200 200 200 200 200 20 20 20 20 20 20 20 20 20 20 20 20 20 2

TABLE NO. 3-WAGE EARNERS BY MONTHS.

	October	100mm 10
SUA.	September	在6.000 · 10
100	yngner	\$6244#86"95046"68966+00-\$6866436#8885"
Seconding.	Amr	· 表现的现在形成的"自然中国的一国际中国过多日二一自然是是不多本面的的目标。
10.4.1.	eang	5052217 P. 2 8 7 17 8 3 - 17 2 2 3 17 8 4 17 8 2 17 8 17 8 17 8 17 8 17 8 17 8 17
Suring	yahi	888年日888~日本の東京一部西日東日本日日 白藤田女日本世紀日本日
Mourino, 1	gudy	表記を任実とはなった。 「 は は は は は に は に に に に に に に に に に に に に
	dotate	Carata a service
142. 07	Pebruary	######################################
.common	Samuel	· · · · · · · · · · · · · · · · · · ·
Total I	Average beyoldme	在2000年12日 - 12日 -
na fordamen months	Industries and Per	Na Market Na Market Na Market Na Market Personale Personale Market A stricted strone Market Market Market Personale Pers

	-												
Industries and Sex	Average number employed	January	February	March	April	May	June	July	August	September	October	Covember	December
Bread and other bakery products Males Females Brick and tile Males Females Brooms Males Females Brooms Males Females Butter, cheese and condensed milk, co-operative Males Females Butter, cheese and condensed milk, private Males Females Buttons, pearl Buttons, pea	1,599 1,071 528 3,083 3,081 2238 463 767 767 2,176 1,157 1,157 1,157 1,157 1,157 1,157 1,157 1,157 1,157 1,157 1,157 1,157 1,157 1,157 1,157 1,146 1,147 1,146 1,147 1,146 1,147 1,146 1,149 1,222 1,2	1,566 1,102 464 2,455 1 247 172 75 75 408 404 4 824 726 98 3,305 2,036 1,269 481 333 151 38 13 699 684 11,850 11,850 11,019 1,019 1,019	1,587 1,059 528 2,569 2,568 2,569 2,568 394 4 814 717 97 3,427 3,427 3,427 3,427 3,427 1,228 471 316 133 693 681 12 12,036 14 1,078 1,078	1,611 1,076 535 2,955 2,955 2,955 404 4 831 732 99 3,163 1,961 1,202 516 342 174 51 1,174 1,159 11,741 4 1,159 1,159 1,159 1,159 1,159	1,642 1,091 551 3,452 3,451 1,155 78 417 413 4,933 793 140 2,907 1,726 1,726 6,83 13 14,158 11,412 11,407 1,158 1,158 1,158 1,158 1,158	1,623 1,076 3,429 3,428 11 245 170 75 440 435 5 1,045 861 1,643 1,113 570 401 11,348 11,343 11,343 11,343 11,343 11,343 11,345 1,186	1,620 1,974 3,317 3,315 447 1,122 942 1,598 1,508 417 149 55 1,092 1,508 417 149 55 1,092 1,508 1,513 1,548 1,214	1,599 1,069 1,069 3,447 3,445 2 214 144 70 456 6449 2,603 1,511 1,052 659 501 11,052 660 13 11,576 11,951 1,195 1,	1,619 1,085 ,534 3,480 3,478 451 147 778 451 145 6 1,087 936 151 1,181 1,784 1,171 1613 54 1,171 171 171 181 1,784 1,171 1,181 1,171 1,181 1,171 1,181 1,171 1,181 1,171 1,181 1,181 1,181 1,188 1,188 1,188 1,188 1,188 1,188 1,188 1,234	1,624 1,094 530 3,352 224 155 69 427 421 6 1,038 887 151 2,743 1,607 1,136 6,014 3,733 1,511 2,236 54 39 12,097 12,097 12,097 12,097 12,097 12,097 12,097 11,184 1,183 1,184 1,184 1,184 1,184 1,185 1,184 1,185 1,184 1,185 1,186 1	1,565 1,043 3,185 3,183 2,25 1,54 402 6 1,021 1,021 1,021 1,118 2,538 1,550 988 51 1,77 1,179 1,	1,509 1,027 542 2,847 2,846 1 1222 155 6 67 400 304 6 1,056 934 1,189 964 1,189 964 1,189 964 1,189 964 1,189 1,22 1,396 1,23 1,23 1,23 1,23 1,23 1,23 1,23 1,23	1,555 1,059 2,499 2,499 233 100 77,399 3,016 1,018 899 3,016 1,838 1,178 50 30 1,018

territoria de la companya del companya de la companya del companya de la companya				2.2	2	249.7	200	and t	200	Time 1	100.1	200	***
Coffee and spice, roasting and grinding	135	135	134	137	137	138	133	135	134	137	132	134	135 62
Males	65	67	67	67	66	66	65	56	65	65	62	62 72	73
Females	70	68	67	70	71	72	68	69	* 186	72 185	70 186	186	188
Coffins and undertakers' goods	186 153	183	186	189	183	182	188	188	152	151	153	154	155
Males		152	155	156	151	149	156	154				32	33
Females	33	31	31	33	32	33	32	34	34	34	33	1.905	1.810
Confectionery (including ice cream)	1,731	1.589	1,602	1,603	1,614	1,629	1,631	1,694	1,768	1,940	1,981	719	683
Males	704	612	620	639	666	675	735	758 936	785 983		1.224	1,186	1.127
Females	1,027	977	982	964	948	954	896		131	1,151	129	1119	118
Cooperage and wooden goods	117	78 78	165	116	110	112	123	130	122	121	120	110	109
Males	109	18	105	107	101	103	114	121	123	121	9	9	9
Females	8 474	500	201	499	468	449	459	454	442	440	463	474	510
Copper, tin and sheet-iron products		522 494	504 476	473	442	425	435	430	418	416	435	446	486
Males	448 26	28	28	26	26	24	24	24	24	24	28	28	24
Females	189	121	121	214	256	262	200	221	198	207	184	168	120
Crushed rock and stone	188	120	120	213	255	261	199	220	197	206	183	167	119
Males	100	120	120	210	200	201	133	-220	121	200	100	1	1
FemalesCutlery and tools	102	96	97	104	104	100	100	101	100	101	111	102	102
Males	92	88	91	98	99	95	91	90	90	89	94	88	91
Females	10	8	6	6	5	5	9	11	10	12	17	14	11
Dairymen's, apiarists' and poulterers' supplies	241	278	318	432	207	227	217	184	172	173	184	189	225
Males	234	271	311	425	290	220	210	170	166	107	178	182	218
Females	7	7	7	7	7	7	7	8	- 6	6	- 6	7	8
Electric light, heat and power	2,388	2,249	2,164	2,359	2,321	2,354	2.472	2.600	2,561	2,438	2,440	2,401	2,298
Males	2,363	2,226	2,141	2,336	2,297	2,330	2,448	2.576	2.536	2.412	2,413	2,374	2,267
Females	25	23	23	23	24	24	. 24	24	25	26	27	27	31
Flour-mill and grist-mill products	475	475	474	468	470	474	467	457	459	463	487	496	505
Males.	465	465	464	460	462	466	459	448	449	449	474	484	493
Females	10	10	10	8	8	8	8	9	10	14	13	12	12
Food preparations	3.043	3.018	2,728	2,634	2,642	2.807	2,855	2,903	3,043	3,052	3,443	3,465	3,932
Males	2,444	2.442	2,182	2,103	2,159	2,324	2,315	2,305	2,383	2,382	2,753	2,753	3,228
Females	599	576	546	531	483	483	540	598	660	670	690	712	704
Foundry and machine-shop products	9,292	8,011	9,277	9,678	9,313	9,271	9,106	9,007	9,124	9,351	9,662	9,432	9,310
Males	9,119	8,743	9,112	9,495	9,144	9,096	8,941	8,899	8,959	9,184	9,487	9,240	9,128
Females	173	168	165	183	169	175	165	168	165	167	175	192	182
Fur goods	213	253	245	233	196	178	166	153	160	203	228	254	282
Males	104	136	133	1.29	103	94	90	73	71	82	96	108	135
Females	109	117	112	104	93	. 84	76	80	89	121	132	146	147
Furnishing goods, men's	180	155	158	158	185	183	185	183	194	197	191	193	180 29
Males	27	24	24	26	28	29	28	27	27	27	26	29	151
Females	153	131	134	132	157	154	157	156	167	170	165	164	951
Furniture and refrigerators	912	912	928	955	238	875	903	882	920	870	902 877	915 878	909
Males	894	897	916	943	926	863	890	869		855	25	37	42
Females	18	15	12	12	12	12	13	704	712	681	658	658	624
Gas, illuminating and heating	657 643	593	589	604	646 634	677 664	720 703	691	699	667	642	636	606
Males		581	12	12	12	13	17	13	13	14	10	17	18
Females	14	4.2	1-2	1 64	1.2	4.0	1.1	1.3	8.58	1.0	9.55	4.5	8.00

VRLE NO. 3.														
Industries and Sex	Average Average	Assenus _L	Kannaqaa	dorate	lingh	Auge .	ount	. King	smamy	asquiașdas	October	November	Decempes	
and electric fixtures and appliances.	108	110	112	310	100	400	100	400	-					
Pernales	第二	101	100	100	101	8:	68	100	101	111	100 No	100	100	
Malm	481	159	0	200	200	495	N CO	536	536	1100	14	H	117	
Females	368	220	368	100	104	111	116	110	110		115	H	118	
Males	22.5	121	21	12:	(6)	8	8	in the	100	220	ğr	NIN THE	288	
Vernales	150	200	H IZ	13	R	R	11:	127	n:	201	ä	121	12	
Maley and kills goods.	E	315	900	120	313	300	337	310	300	112	214	911	1 40	
Females	252	244	1000	257	200	200	17.00	12 5	21	E;	P.	12	70	
Make	22.0	2002	217	H	215	1	ñ	H.	436	340	280 248	201	Si	
Pemales	220	9	112	9.4	220	H.	346	330	504	H,	262	502	186	
Males	35	75	S	7	21	- 27	° El	9.0	10	- 11	98	97	97	
Penales		4	A	75	N.	SI	82	30	10	100	iii	112	22	
Make goods	5552	374	439	429	423	200	549	570	358	410.	200	1984	777	
Nemales	44	121	27.0	355	150	ij:	308	200	516	220	619	999	710	
mber and timber products	3,210	3,111	3,157	3,302	3,221	第7日	3,275	3,317	3,330	3.116	3 603	88	2 570	
Females	8	107	111	2,230	3,215	a, and	2,266	3,399	3,263	3,109	3,025	3,271	3,163	
Males	終月	101	12	S	12	H	325	30	27	75	97	11	1-1	
Pernales.		40	34	2	22	R	322	30	22	36	100	32	12	
Males	270	215	251	268	270	288	283	282	279	273	146	950	950	
Pemalos	9	200	200	in his	The second	227	277	278	273	268	265	264	200	
Makes	701	240	230	282	265	202	222	216	212	2002	90%	9 69 6	9	
Puttalon	22	388	200	214	237	207	198	190	185	178	180	187	1901	
Males And Soda Waters	210	191	1997	172	100	225	270	308	3115	340	183	300	100	
Females	99	140	101	168	180	222	2005	300	200	200	170	145	141	
Make	nti.	350	200	RE	111	-	21	77	-	30.	100	100	- 15	
THE REAL PROPERTY AND PERSONS ASSESSED.			- Landerson	Sania Par	1000	The state of	11111	144	-	-	100	127	200	

200 200 200 200 200 200 200 200 200 200	Fusin	48 10 10 10 10 10 10 10 10 10 10 10 10 10	288
88888	SEPUL	EB-62528423286281284.88022 E12888.885	188
250 250 250 250 250 250 250 250 250 250	101 202 212 213 213 213 213 213 213 213 213 21	明显。我想管开西全面超离在来。全区,今日日西西 智能者受到。2000年日	200
260 484 76 59 59	SKMII	多名。全名经验医力多需医疗费与西科人名的口言证 等等证明证。在5000年	283
28888	28422	2日。直至智智以被警察案在在中に出一回都口來來 哲問而是語。新述程	BH.
82888	EEREE	日日。各日間のおお屋屋ををまれたに。日本口宮屋 落至日間首、「紅色区の	91
88. 88. 88.	SESSE	日日日本在公司日本二部日日在第二十四日日日 日本文明日二年第四十二年第四十二十四日日 日本文明日本二十四日日 日本文明日本二十四日日 日本文明日本	RR
200 200 200 200 200 200 200 200 200 200	21222	日日日李嘉思日本古其其李经常古名。 声音 一定	12.23
MARKE.	22822		350
52288	EFERR	THIEREREIN THE STROKE AND AND SEES SAULES SEE	18
Stana	BUBBB	21、122 14 14 14 14 14 14 14 14 14 14 14 14 14	12.23
Sinaa	unna.	BE-selled files avence weeker-fee	-
Since	SANZZ	HE. RECENTERECOLNESSES BESES. HER	-
Musical instruments Anther Pennales Ols and greate. Mateir Pennales Pennales	Optical Poors Alata Pain Son Vernish Nation Pain Son Vernish Princip	Name and wood path; Nation Na	Females

recempes	200 200 200 200 200 200 200 200 200 200	200 600 113 113 113 114 115 115 115 115 115 115 115 115 115
November	22025 SESSES	22 SS-EBS4-286P
October	产业工程 8年8年8日日	250 250 250 250 250 250 250 250 250 250
September September	1,40 mm 1,40 m	28 154 118 28 0 8 12 8 8
penduy	FEE SES CHANN	FE MESSERANCES
Appl	gr. Sipasson	96 SE-SESE-2582
sent	25 - 15 25 2 X N T T	126 23。2322curate
May	SE-fisswar	88 88 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
BrgA	25 x 25 25 25 25 25 25 25 25 25 25 25 25 25	289 284 285 285 285 285 285 285 285 285 285 285
donald	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	88 88 4 8 H P S = 2 2 8 R
Reptmery	32.5.2.3.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	257 258 258 258 258 258 258 258 258 258 258
Lienner	************************************	880 885 885 885 885 885 885 885 885 885
embjoked unupes vasses	SH. SEESSHEE	250 200 200 200 200 200 200 200 200 200
TABLE NO. 3. Industries and Sec.	Makes Makes Makes Makes Pennales Makes Mak	Wall pleasures Wall pleasures Formation Makelon Washing methines Formation Formation Formation Formation Formation Formation Formation Montes Mon

TABLE NO. 4-WAGE EARNERS EMPLOYED.

Number Employed in Each Industry, December 15, 1917, by Sex and Age Classes.

	16 Yes	Over	re and	Und	of As		
Industries	Males	Pemales	Total	Males	Females	Total	Aegregal
Total for the state	81,888	10,563	72,853	245	243	495	78,780
Agricultural Implements Artificial stone Automobiles, bodies and parts Auto tires Awnings, tents and sails	1,387 443 67 272 37	24 2 9 1 21	1,411 445 76 273 58				1,412 446 77 274 58
Balcots, rattan and willow ware Blacking, cleansing and pollshing prep. Bloots and aboes Boxes, cigar Boxes, fancy and paper	108 8 241 26 25	37 1 177 49 107	145 9 418 75 132	10	12 2 6	92 9	167 9 427 73 138
Breas and bronze products. Bread and other bakery products Brick and tile. Brooms. Butter, cheese and condensed milk, co-op-	135 1,028 2,310 153 386	3 487 2 60 5	138 1,515 2,312 222 291	2 9 2 4 1	11	2 20 2 15 1	140 1,535 2,314 237 392
Butter, cheese and cond. milk, private Buttons, pearl Canning and preserving Carpets and rugs. Carpets, wagons and materials	919 2,361 462 34 631	1,403 213 12 26	1,044 8,764 675 46 657	7 1	78 12	85 13	1,046 3,849 688 46 657
Car repairs and construction	11,751 1,096 103 161 62	73 2 1,230 385 74	11,824 1,098 1,342 . 546 136		30		11,829 1,098 1,378 546 130
Coffins and undertakers' goods	181 660 126 813 117	1,089 11 21 1	184 1,749 137 544 118	3 4	10	3 14 2 1	187 1,763 137 546 119
Cutlery and tools. Dalrymon's, apiarists' and poulterers' sup. Electric light, heat and power. Flour and feed. Food preparations.	82 220 2,218 508 3,108	13 5 24 12 594	95 225 2,242 520 5,702	2 1 4	27	21 31	96 225 2,244 521 3,733
Foundry and machine-shop products. Fur goods. Furnishing goods, men's Furnishing and refrigerators. Gas, illuminating and heating.	9,086 135 27 897 601	186 159 150 31 18	9,272 294 177 928 619	10 4 2	1 0	10 1 13 2	9,282 295 190 930 619
Gas and electric fixtures and appliances. Gloves. Hate and caps Hosiery and knil goods Lee, manufactured	94 126 27 77 192	289 40 255 7	105 415 67 832 199	1 2	4	5	105 420 67 335 109

	10 Y	ors of J Over	Age and	Un	der 16 of A	Years	
Industries	Males	Females	Total	Males	Females	Total	Aggregate
Jeweiry. Leather goods Lumber and timber products. Math. Marble and stone work.	3,078	76 6	35 685 3,084 31 251	1 10 11		1 10 11	36 605 3,063 31 253
Mattresses and spring beds Minoral and soda waters Mirrors and glass Musical instruments. Oils and grease.	185 185 27 489 60	27 13 81	212 198 27 570 69				213 198 270 570 11
Optical goods Paint and varnish. Paper and wood pulp. Patent medicines, druggists' preparations Pens, fountain	13 135 163 88	21 11 282 70	108 13 126 445 158		3		112 13 136 440 136
Printing and publishing Punups Remedies, stock Serum, hog cholora Ship-building, incl. boat-building	3,120 458 86 91 11	1,072 12 7 11	4,192 676 93 192 11	56			4,085 470 50 100 11
Signs and advertising noveities siles and parts siles and parts staughtering and meat packing 50ap. Stoves and furnaces	279 101 5,604 51 367	204 2 486 16 10	383 103 6,162 69	14	2	2	382 102 6,177 69
Tobacco, cigars and smoking Vinegar (and pickles) Vulcaniting Wall plaster Washing machines	508 26 7 319 788	782 29		17	19	36	1,452 35 7 520 795
Wire work, incl. wire rope and cable	131 5 470	54 16 134	185			*****	185 21 604

Wage Earners, Classified by the Weekly Wage, by Sex and Age, Divided as to Industries. TABLE NO. 5-EMPLOYES BY WAGE CLASSES.

,00	or section to the section of the sec	Make, state that the Make and Make the Make and Make Make Make Make Make Make Make Make	Make whith the state of the sta	6 years.	your	204 Makes, adults and villow ware. 204 Makes, adult
Classif	Under 83	SERGE-				8+1-11
Classified Weekly Wages (For Week of Rouployment of	19 but under	25 E E E E E E E E E E E E E E E E E E E				20.40
dy Wag	sobnu tud 58 88	HERST-				ig n × n
es (Poe	sapun and 98	宣言を記れない。	\$1 mine in on		74 00	20-010
Week of	sobau sud 78	SEE STR.		-	*****	Hu40
Eniploy	sapun and sg	#15888H#			2 2	2-1-11
to them.	sobun 3ud 02		10.00 to	E27	Nº S	N-410
Orester	zspun ind 018	525 525 535 535 535 535 535 535 535 535	1010 0101	88	Men	2000
	soban 204 £18	が日一	22 -00	22	11333	28-
Number of W	\$12 but under	100 100 100 100 100 100 100 100 100 100	200 200 1 5 8 2	25.52	220	82
Wage Earners).	\$20 but under	ERE BE	88 80	2.3	00	1010
pers).	tovo bas cca	HE BH	22 82	late		1000

Class	Classified Workly Wages (For Week of Employment of Oreston	Service Com	es (Non-	Veok of	Kulper	minute our	200		to more as	Magnetic American	
ATMITTAN-ORAN	\$2 pm mqes	aspun suq es	8t per maque	25 par ander	tobau sud 88 88	seban tud 98	mban tud 018	apport and Sta	appun and 018	\$30 par ange.	доло рие спф
***							1	25.74	16.07		
100 400 31 31 31 31 31 31 31 31 31 31 31 31 31	212	29.9	228	202	to* St	484	ZNA	823	BE*	HH	12.0
*283	4	9 9	10 10	-11-2	0.00	10 10 10	9-8	onn	16:00	(N) (F)	
888	4 10	1111	8 8	福 第	12	2-2	240	Hee	22		
2880			-244	197.05	-	30 40 H	RR	RR.	22	16 16	22
		in a g	100	=====	212	-688	2,918	200	282	181	113
		m-		n-	200	98	100	800	2,005	102	278
- 監察室	-8-2:	100000			-8-X	280	-222-	-124	40-	BB	94
	SERV	140 40	*****	1-17 mm	eq.	Sign	22	EE	88	EE	138
2""E38#E2"=HE2#E3"				# # # # # # # # # # # # # # # # # # #	######################################	作っちゃら でからはなる。 なっちゃく であるのです。	######################################	######################################	#4 #4 #4 #4 #4 #4 #4 #4 #4 #4 #4 #4 #4 #	######################################	######################################

EE-	HR-	まなお	104 1	1212	122	1 252	20-	22 :		0101	88 ! !
122	200	888		168	3,113	· 188	227	対照時	==	17	±35∞
150	1,982	PEE.	22	255	5,117 5,050 58	540	282	ET.	181	L.8-4	888
H811.	828	1,300	gan.	BH"	2,065	1215	12.18	高松草	25 90 40	220	SHE
222	888	885	****	1111	400	nn .	202	202	C-400	500	Ess
288	22 E	25.55	01 01	83.50	146	e to to	188 281	12+12	-	00 00 00	1138
8==	282	Has.	+ +	37=	22.22	Mi	8"5	日の河	23 23	\$14 MP \$15	822
8"8	1885	anon'	****	×++	122	100.00	S+2	E-08	8-14	(-01201	18282
Z = E	1285	828	-0101	1000	04-	-0101	E.E.	2 2	8-8	00 344	40 H 0 H 0 H 0 H 0 H 0 H 0 H 0 H 0 H 0 H
Hee.	- 基於6°	°¢±8		90 04			Hen.	n n	50 NO	10 10	100
00 01 71	*****	2832		-		N/5 N/5	18° 18	80 0		10 10	1887
1110	278.82	*252					11 12	22 22			2-8
1,380	3,382 2,206 1,095	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2242	- 88 H	181,11	THE THE	and,	\$ E E E	132	SES.	2,130 856 1,259
Butter, cheese and condensed milk, private. Mains, adult Females, adult	40 4 4 41		Persons under 10 years. Carpels and rufe Salake Adult. Females, Adult.	Persons under 16 years. Carriagos, wagons and materials. Maless, adult. Fernales, adult.	Persons under 16 years. Car repairs and construction. Wales, adult. Fernicies, adult.	Persons under 16 years. Ceneri. Males, adult. Females: adult.	Persons under 16 years. Clothing, men's. Andes, adolf. Females, adult.	10	0 7	under 16 undertake dult.	Persona under 16 years. Confroitenery (Ind.) toe erean) Make, with the ereans Females, dult Persona under 16 years.

TARLE NO. S.	30	Classif	and Wee	kly Wag	Classified Weekly Wages (For Week of Employment of	Week of	Employ	ment of	Greatest	Number of		Wage Earners	ound.
Industries and Sec	Total number	Under \$3	\$2 par anges	robin tud 68	aopun ang og	Tobas 2nd 78	20pan ind 88	men sud es	\$10 par anges	apun ang EIS	830 appen and et	spo but under	JOAO PHE SES
Cooperage and woolen goods Males, adult Frankles, adult Frankles, adult Frankles, adult	250			0 0		91.01		40 40	nn	00	88	22	10.00
Copper, the and sheet-from products. Makes, adult Formalos, adult Portugue under the account of	BES .				mmm	5-11	10 to 4	1111	581	237	AR*	22"	22
Crushed rock and stone. Males, actult Fernales, actult Tremates, actual	88-						3+10		mm	"22"	101	22	RR
Cutiery and toole. Makes, adult. Fernance, adult. Department adult.	-BE-				09.00			\$10 YES	11.000	RH-	tala	22	tut-
Daltymen's, apparate and positerers' supplies. Make, adult Females, adult Unessee, adult	. E. E. S.	-	4.4	24.04	mm	1-010	10 415	-22	ng	981	H	nn	
Ricettic light, bent and power Make, adult Fremke, adult Fremke, adult Fremke, adult	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	nn	7	8 1	10 40 11	2200	O 100 mm	BH-	85*	\$ E	NE S	889	850
Flour-taill and grist-mill products Makes, adult Fernales, adult Persons under 16 years	392-	P3 P4	HE 09 94	Pirm.		****	AC PER CA	oc vo m	ES.	991	230	22	1212
Food preparations Makes, adult Females, adult Females, adult	4,144 3,400 215 20 20 20 20 20 20 20 20 20 20 20 20 20	Z124-	\$24	71127	E so Se	Husz	2000	150 153	218	220 220 110	1,6736	25.55	809
Foundry and machine-shop products. Maine, adult Foundes, adult Fornales, adult	11,530 11,208 200 19	00 0	22	8100	288"	12020	"正教報	222	256 223 36	1,968	4,801	2,544	1,881

18-1 (PP)	inn i	1221	22	nn.	(in m	tete ;	EF 1	00 :	2007	901
									-	
25	88	88	tota.	Ris	Eluq.	10	99	90.90	188	379
802 ×	88	85"	22-	RAR	ZD"	NO 06 00	288	nn	161 8	1,285
nun Brit	EB.	E8"	នន	SRN	KUB	882	85*	**	HHD	820 1 820
ina asa	ZER	85*	22"	222	2-2	*8%	- P4 P4		524	511 510 1
1 mm	83-	- 12 Z.o.	222	SHR	nen	502	1010		238	22
H-2 K-1	su-	[SEE	= =	T. 80			00 to 19	255
-2-6-8	122	F4		223		4-8			64-	\$ 9
	ments la	H 10 H 2 -		2=1-		3-3-		\$10 mm		921
3				12 12	01 08	3 3	1	61	09.09.09	
8-8		İIII		3-20					4G 04 0	000 -0
100 01	9			n n	Mİ			-	10	0.04
1887-258	2884	1878	188	SHS.	385	No. 20	820	22	× 28.8 ×	3,488
Roots. Permission and the control of the control o	100	initiating and heating c adult c adult c adult c adult c action c acti	resource and a parties and appliances. Males, adult for fittires and appliances. Fernankes.	Males, achili Permilen		removes united to year. Makes, adult. Perrado, adult.	Analysis adult Males, adult Organies, adult Organies, adult	dry Makes, adult. Females, adult	Persons under 16 years. Maker goods. Maker adult. Describes adults.	resons unter 10 years, ther and timber products Makes, adult Sermales, adult Operators inches 16 comes

TABLE NO. 5.	30	Classi	ged Weel	dy Wag	as (For	Week of	Employ	ment of	Greates	Classified Worldy Wages (For Week of Employment of Greatest Number of Wage Earnors).	T of Wa	go Earr	ers).
Industries and Sex	redutin latoT sportso-ogaw	Under \$3	29 pun anq 88	\$5 but under	20 pnr nuqos.	aspun and 78	20 mg mges	sopun and 6\$	\$10 par muque	218 par audor	\$30 \$12 pnr mages	\$20 par nader	30 YO DAM 528
Malt. Males, adult. Females, adult	88 88										88	100	
Persons under 16 years Marble and stone work Make, adult Fernales adult	325			1	04 64	44	01-1-1		0.1-21	828	117	H	800
Persons under 16 years. Materisses and spring beds. Males, adult. Females, adult.	25.5		-		7	20.00	21-0	F 42	25.22	882	28-	17	77
Persons under 16 years Mineral and soda waters Males, adult Females, adult	- 25 12 12	-	-	101	Na wa	0.00	II D ST	227	-222	16.88	139 138	88	
Persons under 16 years Mirors and glass Males adult	100		er and and		io i			DN .	P4 P4	66	SISI	44	
Persons under 16 years Musical Instruments Mahis, adult Fernales, adult	068				94	16	0.40	24 61	888	158	TI TI	113	
Persons under 16 years Olls and grouse Maleo, adult Manue, adult	28					64				nn	55	15	
Persons inder 16 years putest goods Personales, adult	** S \$54	ON OC	20.00	04 04	G1 1-01	68 at 100-4	850	NO POON	ST NA	254	20 500	100 has	
Perions under ad years Paint and varnish Makes, adult	14										13	-	

1-1-	138	t-t-	638 617 21	28 28	10	887	60 00	33	22	347	
00:00	20.00	101	1,053	33	10+0-	=2=	99	1212	ole ole	25 E	222
88	松卷岩	THE	970 109	181	18°c	224	88	210°	187	2,894	88 I
22.23	252	10 10	306 304	121	2%°°	F= 10 C1	22	800	100	1,805	22
1010	152.03	2002	1220	82.0	20 24 -4	77.0	1313	1012	m in	10 10 10 10 10 10 10 10 10 10 10 10 10 1	30 ac.
10 10	35 + 35	OI PI I'-	828	122-				8080		단물의	1- 1-
+ -	9-3	= i=	81 E	-10014				22.02		252	
62 61	2012	16 16	297 156 137	+1-+10				8-8		888	- -
T	2-8	-8 8	282	1400-				8021-		218	100 00
11	18 21	* H - S	325	2				2 6		422	90 90
	92 92	P-9110	Name of	400				0001-		=-8	9 0
Ħ		PO 84	2811	2				- 11-			
1881	2000	+8588	3,400	2442	101	138	22	217	362	6,735 18,93 4,835	288
Paper and wood pulp.	reginates, according to years. Persons under 16 years. Ratent medicines and druggists' preparations. Makes, adult Pennales, adult	Persons under 16 years Pers, Countain Males, adult Frenales, adult	Persons under 16 years Printing and publishing Males, abut Females, adut	Purpons under 16 years. Pumps Alales adult Fernales, adult	Persons under 16 years. Remedies, stock and poultry. Mades, adult. Females, adult.	Persons under 16 years. Serum, boy cholera. Tales, adult. Females, adult.	Persons under 10 years Ship-building, including boat building. Mades, adult. Femiles, adult.	Persons under 16 years Signs and advertising novelities Males, adult Fremales, adult Proposes, under 16 years	Silos and paris Males, adult Females, adult	Persons under 16 years. Stauphtering and meat packing. Males, adult. Funales, adult.	Scop Nakes, adult Water, adult Fremales, adult

TABLE NO. 5	30	Cla	W bouns	ockty Wa	Classified Weekly Wages (for Wesk of Employment of Oresinst	Work of	Employ	ment of	Orestes	Number	16	Wage Karners)	(9)
Industries and Sex	redmin late'f maka-epaw	Under \$3	sobnu and 88	70 but and 58	28 go par mages.	aspun and 18	aspun sing sig 80	appur mrqes	sopen and ois	appen and SIS	spin sud ota	\$20 per miqu	asyo hos 55\$
Makes admit Partitions Makes and furnitions Makes admit Partenness under 15 years. Percents under 15 years. Makes admit Percents under 16 years. Visualistic admit Percents admit Percents admit Percents admit Percents admit Percents admit Percents admit Percent under 16 years. Washes admit Percent under 16 years.	BB= BEgatao == -KE -85EE	8-22		20C-0 0 44 10	822 I	823-000 22 00 0	nn 200 2 2 ve nn 3	nu Matter 1 -1 12 13 12	190 Egg 400 00 Egg 400	EE- 255-1-5- 44 SH -255 SE	25 25 22 7 T 25 25 25 25 25 25 25 25 25 25 25 25 25	2001 111 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
Pernative addition. Pernative addition. Pernative under 16 years. Makes, shult. Pernative uttill.	S Not			79 79	0 10 10	17 10 10	4-4		g enn		-		
- 200070	670 671		3 3	2 9	9 9	202	7 7	373	2110	232	25	1184	88

TABLE NO. 6-DAYS IN OPERATION.

Number of Establishments in the State with Average Days in Operation During Year.

Industries	Number of establishments	Average num-
The State	2,280	284.0
The state gricultural implements	25	283,1
rtificial stone	123	196.1
		274.0
uto tires	(A)	288.3 269.7
		302.0
askets, rattan and willow ware lacking, cleaning and polishing preparations	6	254.4
lacking, cleaning and pollanting preparations	- 5	244.3
		302.7
owns fancy and paner	- 8	301.5
rass and bronze products	1000	276.
read and other bakery products	190	216.
rick and tile	22	279
rooms. nutter, cheese and condensed milk, co-operative	189	289
		248.
uttons, pearl	90	279
		291
anning and preserving	51	201
arpiets and rugs. arriages, wagons and materials. ar repairs and construction.	59	318.
		296
		297
Nothing women's		296.
offee and spice, regating and grinding	- 25	303
Coffins and undertakers' goods		206
Somerage and wooden goods	- 11	280
Sopper, tin and sheet-iron products rushed rock and stone	. 39	303
rushed rock and stone	10	1247
pairy and tools	11	284
Dairymen's, apiarists' and poutterers' supplies.	150	365
		250
and managerations	-1 12	1253
		291
		1279
urnishing goods, men's	31 .	201
urnishing goods, men s urniture and refrigerators ias and electric fixtures and appliances ias, [lluminating and heating	7	295
as and electric nature and leating	43	365
		290
lats and caps.	- 2	292
late and cape losery and kuit goods ce, manufactured.	20	230
oe, manufacturedewelry	1.6	305
ewolfy	167.4	285
eather goods	67.1	289
dalt	2	295 373
		273
darrasse and stone work beds		272
dineral and sods watersdirrors and glass	- 4	304

Industri	Number of watchettenass	Average num-
Musical instruments Oils and groase Optical goods Pairet and groase Optical goods Pairet and wood pulp Pairet modicines and druggists preparat Pens fountain		273.0 229.0 304.6 303.3 283.5 305.3 301.6 288.9 302.7 240.0 296.3 296.3 296.3 297.1 306.0 296.3

FACTORY INSPECTION.

No changes have been made in the inspection law during the biennial period, but the following statistics giving the number of inspections for each industry, nature of recommendations covering all requirements for safety and sanitation, child labor inspection, etc., shows a marked improvement in factory conditions. To outline the effect of continuous inspection, we give below the totals for the last three biennial periods:

	No. of Inspections	No. of Recommendations
Years Jan. 1, 1912 to Dec. 31, 1913	3,361 4,434 5,175	5,540 5,814 3,193

For the first two periods above, the number of recommendations far exceeds number of inspections, the final period showing a great decrease in recommendations. This is due to improvement in the factories themselves, and for interest we list a few of the leading recommendation totals for the three periods:

Nature of Order	1913	1915	1918
Guard gears	1.026	694	182
Remove or cover set screws	856	854	246
Suard saws, jointers, etc	560	548	146
Juard rail or screen machinery	642	944	420
Repair or build new stairways	180	161	16
Signs to fire escapes	153	192	190
Crect fire escapes	121	240	271
Repair elevators and gates	177	206	111
Repair closets for men	306	233	9 5 25
Repair closets for women	154	129	54
Post list of children under 16	149	93	25
Remove children under 14	32	1.5	3

The decrease in orders to guard gears, to cover or remove projecting set screws, also to guard saws, jointers and other dangerous machinery is almost surprising. These hazards comprise a large part of the accident hazard of the factory and the accidents resulting are generally of the most serious.

It will be noted that the number of orders to safeguard for these three hazards for the first year average .771 for each inspection made, while for the last two and one-half years the orders for the same hazards had decreased to .111 per inspection. This in the face that the same force of inspectors served during both periods making their inspections for the latter period if anything more perfect because of greater experience and familiarity with their work.

The passage of the workmen's compensation law undoubtedly aided in establishing safer conditions and bringing about a better co-operation of owners, managers and superintendents with the inspection department. The establishing of safety committees among employes also resulted in good, both in noting danger and in the safety education of workmen which followed.

The increase in orders to erect fire escapes is due to the new fire escape law which went into effect July 1, 1915. The new law is more stringent, more workable, and in order to meet its requirements a large number of buildings needed more suitable fire escapes. School buildings in particular have been made more safe in this respect, though factories, stores and buildings in general have been so inspected.

Child labor inspection has needed special attention during this biennial period. The amended child labor law which went into effect July 4, 1915, has worked out very satisfactorily and the department has endeavored to acquaint all employers with its requirements. During the last year the most common excuse for using child labor has been the scarcity of help due to war conditions, some employers believing that the child labor law should have no effect during the period of the war. The state legislature decided that the child labor law and all other laws should be enforced and not suspended. When the employer has found it impractical to continue employing child labor according to the requirements of the child labor law, he has found it possible to make other arrangements. Most of the prosecutions filed during the period have been for violation of the child labor law after the employer had been fully advised of its requirements and then wilfully disobeyed its provisions.

The factory inspection work forms one of the chief duties of this department. Though there are approximately 4,000 factories to inspect, besides all stores, schools, colleges, opera houses and picture theaters, public buildings, state institutions, garages, etc., we have a force of only four (consisting of the deputy commissioner, two men inspectors and one woman inspector) to cover the entire field. The inspectors are frequently requested to come and

make inspections oftener, because the benefit of their work is realized; but time is limited so that in most instances the plants receive only one inspection each year. The inspection force should be doubled, so that each inspector could cover a smaller section of the state more thoroughly and at less expense. Fewer accidents, the greatest waste in industry, would be the result. During the fiscal year July 1, 1917 to June 30, 1918, 2,046 establishments employing a total of 59,628 persons, were inspected. One can hardly conceive of the chances for accidents among such a large number of employes.

Table No. 7 gives total number of inspections made during the period January 1, 1916 to July 1, 1918, or during two and one-half years. This is the first time in the history of the bureau that inspection reports have been brought to conform with the fiscal year ending June 30. The table also includes number of inspections for each of the various industries and lines of business, number and kind of recommendations for each industry, with total recommendations for the period.

Table No. 8 gives the total number of establishments visited by the inspectors during the fiscal year ending June 30, 1918 (reinspections of the same establishment are not included in this table) and showing the number of adult men and women, also of children, by sex, under 16 years of age, working in such establishments, by classified industries.

PROSECUTIONS.

July 8, 1916. Council Bluffs, box and paper factory, violation of child labor law, fined \$10 and costs.

July 10, 1916. Council Bluffs, candy factory, violation of child labor law, fined \$10 and costs.

Sept. 11, 1917. Montrose, canning factory, violation of child labor law, fined \$3 and costs.

Oct. 2, 1917. Des Moines, shoe shining parlor, child labor, fined \$5 and costs.

Oct. 5, 1917. Des Moines, printing office, child labor, fined \$10 and costs.

Oct. 13, 1917. Des Moines, shoe shining parlor, child labor, fined \$10 and costs.

Oct. 13, 1917. Des Moines, shoe repair shop, child labor, fined \$1 and costs.

Oct. 15, 1917. Des Moines, shoe shining parlor, child labor, fined \$5 and costs.

Oct. 15, 1917. Des Moines, shoe shining parlor, child labor, fined \$2 and costs.

Nov. 19, 1917. Des Moines, theater, child labor violation, hearing set for Nov. 27, 1917, declared guilty, but appeal was made to district court, and afterwards a penalty made.

Nov. 24, 1917. Des Moines, moving picture theater, violation of child labor law, fined \$5 and costs, fine suspended.

Nov. 24, 1917. Des Moines, moving picture theater, child lahor violation, fined \$5 and costs, fine suspended.

Nov. 26, 1917. Des Moines, moving picture theater, child labor, fined \$5 and costs, fine suspended.

Dec. 5, 1917. Sioux City, child labor law violation, two charges fined \$1 on each count and costs remitted.

Dec. 6, 1917. Sioux City, moving picture theater, child labor,

fined \$1, fine remitted and the dollar assessed as costs.

Dec. 6, 1917. Sioux City, theater, child labor violation, three

Dec. 6, 1917. Sioux City, theater, child labor violation, three separate counts, fine \$1 with \$1 costs on each count, the fines suspended but collected costs of \$1 in each case.

Jan. 18, 1918. Ottumwa, theater, child labor, fined \$15.

Jan. 22, 1918. Waterloo, theater, child labor, two charges, fined \$5 and costs in each case.

Jan. 26, 1918. Des Moines, hotel, child labor violation, fined \$5 and costs, fine suspended.

May 21, 1918. Des Moines, shoe repair shop, child labor, fined \$5 and fine suspended.

May 28, 1918. Des Moines, laundry, child labor, fine \$10 and costs.

May 30, 1918. Des Moines, bowling alley, child labor, fined \$5 and costs.

May 31, 1918. Des Moines, skating rink, child labor, two separate charges, fined \$5 and costs in each case.

	172
	2
	h
	10
	2
	9
	8
	200
	70
	8
	65
	75
	=
30	2
Z	part !
0	5
Ξ.	2
H	
4	00
a .	=
7	==
63	-
=	=
2	30
×	3
	-
×	-
×	2
E	in
PR	=
0	O.
-	-
4	-2
4	
tD.	20
5	7
~	=
2	=
	ed
63	-
Ĭ.	100
7	24
200	2
00	5
6	9
	100
FACTORY I	=
22	-
0	ton
E.	100
65	0
=	5
	05
	100
	0
	44
2	tat
	502
0	de
2	*
755	==
国	In
2	2
TABLE	200
4	H
Fe	0
	23
	OS.
	2
	1
	2
	12
7	H
	9
	ě
	CC.
	-

	Canning and preserving	3-un - - - - - -
	Buttons, pearl	2 - 9
astry	Hutter, cheese and condensed milk	80H H
Ind	Brooms	No. 12 mm 100
l and	Brick and the	\$31n H -n
Kind	broducts. Broad and other bakery.	40 0 1 10 1-0 g
8, by	Bress and broase products	2na a la la-
161 ,	Boxes, fancy and paper	8 8 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3
July	Hoxos, cigar	
16 to	Boots bus stood.	
1, 191	wolliw bus natter, reteined one	F-
ıary	eods bus agods redusid selotag gathids	10 mm 92
Jan	Awaituge, tents and sails	a a a a a a a a a a a a a a a a a a a
ctors	sadus bas sasts elidomożuA.	0
Inspe	Automobiles, bodies and parts	\$12 1 m m m m 10 0 0 m 2 2
tory	Artificial atons	8 aram a to to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
e Fac	Agricultural implements	8 - - - - -
Recommendations by the State Factory Inspectors January 1, 1916 to July 1, 1918, by Kind and Industry.	Nature, of Recommendations.	Number of inspections Guard geens. Guard geens. Guard geens. Guard geens. Guard geens. Reben and to extrem machinery Rubber mat for suichboarde Repair of valid openings. Repair of valid openings. Repair for estables and to extreme the repair of the control of the repair of the control of the repair of the control of the repair of the control of the repair of the repai

88	BUREAU OF LABOR STATISTICS
good breparations	Form 2 new -
Flour-mill and grist-nilli atoutorq	207 2 00 11 17 2
Pilm exchanges	0.
Electric railway shops and	2 12 12 12 12 12 12 12 12 12 12 12 12 12
Electric light, heat and rever	\$ 400 40 40 H 10 H
Dairymen's, aplacists' and poulterers' supplies	£-00 0 0 0
Cutlery and tools	20ma a
Copper, the and shee-iron products	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cooperage and wooden	S-8
Confectionery	\$444 H
Coffins, burial cases, and undertakers' goods	* - - -
Coffee and spice, reasting and grinding.	2 cm by mm by mm
Clothing, women's	8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Konm .galdtol).	3 100
Car repairs and construction	2-20 Su
Carringes, wagons, and materials	duce -
Carpets and rugs	
Nature of Recommendations	Number of impections Plemon or cover sin secret Cover extraction of cover sin secret Cover extraction Claused that or shorter since the control of the contr

Nature of Recommendations	Inspections Order streets Order st
Boundey and machine shop	# 100 m m m m m m m m m m m m m m m m m m
Fur goods and tanning	
Purniture and refrigerators	#uer a - - 8
Garages, auto repairs, etc.	98 8 8 9 9 9
Oss, Illuminating and heating	\$ - 0 19 1
suchlim bus savoid	8 0000 00 00 00 00 00 00 00 00 00 00 00
Orain elevators, hay, etc.	2 1 2
Hate and caps	
Hosiory and knit goods	
statique and hospitals	2 - 00 0 - 400
Ice, artificial	= - -
Laundries, dry cleaners	8×1-04 0 - 004- 04×004- 0050- 5
Leather goods, saddlery, etc.	B
Lumber and timber products	養の五数 日 10 m 10 m m 1 m
Maybe and stone work	2- -
shed guifqe bas sessoriisif.	
Mineral and soda waters	8 + 10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

90	BUREAU OF LABOR STATISTICS		FACTORY INSPECTION	9
street but soils	2700 0	Total for each recom-	25.25.25.25.25.25.25.25.25.25.25.25.25.2	SEER
Snisitrovbe bus angi8 solilovon		ure escapes only. Buildings inspected for	8 -nzesta - -	l lea
geog combanjes	B	All other industries	\$ + 0101 F- H- 10 H-01	1 12
Schools and colleges	F-use o -885 uP & S u S E	Wire work, including wire rope and cable	Remore (pg.	Hii
Henredles, stock and yearleyy		Water pumping stations	82-00 (01 m)	
hung	2070 7	Washing machines	Ence [+ - -	
Produce emborit	54 C1 C1 C1 C2 C2 C3 C4 C4 C5 C5 C5 C5 C5 C5	Wall plasfer	10 jn jn jn jn jn jn jn jn jn jn jn jn jn	
Printing and binding	3-2- 2 - 80 0 1 200 2			
Pens, fountain		Vulcanizing	<u> </u>	
heberstions and drugglets. Petent medicines and com-		заімонів такэні У	3	Ш
	24- 4	T'obacco, cigara and		
Paint and varnish	200-1	Theaters and movies	\$7	1-10
		dqargələt bna ənodqələT	20 1	7-0
		Stoves and furnaces	II	
144,400	Romon in	Stores, department and other, incl. wholesalers	8 - a 4a= zesa-=-	280
roaded and resident and a statement and a stat	2001	snothulitent state	(A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	
tore supertan fine alabold.		deo8		
sasig bus swrift.		Slaughtering and meat	10 10 10 m to 10 10 m to 10 m to 10 m	
Nature of Recommendations Number of impections.	874444486594445544558650000000000000000000000000000	Nature of Recommendations	Number of inspections Remove or cover est served Cover estractions Repair or bild new staltways. Repair or bild new staltways. Repair or bild new staltways. Repair for exceptes Digital for exceptes Digital for exceptes Digital for exceptes Coverner with steelend for exceptes Repair where granted for exceptes Repair elevators and gates Repair where granted bollers. Repair elevators and gates Repair elevator de verence R	rrorde dressing room Provide acts for female employee Post list or secure work permit. Remove children under 14

-moser for each recom- goldsheam	2322-050222222-050422-050422-050422-050422-050422-050422-050422-050422-050422-050422-050422-050422-050422-05042
Buildings inspected for	25 - 1225222 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
All other industries	8 4 or or 1 − 1 − 10 − 10 10 cs − 10 to to
Wire work, including wire rope and cable	8 mm 8
Water pumping stations	82-66 64 - 1 1 1 1 1 1 1 1 1 1
Washing machines	F000 4 11 11 111
Totali plaster	5 - a
Vulcanizing	2
Vinegar	+
Tobacco, cigars and	9 · · · · · · · · · · · · · · · · · · ·
spivom bne spicoff	# P P P P P P P P P P P P P P P P P P P
Telephone and telegraph	2 1 0 5 1 1 10 to 10 10 10 10 10 10 10 10 10 10 10 10 10
securing pure seconds	= a-10 or
Storos, department and other, incl. wholesalers	8 - G 54-101 Zose
State institutions	30 00 00 00 00 00 00 00 00 00 00 00 00 0
deog	9
Slaughtering and meat packing	\$5 10 00 mt En 20 00 m 20 20 100 00 00 100 100 100 100 100 100

TABLE NO. VIII-EMPLOYES IN INSPECTED PLANTS.

Number of Employes by Sex and Age in each Industry in Plants Inspected from July 1, 1917 to July 20, 1918.

			Numb	er of Er	nploye	4	
			By Sex	x Un		ider 16 Years	
INDUSTRY	Number of estab	Malos	Fernales	Total	Males	Females	Total
market and a second	2,040	12,608	17,000	39,658	.220	532	752
The state	10	1,015	48	1.963			
Artificial stone	23	341	3	344	2		2
Automobiles, bodies and parts	11	226	11	237	1		1
Automobile tires and tubes	6	528	23	551	2		2
Awnings, tents and sails	8	86	110	216		Solden	
Barber shops and shoe shining parlors	19	90	2	92	11		-11
Baskets, rattan and willow ware	- 3	230	70	309	58	17	75
Boots and shoes	2	244	198	442	14	7 3	21
Boxes, fancy and paper	4	33	102	135	-	-	- 3
Brass and bronze products	42	113	275	793	1	2	i
Bread and other bakery products	17	51N 561	2/0	570	1	2	3
Brick and tile	ii	126	54	180	8	3	11
Brooms	43	544	132	676	3	10.37	-3
Butter, cheese and condensed milk	21	1,001	1,097	2,098	4	78	82
Buttons, pearl	64	3,329	2,384	5,713	36	13	40
Carpets and rugs	- 3	18	A 1954	22	100		
Car repairs and construction	40	6,706	139	6,845	26		26
Carriages, wagons and materials	21	373	21	394	3		3
Clothing, men's	10	- 52	478	530	3		12
Clothing, womens	12	166	315	481	3	3	- 5
Coffee and spice, reasting and grinding	7	75	99	174		2	2
Coffins and undertakers' goods	1	43	4	47			
Confectionery	34	355	572	927	8	9	
Cooperage and wooden goods	. 5	91	1 2	93	1		1
Copper, tin and sheet-iron products	34	348	9	357	3		3
Cutlery and tools. Dalrymen's, apiarists', poulterers' sup	15	304	84	388	1		- 1
Dairymen's, apiarista', poulterers' sup	55	1.086	266	1,852	- P.		1
Electric light, heat and power Electric railway shops and barns	3	1,090	7	96	111765		
Film exchanges	9	84	78	142	20000		
Flour-mill and grist-mill products	20	84	17	- 88		10000	
Food preparations	12	3,702	356	3,258	7	15	21
Foundry and machine shop products	41	1,730	-89	1.779	1	1	2
Fur goods and tanning	4.	43	- 64	87		1	1
Furniture and refrigerators	16	532	89	621	2		2
Garages, auto repairs, etc	94.	453	477	500		Service	*****
Gas, illuminating and heating	15	429	21	460	diene	8	TI
Gloves and mittens	3.	81	259	340	3		44
Glue	2	90	20	110			
Grain elevators	10	25	82	25 85	141644		
Hats and caps	3	11	205	216	1	4	3
Hotels and hospitals	20	228	365	593	1	100	4
Ice, manufactured	7	73	7	28	10.00		
Laundries, cleaning establishments	96	552	1,039	1,591	8	3	11
Leather goods and tauning	-11	326	79	405	1.0%	1000	
Lumber and timber products	50	2.645	93	2,738	12		12
Marble and stone work	6	70	2	72	1000		

1			Numbe	or of E	nploye	8	
	ostab-		By Sex		Under 16 Years		
INDUSTRY	Number of est lishments	Males	Fernales	Total	Males	Pemales	Total
Mattresses and spring bods Mineral and sods waters Models and patterns, not paper Models and statures, not paper Models instruments Diptical goods. Paint and varnish Paper and wood pullp. Patent medicines, draggists' preparations pear, fountained produces. Paper and wood pullp. Paper and wood pullp. Paper and wood pullp. Produces. Produces. Produces. Remedies, stock and poultry. Schools and colleges. Signs and advertising novelties. Siling and parts. Siling	1 25 7 7 4 11 1 4 7 7 7 7 12 5 5 11 1 6 6 15 15 16 6 6 6 6 6 6 6 6 6	2 123 35 458 126 220 200 60 1 198 296 57 53 219 119 128 26 62 27 20 20 20 20 20 20 20 20 20 20 20 20 20	2 3 3 80 114 1 211 1 5 5 80 1 6 5 1 1 5 5 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 138 38 388 588 150 64 59 286 612 1000 1 1824 91 91 91 91 91 91 91 91 91 91 91 91 91	2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 1 1 1 1 1 7 7 8 8 7 8 7 5 5 5 5 6 4 4	2

CHILD LABOR.

The child labor law, in the form as amended by the Thirty-sixth General Assembly in 1915, has been actively enforced during the biennial period. No changes were made in the law by the Thirty-seventh General Assembly. Briefly, the law provided that no person under 14 years of age can be employed, with or without compensation, in any "mine, manufacturing establishment, factory, mill, shop, laundry, slaughter house or packing house, or in any store or mercantile establishment where more than eight persons are employed, or in the operation of any freight or passenger elevator, or livery stable or garage, place of amusement, or in the distribution or transmission of merchandise or messages."

Children between 14 and 16 years of age may be employed in the above listed occupations for eight hours a day between 7 a. m. and 6 p. m. and not exceeding 48 hours per week, provided a work permit is secured by the employer. This is issued by the local superintendent of schools or by a person authorized in writing by him or by the school board. Upon receipt of the employer's agreement (which states that the child will be employed at certain work and that the work permit will be returned to the issuing officer within two days after the child leaves the employment), the superintendent or issuing officer must make sure that the child has an education equivalent to six yearly grades in reading, writing, spelling, English language, geography and arithmetic, and that the child has reached the normal development for his age and is physically able to perform the work designated in the employer's agreement. Evidence of age may be secured from four sources, taking precedence in the following order: (a) Certified transcript of birth record; (b) passport or certificate of baptism; (c) school census record; (d) where none of these are obtainable, then a certificate from a medical inspector or physician appointed by the school board, that in his opinion the child is more than 14 years of age.

The law also prohibits employment of children under 16 years of age in work or occupations dangerous to life and limb or in which their health may be injured or their morals deprayed, or in the handling of high explosives, or in or about mines during the school term, or in hotel, bowling alley, pool or billiard room. No female under 21 years of age can be employed in any occupation compelling constant standing. And no person under 18 years of age can deliver goods or mesages between 10 p. m. and 5 a. m.

The street trade provision of the law applies only to cities having a population in excess of 10,000. Boys under 11 years of age and girls under 18 years of age cannot engage in the street trades; boys between the ages of 11 and 16 years who regularly attend school may procure badges to engage in such work between the hours of 4 a. m. and 7:30 p. m. during the school term and until 8:30 p. m. during school vacations.

Copies of 4,913 work permits issued by superintendents of schools, or persons authorized by them, were filed with the Bureau of Labor Statistics between July 1, 1916 and July 1, 1918, the end of the biennial period. For the first year of the operation of the law, 1,522 permits were issued, which shows a considerable increase in child labor for the last biennial period—especially is this notable for the last year during which 3,077 permits were issued. The greater part of this increase was undoubtedly due to the war, with consequent scarcity of labor, larger nominal wages and greatly increased cost of living. From these permits the following tables were compiled showing number of boys and girls by age and school grades:

and Locality. Age Sex, with School Grade completed when work permit was issued, by TABLE NO. 9.-WORK PERMITS ISSUED TO CHILDREN. of Children Number

PART I-AGES 14 TO 14% YEARS.

	2010	
1	Totals.	14881500 2512 451-071-12 012-091
	पश्चम प्राप	
	3rd blgh	8
	usin bas	9 01-10
	1st high	0 0100 m 10 40 m 10 10 10 10 10 10 10 10 10 10 10 10 10
irls	Sth-A grade	24 19 19 19 19 19 19 19 19 19 19 19 19 19
9	Sth-B grade	\$ 100 mm 4 mm 100 mm
	эриля У-497	8 4 4 4 4 4
i	7th-B grade	S
Н	obera A-dio	8 00 4 1 1
2	obarg H-dio	2 -20002 -2
	oberanU.	0 - -
	Totals	\$0-28-113320 x - 25252 a - 25254 + 2525
ï	usid dir	
	3rd high	•
	and high	28
	1st high	\$0000 1-0000 not no or or no
Boys	ореда у-ція	2 21 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
B	sth-B grade	\$0224-25-4
	opeas v-q12	8 66446 6 1 1-8 5 1 1-4
	7th-B grade	2004-088-4-4 40000
	oberg A-dio	E 200000 00 1 1 1 1 1000
	oberg 8-dio	Z-000000% 40- 1200-0-05030
	DobargaU	F- 01 - 01 01- 01- 01- 01
Locality		Totals. Totals. And National Control

oy sèventh A; Cherokee, I boy sixth B; I boy sixth A; Cia-ed, I boy sixth B, I boy seventh B I gift ungarded; Harlan, sixth B, I gift eighth B; Red Osi, I boy first year bigh, B I boy seventh B, 4 boys eighth N; I gift seventh B; I gift xth A, 3 boys seventh B, 2 boys first year high, I still first

TABLE NO. 9.-WORK PERMITS ISSUED TO CHILDREN.

Locality. Age and Sex, with School Grade completed when work permit was issued, by Number of Children

PART II-AGES 14% TO 15 YEARS.

1	Totals	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1	पश्चाप पाक	20 (100 (11 min 20 min
	3rd high	-
1	right bag	=
i	daid set	00 4440046 NO NOWA
Girls	Sth-A grade	8 44-4
9	Sth-B grade	64+84-∞8 4 4 6 6 6 60000+
	Pth-A grade	8 60 61 44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	7th-B grade	2 00
	obers A-dio	20 1000 1000 1000 1000 1000 1000 1000 1
-	oberg 8-dib	8 1 1 10 4 10100 1 0 14
	DabaranU	0 8
	alato'T	782 1162 1163 117 117 118 117 118 118 117 118 118 118
	чер рекр	
	3rd high	
	dalif bag	2
	1st high	8 20400 Hun
Boys	sth-A grade	\$ [212000 E 1 1 2 1 1 1
-	spars g-qrs.	200 - 200 -
	opeas A-div	2 2 2 4 - 5 - 1 - 4 2 2 1
	9berg H-div	2 was 22 was - use on the - use
	obers A-dia	2 -0 -0 8 H- 6
	oberg H-dio	경 4- 이번 이 이 이 4 등이는 이
	bobergaU	0 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Locality	Totals Postal Boone Codent Rand Control Bluth Connect Bluth Davagner

Age and Locality. Sex, was issued, by TABLE NO. 9.-WORK PERMITS ISSUED TO CHILDREN with School Grade completed when work permit Children of

PART III-AGES IS TO ISH YEARS.

"Yotals	\$ + 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
dald dis-	
and high	
fight bat	*
dald tet	2-0000
oberg A-dis	g owned g m in g
sheta tl-dis	
sherg A-drt	2 MEN-K-M
Sherig H-day	2000 - 00 - 00 - 00 - 00 - 00 - 00 - 00
shera A-dio	2 dan a to 1 日 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
obern H-do	2
boberanti	
elato/F	B* 医数据不能是其中中中的二级基础中的数据的数据
statis atte	-11111111111111111111111111111111111111
daid but	n n
date best	2
rigid ser	T-DE+0-Seuon-D o-+o on
abeta A-dis	2 22**2-2 2- 2
obern H-dis	- 10mm + 10mm
obers A-div	2 =-====
7th-B grade	# 02mmo 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
эрята А-фіо	2 02000 0 0 000
opstal H-419	# ma 22 man meen magmag
Doberant	
Locality	Totals Totals
	bobevaut obeva if-das obeva if-das obeva if-das obeva if-das obeva if-das obeva if-das obeva if-das obeva if-das obeva if-das obeva if-das dasid ber dasid ber dasid ber insid als obeva if-das obeva if

arinda, 1 boy vonth B; Ma-lighth B; Red girls seventh eighth B; 2

CHILDREN TABLE NO. 9.—WORK PERMITS ISSUED TO

Sex, Age and Locality. was issued, by with School Grade completed when work permit AGES 15% TO 16 YEARS. Number of Children

	Locality	votatis. votati
	раразвид	2-0100000000000000000000000000000000000
	opu.as g-q10	
	oberg A-dio	State of the Contract of the C
	obern A-day	Pass and a
	obarg il-dis	2-0
Hoys	obarg A-dia	E 22 2 1 2 2
	dald ser	2-000-00 mm 0 mm 00
	and but	20 10 to 1 10 1 10 1 10 1 10 1 10 1 10 1
	daid big	
	प्रमुख पुत्रक	-
	Totale	· · · · · · · · · · · · · · · · · · ·
	Dobergall	
	Offi-B grado	g nm
	opean y-quo	
	7th-A grade	Euxō 480 40 100 100
Ĭ	nberg H-dis	Street and a house of her ox
Oirls	oberg A-dre	\$ nn- X # -
	digid ast	Hana anka a -
	daid bot	2 100 - 1- -
1	stald but	- [[] [] [] [] [] [] [] [] []
	third data	-membraniani
	Totals	SIESueSEE Source - us III

*Including Atlantic, 1 boy second year high; Buffalo, 4 boys eighth B, 3 grits eighth B 1 boy eighth B; Powet City; 2 boys first year high; Harman, 1 boy marched di, Marchago, 005k, 1 boy seventh B, 1 boy eighth B, 1 girl seventh B, 2 grits eighth B; Shenandonh, 3 sixth B, 2 grits seventh B, 2 grits eighth B, 1 girl second year high; What Cheer, 1 box

101

SEATH SEATHS SERVICE TO SEATH

TABLE NO. 9.-WORK PERMITS ISSUED TO CHILDREN.

Number of Children with School Grade completed when work permit was issued, by Sex, Age and Localid

PART V-AGES 14 TO 15 YEARS.

ì	Totals	5.65222352 ANULEUE ULBIER
	dald bat	
	daid box	
	and blgh	S == 0 10 10 10 10 10 10 10 10 10 10 10 10 1
0	dald set	A broaded - R broad
Obris	abera A-ris	S x0-u8 2 -u 8
3	obern H-dre	E
	obera A-da7	8 80 80-80 - 8 - 86
K	oberg H-dr7	是一年四四四日高四 中四四日五 一一萬一四日
	shara A-dio	8 10 00 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	oberg (I-dro	\$ mennsha ma menana
	behauted	2117 [111111111111111111111111111111111
	Totals	是122324221221×8122121212122423
	नगर राष्ट्र	
	and high	
	staid bet	# NA 1000 - 1000 - 0
	daid ast	なったりゃりにだるよ 一十二日 日日
Boys	oberg A-dis	
	shrn H-dis	そのおよっなについ いいるはのとないしては
	obern A-di7	E
	oberg H-d17	\$0000000000000000000000000000000000000
	obarn A-dio	# 1250m# c 1 h 1-4
	oberg H-dio	
	Departed	F
	Locality	stale Second

TABLE NO. 9. - WORK PERMITS ISSUED TO CHILDREN.

Number of Children with School Grade completed when work permit was issued, by Sex, Age and Localliy.

PART VI-AGES IS TO 16 YEARS.

elatoT	500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
dald dis	-11111-11111111111111111111111111111111
3rd bigh	-
rhid bag	2 84
1st high	Successed a -u su -n-4-
obers A-dis	5 25 0 2 2 1 u W
орета И-d38	8010 exte se se-me -0111
7th-A grade	8 +0000 H-+
7th-B grade	50500 000 44 000
эретя А-410	2 100m 100m 数 100
ebern H-die	S ud- us - u - u
Бобетна Т	
eleto'T	要な記載ははは日本にいいははは日本のいるはのなけ
4sp pikp	-
and high	5 44 L
dald but	\$
dald aut	たる我我中の公司の日日の日日日 ちのちは 近日
aberg A-dis	S 88-99-H 8-
obava G-d18	84284428540 -48324 -88-35
abata A-div	日本の記され
7th-B grade	
obara A-dio	
ерезіі स- 1(19	A STATE OF THE PARTY OF THE PAR
bobargaU	5
Locality	Totals Boones Codell Stadds Condell Burth Condell Burth Davapper Dava Mones Davapper Dava Mones Davapper Dava Mones Davapper Dava Mones Davapper Dava Mones Davapper Dava Mones Davapper Dava Mones Davapper Davap
	obern H-die obern H-die obern A-die obern A-die obern A-die obern A-die obern A-die die de die die de die die de die die die de die die die de die die die de die die de die die de die die die de die die de die die de die die die de die die de die die die die de die die die de die die die die de die

"The items of the Miscellaneous

Sex, Age and Locality TABLE NO. 9. - WORK PERMITS ISSUED TO CHILDREN. issued. with School Grade completed when work permit Number of Children

	state?	1885 1888 8 18 18 18 18 18 18 18 18 18 18 18
	daid das	* -
Ш	daid big	-
	shift birg	8
	daid ast	Euddenesz u u Zu judues
Oliris	shera A-dra	#
0	oberg II-dis	5222KST 12 12-20 16-62
	obern A-dit	#
	shara H-dit	第4姓位46姓四 4百日4日日至 10日日日
	obern A-dio	B 576 544 - - 8 - H
	sherg H-dib	Annual to been instance
	Debengal	# 0 4
	Totals	1128年128日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日
	dhid das	
	dald bit	2
	daid but	SHEEK ATA HHE CAN NO AV
	taid aut	
Boys	oberg A-di8	景
	Sth-B grade	第2日本の日前日は日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日
	obers A-div	E 8244600 Se- 0 Her
	obern H-div	妻の亡民とのなる日本日の日の日本日本日の日本日日日
	sharg A-638	\$ \$800 B
I	эретд ff-d10	8-41mmを発生の10mmの10mmの10mmの10mmの10mmの10mmの10mmの10m
-	bobergaU	Suusau o ueu -5 uu
	Locality	Totals T

RETARDED SCHOOL GRADE.

School grade table (No. 9) shows that permits were issued to 66 boys and 23 girls who had only passed the fifth grade, permits which are therefore contrary to the strict letter of the law. A few of these permits were isued to children plainly subnormal, and whose staying in school could have served no good purpose, and a number of others were issued to children under the sixth grade during vacation period. Quite a number of these 89 pupils have in reality completed the sixth grade but come from schools that are classed as ungraded.

It is generally accepted that a normal child should have completed the eighth grade when at 14 years of age, or at the most 141/2 years (making allowance for the birthday being too far distant from the school semester); when 15 to 151/2 years old, the first year of high should have been completed, and when 16 years the second year high. Including all permits, even the eighty-nine mentioned which are technically illegal insofar as the school grade is concerned, the following table shows the number of boys and girls who received work permits during the biennium and who are deficient in school grade when compared to the normal standard mentioned above:

NUMBER OF CHILDREN OF RETARDED SCHOOL GRADE BY AGE AND SEX.

Ages	14-14 16	1436-15	15-15%	1834-16	Total
Boys	584	575	834	501	2,494
	212	259	477	288	1,236

Out of a total of 4,893 work permits issued, 3,730 were to children of retarded school grade.

The following table based upon 3,251 boys and 1,642 girls, holding work permits, shows that the per cent of retarded grades increased with the ages as reported, due to the fact that many of the children from 15 to 16 years of age to whom work permits were issued, had been out of school for a considerable period.

PER CENT OF CHILDREN OF RETARDED SCHOOL GRADE ISSUED PERMITS, BY AGE AND SEX.

Ages	14-143/2	1436-15	15-1536	1536-16	All
Boys	61.08	75.45	84.24	92.26	70.71
	51.45	72.34	84.27	94.11	75.27

PHYSICAL REQUIREMENTS.

Table No. 10, which follows, gives the heights and weights of boys and girls granted work permits during the biennium, by age classifications for both state and localities. The height and weight measurements of children were made without removal of shoes or clothing. So that figures in height and weight may not mislead as to respective developments of the sexes, we explain that measurement with shoes gives error in net heights of from ½ to 1 inch for boys and from 1½ to 2 inches for girls. The average weight of clothes of boys at 14 years is 8.09 pounds; boys at 15 years, 8.08 pounds; girls at 14 years, 7.54 pounds, and girls at 15 years, 7.85 pounds.

Physical requirements of the Iowa child labor statute are given in section 2477-d, paragraph (3)—"A certificate signed by a medical inspector of schools or if there be no such inspector then by a physician appointed by the board of education certifying that the applicant for the work permit has reached the normal development of a child of its age and is in sufficiently sound health and physically able to perform the work for which the permit is sought."

No standard of fitness for work has been adopted by Iowa nor any other state. In fact, it is generally recognized that a uniform age limit does not serve as a scientific test of physical strength or fitness of children to perform work, because of difference in development. The physical examination and certification of fitness therefore depends upon the opinion of the physician who happens to make the examination. In this connection it should be mentioned that few of the Iowa school districts have examining physicians as contemplated by law, and in several districts where physicians are appointed, very little or no attention is paid to examination of children for whom permits are sought, so that generally the judgment of the issuing officer is used instead of that of a physician.

Four thousand, eight hundred and ninety-three work permits received during the fiscal year were sufficiently complete to give details of age, height and weight. Table No. 10 gives the average height, weight and average weight per inch of height for the total number of children of each sex for the state and for cities, first by half year periods of age, and again for the entire age period covered by the permit.

TABLE NO. 10—CHILDREN RECEIVING WORK PERMITS. Heights and Weights of Boys and Girls Granted Work Permits July 1, 1916, to July 1, 1918, by Locality.

PART I-AGES 14 TO 14 % YEARS.

			Boyu		Girls			
Locality	Number of children	Average height (inches)	Average weight (pounds)	No. of pounds per inch	Number of children	Average height (inches)	Average weight (pounds)	No. of pounds per lach
The State Bonne Bonne Bonne Cetar kapid. Cilinton Council Baffs Davenport Des Moines Dubuque Fairfield Fort Madison Grinnell Iowa City Keokuk Mason City Muscatine New ton Oetaloose Oetaloose Oetaloose Oetaloose	983 8 72 59 12 30 113 191 25 10 7 7 7 7 2 17 64 8 83 1	61,86 60,00 62,26 61,27 61,17 60,82 75,60 60,23 60,71 61,28 62,28	100, 47 99, 00 103, 29 106, 52 109, 55 102, 05 96, 38 96, 03 101, 26 97, 71 106, 50 98, 16 114, 75 1135, 48 107, 00 18, 27 112, 00	1.65 1.65 1.65 1.70 1.75 1.66 1.50 1.50 1.51 1.52 1.71 1.57 1.54 1.57 1.57 1.57	414 14 29 12 7 46 60 35 4 10 1 1 4 18	62.87 61.45 60.48 60.75 59.78 62.18 61.52 63.10 62.00 64.30 60.00 62.41 62.35	104.81 105.27 105.14 96.00 104.28 104.19 105.08 104.18 103.50 112.00 90.00 90.25 101.65	
Ottumwa Sioux City Washington Waterloo *Miscellaneous	30 122 5 45 28	60.92 60.51 61.00 62.17 62.47	97.02 97.37 113.40 104.41 105.10	1.89 1.60 1.85 1.67 1.88	45 5 10 15	63.50 62.41 63.80 62.90 61.02	116.00 100.38 113.40 113.70 102.86	1.8 1.7 1.7 1.8 1.4

"Includes 6 boys from Shenandoah, 4 boys each from Garrison and Vinton, 3 boys each from Storto Lake and Vinton, 2 boys from Buffalo and one each from Centerville, Dexter, Pella, Storm Lake, Waverly, and What Chee."

"Includes 4 girls from Buffalo, 3 from Shenandoah, 2 each from Pella and Bed Oak, and 1 each from Garrison, Sharpsburg, Vinton and Harlan.

PART IT-AGES 14% TO 15 YEARS

The State	754	65.07	101.87	1,64	274	62.35	100.11	2.69
Boone	3	62,33	107.00	1.71	2	64.50	104.50	1.63
Burlington	61	62.30	99,40	1:59	23	63.91	105.2%	1.67
Cedar Rapids	39:	62.61	102.89	1.64	23	62.17	104.91	1.68
Clinton	39 15	59.66	100.63	1.68	11	63.81	104.36	1.60
Council Bluffs	12	63.66	113.08	1.66	6	63.16	103.50	1.6
Davenport	108	60.76	98.94	1.62	40	63.39	112.22	1.7
Des Moines	134	60.78	99.07	1.63	62	61.29	101.12	1.6
Dubuque	22	61.84	100.63	1.62	25	62.60	102.80	1.6
Pairfield	7.7	62.42	104.00	1.66	77	-		1 500
Fort Dodge		60.60	94.50	1.62	needige.	62.60	105.00	1.7
Core Modern Consessions	- 2	64.00	113.33	1.77	11	63.27	106.72	1.6
Fort Madison	3 7	64.28	114.71	1.78	5.5	62.50	221.00	3.5
Grinnell	13			1.65	0.50			
owa City	38		103.07	1.68	22.0	58,00		1.5
Keokuk		62.08	160.78	1.62	10	62,50	107.93	1.7
Mason City	8	63.83	101.00	1.58	absentate.	ANNANANA	*******	******
Muscatine	75	63.19	100.28	1.58	80	64.00	104.92	1.6
Newton	+	62.75	99.75	1.59	CHAMBER .			
Delwein	5	62.00	112.25	1.80				
Oskaloosa	5	61,00	105.90	1.67	2	63.75	110.25	107
Ottumwa	17	61.58	99.00	1.60	9	61.60	108.40	1.7
Sioux City	74	63,70	103,88	1.60	37	63.31	110.33	1:7
Washington	4	62.12	104.75	1.68	- 5	61.80	112.40	1.8
Waterleo	36	62.51	100.61	1.70	- 6	63.66	109.33	1.7
Miscellaneous	19	64.10	117.78	1.80	15	62.80	103.30	1.6

[&]quot;Includes 9 boys from Schemandosh, 2 boys from Red Oak, 2 from Vinton, and one ceach from Dexter. Forest City, Harian, Storm Lake and What Cheer.

"Includes 7 girls from Schemandosh, 4 from Pella, 2 from Centerville and one ceach from Ames and Buffalo."

TABLE NO. 10-CHILDREN RECEIVING WORK PERMITS. Heights and Weights of Boys and Girls Granted Work Permits July 1 1916, to July 1, 1918, by Locality.

PART III-AGES 15 TO 151/2 YEARS.

		В	oys		Giris				
Locality	Number of children	Average height (inches)	Average weight (pounds)	No. of pounds per Inch	Number of children	Average height (inches)	Average weight (pounds)	No. of pounds per incts	
The State. Boons. Brillian State Sta	083 7 79 80 27 37 132 195 31 9 10 5 2 12 41 12	62 20 62 14 63 02 63 31 62 11 61 87 61 37 62 12 62 75 65 00 60 00 68 35 61 41 62 96	105.85 108.57 109.22 104.62 100.00 105.04 100.64 103.63 106.74 122.50 103.20 105.40 128.75 104.90 104.58 107.50	1.68 1.74 1.73 1.60 1.61 1.69 1.63 1.66 1.70 1.88 1.88 1.66 1.72 1.66 1.88	550 7 38 32 10 5 61 104 47 2 13 2 2	62.37 61.28 62.92 62.54 60.30 62.60 60.09 61.78 63.08 63.08 63.23 62.60 63.32	106,78 113,00 100,01 106,03 93,33 106,03 111,38 104,24 103,81 97,59 117,88 123,25 88,00 113,72	1.7 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	
Muscaline Newton Oelwein Ookaloosa Oottumwa Sloux City Washington Waterloo *Aliscellaneous	78 8 6 30 88 2 66 28	62, 63 63, 66 59, 83 64, 16 62, 96 62, 38 90, 50 63, 38 64, 31	116.73 162.66 101.16 118.33 105.40 104.24 98.50 113.32 115.85	1.76 1.61 1.70 1.87 1.67 1.64 1.62 1.78 1.80	113 1 3 47 8 25 20	62.69 67.50 63.25 62.80 62.00 63.51 62.20	195.61 123.50 110.45 110.84 116.37 113.17	1.6 1.3 1.7 1.7 1.8 1.7	

"Includes 5 boys from Shenandoah, 4 boys each from Garrison and What Cheer, 2 boys each from Centerville, Forest City, Pella and Vinton, 1 boy each from Altsona, Ruffalo, Clarinda, Harlan, Montroes, Spencer and Wavety, Telendes 10 girls from Shenandoah, 3 from Pella, 2 from Buffalo and 1 each from Garrison, Marengo, Red Oak, Spencer and Vinton.

PART IV-AGES 1516 TO 16 YEARS.

The State	339	68.97	108.36	1.71	867	69.81	110.71	1.24
Boone	3	60.66	107.00	1.78	12	61.83	119.66	1.91
Burlington	35	64.20	111.20	1.73	20	62.36	106.75	1.71
Cedar Rapids	59	62.95	107,33	1.70	31	62.07	120.63	1.50
Minton	- 6	63.00	108.00	1.71	3	62.00	103.00	1.32
Council Bluffs	10	62.50	104.40	1.67	- 8	63.25	119.73	1.30
Davenport	75	62.22	103.83	1.67	45	64.54	117.34	1.81
Des Moines	116	62.33	102.57	1.64	83	62.14	107.25	1.73
Dubuque	17	63.23	108.82	1.72	18	63.31	110.50	1.74
Pairfield	- 5	64,10	120.20	1.87	1 00			05302
Fort Dodge	- 8	63.00	111.00	1.79	200	62.70	109.50	17
Fort Madison	- 9	62.44	104.38	1.67	10	61.50	166.00	1.77
Frinnell	- 3	65.50	108.00	1.63		63.00		
owa City	4	66.75	126.25	1.89	1 4	64.00	140.00	7.2
Ketikuk	22	63.50	107.94	1.70	2	04.00		1.00
dason City	1.72	62.50	102.50	1.64	2	62,75		1.6
duscatine	45	64.01			- 4	62.50	101,50	
Newton	. 75	62.00	114.48	1.78	61	63.16	107.15	-1/0
Delwein	- 4		121.00	1.95	6	61.83	110.29	1.58
Delcaloosa	2		104.66	1.64				*******
Michigan Communication Communi	19	63.60	112.20	1.76	******			
Ottumwa		61.89	112.30	1.75	2	63.00	112.50	1,78
loux City	44	63.72	111.47	1.75	27	62.99	107.51	1.79
Vashington		******	200			10000000		
	-052	54.42	115.21	1.78	11	63.31	117.54	1.85
Miscellaneous	19	58.31	113.28	1.92	16	62.15	107.26	1.72

*Includes 3 boys from Buffalo, 4 boys from Shenandoah, 2 boys each from Forest City and Red Oak, and one boy each from Atlantic, Dexter, Harlan, Spencer, Storm Includes in eith from Shenandoah, 2 girls from Pella, and one each from Buffalo, Marengo; Red Oak and What Cheer.

TABLE NO. 10-CHILDREN RECEIVING WORK PERMITS.

Heights and Weights of Boys and Girls Granted Work Permits July 1, 1916, to July 1, 1918, by Locality.

PART V-AGES 14 TO 15 YEARS.

		10	loys		Girls				
Locality	Number of children	Average height (inches)	Average weight (pounds)	No. of pounds per inch	Number of children	Average beight (inches)	Average weight (pounds)	No. of pounds per inch	
The State. Boone. Borne. Burlington Cedar Rapids. Clinton. Council Bluffs. Dawenport. Dawenport. Dawenport. Pairfield Fort Dodge Fort Madison Grinnell Lowa City. Krokuk. Muscasline. Newton Gelwein. Oskaslossa. Osttanwa. Stoux City. Stource. Waterloo.	47 196 9	61 61 61 60 63 62 27 62 27 61 03 61 88 60 80 62 11 61 61 62 69 63 82 62 62 62 62 62 63 64 64 64 69 63 82 62 62 63 82 64 64 64 64 64 64 65 65 66 65 66 65 66 65 66 66 66 66 66 66 66 66 66 66 66 66 66 66	100 98 101 18 101 50 104 20 104 20 104 71 105 20 97 63 98 46 100 97 102 79 98 41 102 89 112 88 97 88 107 87 102 98 101 20 102 68 101 20 102 68 101 20 102 68 103 108 18 97 98 82 109 82 109 82 109 83 109 83	1.63 1.63 1.63 1.63 1.61 1.61 1.61 1.62 1.65 1.64 1.75 1.59 1.71 1.62 1.71 1.62 1.71 1.62 1.71 1.62 1.71 1.62 1.71 1.71 1.71 1.71 1.71 1.71 1.71 1.7	788 2 37 52 23 13 166 122 60 9 21 2 5 28 177 2 11 2 11 12 11 12 11 12 11 11 11 11 11	62,56 64,50 62,35 62,21 61,22 62,21 61,74 61,40 62,32 63,76 61,26 63,73 61,94 63,73 61,94 63,06 63,73 61,94 63,06 63,80	105 16 104 50 105 27 105 13 99 99 107 39 107 39 103 06 103 06 103 06 103 06 105 23 105 25 105 br>105 105 105 105 105 105 105 105 10	1.68 1.62 1.68 1.71 1.60 1.71 1.64 1.71 2.55 1.77 2.55 1.66 1.77 1.77 1.77 1.77	

*Includes boys and girls in miscellaneous cities of one-half year tables.

PART VI-AGES 15 TO 16 YEARS.

The State	14 127 4 9 8 49	67,80 61,69 63,38 63,16 62,27 62,10 62,10 64,67 61,23 66,28 66,28 66,28 66,28 66,28 66,28 66,28 66,28 66,28 66,28 66,28 66,28 66,38	164 70 108 09 109 84 105 76 104 90 101 76 104 90 101 72 103 21 107 55 104 74 111 09 56 105 37 112 17 106 78 112 17 107 55 114 17 107 55 114 17 107 56 115 17 108 76 116 17 108 76 116 77 117 107 55 117 107 55 107 5	1 70 1 75 1 73 1 63 1 66 1 70 1 1 65 1 70 1 1 75 1 1 71 1 70 1 1	12 15 8 5 16 2 174 7	61.15	107.50 118.56 128.83 94.20 100.98 101.50 106.14 117.32	1.82
Sioux City Washington Waterloo *Miscellaneous	98	60.50 63,72 61.66	98.50 113.93 114.81	1.62 1.78 1.86	8 36 36	62.00 63.44 62.17	116.37 114.50 109.14	1.87 1.86 1.78

*Includes boys and girls in miscellaneous cities of one-half year tables.

TABLE NO. 10—CHILDREN RECEIVING WORK PERMITS. Heights and Weights of Boys and Girls Granted Work Permits July 1, 1918, by Locality.

PART VII-AGES 14 TO 16 YEARS.

	_	_ B	oys				Richs	
Locality	Number of children	Average height (inches)	Average weight (pounds)	No. of pounds per inch	Number of children	Average height (inches)	Average weight (pounds)	No. of pounds per linth
The State. Booss Bouss Burlington Cedar Rapids. Childon. Childon. Davenport Daw enport Das Motines Dubuque Fastredd Fort Dodge ovt Madison. City Kookuk Mason City Muscatine Newton. Solivein. Soliv	211 247 257 50 89 428 636 95 31 30 24 46 30 285 9 9 25 16 16 46 30 285 9 179	69.16 61.14 62.78 62.75 61.71 61.94 61.98 62.92 63.90 64.93 62.95 62.77 61.88 62.95 62.95 62.77 61.88 63.95 62.95 62.95 62.77 61.88 63.87 62.95 62.77 63.87 62.25 63.87	103.69 104.47 105.85 105.04 102.92 106.04 100.70 111.35 103.00 104.27 111.46 102.54 100.54 107.06 107.06 103.88 102.13 103.06 103.88 103.86 10	1.66 1.70 1.65 1.69 1.63 1.63 1.63 1.66 1.70 1.65 1.70 1.65 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.70	2705 211 55 115 36 26 26 192 309 125 5 5 10 44 44 2 2 351 7 7	62.63 61.90 62.56 61.86 62.11 62.60 63.65 62.60 63.65 62.60 62.50 62.50 62.50 62.50 62.50 62.50 62.71 62.54 63.75 62.60	106, 79 115, 98 102, 48 109, 51 100, 19 110, 99 104, 88 104, 67 104, 68 112, 42 119, 50 106, 10 101, 50 104, 65 117, 32 110, 25 110, 12 108, 85 114, 44 113, 75	1.75 1.25 1.27 1.26 1.27 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26

[&]quot;Includes boys and girls in miscellaneous cities of one-half year tables,

The following table shows the average development of Iowa children, which may be used in determining a normal standard in relation to weight and height. The same is given in comparison with statistics complied from New York City work permits three years ago by Frankel and Dublin for the Metropolitan Life Insurance Company, also from New York up-state cities, and those from a recent United States government report.

		В	loys		O PR	G	irls	
Age-Period and Locality	Number of children	Average Height (inches)	Average weight (pounds)	No. of pounds per inch	Number of children	Average height (inches)	Average weight (pounds)	No, of pounds per inch
14 to 15 Years: Iowa New York City Up-state cities U. S. Labor statistics	1,687 3,405 1,786	61.61 61.55 60.90 59.90	190,88 103,38 98,60 94,90	1.68 1.68 1.62 1.48	788 9,897 1,300	e#.56 61.19 61.46 59.90	165.16 104.54 102.18 98.40	1.66 1.71 1.66 1.66
15 to 16 Years Iowa New York City Up-state cities. U. S. Labor statistics.	1,523 1,988 841	62.80 62.74 62.17 62.30	106.70 109.69 105.09 107.10	1.70 1.75 1.69 1.71	917 1,823 522	62.55 61.59 61.96 61.10	107,96 107,57 106,90 106,10	1.72 1.71 1.71 1.73
14 to 16 Years Iowa New York City Up-state cities	3,210 5,393 2,627	62.16 61.90 61.31	193.69 196.71 100.68	1.66 1.71 1.04	1,706 4,650 1,822	62.63 61.35 61.60	106.79 105.79 103.30	1.70 1.72 1.68

To indicate the respective and proportionate development of Iowa boys and girls, the following table is submitted:

AVERAGE HEIGHT AND WEIGHT OF 10WA BOYS AND GIRLS,

		В	руж			0	irte	
Age-Period and Locality	Number of children	Average Height (inches)	Average weight (pounds)	No. of pounds per inch	Number of children	Average beight (inches)	Average weight (pounds)	No. of pounds per inch
14 to 14½	983 734 983 539	61,26 63,07 62,29 62,97	100.37 101.87 105.85 108.26	1.63 1.64 1.68 1.71	414 374 350 367	62.27 62.88 62.37 62.81	104,31 106,11 106,78 110,71	1.67 1.68 1.71 1.76

The table indicates, as did similar tables of two years ago, that at about 14 years of age, the girl has advanced decidedly further in physical development than the boy and that from that period on, the boy develops more rapidly in both height and weight, exceeding the girl in height at the age period 15½ to 16, but not quite reaching her average weight. The average height of the boy at the age period 14 to 14½ years is 61.26 inches, and at the age period 15½ to 16 years, 62.97 inches, an average growth of 171 inches; while the average height for the girl at the 14 to 14½ year period is 62.27 inches, and at the 15½ to 16 year period, 62.81 inches, an average growth of only .54 inches.

Comparing weights, the boy in the first age period averages 100.37 pounds and in the last period, 108.26 pounds, a gain of 7.89 pounds; while the girl in the first period averages 104.31 pounds and in the latter period 110.71 pounds, a gain of 6.40 pounds.

We find that Iowa boys and girls show a higher average in both height and weight than those from New York City, up-state cities, or from the cities compared by Boas for the State Board of Health of Massachusetts, or those made by Baldwin for the U. S. Bureau of Education in recent years.

Table No. 11 gives a correlation between heights and weights, which will help to determine a standard of physical development for use in issuing work permits.

TABLE NO. 11, HEIGHTS AND WEIGHTS, IOWA CHILDREN

Inches, Weights in 5-lb. Groups H Heights 10 Weights Correlation Between Heights

Average	10000000000000000000000000000000000000
Total	12 0-0-4-15 12 12 12 12 12 12 12 12 12 12 12 12 12
96 98	
202	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Est	
0.01	
200	
900	
22.09	
05 55	
12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0 0 0 0	
13.6	
9 27	m movemenme of
105 110 115 120 125 130 138 140 1 100 10 10 10 10 10 10 10 10 10 10 10 10	- non-ngagasana-
8 2 5	
191	***********
9131	
8 9 9	4-28588 0
8 5 5 5	
818	A STATE OF THE PARTY OF THE PAR
8.33	mnno-tagazasann
22.22	
227	
222	
222	966 × 750 × 1
20 20	
824	
Reight in Techni	

NAMES OF STREET STREET, STREET

TABLE NO. 11, HEIGHTS AND WEIGHTS, IOWA CHILDREN

5-lb. Groups. of Iowa Boys and Girls, Heights in Inches, Weights in PART II BOYS IS TO IS YEARS OF AGE. Correlation Between Heights and Weights

Average Weight	80 80 80 80 80 80 80 80 80 80 80 80 80 8	107 60
Total	4 0-10-018-658-858-858-858-850-40	35.53
25 22		*
1961		Ť1
238		
180 180		4
176		1
0.35		4
160		1
8 0 2		The Control
ReE		-
202		10
25 25		R
502	SECRETARISM SERVICE AND ADDRESS OF THE PERSON OF THE PERSO	n
10 22	THE RESIDENCE OF THE PARTY OF T	100
202		2
12 0 12	MINISTER DE LA CONTRACTOR DEL CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR	8
120	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	B
131	mengagae -	30
935		
100		9
100	-	73
222		
832	- 04 ++-8@888e+++	
232		-
852	m or mendeducin	-
12 m		+
252	DR DR IN DR DR PH	-
828		-
822		-
Beight in Larbes	THE COMPANY OF THE CO	The same of the sa

TABLE NO. 11, HEIGHTS AND WEIGHTS, IOWA CHILDREN

Correlation Between Heights and Weights of Iowa Boys and Girls, Heights in Inches, Weights in 5-lb. Groups. PART III-GIRLS 14 TO 15 YEARS

Average	100 00 100 105.08	
Total		2902
Han.	111111111111111111111111111111111111111	-
8 3 5		1
Res		1
888		T
573		T
12817		1
160		20
8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-
200		-
255		-
119		va.
332	0 -0	te
Nati		18
385		11
Est	nasse-H	22
N 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	подобото	=
Hai	- TENDERSONN -	R
110		22
100	nnagghadean	100
8 a 61	一一一一一一四十二五百百五十一一一	H
232	- - -	104
222	- 01 - 01 01 02 2 00 00 01 00	8
222		\$
832		12
RSR		=
RSE		
232		-
832		24
Bright in Isobes		Total cases

TABLE NO. 11, HEIGHTS AND WEIGHTS, IOWA CHILDREN

Groups 5-1b. Correlation Between Heights and Weights of Iowa Boys and Girls. Heights in Inches, Weights in

PART IV-GIRLS 15 TO 16 YEARS OF AGE.

Average Weight	85 99 99 99 99 99 99 99 99 99 99 99 99 99	107.74
Total	122888888888888888888888888888888888888	906
195 190 190		20
808		1
183		04
180	To los	94
179		
170		
208		-
161		99
159		1
150 151		9
140		O1
100		10
12 0 22		20
255		25
202		13
120 120		25
101		100
100		Ξ
8 of 100	I	113
10 to 10 to	- 1 00+8322525nn	132
828	nar#1#8#owowa	121
822	-	12
828		40
858	N00 100 -	=
\$5 55	Isom es	=
282		-
232		1
852		99
Height in Inches		Total cases
	211368258258825882585	To

NORMAL CHILD.

The perfectly normal child is accepted as the child of a given age who comes nearest the average height in correlation to weight, the number of cases being sufficient to correct the element of subnormal or undeveloped and abnormal or over-developed types. For all practical purposes, a child is normal when coming within a reasonable limit of the common average. For the reason that lack of proportion between height and other physical developments is accepted as an evidence of ill-health, care should be manifest in permitted deviations from the standard of exact average in the issue of work permits. This deviation is usually fixed at 15 per cent above or below and is considered safe for all practical purposes. The utmost precaution should be exercised in the greatly over developed child in either height or weight, especially weight, as some of the vital organs will usually be found over developed, making over exertion dangerous. The application of this method of arriving at safe standards for underdeveloped Iowa children is given in the following tabulation by sex in yearly periods. Children under 57 inches and over 68 inches in height are omitted because of limited number of cases.

The number of boys and girls is given for each height in inches, showing the average weight in pounds which is the standard for the particular height, the lowest reasonable safe weight when the 15 per cent deviation is allowed, showing the number of children below this lowest safe weight. The percentage of girls which is eliminated by this process exceeds the percentage of boys. The following table, for instance, shows that of 1,495 boys 14 to 15 years of age, 58 or 3.87 per cent were under weight, and of 1,424 boys 15 to 16 years of age, 46 or 3.23 per cent were under weight. Of 769 girls 14 to 15 years of age, 39 or 5.07 per cent were under weight, and of 884 girls from 15 or 16 years of age, 44 or 4.97 per cent were under weight.

SHOWING NUMBER OF BOYS OF EACH HEIGHT, AVERAGE WEIGHT, LOWEST REASON.
ABLE SAFE WEIGHT, AND NUMBER OF CHILDREN BELOW SAFE WEIGHT.

		14 to 18	Years			15 to 16	Yours.	
Height in Inches	No. of children	Average weight (pounds)	Lowest safe weight (pounds)	No. below safe weight	No. of children	Average weight (pounds)	Lowest safe weight (pounds)	No. forton unfo
5 5 9 0 1 1 3 3 4 4 5	71 08 122 219 179 221 169 167 84 95 23	88, 37 89, 53 60, 22 59, 83 100, 22 367, 19 111, 06 136, 28 117, 74 121, 70 123, 26	73 76 77 79 85 88 91 94 90 100 104 106	2 2 1 8 6 5 13 12 7	46 82 88 156 152 189 197 146 165 124 76 63	91.06 88.50 91.32 96.64 102.61 105.97 107.76 108.64 116.69 120.44 125.75 128.74	77 75 78 82 87 90 92 99 102 103 109	The same of the sa

SHOWING NUMBER OF GIRLS OF EACH HEIGHT, AVERAGE WEIGHT, LOWEST REASON.
ABLE SAFE WEIGHT, AND NUMBER OF CHILDREN BELOW SAFE WEIGHT.

57	19 20 37 94 111 134	92,94 93,29 93,23 96,94 99,51 108,61	79 79 79 82 85 01	1 2 3 1 4 10	13 31 38 100 88 120	95,00 89,74 96,86 92,44 103,77 106,00	81 76 82 79 88 91	- Designation of the last of t
63 64 65 65 66 67 68	111 99 70 48 20 6	108, 96 108, 86 111, 55 117, 76 117, 00 127, 16	92 92 94 100 100 108	6 3 4 5	130 150 76 77 33 13	110.51 110.59 115.73 117.03 121.00 124.24	94 94 98 100 100 106	

STREET TRADES-BADGES ISSUED.

Sec. 2477-a1. "No boy under 11 years of age nor girl under 18 years of age shall be employed, permitted or suffered to work at any time in any city of 10,000 or more inhabitants within this state in or in connection with the street occupations of peddling, boot blacking, the distribution or sale of newspapers, magazines, periodicals or circulars, nor in any other occupations in any street or public place."

Boys between 11 and 16 years of age may, however, engage in street trades after they have complied with the usual requirements for a work permit, except the filing of an employers' agreement. Upon compliance with such requirements, such a boy shall be entitled to receive from proper authorized officer, a badge which shall authorize him to engage in the above named occupa-

tions between the hours of 4 a. m. and 7:30 p. m. during school year and 8:30 p. m. during school vacation.

In enforcing the street trade law (Sec. 2477-a1), badges have been issued in Iowa during the years 1916 and 1917 as per following table: Clinton, Council Bluffs, Fort Dodge, Mason City and Oskaloosa, not reporting:

City	1916	1917
Loone	84	55
turlington	76	71
Burlington	381	173
edar Rapids	505	519
Davenport	-	572
Des Moines	444	60
Oubuque	8.3 *	95
owa City	32	69
Ceokuk	54	69
Marshalltown	38	81
daranine	182	244
Ameatine	137	61
Octumwa	718	1,100
Sioux City		174

Truant officer could furnish no record for 1916. *From May 1, 1916, to December 1, 1916.

The decrease at Iowa City is attributed to the fact that the daily paper has been discontinued. Davenport states that not more than 300 boys are engaged in street trades at any one time, as some work only a few days, some for a week or so and some for a month.

SPECIAL INVESTIGATION OF CHILDREN HOLDING WORK PERMITS.

For the purpose of obtaining a more definite and comprehensive knowledge, other than the data contained in the work permits issued to the children, as to reasons why children leave school at ages between 14 and 16 years, a follow-up investigation was made by Factory Inspector Ellen M. Rourke, to ascertain as nearly as possible from the children themselves their reasons for leaving school, and with the further purpose of arriving at conclusions fairly representative of general conditions surrounding children in industry. The investigation covered the following cities: Des Moines, Sioux City, Davenport, Dubuque, Cedar Rapids, Council Bluffs, Waterloo, Clinton, Burlington, Ottumwa, Muscatine, Fort Dodge, Keokuk, Marshalltown, Mason City, Boone, Iowa City, Fort Madison, Oskaloosa, Grinnell, Fairfield and Washington, which were selected because of the greater proportionate number of work permits issued.

Three hundred and seventy-five boys and two hundred and seventy-five girls were interviewed. This does not include the entire number of children holding work permits at the time of the survey, but only those who could be reached within the bried length of time available for the work, but it is a fair representation and conditions herein can safely be applied to the entire field of children working under the provisions of the Iowa child labor law. A small number of children interviewed were issued permits a few months before they were 16 years, but by the time of interview were past this age. They are included in these tables, because the working conditions as given when barely past his years would be applicable to the children between 14 and he years.

SCHOOL GRADES GIVEN BY CHILDREN.

The school grades given by the children as the grades they were attending or had completed at the time of leaving school are found in the following table. The table shows that 26 boys and three girls quit school in the incomplete sixth grade and also that 23 boys and seven girls quit school while attending or just after completing grades lower than sixth.

Some of these last named children were found working without work permits claiming to be past sixteen years. One case might be cited here of a boy in this group. When his school record was looked up it was found he was not quite fifteen years and had only completed the fifth grade. The record given by the school principal showed irregular attendance on the part of the boy indicating he was of the truant type. It appeared the family had moved into another district and the boy had seized upon this opportunity to quit school and go to work. The principal of the second school had enrolled two little girls of the family but knew nothing about the boy. Both the schools and the employer were to blame in this case. The school should have some definite way of keeping check on change of residence pupils and the employer should have demanded proof of age.

Some children were habitual truants, many of whom could show but three or four months' work during the entire time since leaving school, though past fifteen years of age. Again as in the previous investigation, one interesting fact disclosed was that truants with few exceptions are very generally considered poor workers These children went from one job to another in about the same way they had attended school. It seems true that if they had not been able to apply themselves in school they invariably showed little aptitude for work in the industrial field.

SCHOOL GRADES GIVEN BY CHILDREN. GRADE WHEN PERMIT ISSUED.

	Roys	Girls
High school—first year completed.	28	8
High school - first year incompleted High school - second year completed High school - second year incompleted	14	6
High school—second year incompleted High school—three years completed	1	
High school—four years incompleted	78	92
Grammar school—incompleted	40	36
Seventh grade—incompleted	23	19
Sixth grade—incompleted	15	5
rith grado incompleted Fourth grade completed Pourth grade completed	4	2
Third grade—completed	375	275

REASONS ASSIGNED FOR LEAVING SCHOOL.

Table No. 12 gives all the reasons assigned by the children for leaving school, except those that were out during vacation only.

One hundred twenty-one boys and 39 girls, or 24.62 per cent, were working vacation time only. Fifteen boys and eight girls are included in this group who said they might return to school, also six boys and three girls who wanted to take a business course. It is interesting to note the number who might not return to school. It seems many times the vacation jobs prove too attractive. The retarded child is apt to find the work easier and the remuneration so attractive that it fails to return to school although intending to do so when first leaving. There is a possibility that a large number of these found working vacation time only will never return to school, as many would say, "I have a good job and may keep on working." Many times spending money outweighs school and vacation jobs become permanent unless the child is under strict supervision.

Seventy-six boys and 86 girls, or 24.91 per cent, claimed necessity as the reason for leaving school. Sudden changes in the home, such as death of father or mother, parents parting, accidents or sickness which incapacitate a wage earner often cause the chil-

dren to start to work. Two boys told of their fathers, in each case leaving home, thus causing the boys to start to work. When in the meantime the fathers returned home, the boys feeling they would be behind in their class and being out of touch with school continued at work.

Eighty-three boys and 58 girls, or 21.7 per cent, gave dislike of school as their reason for going to work. Many of them were found to be behind in their grades—retarded pupils, who through irregular attendance or poor learning ability became discouraged and dropped out. Only 19 boys and 24 girls had completed the grades but did not care enough for school to start to high school. This leaves by far the larger number who were in the incomplete grades.

Thirty-five boys and 29 girls, or 9.85 per cent, make up a group which gave preference for work as the reason for leaving school. These are very often the ones who desire spending money, money to buy better clothes, to have their own money to get what they want like the boy and girl next door. Many times association of the different social groups in the schools causes the poorer children to become dissatisfied. It was found too in this number that many a boy and girl went to work because the boy and girl they associated with were working and they could get them a job in the same place.

Forty-nine boys and 46 girls, or 14.61 per cent, are at work largely because of parental influence; 19 boys and 17 girls whose parents were separated were found in this group, 27 boys and 20 girls gave moving as the cause of not returning to school. The greater part of this group were found among the children whose parents were separated.

Eleven boys and 17 girls, or 4.31 per cent, compose a group which gave poor health, weak eyes, too nervous to study, etc., as a reason for leaving school, claiming that they could not stand the school work in their impaired condition. One boy is included in this group who after staying three years in the seventh grade quit school and decided to learn a trade.

School and Grade at Time of Leaving. TABLE NO. 12-REASONS FOR LEAVING SCHOOL.

S stoll Service as SERVICE ARRESTS SERVICE SER	g syoli ≈ u+ a= a a + 2	Bors
	ğ sun	

SIZE OF FAMILY.

As shown in the following table, No. 13, large families do quite frequently cause the older children to be put to work earlier than if they belonged to a smaller group, and the early starting to work of the eldest child seems to have a decided tendency to stars the other children in the family. Oftentimes during the investigation some would say they did not have to start to work but wanted to do so because the older brother or sister was working Quite a few of them were found working in the same place with the older brother or sister. The relatively small number of large families as compared with the number of average and small sized families makes the per cent of children from large families found working greater than it would at first appear to be from casmi reading of the table. However, it was found during the investigation that many of the parents of large families were doing better for their children educationally than some of the parents of smaller families. Very few separations or divorces were found among parents of large families. It is quite apparent that a deeper and greater responsibility keeps the family undivided.

TABLE NO. 13-FAMILIES AND WORK PERMITS

Statistics as to Families from which Children Came who secured Work

Permits.

Part I			Part II		
Children in Family	Each	Number in Each Size Family The Number in Order of		Number of Each Order of Birth	
	Boys	Girls	Birth	Boys	Girl
One Two Troe Three Four Flive Six Seven Eight Nine Ton Eleven Twelve Treite Tre	22 56 72 50 49 46 49 16 9 5	5 28 29 43 48 43 28 22 10 9 6 2	Only child Eldest Second eldest Third eldest Third eldest Pifth eldest Sixth eldest Sixth eldest Sixth eldest Noventh eldest Eighth eldest Ninth seldest Youngest	22 124 82 47 20 11 8 3 4	63 63 53 53 53 53 53 53 53 53 53 53 53 53 53
Total	375	275	Total	375	271

TABLE NO. 14-FAMILIES AND WORK PERMITS.

Size of Family by Number of Children and the Number of Work Permits— Children of Each Family Size by Heads of Each Sized Family.

Number of Children in Family	Pather	Mother	Step- Father	Other Relatives	Non- Family Group	Total
One	19 55 68 69 68 70 61 34 18 12 6			1	1 2 2 1	28 85 101 93 97 89 77 38 19 13 7 2
Total	486	100	35	22	7	650

LOSS OF PARENT OR SEPARATION OF PARENTS AND EFFECT.

This group comprises 112 boys and 85 girls, or 30 per cent of the entire number of children interviewed. A brief synopsis is given as follows:

Forty-seven boys whose fathers were dead, lived with their mothers, 17 in this group had step-fathers, 14 of these step-fathers were the head of the home, but the other three step-fathers left home because of drink and other women. In this group of 47 boys, 33 mothers were the head of the family, 13 owned their homes and three mothers with the help of their children, were paying for homes. Seventeen mothers were in rented homes with an average rental of \$10.50 per month. Only three mothers in this group of 33 were working outside of their own homes. One boy in this group, just past 16 years, was found working in the telegraph office making enough money after school to support himself and three other children, who were in school also, while their mother was in the hospital. The average size of this group of families was 4.5.

Of 27 boys whose mothers were dead, 22 lived with their fathers. Eight had step-mothers, two of the eight boys with step-mothers lived with other relatives. Three fathers were away and the boys were living with other relatives. Only in one of these cases did the father help financially, in the other two cases the whereabouts of the father was unknown. The average size of this family group was 4.5.

Of 32 boys whose parents were parted 28 lived with their moth-

125

ers. Five of these boys had step-fathers, one of these step-fathers left home because of drink. Twenty of these boys were living with their mothers in rented homes, with an average rental of \$10.25 a month. The average wage of the mothers was \$1.95 per day; three mothers owned their own homes. Three boys in this group lived with their fathers, their mothers having left home and married again. One boy was living with his grandmother because his father and mother married again. Average size of this family group 3.5.

Six boys were found whose parents were both dead; two lived with grand-mothers; two lived with their married sisters; one had adopted parents and one boy could not get along with his relatives and went to live with friends.

Of 35 girls whose fathers were dead, 34 lived with their mothers. Seven of these girls had step-fathers. One girl in this group had to leave home because her step-father drank and abused the family; nine mothers owned their own homes, and only three mothers in this group worked outside of their homes: five mothers kept roomers or boarders; two mothers with the help of their children were buying their own homes. Twelve mothers were living in rented homes, paving an average rental of \$980 per month. The average wage of these mothers was \$1.55 per day. The average size of this family group was 4.7.

Of 18 girls whose mothers were dead, 11 lived with their fathers, seven of these girls had step-mothers, two girls who had stepmothers were living with other relatives, one girl of this number said she and her younger brothers and sisters lived with their grand-parents. Their father married again and abandoned his children. Twice he was taken into court but each time evaded the responsibility of helping to support his children, though he is a stationary engineer making \$175,00 per month. The second girl left home because she could not get along with her stepmother and went to live with an aunt. Four girls lived with other relatives, two of these did not know where the father was. One girl was found who had no home at all, but was living with another girl who worked in the same place with her. They were paying \$2.00 a week for a room with the privilege of doing light housekeeping. Average size of this family group 4.3.

Of 28 girls whose parents were parted, 26 lived with their mothers. Nine in this group had step-fathers, two of this number could not get along with their step-fathers, the first girl leaving home and the second girl being compelled to go to work to make her own way. Ten of the mothers in this group lived in rented homes with an average rental of \$9.05 per month. The average wage of these mothers was \$1.90 per day. Only one girl of the 28 lived with her father. Her mother went away from home and obtained a divorce and in the meantime married again. The mother was a woman of very bad morals according to the information given by the daughter. Average size of this family group 3.2.

Four girls whose parents were both dead lived with other relatives. Two of these girls lived with grand-parents and the other two girls lived with their married sisters. Average size of this family group 5.

It is interesting to note the number of children living with fathers when the mother was dead, 33 out of 45 children living with their fathers. Contrast this with 81 out of 82 children living with their mother where the father was dead.

In divorce cases, out of 62 children whose parents were parted, only four children were living with their fathers in contrast with 54 living with their mothers. Why this is so is a question that arises. Is it because the court recognizes a greater claim on the part of the mother or is it the father finds it easy to east off the responsibility and is willing to leave it to the mother? In but a few of the divorce cases in the survey did the father help.

In many instances children who had lost a parent were better equipped educationally for industrial life than those with parents, though in many cases the struggle was almost at the breaking point. It was apparent in some cases that when there was a stepparent there was often a feeling on the part of the child that it should make all or part of its own way, and many times the mothers were anxious that the child should help. One boy said that when he worked his step-father was good to him, but when he was not working he would abuse him and make it hard for his mother, so the child chose between the two evils and quit school and went to work.

WAGE OF FATHERS AND ECONOMIC CONDITIONS OF HOME.

Out of a total of 650 children included in this survey, 285 of these were able to give wage of their fathers, and whether the home was owned, bought or being rented. It was quite evident while interviewing the child that the greater the economic pressure in the home the more the child knew about the family exchequer. The following table No. 15 gives the information obtained from this group.

The following number could not give complete information: 83 children whose fathers were seasonal workers, 22 children living with other relatives, seven children in the non-family group, 56 children whose fathers were either retired farmers, owning own business or father earning high or comparatively high salaries, and 197 children whose parents were dead or separated. (For information of this group, see title "Loss of Parent or Separation of Parents and Effect.")

Each Classified Dally Wage of Father with Average Number of Children in Family for Each TABLE NO. 15-CHILDREN OF WAGE EARNERS.

	PART	1.1		PART	тп	,	PART III	111	
	2	Renting Homes			Ожи	Homse		Buying 1	Romes
Number of Children in Group	bet day of father Average wage	yecage number of children	Average rent	Number of children in Group	Average wage	bet family of children Average number	Number of Children in Group	per day of father verage wage	Average number of children yer family
111111111111111111111111111111111111111	に の は は は は は は は は は は は は は は は は は は	**************************************	10 10 10 10 10 10 10 10 10 10 10 10 10 1		等 一年中央市政政政政政政政政政政政政政会公司 開放的政政政政政政政政政政政政会公司 開放的政政政政政政政政政政政政政会会 開放的政政政政政政政政政政政政 開放的政政政政政政政政政政政政 開放的政政政政政政政政政政政 開放的政政政政政政政政政政政 11 12 12 12 12 12 12 12 12 12 12 12 12 1	在我们们们的内容中面对于可以应该在下口中们们 在我们中的专业中的中心的对于下面下中心在后的		######################################	
	188	o es Selei	88		14 14 14 14 14 14 14 14 14 14 14 14 14 1	10004000			

JOBS, WHEN AND HOW FOUND,

It was found children close to certain industries where the nature of the work did not require much skill were found working there. Many times children seem to make no choice as to what field of industry to enter, but apparently choose that most convenient. A mill or factory which can employ unskilled labor being in a certain locality generally proves a drawing factor for the children and many children would remain in school but for the wage lure of the mill or factory close by.

From the table No. 17, "Where the First Job Was Found," it is shown that by far the larger per cent of the children had or knew they could get a job before leaving school, as 78.2 per cent of the boys went to work immediately, while this is true of 50 per cent of the girls.

TABLE NO. 16—HOW THE CHILDREN FOUND THEIR JOBS.

The Following gives the Source by which the Children Found the John They were in as given by Themselves.

Source—	Boys	Oleh
Advertisement in paper Through assistance of parents Through assistance of riends Through assistance of relatives other than parents Touch their own jobs olicited by employers Through help of school Through family phisician Employment Bureau	57 45 33 213 12 1	332 65 50 134 4
Total.	375	270

TABLE NO. 17-WHEN FIRST JOBS WERE FOUND.

The Following is given to show the Period during which the Child Entered Industry after Leaving School.

	Boys	Girls
Per cent of those going to work immediately. Per cent of those going to work within a month. Per cent of those going to work between one and six months. Per cent of those going to work between six and eighteen months.	78.2 15.2 5.6 1.0	50 18 24 8

JOBS NOW HELD.

By tar the larger number of children gave their preference for jobs which would entail the most careful preparation either in school or apprenticeship. The few children found working in industries where they might learn a trade were kept busy running errands or doing odd jobs. When table No. 19 showing their preserve is compared with table No. 18 showing their actual employment, it must be plain to all that only in few instances are children employed where the chances for advancement are at all favorable and the training of use to them later when their earning capacity is at the maximum. In most cases where they were empl. ved the work was of the kind that after it was once learned it required no thought but became merely a mechanical performance.

There can be no doubt that there are many misfits in industry, and as such they are bad for the industry, bad for the individual and bad for society. The majority of the unemployed or those who change employment is composed of individuals who cannot demand work in any particular line. The aim of the state then should be to train boys and girls in some given employment. Children should be equipped with better educational and industrial qualifications.

TABLE NO. 18-JOBS OF THOSE HOLDING WORK PERMITS.

	Doys	Girls		Boyn	Giris
			Messenger Service-		
Factories-	10	76	Telegraph	92.	2
lutton	11	10	Packing house	3.1	
Hocuit	12	20	Special delivery	- 3	
nat Ment mitt		- 1	Errand, printing office	- 2	
Voolen mill		10	The state of the s		W.C. Co.
llove	9	12	Total	1438	2
Mgar	6	14	A-Drill		
lowery	4		Stores-		
andy	7.2	# N	Messenger and errand	85	3.5
scerali and Garment	(4.	31		*	- 0
Sekie		100	Clerk.	multin.	7
Packing house	1.75	1	Stock	3	
sash and door	19		Office	100	
Publishing	7		Bundle and wrappers		1 5
funntain Pen	2	2000	Cashlers		1 1
Shipe	- 5	- 30	Ten cent	SAN THE PARTY	1
Hadert	1.5	14	Grocery	9.	
	- 2	#	Drug		and Miles
Box	1			-	- 0.0
Farming Implements	24		Total	32	- 27
stock yards					
Brush	8 7				1
Furniture		2	Miscellaneous-		
Musical instruments	1 7	3	Office	9	
Dental supply		2	Restaurant	- 3	5
Lightning rod		-	Shoe shining	7.	- anna
Automobile - body and			Laundry	L	3
\$100	10	1	Dry cleaners	.2	- consider
Broom	3	2	Railway shops	20	100000
Foundry and Machine	7		With comment	1	20000
Miarch	3	BECKER STA			I service
Twine		2	Hotel Billard hall		2000
Chetalcal		1	Dillard Ball		
Medicine		. 4	Section 1	31	- 4
Hat.			Total	1 -5	
Caffee, tels and spice	4				
Ciay products					30
The second second	200	238			1
Total	184	220			

TABLE NO. 19-PREFERENCE OF CHILD FOR JOB.

The following Statement Shows the Number of Children Preferring Each Trade or Occupation.

BOYS.	375	MISCELLANEOUS	49
Cannot make choice	213	Farmer Stock raiser	22
PRADES	92	Merchant	2
Machinery	26	Business manager	2
Machinists. Telegraph operators.	15	Commercial	1//2
Engineer Operators		Company to the second s	- 11
Engineer	5	Office work	4
Electrician		Druggist	- 2
Mechanic	14	Contractor	1
Garage mechanic	- 2	Salesman	- A
Foundry and Machine	3	GIRLS	275
Printer		Cannot make choice	199
Carpenter	2		15/9
Caping maker	1	TRADES	23
Filling	- 1	Drossmaker	-
	1	Seamstress	3
	1	Machine operator	- 7
Butter maker	1	Cigar maker	- 4
Shoe maker	1	Machine operator	- 1
CHOYO CULLER	2		-
	1	PROFESSION	7.16
Butcher	2	Teacher	- 6
		Nurse.	7
PROFESSION.	22	Bookkeeper	-
	- 1	Musiciati	3
Civil engineer	12	Doctor	- 3
Cartoonist	- 4		
Doctor	7	MISCELLANEOUS.	85
Doctor	0.00	Stenographer	26
Lawyer.	-	Office work	- 8
Dential	-	Cheric	- 12
Veterinary surgeon. Mechanical drawing	100	Cashler	- 1
Aviation	- A	Factory	- 1
Aviation	2	Farm	- 1

TABLE NO. 20-LENGTH OF TIME IN PRESENT JOB.

The following shows the Length of Time Children had worked in their present Jobs at the Time of the Investigation.

	Boys	Girls		Boys	Giria
Less than one month	102	40	Between 9 and 10 months	5	12
Between I and 2 months.	80	57	Between 10 and 11 months	- 0	7
Between 2 and 3 months.	40	21	Between 11 and 12 months	1	9
Between 3 and 4 months.	27	20	Between 1 and 155 years.	24	23
Between 4 and 5 months.	20	12	Between 1 1/2 and 2 years.	- 9	5
Between 5 and 6 months,	1.0	6	Between 2 and 236 years.	9	*****
Between 6 and 7 months.	22	20	Between 2 1/2 and 3 years.	200215	2
Between 7 and 8 months.	10	6	The state of the s		
Setween 8 and 9 months.	- 15	15	Total	375	275

JOBS HELD AND TIME IN JOB WHEN CHANGING.

A showing of conditions would not be complete without an indication of the length of time worked in each job before a change was made. In this showing it is necessary to explain that cases are meant and not individual boys and girls. For instance, the same boy or girl may have held one job less than a month and still another of the same or other length of time. He would therefore be included in all the periods in which he worked as a separate case.

In making the survey the means of getting the information was obtained by following up the work permits issued for the children. The changes were so frequent by some of them, that when the firm was called upon to interview the child for which they had a work permit, the child would not be there. When the question was asked of some of the employers where the child was they would invariably say they did not know, that many times when they thought they had a good boy or girl they would fail to show up and would quit without giving any notice.

Two noticeable facts observed during the survey might be given here. First, that the boy changed jobs more frequently than the girl, and second, while the boy returned to school more frequently than the girl he is not as careful to complete a grade before leaving school, but leaves at any time.

TABLE NO. 21-NUMBER OF JOBS HELD.

The following contains the number of jobs in which the child had worked at the time of survey, and the number of children by sex of each job.

-	Boys	Girls		Boys	Girls
First job	363 320 55	163 74 23 11	Pirth job	275	275

TABLE NO: 22-LENGTH OF TIME IN JOB BEFORE CHANGING.

Less than one month: 58 11 Between 1 and 8 months. 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Boys	Girls		Boys	Girls
Hetween 6 and 7 months 6 1 10	Between 1 and 2 months. Between 2 and 3 months. Between 3 and 4 months. Between 4 and 5 months.	52 12 23 7	20 10 11	Between 8 and 9 months. Between 9 and 10 months.	1 2	24124

TABLE NO. 22-REASONS FOR CHANGING JOBS.

There were found 183 boys and 100 girls who had changed jobs since going to work. Of these 84 boys and 34 girls made the changes from non-personal reasons or motives, while 99 boys and 65 girls made the change from personal motives. The reasons given are as follows:

Total S2	Girls
More money and better job. More money and better job. Work was too heavy. 15 16 17 17 18 18 19 19 19 19 19 19 19 19 19 19	100
Nork was too heavy	100
Treed of job del not like jub lifted for extra work lifted for extra work o learn a trade o constant standing o constant standing location of the standing location of the standing variety of the standing land to direct to work for foreigner variety of the work where they could live at house lid lots want to work for foreigner loud not make enough money at piece work ork on farm to heavy out not make enough money at piece work ork on farm to five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on five up to agreement lid lots want on work up to a five	00
bid not like job	120
lired for extra work. 17 o learn a trade. 17 oo constant standing. 1 low to home. 1 low to home. 1 lired for knowledge to the standard of the	3.00
o learn a trade. o learn a trade. o constant standing. li over too dirty. li those to home. I li those	-
oo constant standing fore too dirigs lose to home. I also to home. I also to home. I also to home. I also to work where they could live at home. I also to work for foreigners. I read to operate to home work. I work of facts to heavy. I make the control of	2
fork too dirty. Fork too dirty. Santed to work where they could live at home. I did not want to work for foreigness. I did not want to work to work. I did not work to work to work to work to did not so heavy. I did not make enough money at plect work. I did not work to w	-
lose to home	- 2
'asted to work where they could live at home. I lid not want to work for foreigners. I lid not want to work for foreigners. I referred factory to house work. I raid to operate machine assigned. 2 could not make enough money at piect work. 2 could not make enough money at piect work. 2 could not get along with other boy. I limited to the state of the stat	13
id not want to work for foreigners. I referred farsiery to house work. Traid to operate machine assigned. 2 outla not make enough money at piece work. 2 outla not make enough money at piece work. 2 outla not get to be beary. 1 may be to beary. 1 may be to beary. 1 may be to beary. 1 may be to beary. 1 may be to beary. 1 may be to beary. 1 may be to beary. 1 may be to be to bear bear bear bear bear bear bear bear	7
referred factory to house work. Traid to operate machine assigned. 2 ould not make enough money at plees work. 2 ould not make enough money at plees work. 2 ould not make enough money at plees work. 2 ould not make enough money at plees work. 2 ould not get along with other boy. 1 in myslever did not five up to a parecement. 1 as bad of KRSONAL BEASONS, Total. 84 as bad or KRSONAL BEASONS, Total. 85 ould not stand sured of tobacco. 45 ould not stand sured of tobacco. 46 incharged. 67 ckriess. 1 ords officered to to ords of business. 1 1 ords officered to business. 1 1 ords officered to business. 1 1 ords officered to business. 1 1	2
Traid to operate machine assigned audit not make enough memory at piece work ork on farm too heavy memory at piece work ork on farm too heavy memory at piece work ork on farm too heavy memory at piece work ork on farm too heavy memory at piece work i possible of the piece	8
ould not make enough money at piece work oris on farm too heavy ould not get along with other boy ould not get along with other boy in many too the service of the serv	9
Ords on farm too heavy	- 1
ould not get along with other boy 1	4
Imployer did not live up to arrivement 1	500
NON-PERISONAL REASONS, Total 54	
28 bist of 54	
ack to school	24
ould not stand suell of tobacco	174
	19
secharged	590
decrease	4
Fin went out of business 1 emoyed from city 18 ork affected health 18	- 1
emoved from city 1	130
ork affected health.	-11
	-3
	2
	4
ork hard on eyes. 1 of old enough 1	2

WAGE OF CHILDREN BY SCHOOL GRADES.

The increase in wage, rather than necessity, in many cases, in the past two years for children workers, has caused many children to leave school to become wage earners. Too many parents think too much of the immediate earnings and too little of the future outlook of the children and permit their children to work before they are equipped for industrial pursuits. Unskilled and untrained they must go through life handicapped. Quite a few boys were found working in the same place with their fathers. One boy who was working with his father was getting the same wage as the father.

The following table is a showing of wages of the children by school grades.

No cases were found where the children were not treated with reasonable consideration, but in many cases it was found, especially where they were working at piece work or acting as helpers to adults, and also where the nature of the work required heavy lifting, that the children could easily overwork and lift beyond their strength without any coercion on the part of the employer.

	InsoT	四日の小田高十年の中の日の三日の一十二日 一一一日 一日日
	daid many 216.	
	this rear 252	
	daid energ E	
	upper g on 561	
	I year bigh	
	daid schoom I	
Girls	Tammar)	
0	H-mmmerD	
	7th grado	n nne-na-nnene -nn
	She'n (f-d)7	n mms
	opust tugo	
	oberg H-dio	
	openii meqo	
	obern H-did	THE STREET AND THE STREET, STR
	opeza que	
	Sed grade	
	1030/L	マラロの意用の中語を内容的有限的表現の場合をサーニーの中の中の中の中の中の中の中の中の中の中の中の中の中の中の中の中の中の中の
	unid steem bill	
	255 Years bigh	
	3 house pitty	
	nigh	
	1 Near blat	- - - - - - - - - -
	data adanom	
2	Communication of the second	
Boys	d-nammar0	# mm mm mm mm m m m m
	abetg div	
	abera ti-tir	
	outs grade	
	obarta ti-stro	III I I I I I I I I I I I I I I I I I
	abety this	to a second
	apeză (I-dig	
	oberg dis	
	oberg big	
-	COLUMN TO SE	
	Verkity Wage	######################################

This report would not be complete without showing the spirit of patriotism among the working children. When the question was asked how many children were in the family the child never failed to give particular mention of the brother in the army.

There are represented 79 families in the following group, and

the number of boys in the army as follows:

One family of 12 children had two sons in the army, two families of 11 children each, had five sons in the army, four of these were from one family; two families of 10 children each, had three sons in the army; four families of nine children each, had four sons in the army and one in the navy; 13 families of eight children each, had 19 sons in the army and two sons in the navy; 19 families of seven children each, had 24 sons in the army and three sons in the navy; 15 families of six children each, had 18 sons in the army and one in the navy; 14 families of five children each, had 16 sons in the army; five families of four children each, had four sons in the army and one in the navy, and five families of three children each, had five sons in the army and one in the navy.

Many of the children were buying thrift stamps and quite a few of them had purchased liberty bonds.

WAGES OF FARM HELP.

The following table of wages of farm help is based upon returns by township assessors made to the secretary of the state board of agriculture each year except 1914, returns for that year being omitted because of the taking of the state census.

Averages are given for summer and winter wages covering an eight-year period. These show a steady trend upwards, except for winter wages, 1915, until the end of 1916, and for the following year took a decided jump, undoubtedly owing to war necessities withdrawing men for both military service and labor for war activities. . The yearly averages for state appended:

1910	Summer .\$28.15	Winter \$21.13
1911	. 28.61	22.35
1912	. 30.11	23.26
1913	. 31.68	24.65
1915	. 32.70	24.61
1916	. 33,30	25.26
1917	. 38,95	31.55

From this it will be noted that increase for summer wages was 38.37 per cent for the eight-year period, and of winter wages 48.37 per cene; winter wages for the period increasing decidedly more than summer wages. Table by counties follows:

2	
ж.	
5	
ė	
2	
Ε.	
3	
2	
c .	
a .	
a	
S	
2	
-	
9	
9	
2	
200	
4	
2	
20	
22	
-	
-	
me .	
2	
169	
22	
CD.	
2	
52	
-	
_	
15	
6	
, GI	
15	
15	
15	
BOR,	
BOR,	
15	
BOR,	
BOR,	
BOR,	
RM LABOR,	
ARM LABOR,	
RM LABOR,	
ARM LABOR,	
ARM LABOR,	
ARM LABOR,	
ARM LABOR,	
ARM LABOR,	
), 25-FARM LABOR,	
O. 25-FARM LABOR,	
O. 25-FARM LABOR,	
), 25-FARM LABOR,	
O. 25-FARM LABOR,	
O. 25-FARM LABOR,	
LE NO. 25-FARM LABOR,	
ABLE NO. 25-FARM LABOR,	
BLE NO. 25-FARM LABOR,	

1017	Vidition operate bing separa quod musi autom mainiw	世紀日本地名の日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本
-	yldanom ugaravi. bisq sot s s qlad musi edimum mumme	国民党の表現がある日本に対象的対象を対象に対応においますをある。 対象の大きの対象が対象が対象を対象を対象を対象に対して表現を対象が対象を
9161	than same a blad some blad some than the same a substance and the	本名其代本证明自由是法证证的比如共享要当时产度包含产品发达8年 常数目的有效的共享性的数据的主义共享或和的主义的主义的主义的主义的。
181	Average months (arm bing carries (arm bing carrie	本権政長はは代表を受験であるだられませれるなりませんのようにあるようには、 本権に対しての対象がある。 本権に対しての対象がある。 本権に対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がある。 本をは対象がななる。 本をは対象がなる。 本をはなる。 本をなる
9	Qldznom snawyż bisą segaw spod mrsż solinom rotniw	wensestanders seen seenschan
1010	gldinom enavya bisq seps s glosi arral salmom sammas	182882872 1828 保存路前用前指用品的股票的 日本路径路路路底 日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本
	ylatnom ogenera bing somew gled mratt allmom menier	電車車 出生を見るに急れる対象の名のは、 のののののでは、 のののののでは、 のののののでは、 のののののでは、 のののののでは、 のののののでは、 のののののでは、 のののののでは、 のののののでは、 のののののでは、 のののののでは、 ののののでは、 ののののでは、 のののでは、 のののでは、 のののでは、 ののでは、
1913	Average monthly farm help states puld farm help street monthly farm a second se	CARCESTER RESERVICESER RESERVICES AND CONTROL RESERVICES AND CONTROL C
44	Alerage monthly wages paid to a paid	**************************************
191	Artrage monthly bled or the district forms of the district forms o	CHECKERS STATES OF THE CHECKERS
	Average mentilly bled coasts farm feet admen mentile	MNSCHARLSSSHIRGIBSASSBLACKERSER HREEDISGERICHESENDESHILBERARESHER
161	Account the factoring form following form following forms for following forms for for forms for forms for forms for forms for forms for forms for for forms for forms for forms for forms for forms for forms for forms for forms for forms for forms for forms for forms for forms	WANGALAWARARARARARARARARARARARARARARARARARAR
0	Anton manual form of the print solution for the print solution and t	STREET AND STREET AND
turo	Stiffsoo in oggree bing rogare sted series schoon menning	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
	County	datable databl

AMERICA MARKA																																
									-			170																		770	-	7
18881	223	222	芸芸	Z:	212	8	12.5	32	75	3.5	311	ta.	RI	9 (1	41	35	120	185	1	8	25	8 8	8	8	81	8:	200	00	88	8	P 18	00
(日報点)	188	異な	48	91	n H	-	9.5	200	25	77	100	70	早;	611	121	100	17	20	45	37	9	0.00	7	×	0	#1	17	=	42	12	37	22,
REES	888	112	22	21	nn	200	10	98	-	818	100	900	21	28	21	81	=	8:	100	3	-	200	120	=	2	51	315	380	=	123	200	10
tuan:	HAR	99	22	200	100	22	81	11	20	R:	183	20	21	200	H	27	R	22.7	19	32	12:	100	25	H	100	0.0	T.	TE.	16.	20.	70 11	138.3
BBE	282	818	22	181	200	2	100	8	10	0.0	100	8	25.5	14	91	ng	常	81	2 24	10	0.0	400	22	07.	81	100	000	2 25	125	28	002	101
RES	222	RR	nn	12:	H	25	50.00	178	200	100	113	33	H	111	21	nn	122	Di:	32.0	18	200	200	84	22	12:	7	22	34	100	23	22	23
RECE	222	88	R SI	201	3.5	夏	12	122	8	30	122	101	2	2 2	9	12	120	7.	2.5	00	98	212	123	2	121	2.0	15	18	22	150	92	12
INNE	SS:	HH	HH	545	12	04	N N	111	30	21	17	20	22.1	IR	#	41	37	100	45	R	14 6	177	30	n	8	N.	15	55	21	422	100	286
HE																															200	
HAR:	HER	84	RR	76.5	RH	與	200	123	-	107	100	8	12.5	121	=	-	12	21	250	12	2.5	20.0	将	30	a:	**	17	H	特	32	HH	200
218:	252	in	N II	121	18	121	ų.	200	8	81	112	10	73	100	8:	18	123	21	10	F.	999	288	22	8	81	81	38	98	31	90	613	- 19
3283	REE	35	nn	10.7	5.55	=	2	101	2	97	20.0	202	n																		nn	
8181	022	818	22	181	35	81	2	11	93	2.9	9	2	0	18	15.5	200	2	52 :	2 19	191	7.0	- 25	8	ST:	22.5	2.5	20	100	90	0	13	0.1
HAR												8		OR.	ti	N IN	×	36.	325	30	200	125	115	20	H	i:	100	ä	32.1	30.3	33.7	27.1
1:485	200	22	Nt:	12.1	0.52	01	25	Di.	100	n is	9	12	13.5	in	ni	2 12	**	#1	0.00	100	9 :	100	10	-	3	25	20	-	-	0	24.65	-
nana:	RRR	自由	RH	X;	18	19	RE	H	S.	S.F	75	8	100	38	#1	110	#	=	16	27.	200	215	38.	21		- 1	1	17.	22	38	25.4	23.8
2881																																
KNE:	188	82	nn	mo	nn	22.	na	3	82	20	100	B)	513	131	2015	H	調	95 0	12	61	200	110	ti	a:	81	H	30	30	31	31	300	25
8281	288	100	22	81	5 51	8	18	8	31	88	10	Q:	91	12	100	120	8	E	90	===	38	12.5	25	101	81	2.0	33	- 12	2	01	202	125
nasi	ERS	當	四日	111	i to	91	2.5	25	21	88	200	容:	200	in	=	100	K	15.5	100	100	n y	12	H	75	e i	i s	30	11	R	521	N E	100
1222																																
BREI	188	RE	RR	St:	R	18	11.00	29	52	22	250	57	51	12.0	MI.	2.8	×	100	18	F	R.C.	160	30	2	91	71	18	30	317	8	RR	300
12821			湖埠																	8						12	100	de	牌	in:	88	623
言葉書	Rat :	98	1100	21	RE	138	400	180	201	27	2	12	m	n pi	201	7.7	100	21	187	8	17	100	55	20	138	20	100	10	22	122	nn	EZ.
HEAL	881	22	12	25	N IS	83	RE	R	2	20	is	16	RE	13	81	- 5	55	HI	S	9	177	200	=	g	şi	25	12.0	10	**	21	28	20
公百百	181	nn	RI	223	K 22	2	n:	120	10	N B	120	551	Z:	in	Z:	e s	英	E:	100	91	28	155	1	"	n i	T S	100	25	90	ni.	22	20.
HH	111	11	1	100	11		000	11	1	1	H	1	F	M	1	-		*	-	1	1	111		-	+	+	-	27		200	1	200
1111	111	13	-	1	1				1	-		1	-		1	-		****	-		1		1	1	***	-	16		N		APTIN	
5 5 5 5																																
'nyette Toyd 'ranklin	Freen	lou.	andin	arriago.	Howard	oldt			Janper	ohmen.		Keokuk	th.				Madison	in.	Marshall	Mills	100	9	OTTO	dine	0	-	160	uth	ocabonta		slek Slek	Runnspold

716	Yldinom unersyA. place passive qlod mrai qlod mraiv	或是	8 31 50
10	Average monthly bid district help district h	を	\$ 28.95
9161	Thinous operary bing sector qiad arrat adinosi usinin	RESERRATE STREET	2 11 13
10	Yldmom ogenvA bleq sonew disd mysl adinom semmus	TENERROUSHERRERS TO THE TRANSPORTED TO THE TRANSPOR	00 00 1
191	Yidinom ogstave. bleq engare qind mxal addinom totalw	中央第二次第二次第二次第二次第二次第二次第二次第二次第二次第二次第二次第二次第二次第	19.61
1015	Average monthly ages paid trait form help stimms animus .	日本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本	St. 22 m
	Average monthly wages paid farm belp white menths	型的	\$ 21.63
101	Yerage monthly bids poly farm help training the summer the summer training at the summer training trai	AN DESCRIBEDANCE OR DESCRIBED OR DESCRIBED OR DESCRIBED OR DESCRIBED OR DESCRIPTION OF DESCRIPTI	8 11.88
21	Yddinom oxersyA bleq sogaw qled musi sdroom seiniw	ではは、日本のでは、	1 23.35
161	Average monthly farm held form held munit	11日の12日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日	30.11
- 11	Average monthly for the poly angers for the poly strong poly and a poly strong poly and a poly a p	20日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	22.25
101	Average monthly form help somether months	825次名名は日本は日本は日本の大きな名が 日本日本本の本本の本本の本本の本本の本本の本本の本本の本本の本本の本本の本本の本	19.85
100	Vidianim agarar A blaq sagaw qisa musi atlinom sainiw	ははは国際経典的なおければなる 本はなどのでは、 本はなどのでは、 は、 は、 は、 は、 は、 は、 は、 は、 は、	1 11.12 \$
1910	Vidinom sames bing sages died origi died origins	の表は見るに有名を共立のなられるになって の表は見るに有名を共立によりません。 をはるのでは、 というには、 といも、 といも、 といも、 といも、 といも、 といも、 といも、 といも	8 28.15 8
	County	coeft, co	Average

TRADE UNIONS.

The total number of organizations of labor as reported on December 31, 1917, was 792 as against 726 December 31, 1915, and 722 December 31, 1913. Of these no report of membership was received from the following number of locals: Broom makers, electrical workers, plasterers and stone cutters, I each; stationary firemen, 2; horseshoers, 3; retail clerks, 4; letter carriers, 5, and federal labor unions, 12; a total of 30 locals. It should also be noted that no report of either number of locals or membership is recorded from the meat cutters and butcher workmen, when it is known that this organization was quite active during the year. The reported membership for the three last biennial periods is as follows:

December	31.	1913.		.,		*0	 +5			0		×	2		×	60	Š	1	ķ		0	4	4	49,353
December	31,	1915.	ķ.		A	0)	 4.	 	*		. 4	16	ó	G.		.,	, 0		ĕ	,	,			48,363
December	21,	1917.	,																					53,944

Had all locals reported for 1917, the membership would show in excess of 55,000. During the two-year period, six internationals not represented in prior report chartered locals in the state, these being the Brotherhood of Railway Clerks, National Federation of Federal Employees, United Cloth Hat and Cap Makers, Lithographers, Mine, Mill and Smelter Workers, and the Ceramic, Mosaic and Encaustic Tile Lavers and Helpers, while the lone Stove Mounters local in the state surrendered its charter, leaving at the end of the year 61 national and international labor organizations with chartered representation at the end of the biennium. Of these, 37 had a gain in membership, 15 a loss, one neither gain nor loss, and the meat cutters not reporting. Enlistments are directly responsible for the losses suffered by some of these organizations, while the drain in some of the higher skilled crafts for workers in eastern munition plants was already manifest by the close of 1917.

The data on female membership is incomplete for the reason that only 60 per cent of the locals reported directly, the rest of the membership data having been secured from the parent organizations, which keep no record of membership by sex. Fortyfour locals of 15 internationals reported a female membership of
664. Two years ago 28 locals of 10 internationals reported 448
female members. The musicians lead with 188 female members,
followed by the garment workers with 153, the book-binders 95
and the cigar makers 76. The female membership of the garment workers stood alone as exceeding the male. There were 152
locals in the craft organizations reporting female members, which
indicates that if all had reported directly, the female membership
would make a decidedly better showing in members.

Table No. 26 gives the location of local organization by craft, the membership of the respective locals, also number idle on last day of year by cause. It will again be noticed that a comparatively small number reported on this latter phase, but nevertheless a fairly good estimate can be made from these reports on per cent of non-employment and cause by considering the nature of craft.

Table No. 27 gives a summary of membership by craft, sex and comparative totals for last biennial periods.

Table No. 28 gives a comparison of the number of locals and membership by craft for each county. Sixty-five counties are represented for this report as against 64 two years ago. The ranking counties with membership, are Polk, 8,383; Appanouse, 5,025; Woodbury, 3,923; Linn, 3,719; Monroe, 3,112; Scott, 2,581; Dubuque, 2,763; Boone, 2,568, and Wapello, 2,134. Each of these counties has a city of considerable size within its borders with the exception of Appanouse, Monroe and Boone, the membership in these being due to large mining industry.

Table No. 29 gives a comparative table of wages for the period ending December 31, 1915, and December 31, 1917. Wage reports were received from 463 organizations for the latter period. Of these, 297 reported an increase during the biennial period. The first nine months after the entry of our nation into the world war are covered in this report, and none of the 1918 period during which the great labor needs of the country in the prosecution of the war and also the greatly increased cost of living forced wages upwards to an extraordinary degree.

In considering any wage scale it is always necessary to bear in mind that it represents earning ability under conditions of steady work, plentiful materials, perfect weather and perfect, health, and as one or more of these essentials is usually lacking at some time or other, the scale of wages is seldom if ever a safe guide on actual yearly earnings.

Following table No. 29 is found a synopsis of labor legislation urged by the labor organizations. Among the needs urged, changes in the workmen's compensation law predominate. TABLE NO. 26—TRADE UNIONS.

Showing Membership of Local Unions and Number and Cause of Unemployment December 31, 1917.

BAKERY AND CONFECTIONERY WORKERS, INTERNATIONAL UNION OF AMERICA Out of Work Dec. 31, 1917 City of boal Des Motnes Ottumwa 412 58 Sloux City. 1916 BARRERS UNION, INTERNATIONAL Albia 577 281 110 97 369 Bonne Burlington . . . Codar Rapids 25 25 25 25 1903 1903 1904 1908 Centerville Chariton Creston. 64 68 60 Des Molms Fort Dodge 16 17 18 Ft. Madison. Keokuk. 19 90 91 99 93 93 24 646 349 520 Muscatine. 1901 19 133 52 414 Oskaloosa. 18 Ottumwa 1809 Sloux City 1902 103 103 56 Waterloo. 1902 BLACKSMITHS. BROTHERHOOD OF 27 28 29 30 31 32 Cedar Rapids Creston. 283 95 845 16 86 30 200 162 Dubuque Dubuque. Clinton. 33 34 35 Marshalltown Oelwein... Ottumwa.... 1000 37 30 1901 Valley Junction. 1908 89 40 12 12 What Cheer 255 1930 BOILERMAKERS AND TRON SHIP BUILDERS OF AMERICA. BROTHERHOOD OF 440 Cedar Rapida 144 129 1901 43 44 45 46 47 48 49 50 101 56 29 61 135 101 Cilinton . 1902 Des Moines. Dubuque.... Eagle Grove. 1916 135 15 48 15 48 52 78 Missouri Valley 145 212 244 Oelwein, 1917 Sloux City 100 100 Valley Junction 1907 401 65 Waterloo.... 133 10

BOOKBINDERS, INTERNATIONAL BROTHERHOOD OF

				1			Ou	i of	Work	Dec.	11. 19	17
Marginal No.	City	No. of Local	Year organized	Males	Females	Total	Lack of work or material	Weather	Strike ro lockout	Sickness, acc'dt or old age	Other reasons	Fotal
55 56 57 58 59 60 61	Cedar Rapids Davemourt Des Moines Dubuque Ft Dodge Sioux City Waterloe	84 63 71 116 225 78 228	1899 1012 1897 1902 1917 1917	16 14 33 11 7 10 6	20 5 43 8 2 14 3	19 9 24	2					2

BRICKLAYERS, MASONS AND PLASTERERS, INTERNATIONAL UNION OF AMERICA

83 Olstimwa 9 1801 32 32 32 32 32 32 32 32 32 32 32 32 32

BRICK AND CLAY WORKERS OF AMERICA, THE UNITED

86 67	Ft. Dodgo	1917	18 30	18 30		 	
-							

BRIDGE AND STRUCTURAL IRON WORKERS, INTERNATIONAL ASSOCIATION OF

7000	Tarrest Control								
88	Cedar Rapids	89	1905	24	Transl	24	10000	MINISTER ST	
190	Cedar Rapids Davenport Des Moines Sioux City	111	1907	32	annen.	32			
91	Sioux City	194	1614	0.1	1200	-31			

BROOM AND WHISK MAKERS UNION, INTERNATIONAL

-							Oi	it of 1	Work	Dec.	31. 1	917
Marginal No.	City	No. of local	Year organized	Males	Pernales	Total	Lack of work or material	Weather	Strike or lockout	Sickness, acc'dt or old age	Other reasons	Total
92 93 94 95 96	Davenport Des Moines Dubuque Muscatine Sioux City	41 11 6 43 42	1915 1917 1899 1915 1913	8 6 8		8					4	

CARMEN OF AMERICA, BROTHERHOOD RAILWAY

97	Belle Plaine	472	1912	-84	64	Jane		Viene		2	
98	Boone	389	1913	103	103						
10	Carroll.	638	1917	24	24						-
00	Cedar Rapids	-	1886	265	265						
FE.	Clinton	429	1910	296	296						
12	Council Bluffs	03	1890	193	193						
18	Davenport	273	1902	34	14						
24	Des Moines	71	1915	33.	33	12000					
65	Des Moines	683	1017	12	12	1	-711				
Ю	Dubuque	275	1002	0.25	619	2000	_415		20	20101	43
77	Eagle Grove.	24	1001	22	22	1200					
8	Eldon	164	1903	22	.33	IS.L.					
19	Estherville	320	1903	48	48						
0	Ft. Dodge	290	1917	. 23	23						
1	Hawarden	544	1914	32	32						
2	Manly	295	1913	42	42	-					
3	Manilla	457	1912	16	16						
4	Marion	311	1905	72	72	1000					
ő	Mason City	262	1903	560	80						
6	Missouri Valley	435	1915	60	60	100					
7	Ottumwa	51	1901	200	51	1				222	
8	Oelwein.	680	1917	28	20	58323					
0	Perry	456	1912	26	26						
0.	Sloux City	286	1895	141	141						
1	Valley Junction	301	1963	205	205						

(1) At times. 415 at times.

CARPENTERS AND JOINERS OF AMERICA, UNITED BROTHERHOOD OF

22	Ames	1948	1907	50	50	23		1	1500	- 2
23	Boone	215	1998	48	48	1000				
24	Burlington	554	1880	106	106	30				
25	Burlington	636	1917	16	16					
26	Cedar Falls	1862	1910	16	16					
27	Cedar Rapids	309	1890	400	400					-
28	Cedar Rapids	1039	1881	78						
201	Cedar Rapids	1649	1905	-64	1.2					
100	Centerville	597	1901	61	474					
ii l	Chariton	1624	1912	25						
12	Clinton	772	1901	50	50				700	
13	Corning	1445		26	26					
14	Council Bluffs	364	1899	387	\$ 44.00 V	1				
(5)	Davenport	3000	1888	557	557		400			
16	Des Molnes	106	1898	1172						
7	Des Molnes	715	1914	28	28					
18	Dubuque	579	1912	27	27					
19	Dubuque	678	1890	140	140				****	34
	Patriletit	1804	1910	18	18	8	2			1
Œ.	Fort Dodge	641	1909	155	155	25	25	 2		14
2	Fort Madison		1911	70	70			100	24554	
3	Grinneit	920	1907	40						

LABOR ORGANIZATIONS

CARPENTERS AND JOINERS-Continued.

							Ou	t of	Work	Dec.	31, 1	917
Marginal No.	City	No. of local	Year organized	Males	Females	Total	Lack of work or material	Weather	Strike of lockout	Sickness, acc'dt or old age	Other reasons	Total
14	Iowa City	1260	1902	83		83		40				4
15	Iowa Falis	1729	1916	11		11			****			
16	Keokuk	523	1901	40	****	* 40		12		1	1	
17	Marion	1171	1902	29 91		29 91	45			i		
18	Marshalltown	1112	1902 1911	89	*****	89	45	20	35517	2	*****	1
50	Mason City Muscatine	1069	1902	50		50	10	10		4		
51	Newton	1133	1012	36		36					3300	
52	Oskaloosa	1034	1902	46		46						
53	Ottumwa	767	1892	100	*****	100	20	10		10		
54	Sioux City	948 1358	1902	500 17		500	20	10	****	10		
55	Tipton Washington	1398	1916	38	1300	38	77.77	15			1000	
56	Waterloo	1859	1910	12		12					3	
58	Waterloo	1835	1907	245		245				2		
59	Webster City	1625	1913	30		30	20			-2.00		1
61	CIGARMAKERS Albia Burlington	456 72	1908 1880	9 69		9 69						
60 61 63 63 64 65 66 67 70 71 72 73 74 75 76	Albia . Burlington Cedar Rapids . Council Bluffs Creston Davenport Des Moines Dubuque Fairfield Ft. Dodge Ft. Madison Keokuk Lyons Mt. Pleasant Muscatine Oskaloosa Ottumwa	456 72 454 177 328 172 111 88 490 270 181 60 239 155 120 277 223	1908 1880 1902 1882 1891 1885 1880 1883 1891 1904 1888 1880 1892 1883 1883 1883 1883 1883	9 69 32 12 8 98 96 25 9 12 11 35 20 5 23 23	74	9 69 32 12 8 172 96 26 9 12 11 35 20 5 23 23		10		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
61 62 63 64 65 66 67 68 69 70 71 72 73 74	Albia . Burlington Cedar Rapids . Connell Bluffs Creston Davenport Des Molnes Dubuque Fairfield Ft. Dodge Ft. Madison Keokuk Lyons Mt. Pleasant Muscatine Ookaloosa	456 72 454 177 328 172 111 88 490 270 181 60 239 155 120 277	1908 1880 1902 1882 1891 1885 1880 1883 1891 1904 1888 1888 1892 1883 1883	9 69 32 12 8 98 96 25 9 12 11 35 20 5 23	74	9 69 32 12 8 172 96 26 9 12 11 35 20 5 23				3 1 1 1 1		
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	Albia Burlington Cedar Rapids Council Bluffs Creston Davenport Des Moines Dubuque Fairfield Ft. Dodge Ft. Madison Keokuk Lyons Mt. Pleasant Muscatine Oskaloosa Ottumwa Sloux City	456 72 454 177 328 172 111 88 490 270 181 60 239 155 120 277 223 150 496	1908 1880 1902 1892 1891 1885 1880 1893 1891 1904 1892 1883 1883 1883 1883 1883 1883	9 69 32 12 8 98 96 25 5 9 12 11 35 20 5 20 40 10	74	9 69 32 12 8 172 96 266 266 9 12 111 355 200 5 23 23 20 41 10	1	10		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
61 62 63 64 65 66 66 68 69 70 71 72 73 74 75 77 77 77 78	Albia . Burlington Cedar Rapids . Council Bluffs Creston Davenport Des Moines Dubuque Fairfield Ft. Dodge Ft. Madison Keokuk Lyons Mt. Pleasant Muscatine Oskaloosa Ottumwa Sloux City Waterioo CLERKS, INTERNAT	456 72 454 177 328 177 328 177 111 88 490 270 181 60 239 155 120 277 223 150 496	1908 1880 1902 1892 1891 1885 1880 1883 1891 1904 1898 1880 1892 1883 1883 1883 1883 1883 1883 1883 188	9 69 32 12 8 98 96 25 9 12 11 35 20 40 10 TEC	74 T	9 69 32 12 8 8 172 96 266 9 12 111 355 203 233 204 41 10	i	10		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T.	
61 62 63 64 65 66 67 68 69 70 71 77 77 77 77 77 77 77 77	Albia Burlington Cedar Rapids Council Bluffs Creston Davenport Des Moines Dubuque Fairfield Ft. Dodge Ft. Madison Keokuk Lyons Mt. Pleasant Muscatine Oskaloosa Ottumwa Sloux City Waterloo CLERKS, INTERNAT	456 72 454 177 328 172 111 88 490 181 60 239 155 120 277 223 150 496	1908 1880 1902 1892 1891 1885 1880 1883 1891 1904 1898 1880 1892 1883 1883 1883 1883 1883 1883 1883 188	9 69 32 12 8 98 96 25 9 12 11 35 23 23 20 40 10	74 T	9 69 32 12 8 172 96 26 6 9 12 11 35 23 230 41 10	i	10		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T.	
61 62 63 64 65 66 66 67 68 69 70 71 72 73 74 75 76 77 78	Albia Burlington Cedar Rapids Council Bluffs Creston Davenport Des Molnes Dubuque Fairfield Ft. Dodge Ft. Madison Keokuk Lyons Mt. Pleasant Muscatine Oskaloosa Ottumwa Sioux City Waterloo CLERKS, INTERNAT Cedar Rapids Centerville Chariton	456 72 454 177 328 172 328 172 270 181 88 490 239 155 120 2277 223 150 496	1908 1880 1902 1892 1891 1885 1880 1883 1891 1904 1983 1883 1883 1883 1897 1881 1902 L PRO	9 69 32 12 8 98 96 25 20 11 13 23 23 23 20 40 10	74 T	9 69 32 12 8 172 966 266 9 12 111 10 ASS	1 social	10		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T.	
61 62 63 64 65 66 67 68 69 70 77 77 77 77 77 77 77 77 77 77 77 77	Albia Burlington Cedar Rapids Council Bluffs Creston Davenport Des Moines Dubuque Fairfield Ft. Dodge Ft. Madison Keokuk Lyons Mt. Pleasant Muscatine Oskaloosa Ottumwa Sloux City Waterloo CLERKS, INTERNAT Cedar Rapids Centerville Chariton Colfax	4566 72 454 454 177 3288 172 111 88 490 270 181 155 120 277 277 273 150 496 TONA	1908 1880 1902 1882 1882 1891 1885 1880 1883 1891 1904 1988 1888 1883 1883 1883 1883 1883 1883	9 69 32 12 8 98 96 25 9 12 11 35 20 40 10 PTEC	74 T	9 69 32 12 8 8 172 96 266 9 12 111 355 203 233 204 41 10	1 social	10		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T.	
61 62 63 65 66 67 68 69 70 71 72 73 74 75 76 77 78	Albia Burlington Cedar Rapids Council Bluffs Creston Davenport Des Molnes Dubuque Fairfield Ft. Dodge Ft. Madison Keokuk Lyons Mt. Pleasant Muscatine Oskaloosa Ottumwa Sioux City Waterloo CLERKS, INTERNAT Cedar Rapids Centerville Chariton Colfax Des Molnes	456 72 454 177 328, 490 270 181 80 239 155 120 277 223 150 496 TONA	1908 1880 1902 1882 1882 1891 1885 1880 1883 1891 1904 1988 1888 1883 1883 1883 1883 1883 1883	9 69 32 12 8 98 96 25 20 11 13 23 23 23 20 40 10	74 T	9 69 32 12 8 172 966 266 9 12 111 10 ASS	1 social	10		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T.	
61 62 63 64 65 66 67 68 69 77 77 77 77 77 77 77 77 77 77 77 77 78	Albia Burlington Cedar Rapids Council Bluffs Creston Davenport Des Moines Dubuque Fairfield Ft. Dodge Ft. Madison Keokuk Lyons Mt. Pleasant Muscatine Oskaloosa Ottumwa Sloux City Waterloo CLERKS, INTERNAT Cedar Rapids Centerville Chariton Colfax Des Moines Dubuque Keokuk	456 72 454 454 177 7328 490 270 181 80 239 155 120 277 223 150 496 TONA	1908 1880 1902 1882 1891 1885 1880 1883 1891 1904 1888 1880 1883 1893 1893 1893 1893 1893 1902 1902	9 69 32 12 8 98 98 96 25 25 23 23 23 20 40 10 TEC	74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 69 32 12 12 8 172 966 9 12 11 355 200 41 10 11 11 11 16	1 is social to the second seco	10		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T.	
61 62 63 65 66 67 68 69 70 71 72 73 74 75 76 77 78	Albia Burlington Cedar Rapids Council Bluffs Creston Davenport Des Moines Dubuque Fairfield Ft. Dodge Ft. Madison Keokuk Lyons Mt. Pleasant Muscatine Oskaloosa Ottumwa Sloux City Waterloo CLERKS, INTERNAT Cedar Rapids Centerville Chariton Colfax	456 72 454 454 454 457 328 172 111 88 490 270 181 20 270 120 277 223 150 496 395 401 807 301 496 301 496	1908 1880 1902 1882 1891 1885 1880 1883 1891 1904 1888 1880 1883 1893 1893 1893 1893 1893 1902 1902	9 69 32 12 8 98 96 25 20 11 13 23 23 23 20 40 10	74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 69 32 12 8 172 966 266 9 12 111 10 ASS	1 SOCL	10		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T.	

389 1916 92 16 108

Sioux City

CONDUCTORS OF AMERICA, ORDER OF RAILWAY

					2		Ot	it of	Worl	Dec.	31, 1	1917
Marginal No.	City	No. of local	Year organized	Males	Females	Total	Lack of work or material	Weather	Strike or lockout	Sickness, acc'dt or old age	Other reasons	Total
189	Boone	52	1882	52		52				4		3
190 191	Burlington	31 58	1874	41		41		*****		1		9
192	Clarion	411	1878	140		140						
193	Clinton	33	1883	125		125				17575	*****	****
194	Creston	21	1000	34	*****	34					7	****
195	Des Moines	38	1876	87	1000	87	1555	123.15	****		1000	750
196	Dubuque	347	*****	48		48				1		
197	Eagle Grove	164	1885	41		41				7		
198	Ft. Dodge	93	1883	63		63						
199	Marion	268	1891	34		34				4		100
200 201	Mason City	557	1912	37		37					*****	****
201	MarshalltownOttumwa	4	1879	80 37		80				2	*****	- 3
203	Ottumwa	216 496	1887 1906	21		37 21	0.44.00					****
204	Sanborn	22	1883	58	*****	58			*****	8		anna.
205	Sloux City	232	1888	129		129						C. V
206	Waterloo.	67	1883	70	*****	70		*****	10000			****

COOPERS INTERNATIONAL UNION OF NORTH AMERICA

ELECTRICAL WORKERS OF AMERICA, BROTHERHOOD OF

208	Boone	372	1903	41		41						
209	Cedar Rapids	405	1914	30		20.00	2000	7.75.77		7 1 V		10000
210	Cedar Rapids	615		20		170.0%						
211	Clinton	273	1905	100	120033					1775		****
212	Davenport	154	1911	22	*****	dette						****
213	Davenport	635	1917	52	++	52		100	5555 C	2	****	****
214	Des Moines	55	1891	99		99	3	C-7-C-7-			*****	1 3
215	Des Moines	347	1914	65		65	197			0	4	1
216	Dubnane	704	1911	22			Digital Fre		E5801	1		13
217	Dubuque			40		22						
	Ft. Dodge	114	1912			40				. 1	+>+==	
218	Grinnell	679	1917	16		16	****					
219	Iowa City	599	1907	21	1	22				1		
220	Keokuk	420	1915	22	****	22						
221	Marshalltown	610	1904	12		12	6			****		
222	Marshalltown	612	*****	12		12						
223	Mason City	431	1911	35	****	35		****		*****		
224	Muscatine	240	1914	18		18	1			1		- 3
225	Oskaloosa	199	1913	9		9						
226	Ottumwa	173	1901	25		25				1		1
227	Sioux City	47	1891	45		45						
228	Sioux City	231	1916	35		35				1		
229	Waterloo	228	1902	60		60	All Printed		1			200

ENGINEERS, BROTHERHOOD OF LOCOMOTIVE

				1 5			Ou	t of	Work	Dec.	81, 1	9(7
Marginal No.	City	No. of local	Year organized	Males	Females	Total	Lack of work or material	Weather	Strike or lockout	Sickness, acc'dt or old age	Other reasons	Total
230	Belle Plaine	526	1894	34		34						
231	Boone	6	1867	75		75						
232	Boone	860	1915	67		67						
233	Burlington.	151	1901	47		47	5000			2		2
274	Cedar Rapids	159	1873	101		104				13	7.	20
235	Centerville.	56	1865	35		35						
236	Cherokee	699	1906	29		29				1134.0		- 6
237	Clarion	655	1904	46		46		wales				
238	Clinton	125	1870	105		165				21		21
239	Creston	642	1904	45		45						11/100
240	Des Moines	113	1870	57		57				2.3		-
241	Des Moines	778	1909	56	22000	56	*****					
242	Dubuque	119	1882	61		61						
243	Eagle Grove	211	1883	51		51						
244	Eldon	181	1874	44	23524	44				3.3	5	8
245	Estherville	605	1993	53	****	53	2222					
246	Ft. Dodge	226	1883	97		97						
247	Ft. Madison	391	1889	118		118						
248	Manly	813	1915	61		61						
240	Marshalltown	500	1903	62		6.2				3		2
250	Mason City	117	1882	60		69			20041	1		1
251	Mason City (1)	229	1883	30		30						
252	Oelwein	670	1911	45		45						
253	Oskaloosa (1)	146	1872	43	23234	43						
254	Ottumwa	538	1898	- 67		67				- 6		3
255	Oitumwa	643	1904	52		52				4		4
256	Perry	203	1883	136	30555	136	50-50					
267	Sanborn	151	1886	4.0	*****	40				inia)		
258	Sinux City	490	1892	72	*****	72						
259	Sloux City	82	1882	108		108						
200	Sloux City	855	1899	57		57	***				40000	
261	Sloax City	687	1905	27	Year	27						
262	Valley Junction	525	1895	115	****	115						
283	Waterloo	114	1870	141		141						

(3) Organized at McGregor.
(7) Organized at Marshalltown.

ENGINEERS, INTERNATIONAL UNION OF STEAM AND OPERATING

264 265 266 267 268	Cedar Rapids Des Moines Dubuque Pt. Dodce Sioux City	301 270 204 628 603	1905 1905 1903 1917 1916	11 47 7 40 40		11 47 7 40 40	3 3			i		20
	ENGRAVERS UNION OF	NOE	тн а	MER	ICA, I	INT	ERNA	TION	AL P	нот	0	

FEDERAL EMPLOYES, NATIONAL PEDERATION OF

271 272	Des Moines Sioux City	53 13	1917 1916	16 50	1	17 50	EX.	 		

FEDERAL LABOR UNIONS, A. F. of L.

O. City Page							01	n of	Work	Dec.	31,	1917	
274 Davemort () 15073 275 Davemort () 15073 276 Davemort () 15074 276 Davemort () 15191 1916 20 20 276 Des Molines (5) 12917 12 12 277 Des Molines (7) 45486 278 Des Molines (1) 45497 281 Fort Dodge (1) 15197 282 Fort Dodge (1) 15297 283 Fort Dodge (1) 15297 284 Fort Dodge (1) 15298 1016 10 10 289 28	Marginal No.	City	90	Year organized	Malos	Females	Total	Lack of work or material	Weather	Strike or lockout	7.44	Other reasons	Total
274 Davemort () 15073 275 Davemort () 15073 276 Davemort () 15074 276 Davemort () 15191 1916 20 20 276 Des Molines (5) 12917 12 12 277 Des Molines (7) 45486 278 Des Molines (1) 45497 281 Fort Dodge (1) 15197 282 Fort Dodge (1) 15297 283 Fort Dodge (1) 15297 284 Fort Dodge (1) 15298 1016 10 10 289 28			iname.	uner	95		05	Janes .	-	Annual Contract	1		an c
275 Davenport (*) 15306 1016 20 20 276 Dex Molnes (*) 12917 12 12 12 277 Dex Molnes (*) 12917 12 12 12 12 12 12 12		Council Bluffs (3)	10274										2000
276 Des Moines (5) 12217 12 12 12 12 12 12	224	Davemport (*)					90					2001	
277 Des Moines (5) 14546	978	Day Molney (1)	10017	1010	12								-
278 Des Moines 16, 14568 270 Cedar Rapids (9, 15403 270 Cedar Rapids (1), 15403 281 Fort Dodge (4), 15134 281 Fort Dodge (4), 15137 282 Fort Dodge (6), 15137 283 Fort Dodge (6), 15231 283 Fort Dodge (7), 14139 283 Marshalitown (7), 15288 2850 Ottunwa (7), 1539 287 Ottunwa (7), 1528 287 Ottunwa (7), 1528 287 Ottunwa (7), 1528 288 Sions City (7), 14470	2757	Day Moines (1)	14546		100								
279 Cedar Rapids (9)	278												
280 Cedar Rapids (1)	970										22000		
281 Fort Dodge (1) 15197 282 Fort Dodge (2) 15247 283 Fort Dodge (4) 15247 284 Fort Dodge (4) 15291 284 Fort Dodge (5) 15291 285 Marshalitown (7) 15282 1916 10 10 10 10 10 10 10 10 10 10 10 10 10			15134	1916	38	00000	38				2		2
283 Fort Dodge (*) 15291 284 Fort Dodge (*) 14119 285 Marshalitova (*) 15281 1016 10 10 287 Ottmewa (*) 15282 13 13 287 Ottmewa (*) 15282 13 13 288 Ottmewa (*) 15282 13 13 288 Ottmewa (*) 15282 14 15 15322 15 16 16 16 16 16 16 16	281	Fort Dodge (4)		OWENCE									
284 Foet Dodge (*) 14219 285 Marshalltown (*) 15288 1916 10 10 296 Ottunwa (*) 15291 15391 287 Ottunwa (*) 8227 13 13 288 Sloux City (*) 15722 289 Sloux City (*) 14970	282	Fort Dodge (*)	15247								****		
285 Marshalitown (*) 15288 1916 10 10 290 Ottomwa (*) 827 287 Ottomwa (*) 827 13 13 288 8foux City (*) 15732 288 8foux City (*) 14970 288 8foux City (*) 14970		Fort Dodge (4)	15291	delone				****	20.05				
296 Ottunwa(1) 15391 287 Ottunwa(4) 822 13 13 288 8four City (5) 1522 12 13 13							++527			****			++++
287 Ottumwa (*) 8227 13 13 288 Sloux City (*) 15722 289 Sloux City (*) 14970				1916	10							***	****
288 Stoux City (*). 15722 289 Stoux City (*). 14970	286		15391				110						
289 Sioux City (1) 14970	200	Ottumwa (*)	5227	200									*****
		Sloux City (*)	10/22										
290 Sloux City				*****								2270	2000

(1) Button workers.
(2) City firemen.
(3) Pipe layers.
(4) Ceroal mill workers.
(4) Cement mill workers. (*) Railway freight handlers. (*) Gypsum miners. (*) Federal labor. (*) Dyers and pressers. (1*) Creamery workers.

FIREMEN AND ENGINEMEN, BROTHERHOOD OF LOCOMOTIVE

-					_		-	_				
201	Relie Plaine	311	1886	63		- 64						
203	Boone	25	ESSO.	211		211						
203	Burlington	161	1876	97		97						-
294	Cedar Rapids	27	1870	100		100						- 4
205	· Canterville	531	1898	20		20						52.20
200	Cherolese	79	INUR	32		32						
207	Clarion	658	1904	50		50						
29%	Clinton.	34	1879	191		191						2
200	Creston	640	1903	66	40000	dis						
300	Des Moines	102	1882	SIL		83						
301	Des Moines	547	1899	70		70						1000
RIVE	Dubuqus	106	1882	82		82						
203	Eagle Grove	132	1909	75		78						200
304	Kidon	107	1882	62		62						
305	Esthervilla	288	1885	64		64						
300	Fc Dodge	222	1881	90		90						2077
307	Ft. Madison	291	1888	94		94						
308	Manly	838	1014	91		01						
300	Marshall(own	125	1873	51		51						
310	Mason City	20	1680	104		101						
311	Oolwein.	773	1909	67		67						
3.12	Oskaloosa	560	1000	36		36						
313	Ottumwa	AL	1003	77		77				1000		
314	Ottumwa	203	1889	83		83						
315	Perry	124	1882	81		81						
316	Sanborn	190	1885	40.		40.					20000	
117	Sioux City	64	1883	152		152						
HIS	Sioux City	112	1888	38		58						
310	Sloux City	678	1910	88		- 88	12					1
320	Valley Junction	249	1895	106		166						
321	Waterion	30	1888	103		103			2000			

FIREMEN, INTERNATIONAL BROTHERHOOD OF STATIONARY

							0	ut of	Wor	k Dee	. 31,	1917
Marginal No.	City	No. of local	Year organised	Males .	Females	Total	Lack of work or material	Weather	Strike or lockout	Sickness, acc'ds or old age	Other reasons	Total
322 323 324	Boone Des Moines Ottumwa	326 79 203	1908	16		16						
	GARMON	T WO	EKEI	RS 01	AM	ERIC	A, U	NITE	D			
325 326 327	Davenpors	96 70 148	1914 1899 1898	4 4 2	43 90 20	47 94 22						
	GRANITE CUTTERS I	NTER	NATI	ONAL	ASS	OCIA	1102	OF	AMI	RIC		
328	Des Moines		1910	25		25			,			
	HAT AND CAP MAK	ERS O	F NO	RTH	AME	RICA	, UN	TTEL	CL	HTC		
_												
329	Des Maines	27	1917	16		16						(+)
DE PE	Dec Maines	AND	-	MON		-	RS U	NION	OF	АМІ	RIC	
330 331 332 333 334 335 336 337		AND	COM	353 23 125		-	RS U	NION 75	OF	AMI	ir	17 18 17
330 331 332 333 334 335 336 337	Codar Rapids. Council Blufs. Das Motoss Dubuque. Marshallown. Port Madison.	224 330 117 102 303 258 268 246	COM TERN 1908 1917 1915 1902 1917 1917 1917	353 23 125 17 17 34 103 67	NAL	353 23 125 17 17 34 103 67		75		17	17	17 73 17
330 331 332 333 334 335 336 337	Codar Rapids Connell Buffs Dos Molines Dubuque Marshalltown Dakadoona Fort Madison Waterion	224 330 117 102 303 258 268 246	1908 1917 1915 1902 1917 1917 1917 1917	353 23 125 17 17 34 103 67	NAL	353 23 125 17 17 34 103 67		75		17	17	17 73 17
330 331 332 333 334 335 336 337 H(Codar Rapids. Council Blufts Das Motions Marshalltown Oskaloosa Fort Madison Waterloo ORSESHOERS OF UNITED Codar Rapids Das Motions Som City Soor City Soo	224 330 117 102 305 358 268 246 112 45 174 142 181	COMTERN 1006 1017 1915 1902 1917 1917 1917 1917 1917 1917 1917 191	353 22 125 17 17 34 100 67 10 7 7 10 7	ANAD	383 23 125 17 17 34 103 67	WTER TON	78 NATI	ILIA	17	ir	17 73 17 OF

LATHERS, INTERNATIONAL UNION OF WOOD, WIRE AND METAL

			-		1							
			- 4			-	Ou	t of	Work	Dec.	31, 1	917
Marginal No.	City	No. of local	Year organised	Maler	Females	Total	Lack of work or material	Weather	Strike or lockout	Sickness, acc'dt or old agn	Other reasons	Total
146 147 148 148 148 150	Cedar Hapids. Davenport. Des Moines Dubsque. Sioux City Fort Dodge.	115 140 8 158 113 128	1901 1902 1900 1915 1911	13 11 41 7 30 10		13 11 41 7 20 10	12 10 7 12					12 10 7 12
	LAUNDRY W	ORK	ERS.	INTE	BNAT	COL	AL U	NION				
352	Oslialoosa	10	1910	22		22	an.					
-	LEATHER WORK	ers,	UNIT	CED,	INTE	RNA	TION	AL U	NION			
353 554 355	Davenport	11 47 24	1898 1917 1913	425 28 25		425 28 25						
100	LETTER CAR	RIER	S, NA	TIOS	AL A	880	CLATI	ON C	P			
356 357 359 369	Albia	1261 1261 1081 1076 611	1908 1908 1908 1906 1898	5 0119		5 9 3 9 38						
361 362 363 364 365 365	Hurington Carroll Cadar Folls Cedar Hapids Chariton Charles City Cherokee	222 1073 719 373 1984 800	1908 1908 1900 1893 1908 1901	28 6 6 32 3		6 6 32 X X X						
367 368 369 370 371	Cherokee Clarinda Clinton Council filuffs Cresco.	1070 1318 120 314 1791	1906 1909 1891 1892 1917	4 6 22 19		4 6 22 19 2 6						
373 373 374 375 376	Creston Davenport Decorab Denison Des Mones Dubuque	445 445 1311 052	1894 1890 1893 1910 1892 1891			28 4 3 93 27						
377 378 379 380 381 382	Dubuque Eagle Greve Estherville Fairfield Ft Dodge Ft Madison	257 1550 1010 226 645 403	1913 1904 1900 1899 1803	10		247.10	-					
383 384 383 385 387	Hampton Harlan Endianola	1534 1794 1312	1999 1913 1916 1908 1804	2000		Tanno						
388 389 390 391 392	Iowa City Iowa Falla Kookuk Knoxville Lemars Marton	1040	1900 1800 1910	15		16						
293 294	Marion Markalltown Mason City Muscatine	257 471 644	1893	11		11				-		

LETTER CARRIERS-Continued.

							0	ut of	Worl	Dec.	31,	1917
Marginal No.	City	No. of local	Year organized	Males	Females	Total	Lack of work or material	Weather	Strike or lockout	Sickness, acc'dt or old age	Other reasons	Total
398	Osage	967	1915	2		2						
399	Oskaloosa	170	1901	10		10				1100	****	***
100	Ottumwa	447	1897	19		19			7.53			
102	Red Oak	610	1898	5 2		5			-250			****
03	Sheldon	1741	1916	2		2						
04		1075	1905	3		3						THE R
05	Shenandoah	851	100001	5		5						
06	Sioux City	69	1890	57		57						
07	Otomes Toler	1315	1909	4		4			****			
08	****	1626	1914						Size.			
09	***	1724 512	1915	2		2	****	****				
10	THE	1373	1890	25		25						
11	Webster City	655	1910 1899	3 5		3			*****			
12	Washington	981	1904	9		5	55555					

LITHOGRAPHERS, INTERNATIONAL PROTECTIVE AND BENEFICIAL ASSOCIATION OF UNITED STATES AND CANADA.

413	Des Moines	37	1918	14		14		 ****	 	
					COL CO.		1		 	1000

MACHINISTS, INTERNATIONAL ASSOCIATION OF

115 116 117 118 119 120 121 122 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1432 1433	Belle Plaine Belle Plaine Boone Burlington Cedar Rapids Cedar Rapids Centerville Clinton Dreston Davenport Des Moines Des Moines	666 273 531 262 831 530 283 533 388 254	1912 1893 1899 1902 1892 1913 1902 1899 1962 1893	15 22 88 30 170 96 6 224 22		15 22 88 30 170 96 6 224 22			8	1		1
116 117 1418 1419 1420 1421 1422 1423 1424 1425 1426 1426 1427 1428 1429 1430 1431 1432 1433	Boone Burlington Cedar Rapids Cedar Rapids Centerville Clinton Creston Davenport Des Moines Des Moines	531 262 831 530 283 533 388	1899 1902 1892 1913 1902 1899 1962	88 30 170 96 6 224 22		88 30 170 96 6 224			8	1		1
418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433	Burlington Cedar Rapids Cedar Rapids Centerville Clinton Dreston Davenport Des Moines Des Moines Des Moines	531 262 831 530 283 533 388	1902 1892 1913 1902 1899 1962	30 170 96 6 224 22		30 170 96 6 224			8	1		
418 419 420 421 422 423 424 425 427 428 429 430 431 432 433	Cedar Rapids Cedar Rapids Centerville Clinton Creston Davenport Davenport Des Moines Des Moines	262 831 530 283 533 388	1892 1913 1902 1899 1902	170 96 6 224 22		170 96 6 224			8	1		
119 120 121 122 1423 1424 1425 1426 1427 1428 1430 1431 1432 1433	Centerville Clinton Creston Davenport Des Moines Des Moines	831 530 283 533 388	1913 1902 1899 1902	96 6 224 22		96 6 224			8			1
121 1421 1422 1423 1424 1425 1426 1427 1428 1430 1431 1432 1433	Centerville Clinton Creston Davenport Des Moines Des Moines	530 283 533 388	1902 1899 1902	6 224 22		6 224			****			3
121 122 123 124 125 126 127 1428 1429 1430 1431 1432 1432	Clinton Creston Davenport Des Moines Des Moines	283 533 388	1899 1902	224 22		224						100000
122 123 124 124 125 1426 1427 1428 1429 1430 1431 1432 1432	Davenport	533 388	1902	22								
423 424 425 426 427 428 429 430 431 432 433	Davenport	388										
424 425 426 427 428 429 430 431 432 433	Des Moines			155		155	****	*****			****	
425 426 427 428 429 430 431 432 433	Des Moines		1895	117		117						
426 427 428 429 430 431 432 433		479	1909	29		29						
427 428 429 430 431 432 433	Dubuque	379	1901	216		216					*****	
428 429 430 431 432 433	Dubuque	940	1913	162		162						
429 430 431 432 433	Eagle Grove	562	1905	17		17						
430 431 432 433	Eldon	245	1905	27		27			-11.			3575
431 432 433	Ft. Madison	219	1901	15	1575	15						
433	Manly	844	1913	55		55			****			
433	Marshalltown	299	1900	110		110			*****			
424	Marshalltown	920	1912	60		60				1	****	1 3
E13:E	Missouri Valley	171	1899	153	*****	153				1000		
435	Muscatine	116	1902	4	250=3	4			****	1	****	
436	Newton	38	1917	21		21			*****			
437	Oelwein	247	1917	217	1000	217			****			
438	Ottumwa	269	1901	82		82						
439	Perry	190	1910	41		41			****			
440	Perry	909	1916	35		35			****			
441	Sioux City	178	1891	165		165			****			
442	Valley Junction	620	1903	100	1777	100	*****	*****	*****		*****	
443	Waterloo	314	1892	50		50					W	
444	Waterloo	1081	1918	55	1777	55					1	

MAINTENANCE OF WAY EMPLOYES, INTERNATIONAL BROTHERHOOD OF

							Ot	it of	Worl	Dec.	31, 1	917
Marginal No.	City	No. of local	Year organized	Males	Females	Total	Lack of work or material	Weather	Strike or lockout	Sickness, acc'dt or old age	Other reasons	Total
445 446	Dubuque	57 412	1917	60		60						
447	Manilla	338	1916 1916	50 40		50 40	*****					-200
448	Marion	7	1915	75		75	10000					
449	Marshalltown Oskaloosa Rockwell City	262 263	1918	14		14		-5500				****
451	Rockwell City	69	1917	15 25		15 25	1125				1237	
452	Sanborn	158	1918	25		25				*****		
	METAL WORKERS, INTE	RNAT	IONA	L AL	LIAN	CE A	AMAI	GAM	ATE	D SH	EET	
153	Burlington	78	1917	17		17						
454	Cedar Rapids.	263	1902	58		58				353	1917	335
155 156	Cedar Rapids	392	1915	34		34				****		
157	Centerville	459 460	1917 1917	14 18		14 18						
158	Davenport. Des Moines. Des Moines.	299	1906	29	2017	29	1	15015		1	10000	5555
159	Des Moines	246	1917	55	******	55						
60	Des Moines	123 281	1900	55		55	22.22		.,			
162	Pubuque Ft. Dodge	397	1917	29 22		29	*****				1	
163	Keokuk	215	1908	7		7			H	1100		
164	Marshalltown	295	1910	32		32						
165												
	Ottumwa	298	1917	16		16						
466 467	Ottumwa Sioux City	147	1917 1902 1900	16		16						****
466 467 468 469	Keokuk Marshalltown Oelwein Ottumwa Sioux City Valley Junction Waterloo		1902									
466 467 468		147 184 492 487	1902 1900 1917	16 56 21 43	S, IN	16 56 21 43	NATI	ONAI	L UN	ION	of	
466 467 468 469	Waterloo	147 184 492 487	1902 1900 1917 1917	16 56 21 43	S, IN	16 56 21 43	NATI	ONAI	L UN	10N 4	OF	13
466 467 468	Waterloo MINE, MILL AND SME	147 184 492 487 LTER	1902 1900 1917 1917 WOR	16 56 21 43 KER3		16 56 21 43 TER	132		L UN		OF	13
466 467 468 469 470	MINE, MILL AND SME. Fort Dödge	147 184 492 487 LTER 111 ORKE	1902 1900 1917 1917 WOR	16 56 21 43 KER3 408		16 56 21 43 TER 408 A, U	132		LUN		OF	13
166 167 168 169 170	MINE, MILL AND SME Fort Dodge	147 184 492 487 LTER 111 ORKE, 793 1655	1902 1900 1917 1917 WOR 1916 RS OI	16 56 21 43 KER3 408 AM 275 165		16 56 21 43 TER1 408 A, U	132		L UN	6	OF	0.00
166 167 168 169 170 171 172 173	MINE, MILL AND SME Fort Dodge	147 184 492 487 LTER 111 ORKE 793 1655 242	1902 1900 1917 1917 WOR 1916 RS OI	16 56 21 43 KERS 408 27 AM 275 165 200		16 56 21 43 TER 408 A, U 275 165 200	132		LUN	62	OF	2
166 167 168 169 170 171 172 173 174 175	MINE, MILL AND SME. Fort Dodge	147 184 492 487 LTER 111 ORKE, 793 1655	1902 1900 1917 1917 WOR 1916 RS OI	16 56 21 43 KERS 408 27 AM 275 165 200 16 17		16 56 21 43 TERI 408 A, U 275 165 200 16 17	132		LUN	6	of	0.00
466 467 468 469 470 470 471 471 473 474 475 476	MINE, MILL AND SME. Fort Dodge	147 184 492 487 LTER 111 ORKE 793 1655 242 178 426 869	1902 1900 1917 1917 WOR 1916 RS OI 1900 1914 1893 1903 1899	16 56 21 43 KER3 408 275 165 200 16 17 538		16 56 21 43 TER1 408 A, U 275 165 200 16 17 538	132		L UN	62	OF	2
466 467 468 469 470 471 471 471 471 473 474 475 476 477	MINE, MILL AND SME Fort Dodge MINE W Albia Andersonville. Avery Beacon Bolton Boone Brazil	147 184 492 487 LTER 111 ORKE 793 1655 242 178 426 869 201	1902 1900 1917 1917 WOR 1916 RS OI 1900 1914 1893 1903 1896	16 56 21 43 KER2 408 AM 275 165 200 16 17 538 170		16 56 21 43 TERI 408 A, U 275 165 200 16 17 538 170	132		L UN	6	OF	2
166 167 168 169 170 171 172 173 174 175 177 178	MINE, MILL AND SME Fort Dodge MINE W Albia Andersonville. Avery Beacon Bolton Boone Brazil	147 184 492 487 LTER 111 ORKE 793 1655 242 178 426 869 201 1169	1902 1900 1917 1917 WOR 1916 RS OI 1900 1914 1893 1903 1899	16 56 21 43 KERS 408 7 AM 275 165 200 16 17 538 170		16 56 21 43 TER 408 A, U 275 165 200 16 17 538 170 175	132		L UN	6 2 11	OF	2
166 167 168 169 170 171 172 173 174 175 176 177 178 179 180	MINE, MILL AND SME Fort Dodge MINE W Albia Andersonville. Avery Beacon Bolton Boone Brazil	147 184 492 487 111 ORKE 793 1655 242 178 426 869 201 1169 1603 3039	1902 1900 1917 1917 WOR 1916 RS OI 1900 1914 1893 1903 1896	16 56 21 43 KERS 408 275 165 200 16 17 538 170 175 97 225		16 56 21 43 TERI 408 A, U 275 165 200 16 17 538 170 175 297 225	132		L UN	6		2
166 167 168 169 170 171 172 173 174 177 178 177 178 180 181	MINE, MILL AND SME. Fort Dodge	147 184 492 487 LTER 111 ORKE 793 1655 242 178 426 869 201 1169 1603 3039 1907	1902 1900 1917 1917 WOR 1916 RS OI 1900 1914 1893 1899 1896 1910	16 56 21 43 KERS 408 275 AM 275 165 200 16 17 538 170 175 97 235 266		16 56 21 43 TERI 408 A, U 275 165 200 16 17 538 170 175 97 97 97 235 266	132		UN	6 6 6 3		2
166 167 168 169 170 170 171 172 173 174 175 177 178 179 180 181 182	MINE, MILL AND SME Fort Dodge	147 184 492 487 111 ORKE 793 1655 242 178 426 869 201 1169 1603 3039 1907 1799	1902 1900 1917 1917 WOR 1916 RS OI 1900 1914 1893 1903 1896 1910 1914	16 56 21 43 KERS 408 7 AM 275 165 200 16 17 538 170 175 266 947		16 56 21 43 TERI 408 408 A, U 275 165 200 16 17 538 110 1725 266 997 997 997	132 NITE 20		L UN	6 6 6		1
471 471 472 473 477 477 477 477 477 477 477 480 481 482 483 483 484	MINE, MILL AND SME Fort Dodge	147 184 492 487 111 ORKE 793 1655 242 178 869 201 1169 1603 3039 71799 56 239	1902 1900 1917 1917 WOR 1916 RS OI 1900 1914 1893 1899 1896 1910	16 56 21 43 43 44 43 408 408 275 165 200 16 17 538 170 235 266 947 320 66		16 56 21 43 TERI 408 A, U 275 165 200 16 17 538 170 175 97 97 97 235 266	132		L UN	6 6 6 3		2
466 467 468 469 470 471 471 472 473 474 475 477 478 4479 4480 481 482 483 484 485	MINE, MILL AND SME Fort Dodge	147 184 492 487 1111 ORKE 793 1655 242 242 426 869 1169 3039 1907 1799 1799 1799 1799 1799 1799 179	1902 1917 1917 1917 1918 1916 1916 1910 1914 1893 1903 1896 1910 1914 1911 1914 1898 1898 1898 1898 1898	16 50 21 43 43 408 KFR: 408 275 165 200 16 17 538 170 175 266 66 66 190 190 190		16 56 21 43 408 408 408 408 408 176 165 200 16 17 538 170 175 266 266 17 320 190 190 190 190 190 190 190 190 190 19	132 NITE 20		L UN	6 6 6 3 22		2 (
466 467 468 469 470 471 472 473 474 477 477 477 477 477 477 477 477	MINE, MILL AND SME Fort Dodge	147 184 492 487 111 100 RKE 793 1655 242 178 869 201 1603 3039 1907 1799 2830 2830 2830 2830 2830 2830 2830 2830	1902 1907 1917 1917 1916 1916 1916 1900 1914 1893 1896 1891 1910 1914 1901 1914 1901 1918 1899 1898 1898	16 56 21 43 43 47 408 408 275 AM 275 165 200 16 170 175 266 69 947 320 66 190 800		16 56 6 21 43 47 TERI 408 A, U 275 5 165 200 16 17 17 5 38 170 17 5 286 947 320 190 800	132 NITE 20		L UN	6 2 11 6 6 6 3 222 49	30	2 6
466 467 468 469 470 471 471 472 473 474 477 477 478 480 481 481 483 484 485 487	MINE, MILL AND SME Fort Dodge	147 184 492 487 1111 ORKE 793 1655 242 242 111 1603 3039 566 239 2830 5533	1902 1900 1917 1917 1918 1916 1916 1900 1914 1893 1993 1899 1896 1910 1914	16 56 21 43 43 408 408 275 185 290 16 17 538 170 235 66 947 320 66 190 800 338 838 838 838 838 838 838 838 83		16 56 56 21 43 408 408 408 408 408 408 408 408 408 408	132 NITE 20		L UN	6 2 11 6 6 6 7 22	30 7	2 6
466 467 468 469 470 471 471 472 473 474 477 477 477 477 477 477 477 477	MINE, MILL AND SME Fort Dodge	1477 1844 492 487 1111 ORKE 793 1655 242 212 1169 201 1169 201 1169 203 1169 563 238 200 579 2830 779 1063 779 1063	1902 1908 1917 1917 1917 1916 1916 RS OI 1914 1900 1914 1901 1899 1898 1898 1914 1897 1898 1898 1898 1914 1897	16 56 52 1 43 43 45 408 408 275 165 200 16 17 538 175 97 7 235 266 6947 235 200 800 338 300 300 425		16 56 56 56 56 56 56 56 56 56 56 56 56 56	132 NITE 20		L UN	6 2 11 6 6 6 3 222 49	300	
170 171 171 172 173 174 175 177 178 178 179 181 182 183 184 185 187 188 189 190	MINE, MILL AND SME Fort Dodge. Albia Andersonville. Avery Beacon. Bolton. Boone Brazil. Bear Creek Bondurant Bidwell Blownfield Blownfield Cedar Mines Centerville Centerville Cincinnatti Chariton Coalyille	147 184 492 487 111 ORKE 793 1655 242 242 178 426 869 201 1603 3039 1605 230 2553 779 1933 392	1902 1908 1917 1917 1917 1916 1916 1900 1914 1893 1903 1896 1910 1911 1901 1899 1898 1898 1898 1898	16 56 56 21 43 408 7 AM 275 165 200 16 17 538 170 175 235 266 66 61 190 800 800 800 800 800 800 800 800 800 8		16 56 56 121 43 TERI 408 408 A, U 275 165 200 16 17 125 538 170 125 266 300 800 800 800 423 300 423 300 300 423 300 800 300 800 300 800 800 800 800 80	132 NITE 20		L UN	6 6 2 11 3 2 2 2 1 1 1 2 2 2 2 2 1 1 1 1 1	30 7	
471 471 471 472 473 474 477 477 477 477 477 477 477 477	MINE, MILL AND SME Fort Dodge	147 184 492 487 111 ORKE 111 ORKE 111 ORKE 111 ORKE 111 ORKE 120 111 1603 3039 566 377 53 392 662 662	1902 1907 1917 1917 1917 1916 1916 1916 1990 1914 1893 1903 1896 1910 1914 1899 1898 1898 1914 1899 1898 1898	16 56 56 21 43 408 408 275 165 2200 16 17 538 170 97 235 266 947 947 947 947 947 948 949 949 949 949 949 949 949 949 949		16 56 56 21 43 408 408 408 408 408 408 408 408 408 408	132 NITE 20		L UN	6 6 3 22 11 22 22 24 19 10 6 4 4 2 2	300	
170 171 171 172 173 174 175 177 178 178 179 181 182 183 184 185 187 188 189 190	MINE, MILL AND SME Fort Dodge. Albia Andersonville. Avery Beacon. Bolton. Boone Brazil. Bear Creek Bondurant Bidwell Blownfield Blownfield Cedar Mines Centerville Centerville Cincinnatti Chariton Coalyille	147 184 492 487 111 ORKE 793 1655 242 242 178 426 869 201 1603 3039 1605 230 2553 779 1933 392	1902 1908 1917 1917 1917 1916 1916 1900 1914 1893 1903 1896 1910 1911 1901 1899 1898 1898 1898 1898	16 56 56 21 43 408 7 AM 275 165 200 16 17 538 170 175 235 266 66 61 190 800 800 800 800 800 800 800 800 800 8		16 56 56 121 43 TERI 408 408 A, U 275 165 200 16 17 125 538 170 125 266 300 800 800 800 423 300 423 300 300 423 300 800 300 800 300 800 800 800 800 80	132 NITE 20		UN	6 6 2 11 3 2 2 2 1 1 1 2 2 2 2 2 1 1 1 1 1	300	

MINE WORKERS OF AMERICA, UNITED-Continued,

					- 7		Ou	t of	Work	Dec.	31, 10	117
Marginal No.	City	No. of local	Year organized	Males.	Females.	Total	Lack of work or material	Weather	Strike or lockout	Stelcness, acc'dt or old age	Other reseous	Total
495	Des Moines	351	1	109		100	6			1		13
496	Des Moines	354	1902	150		150	23			10		33.
497	Den Molnes	1047	1899	191		191	-			4		
498	Des Moines	1140	1917	23		100	2			133	10.5	1
499	Des Moines	3656	237.5	142		142			*****			
500 501	Des Moines	2485	1898	160		160						
502	Dea Moines	1616	1899	49		49				3		3
503	Diamond	845	1913	165		165				2	4.	A
504	Durfeé	2485	*1522*	180		180	Janada	275.00		44009	14400	11900
505	Exline	812	1899	225		225				40000	12200	
306	Everest	981	1907	230	++++5	236		2000		2	112404	
507	Evansville	2511	1906	175		175	-		70077			
508	Enterprise	534	1852	11		14	15575		10000	8	2	*
509	Flagler	172	1900	134		134	2000	2772			1.5	
510	Foster	1009	1898	11		11	1775		2555			
511	France	692	1897	122		102	10000		V. 3313	4		4
513	Hickory	916	1898	315		815	THE REAL PROPERTY.		1222	44		- 46
514	Hoovers.	1042		122	12000	122	100					
515	Hocking	1121	1999	207	-6600	303	27			12		29
516	High Bridge	2450	1905	162		162		1	ines	PRACT	1250	
517	Harvey	3771	1917	30		20	Second	a The			min	
518	Jerome.	287	1678	125		125				0.000	2022	11119
519	Knoxville	1958	1901	152		182		-	*****	3	140.00	0.7
520	Lucas	799 903	1899	20		12	10000		-775	1	1	1
521	Laddsdale	653	1809	62			2000		1237	2	1000	1.2
522	Lehigh	47	1913	175	1000		1000	1000				
523	Maple	834	1898	837		837	EEE CO	3100				
525	Mystic	709	1901	284	TARRE	284	Tine.	1333				-
526	Madrid	1761		243			1	1000	- Wilson	1200		
327	Marquisville	851		85	VARES	88						
528	Lovilia	3685	53333	42	and a	42			-	- 1-4-	-	
529	Newton	154	1912	21	· ·	31	1000	+	-	4 A	1144	1
530	Numa	875	1894	294	Same	294	Service .		-		1400	1
531	Oskaloosa	. 97	1899	167			****			3	2000	1 3
532	Ogden	2433	1907	144					+			
533	Otley	1263	1801	127			17575	1777		1000	10000	
534	Ottumwa	3281	1001	38			1777			1000		
535	Olmita	372	1898	250						-		
536	Plano	2988	1902	42								
538	Regal.	407	1910	60	100	- 64	1000			1 3		1
889	Seymour	206	1891	205		201						
540	Boovers.	:671	1902	25		- 73		-				2
541	Solder	940	1915	256							1 3	1 15
542	Saylor No. 2	1573	1906	373		100		7	7	1 3	3	
543	Springhill	2033	1925	107					77.7	1 0	1000	
544	Streepey ville	1873	1904	221		111				15		1
545	Sheriit	2452	1914	310	1			1000	1	20		2
546	Tipperary	382	1416	145				100		4	-	
547	Valley Junction			204	1						a fine	
548	Whiteburg		1907	276	1474			- lan		in com	+ +144	-
	Yoder	21 200	1	1000	270		W KO	200		S. CVA	1877	1

MOLDERS UNION OF NORTH AMERICA, INTERNATIONAL

							Ot	tof	Work	Dec.	81, 1	917
Marginal No.	City	No. of heal	Year organized	Males	Females	Total	Lack of work or material	Weather	Strike or lockout	Rickmess, acc'dt or old age	Other reasons	Total
550 551 552 553 554 556 560 567 568	Burlington Cedar Bapids Dos Moines Dubuque Lyons Marshalltown Nowton Oftimawa Waterloo	358 193 316 263 118 91 318 203 450	1902 1800 1900 1580 1917 1885 1917 1900 1904			87 36 48 26 0 37 27 27 28 180	i				1	

MUSICIANS, AMERICAN PEDERATION OF

550 561 561 563 564 565 566 566	Roone . Burlington Buxton Cedar Rapids Centerville Chariton Clinton Davenport Des Moines	305 137 490 678 79 67 75	1911 1912 1902 1901 1908 1914 1900 1807 1898	64 100 31 140 40 41 84 195 250	14 2 4 10 3 28 40	35 150 40 44 84 221 250						
							4,0000			-		*****
	Buxton			ar		35						
562	Cedar Rapids	137	1901	140	10	150						
254328	Centerville	490	1908	40		40						
2564	Chariton	678	1914	41								
	Clinton				100							
200	Dayconnort					100.00						
	Day Molpas											
568	Thebases	259	1903	129	31							
	Dubuque						-	-	****	****		****
560	Eagle Grove	-616	1914	45								
370	Fairfield	821	1909	25	200	25						
571	Fort Dodge	504	1908	62	21					****		division.
572	Fort Madison	273	1900	28	2	38						
573	Keokuk	264	1913	30		38					12000	COLL.
574	Mason City	230	1908	49	. 5	-54						
873	Muscatine	551	1910	29	12	41						
376	Oskaloosa	168	1900	15		1.5						
577	Ottumwa	64	1808	48	- 33	-51						
578	Bloux City	254	1902	125		125						
579	Waterloo	234	1904	400	15	76	30					
194.14	Waterloo	-00%	830578	-94	40	190	90	****		****		-09
-												

PAINTERS, DECORATORS AND PAPER HANGERS, BROTHERHOOD OF

gton Rapids ville n ii Bluffs port uines toines que	744 477 292 183 700 581 676 246 688	1918 1912 1907 1803 1900 1900 1916 1918 1888 1909 1916	10 53 115 23 42 24 7 69 100 19		53 135 23 42 24 7 69 100	10	26		9	87 18	75 10 15
Rapida rville n il Etuffa port iport vines fotnes	477 292 193 706 581 676 246 686	1907 1900 1900 1915 1916 1888 1909	1118 221 42 24 7 69 110 19		135 23 42 24 7 69 100	10	36		3	18	75 10 15
rville n n n n n n n n n n n n n n n n n n	292 193 706 581 676 246 688	1601 1900 1900 1915 1916 1888 1909	21 42 24 7 09 110 19		23 42 24 7 69 100	10				18	10
n il Hluffs upori upori tuines Ioines	193 706 581 676 246 688	1900 1900 1915 1916 1888 1909	42 24 7 69 190 19		42 24 7 69 100	*****				18	
n il Hluffs upori upori tuines Ioines	193 706 581 676 246 688	1900 1915 1916 1888 1809	24 7 09 100 19		24 7 69 100						
nt thirds port folias folias	700 583 676 246 686	1915 1916 1888 1809	7 69 190 19		00 100						
port iport feines Loines	581 676 246 686	1910 1888 1909	19		100						
tolnes Colnes	246 656	1888	19		100						
Colnes	245 65E	1909	19		100	10					
Cones	656.								Dr.		
CORNEL CONTRACTOR CONT	14	10000			19.						
			24								
100	693	1902	140								
Jodge	334	1912	46							9	- 0
dadbon	552	1912	21		21						
	552	1910	18		18						1
lk	885	1907	22	200	22						and a
0	1056	1914	- 3		- 1						
alltown	254	2008	39		39					*****	
la	778	1902	10	10000	10						
ACRES .	231	1910	16								
	633				4.5						
Wh											96
Whater						BUILDING.					44
City ngton	760	1917			21						
á	Wh	ONA 331 Wh 633 City 214	ORA 331 1910 Wh 633 1912 City 214 1904	ORA 331 1920 16 Wa 633 1932 41 City 214 1904 120	City 214 1904 150	CHIA 231 1920 16 12 18 Wh. 523 1912 41 41 120 210 210 210 210 210 210 210 210 21	City 214 1904 150 150 10	San 331 1910 16 16 9	Six 9210 15 15 9 18 9	ORA 331 1910 16 16 9 17 17 17 17 17 17 17 17 17 17 17 17 17	SAL 331 1920 16 16 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10

PATTERN MAKERS LEAGUE OF NORTH AMERICA

			1				0	st of	Worl	k Dec	at,	1917
Marginal No.	Cuy	No. of local	Year organized	Males	Pemales	Total	Lack of work or material	Westber	Strike or Jockout	Sickness, acc'dt or old age	Other reasons	Total
604 605 606	Waterier		1911 1907 1916			30 2 6	3					

PLASTEREES INTERNATIONAL ASSOCIATION OF THE UNITED STATES AND CANADA, OPERATIVE

607 608 600 610 611 612 513 614 615 616 617 618 619 620 621	Burlington Codar Rapids. Codar Rapids. Codar Rapids. Davenport Davenport Davenport Des Motnes Duboque Pl Dodge Marshalltown Marshalltown Marshalltown Motnes Rioux City Waterion	160 561 445 28 26 21 145 488 471 227 520 495	1911 1898 1910 1902 1806 1808 1912 1913 1913 1913 1910 1908	11 5 41		36 21 7 80 80 110 8 11 6 13	15 40	5		3	7	41
---	--	---	--	------------	--	--	-------	---	--	---	---	----

PLUMBERS AND STEAM FITTERS OF UNITED STATES AND CANADA, UNITED ASSOCIATION OF

22	Boone	340	1012	22		22				
23	Boone	610	1913	22		22				
24	Burlington	212	1900	17	2000	17				
25	Cedar Rapida.	125	1895	740		42	*********			
26	Clinton	346	1912			42				
27	Clinton			- 6		19	CREEKS LABOR		10077	
CEN	Clinton Council Glads	456	1910	39		10	*****			
29	Council Blaffs	474	1991	35		35	3.	110	Liber	
200	Davenport	357	1910	32		- 22				
SET.	Des Moines	23	1889	150		150	distribution of	10		
32	Dubuque	600	1890	390						
33	Dubuque	219	1917	23		23				
	Fort Dodge	584	1912	26		26			1.1	
34	Fort Madison	701	1917	13		13				
3.5	OPINIMED.	1188	1917	12		12				
30	Iowa City	483	1909	9		9				
17	Mason City	405	1910	14.		14				
335	Maculalitown	415	1997	2.0		10				
19	Missouri Valley	372	1916			640				
10	Ottomwa	47	1909			100				
133	Sloux City	18	1890			45	10010 27015			
422	Washington .	.508	1917	-11			*****			
121	Waterloo	294	1907	20		11	*****			

POLISHERS, BUFFERS, PLATERS, BRASS AND SILVER WORKERS UNION OF NORTH AMERICA-METAL

645	Lyona	144 145	1903 1917	17		17		*****	++++1			
-----	-------	------------	--------------	----	--	----	--	-------	-------	--	--	--

POSTAL EMPLOYES, NATIONAL PEDERATION OF

							Ot	it of	Work	Dec.	31, 1	917
Marginal No.	City	No. of local	Year organized	Males	Females	Total	Lack of work or material	Weather	Strike or fockout	Sickness, acc'dt or old app	Other relations	Total
646 647 648 649 850 651 652 653 654	Cedar Rapids Davenport Dos Moines Port Dodge Lows Valls Keokuk Marshallowit Washierton Sionz City	166 91 44 317 213 238 153 214 186	1914 1910 1909 1916 1917	25 70 11 6 3 7 4	8	25 80 70 11 6 3 7				3 1		1

PRINTING PRESSMEN AND ASSISTANTS UNION OF NORTH AMERICA, INTERNATIONAL

655 656 657 658 659 660 661 662 663 664	Burlington Cedar Bapids Des Moines Dus Moines Dubnque Keckuk Cittamwa Sloux City Wolter Wolte	129 104 11 86 225 124 107 21 63 153	1912 1869 1902 1856 1914 1908 1917 1899 1893 1913	15 44 53 100 19 8 4 21 23 36 39		105 105 10 8	4					4
--	--	--	--	---	--	-----------------------	---	--	--	--	--	---

RAILWAY EMPLOYES OF AMERICA, AMALGAMATED ASSOCIATION OF STREET

065 666 067 068 069 070 071 672 073 674 675 676	Roune Burlington Codas Rapids Davemport Davemport Des Moines First Dodge First Dodge Marshalltown Muscatine Oskialoosa Ottumwa Stous City	334* 212 638 312 441 329 274 667 895 324 159 779	1903 1901 1913 1903 1903 1917 1914 1913 1902 1902 1017	11 48 103 345 657 115 8 20 43 70 70 35	6	345 663 115 8 20 43 70				4 20 6	4	1
--	---	---	--	---	---	--	--	--	--	--------------	---	---

STAGE EMPLOYES OF AMERICA, INTERNATIONAL ALLIANCE OF THEATRICAL

177	Duclington	385	1955	29	BEE!	-29	2				20
17%	Cedar Rapids	191	1910	303		26.					
170	Clinton	532	1913	31	-	31					
1086	Council Bluffs	336	1913	15		15	1		Lucia		
161	Davenport	4113	1016			25					
182	Davenpert	355	1001			24			1		
1882	Des Moines	284		28		23					
584	Duhaque.	103	1903	20	159.	20					
10.00	Des Moines	67	1590	50	1000	50					
ISIS.	Fort Dodge	399		24		24.					
87	Muscatine	238	1912	20	-2	20					
DESE-	Marshalltown	631	1913	7		7					
80	Mason City	450	1916	21	1	21				2	
100	CFECURIWA.	441		24	50000	24				2.0025	522
10-1	Sloux City.	40	1896	34		214					800
192	Sloux City	355	1914			21					
190:	Waterloo	202	1909	22	2000	23					

⁽¹⁾ Because of decline Drama and Vandeville members divide a 30% decline in work.

STEREOTYPERS AND ELECTROTYPERS UNION OF NORTH AMERICA, INTERNATIONAL

			1	-			00	nt of	Worl	k Dee	31, 1	1917
Marginal No.	CRy	No. of local	Year organized	Males	Pensales	Total	Lack of work or material	Weather	Strike or Jockout	Sickness, acc'ds or old age	Other reasons	Total
694 695 696 697	Davenport Des Moines Des Meines Sioux City	89 84 40 41	1906 1892 1899	19 23 20 12		19 23 20 12			*****	i		1
	STONE CUTTERS ASSO	CIATI	ION O	F NO	RTH	AMI	RICA	, JO	URN	EYM	EN	
698 699 700 701 702	Cedar Rapids Des Moines Duboque Iowa City. Sioux City		1902	1		6 6 6	3 6 3		*****		*****	6 3
703 704 705 706 707 708 708 710 711 712 713	SWITCHM Codar Rapids Council Bluffs Pt. Bodge. Management of the	92 203 126 170 187 84 90 174 132 34	1902 1894 1911 1904 1917 1912 1896 1891 1896	61 67 11 19 30 9 84 13 23 101 83 14	SOR	61 67 11 19 30 9 84 13 23					T	
	TAILORS U	NION	OF A	MER	ICA.	Jour	RNEX	MEN				
715 716 717 718 719 720 721 722 723 724 725 726	Burlington Cedar Hapids Counel Bhufts Day Michnes Pt. Dodge For Mathson Keokuk Ottumwa Sloux City Sloux City Waterloo	207 160 221 15 72 100 158 177 63 191 233 42	1896 1899 1896 1911 1906 1905 1891 1888 1916 1896 1894	18 24 15 9 22 20 3 16 8 67 58 9	2 2 2 20 1	20 24 15 9 22 20 3 18 10 87 59 9			14	1		

TEAMSTERS, CHAUFFEURS, STABLEMEN AND HELPERS OF AMERICA, INTER-NATIONAL EROTHERHOOD OF

							Ot	it of	Work	Dec.	31, 1	917
Marginal No.	Otty	No. of local	Year organized	Males	Pemales	Total	Lack of work or material	Weather	Strike or lockout	Sickness, acc'dt or old age	Other ressons	Total
727 728 729	Burlington	218 463 90	1905 1907 1908	35 169 50		55 169 50	25					2
30	Des Moines Dubuque Ft. Dodge	507	1903	190		190 110	10			8		1
32	Ft. Dodge Ft. Madison	630	1917	20	10000	26						446
33	Hiteman Mason City	441 579	1916	47		47	1		24454			
735	21 Uscating	225	1908	9	****	25		****				****
787	Newton Sioux City	232	1913	300	-6445	300	*****	*****		*****		
738	Sioux City	A33	1917	190		190	50				40	9
	TELEGR	APHE	RS, O	RDE	R OF	RAI	ILBO.	AD				
39	Cedar Rapids		1913	75	101	75						
40	Grimes	71	1990	229	5	234	10000	*****	41144			1200
42	LE LAYERS AND HELPER	S INT	ERNA ENCA	USTI	(AL C	11 11	N (C)	ERAN	по,			ND
42	Des Moines	94 100	1914 1916	11 16	(3)	11 16			по, :	MOSI	AO A	ND
42	Des Moines	94 100	1914 1916	11 16	(3)	11 16			по,			ND
143	Des Moines	94 100 N, BR	1914 1916 OTHE	11 16 RHO	(3)	11 16 F R/				T		ND
42 43 43 44 45 46	Des Moines	94 100 N, BR 212 204 26	1914 1916 OTHE 1886 1887	11 16 RHO 67 218 96	(3)	11 16 F R/ 218 96			по,			ND
42 43 43 44 45 46 47	Des Moines	14 100 N, BR 212 204 26 56	1914 1916 OTHE 1886 1887 1887	11 16 RHO 67 218 96 168	op o	11 16 F R/ 218 96 168	ALLRO	DAD				ND
42 43 44 45 46 47 48 49	Des Moines	94 100 N, BR 212 204 26 104 522	1914 1916 OTHE 1886 1887	11 16 RHO 67 218 96 108 50 47	op o	11 16 F R/ 218 96 168 50 47	ALLRO	DAD				ND
42 43 44 45 46 47 48 49 50	Des Moines Stock City TRAINME Belle Plaine Boone Burlington Cedar Rapida. Conterville Conterville Conterville Conterville	54 100 N, BR 212 204 26 56 104 522 707	IN14 1916 OTHE 1886 1887 1887 1885 1898 1893 1995	11 16 RHO 67 218 96 168 50 47 67	op o	11 16 F R/ 218 96 168 50 47 67	ALLRO	DAD				ND
42 43 44 45 46 47 48 49 49 49 49	Des Moines Stock City TRAINME! Belle Plaine Boone Burlington Cedar Rapida Centerville Cherokee Charleton Charleton Council Birtis	94 100 N, BR 212 204 26 56 104 522 707 183 520	1914 1916 OTHE 1886 1887 1887 1893 1993 1993	08TI 11 16 8HO 67 218 98 168 50 47 87 355 263	op o	11 16 F R/ 218 96 158 50 47 2353 265	ALLRO	DAD				
42 43 44 45 46 47 47 48 49 49 50 50 50 50 50 50 50 50 50 50 50 50 50	Des Moines Rioter City TRAINME Belle Plaine Boone Burlington Centerville Cherokee Clarion Clarion Clarion	94 100 N, BR 212 204 26 56 104 527 707 180 520 28	IN14 1916 OTHE 1886 1887 1887 1885 1895 1895 1895 1895 1895	08TI 11 16 8HO 67 218 96 168 50 47 87 353 263 86	op o	11 15 F R/ 218 96 168 50 47 67 355 285 86	ALLRO	DAD				
443 443 445 446 447 448 449 751 751 751 754 755	Des Moines	94 100 N, BR 212 204 26 50 50 104 522 707 183 530 28 602 60	1914 1916 OTHE 1886 1887 1887 1893 1993 1993	08TI 11 16 8HO 67 218 98 168 50 47 87 355 263	OD O	11 16 F R/ 218 96 158 50 47 67 355 285 86 210 86 108	ALLRO	DAD		50		
443 443 443 445 446 447 448 449 449 451 451 451 451 451 451 451 451 451 451	Des Moines	94 160 N, BR 212 204 26 46 104 522 707 183 520 602 602	ENCA 1914 1916 OTHE 1886 1887 1885 1898 1995 1995 1995 1893 1991 1883	08TI 11 16 67 218 96 50 47 61 355 265 86 255 108	OD O	11 15 F R/ 218 96 168 50 47, 67 255 86 255 108	ALLRO	DAD		56		
742 43 745 747 749 751 752 753 753 753 753	Des Moines Rioter City TRAINME Belle Plaine Boone Burlington Cuterolite Cherokee Clarion Clinton Clinton Des Moines Dubuquie Eagle Grove Eagle Grove	94 100 N, BR 212 204 26 50 50 104 522 707 183 530 28 602 60	INIA 1916 O'THE 1886 1887 1887 1885 1893 1993 1983 1983 1983 1983 1983	08TI 11 16 8HO 67 218 96 168 50 47 67 355 265 255 108	OD O	11 14 15 F R./ 218 96 198 80 47 87 333 285 86 82 25 108 82 83 84 65 65 65 65 65 65 65 65 65 65 65 65 65	ALLRO	DAD		50		
443 443 444 445 446 447 448 449 450 451 554 554 555 756 756 756	Des Moines Stoux City TRAINME Belle Plaine Boom Coder, Rapids Ceder, Rapids Conterville Cherokee Clinton Conneil Bluffs Creston Don Mothes Eagle Grove Eddon Eagle Grove Eddon	74 100 N, BR 212 204 26 56 50 104 522 707 183 520 602 602 603 138 348 348 371	ENCA 1914 1916 O'THE 1886 1887 1887 1885 1905 1905 1883 1901 1883 1893	11 16 RHO 67 218 06 168 80 80 255 108 34 65 108 108 108 108 108 108 108 108 108 108	OD O	111 148 F RA 218 96 108 80 47 67 67 2355 86 86 108 86 86 108 86 86 86 86 86 86 86 86 86 86 86 86 86	ALLRO	DAD		566		
442 443 445 440 445 440 440 445 440 45 460 460 460 460	Des Moines Stoux City TRAINME Belle Plaine Boom Coder, Rapids Ceder, Rapids Conterville Cherokee Clinton Conneil Bluffs Creston Don Mothes Eagle Grove Eddon Eagle Grove Eddon	212 204 26 56 56 56 582 707 103 520 602 602 603 138 248 252 171 215	ENCA 1914 1916 OTHE 1886 1887 1887 1885 1893 1905 1893 1893 1995 1893 1893 1893 1893 1893 1893 1893 1893	67 218 80 168 80 168 80 255 108 65 108 109 109 109 109 109 109 109 109 109 109	op o	111 148 F R./ 2185 96 108 87 677 878 869 2355 869 2355 108 83 84 655 108 108	ALLRO	DAD		566	30	
42 43 443 445 445 447 748 749 754 753 754 756 757 756 756 756 756 756 756 756 756	Des Moines Stoux City TRAINME Belle Plaine Boone Coder, Rapids Coder, Rapids Conterville Charien Conterville Charien Des Moines Dubtante Edon Edon Edon Edon Edon Manuellen Manuellen Manuellen Manuellen Manuellen	94 100 N, BR 212 204 26 56 104 522 707 183 520 602 602 603 1348 352 171 515 873 319	ENCA 1914 1916 OTHE 1886 1887 1885 1885 1993 1993 1893 1893 1893 1893 1893 1893	67 218 218 30 50 60 61 61 61 62 50 50 50 50 50 50 50 50 50 50 50 50 50	O)	111 16 87 218 96 108 80 108 81 2355 86 2255 108 83 108 83 108 83 108 81 113	ALLRO	DAD		50		
42 43 443 445 447 449 449 449 455 449 455 455 467 457 457 457 457 457 457 457 457 457 45	Des Moines Rioter City TRAINME! Belle Plaine Boone Burlington Cuterolides Conterville Cherokee Clarion Clinton Des Moines Dubuquie Eagle Grove Eagle Grove Estherwille Ft. Dodge Ft. Madison Manly Mason City Mason City Mason City Mason City Mason City Mason City	94 100 100 712 204 25 46 104 104 105 28 602 138 248 248 271 153 163 171 163 164 171 183 183 183 183 183 183 183 183 183 18	ENCA 1914 1916 OTHE 1886 1887 1887 1885 1895 1995 1995 1893 1999 1883 1999 1883 1999 1885 1893 1999 1998	111 16 RHO RHO 67 168 168 68 168 68 168 68 168 168 168 16	O)	67 RA 67 2155 96 198 50 47 7 353 285 108 53 4 65 196 190 83 113 113	ALLRO	DAD		56	30	
743 745 745 746 747 740 754 754 755 755 755 756 765 765	Des Moines Sloter City TRAINME Belle Plaine Boone Burlington Cedar Rapidis Codar Rapidis Codar Codar Clarion Clinton Clinton Clinton Clinton Contest Burls Contest Burl	94, 100 212, 204, 26, 64, 622, 716, 716, 716, 716, 716, 716, 716, 716	1914 1916 OTHE 1886 1887 1887 1887 1887 1887 1887 1888 1992 1993 1991 1888 1992 1888 1992 1888 1992 1889 1889	111 16 RHO 67 218 96 168 168 255 108 625 108 625 108 625 109 87 113 1194 88 75 75	O)	111 16 2218 96 108 30 47 2355 2856 2856 108 533 46 655 100 833 1194 88 87 75	ALLRO	DAD		56	30	
743 744 745 745 749 751 753 753 753 753 753 753 753 753 753 753	Des Moines Stoux City TRAINME Belle Plaine Boone Conteville Charien Contentille Charien Boone	944 100 2112 204 256 256 256 256 257 257 257 257 257 257 257 257 257 257	1814 1916 1916 1916 1916 1916 1916 1916 19	08 RHO 67 218 506 50 65 65 65 65 65 65 65 65 65 65 65 65 65	on o	111 16 27 R/ 218 96 108 47 67 67 67 67 67 67 67 67 67 67 67 67 67	ALLRO	DAD		50 52 2 4	30	
742 743 745 747 749 754 755 756 756 756 766 766 766 766 766 766	Des Moines Riote City TRAINME Belle Plaine Boone Burlington Codar Rapides Cherokee Clarion Clinton Clinton Des Moines Dubuquie Eagle Grove Eldon Ft. Dodge Ft. Madison Manly Marion Marion Marion Monkon Oskaloona Ottumwa Perry Morry Morr	944 100 212 204 266 404 404 507 288 602 288 602 1388 352 171 515 510 510 510 510 510 510 510 510 51	1914 1916 1916 1916 1916 1916 1916 1916	67 218 67 218 50 60 67 67 67 67 67 67 67 67 67 67 67 67 67	op op o	111 148 F R./. 218 96 96 97 218 97 21	ALLRO	DAD		500	30	
743 743 745 747 747 748 747 753 753 753 753 753 753 753 753 753 75	Des Moines Riote City TRAINME Belle Plaine Boone Burlington Codar Rapides Cherokee Clarion Clinton Clinton Des Moines Dubuquie Eagle Grove Eldon Ft. Dodge Ft. Madison Manly Marion Marion Marion Monkon Oskaloona Ottumwa Perry Morry Morr	94 100 N, BR 204 204 205 46 104 104 103 103 103 103 103 103 103 103 103 103	1814 1916 1856 1857 1857 1857 1857 1857 1857 1857 1857	67 218 60 168 80 168 80 168 80 168 80 168 80 168 80 168 80 168 80 160 160 160 160 160 160 160 160 160 16	op op o	111 148 F R./ 218 96 96 108 255 108 25	ALLRO	DAD		50 52 2 4	30	
742 743 743 745 747 748 754 755 755 755 755 755 755 755 755 755	Des Moines Riote City TRAINME Belle Plaine Boone Burlington Codar Rapides Cherokee Clarion Clinton Clinton Des Moines Dubuquie Eagle Grove Eldon Ft. Dodge Ft. Madison Manly Marion Marion Marion Monkon Oskaloona Ottumwa Perry Morry Morr	944 100 N, BR 212 264 266 164 267 267 288 268 268 268 277 288 248 257 278 278 278 278 277 278 277 277 277 27	1914 1916 1986 1987 1987 1985 1987 1985 1988 1988 1988 1988 1988 1988 1988	677 218 96 108 50 677 218 96 108 50 67 108 50 67 108 50 67 108 108 108 108 108 108 108 108 108 108	OD OD O	11 15 F R./ 67 218 80 168 80 168 80 168 80 168 80 168 80 168 80 168 113 113 114 88 87 75 112 90 90 90 90 90 90 90 90 90 90 90 90 90	ALLRO	DAD		500	30	
743 743 745 747 747 748 747 753 753 753 753 753 753 753 753 753 75	Des Moines Stoux City TRAINME Belle Plaine Boone Conteville Charien Contentille Charien Boone	94 100 N, BR 204 204 205 46 104 104 103 103 103 103 103 103 103 103 103 103	1814 1916 1856 1857 1857 1857 1857 1857 1857 1857 1857	67 218 60 168 80 168 80 168 80 168 80 168 80 168 80 168 80 168 80 160 160 160 160 160 160 160 160 160 16	op op o	111 148 F R./ 218 96 96 108 255 108 25	ALLRO	DAD		500	30	

TYPOGRAPHICAL UNION, INTERNATIONAL

							Ot	it of	Work	Dec.	31, 1	917
Marginal No.	City	No. of local	Year organized	Males	Femalis	Total	Lack of work or material	Weather	Strike or fockout	Steleness, seco'ds or old age	Other reasons	Total
774 775 776 777 778 779 780 781 782 783 784 785 786 787 788	Boone Burlington Cedar Hapids Clinton Council Bluffs Des Moines Dubuque Fi. Dodge Fi. Madison Lowa City Keokuk Marshalitown Mason City Muscatine Oskaloosa Stoux City Tri City (Davenport) Waterloo	281 75 192 234 203 118 22 713 581 515 68 414 406 251 526 180 407	1900 1885 1885 1882 1882 1882 1882 1903 1903 1900 1892 1900 1899 1895 1899	19 40 81 27 29 275 65 31 9 8 10 24 22 17 76 62	3 21 1 1 1 2 1	19 40 86 27 31 296 65 32 10 8 16 24 25 23 17 145 80	*			1		

TABLE NO. 27-TRADE UNIONS.

Summary for State by Organizations, Membership by Sex December 31, 1917, and Membership December 31, 1915.

Name of Organization	No. of Locals	Malos—mombers 1917	Femalos— members 1917	Total—members 1917	Total toembers 1915
Totals for State. Bakery and Confectionery Workers, I. U. of A. Harbers Union, International Journeymen. Blacksmiths, International Brotherhood of Boilermakers and Iron Ship Builders of Am., Bro. of Bookinders, International Brotherhood of Boot and Shoe Workers, United.	23 14 14 7	53,280 131 871 383 835 97	95	53,644 131 871 383 855 192	48,000 130 964 233 536 140
Bricklayers, Masons and Plasterers, I. U. of A. Brick and Clay Workers of America, The United Bridge and Structural Iron Workers Issued	24 2	1,110 48		1,110	977 98
sociation Troom and Whisk Makers Union, International (1) Sarmen of America, Brotherhood Railway Sarpenters and Joiners of Am. United Brotherhood of Sement Workers, American Brotherhood of (x)	4 5 25 38	96 25 3,494 4,711		96 25 2,494 4,711	1 553 1 553 3 942
Herks, National Festeration of Post Con-	19	557	76	633	601
lerks, Brotherhood of Railway onductors of America, Order of Railway	1	79 92	5 16	84 108	1 500
Coopers, International Union of North America. Electrical Workers of Am., International Bro. of (1)	18 1 22	1,130 38 701	1	1,130 38 703	2.10 2.10

				-	
Name of Organization	No. of Locals	Males—members 1917	Females— members 1917	Total— members 1917	Total— members 1915
	-5	145		145	66
Engineers, International Union of Steam and Operating. Engravers Union of North America, International Photo.	2	39		39	31
Federal Employes, National Federation of	2	66	1	67	
Federal Labor Unions American Fed. of Labor (3)	18	105	- Frank	105	367
Firemen and Enginemen, Broth, of Locomotive	31	2.660	- Seen	2,660	2,410
Firemen, International Brotherhood of Stationary (2)	3	16	100	16	11
Garment Workers of America, United	3	10	153	167	155
Granite Cutters International Association of America	3	25	100000	16	25
Hat and Cap Makers of North America, United Cloth.	1	_ 16		441	Service.
Hod Carriers, Building and Common Laborers' Union of	8	739		739	237
America, International	.0	100	1 months	4.04	200
Horsesboers of U. S. and Canada, International Union of	5	17	4	17	18
Journeymen (5)		-	12000		
Hotel and Restaurant Employes, International Alliance and Bartenders' International League of America	3	83	43	126	304
Lathers, International Union of Wood, Wire and Metal.	- 6	102	Janes .	102	75
Laundry Workers, International Union	- 1	22		22	29
Lathers, International Union of Wood, Wire and Metal. Laundry Workers, International Union. Leather Workers on Horse Goods, United Broth of					94
Leather Workers, United International Union	3	478	Secret.	478	
Letter Carriers, National Association of (6)	-57	811	100.000	611	600
Lithographers, International Protective and Beneficial	1	14		14	Marie Control
Association of the United States and Canada	213	2,559		2,559	1.750
Machinists, Internation Association of Maintenance of Way Employes, International Brother-	10.4	of America	105,377	11.70	27100
hood of	- 32	304	10000	304	42
Meat Cutters and Butcher Workmen of North America.					656
Metal Workers International Alliance, Amalgamated			-		2,000
Sheet	17	522		522	294
Mine, Mill and Smelter Workers, International Union of	-1	408	*****	408	********
Mine Workers of America, United	79	15,100		15,160	15,296
Molders' Union of North America, International	.9	505	100	505	379
Musicians, American Federation of	21 24	1,599	188	1,787	1,772
Painters, Decorators and Paper Hangers, Brotherhood of Pattern Makers' League of North America	3	38	320000	38	54
Plasterers' International Association of the U. S. and	-03	400		-	
Canada, Operative (1)	15	412	1000	412	220
Plumbers and Steam Fitters of the U. S. and Canada.	-			-	
United Association of	22	524	takkin.	524	364
Polishers, Buffers, Platers, Brass and Silver Workers				120	
Union of North America	2	31		31	-11
Postal Employes, National Federation of	9	150	5	155	
Printing Pressmen and Assistants' Union, International. Railway Employes of America, Amalgamated Associa-	10	306	3	309	256
tion of Street and Electric	12	1,396	6	1,402	1,301
Stage Employes of America, International Alliance	1.00	9.74000		4.5/41000	* 1004
Theatrical	17	420	DEGREE A	420	476
Stereotypers and Electrotypers' Union of North America.				200	400
International	4	74		74	70
Stone Cutters' Ass'n of North America, Journeymen (1)	.5	22		22	15
Stove Mounters' International Union	*****	******		******	17
Switchmen's Union of North America	12	465		465	410
Tallors' Union of America, Journeymen	12	260	27	296	256
Teamsters, Chauffers, Stablemen and Helpers of America, International Brotherhood of	12	1,130		1,180	630
Telegraphers, Order of Bailroad	3	304	5	309	930
Tite Layers' and Helpers' International Union, Ceramic.	-0	100	- 12	4117	
Mosaic and Encaustic	2	27		27	
Trainmen, Brotherhood of Railroad	30	3,814		3,814	3,392
Typographical Union, International	19	1,002	40	1.042	1,100

(1) Membership of one local not reported.
(2) Membership of two locals not reported.
(3) Membership of two locals not reported.
(4) Membership of four locals not reported.
(5) Membership of three locals not reported.
(6) Membership of five locals not reported.
(8) Membership of five locals not reported.
(x) Consolidated with Plasterers.

TABLE NO. 28-COUNTY DISTRIBUTION. Trade Union Statistics by Counties Dec. 31, 1915, and Dec. 31, 1917.

Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 31 1915 | Dec. 3

	Dec.	31, 1915	Dec. 3	1. 1917
Countiles	No. of locals	Membership	No. of locals	Membership
Totals, State	72	6 48,363	792	53,944
Appanoose	2		33	5,025
Benton	- 10		8 35	292
	25	1,617	25	1,925 2,568
	1		1	1
Calboun			1	
Carroll Cass Codar	. 3		1 3	25 205
Cerro Gordo	- 1	2		
	15	782	17	17 935
Clay	1 1	149	4	112
Clayton Clinton Crawford	23	1,182	1	50
Crawford	2	25	23	1,778
Davis.	15	1,583	8 2	1,168
Dubuque	23 40	1,148	23	1.070
Emmet	6	2,227	42	2,763
Floyd	6	167	11	600
Fremont	1	4	1	17
Greene	1	2	1	165
Hundle	1	40	2	35 17
Harrison. Henry Howard Jasper	5	297	3 5	292
Howard	2	8	1	5
	7 6	576	10	812
Jones -	8	134	6 7	84
Keokuk	1	8	1	3 12
Leo.	******		1 .	
Lucas	28 50	718 3,569	32 51	1,073 3,719
Mahasha	10 20	903 724	10	1,005
Marshall	7	652	22 5	320
Monroe	28	1,086	28	949
	23	3,237	16	3,112
	16	367	16	310
Plymouth	5	191	6 2	226 11
Polk	70	4	1	5
	14	8,531 867	83 22	8,383
Scott	4	86	6	130
	34	2,140	31	2,581
Sloux Story	1	45	1	32
	3 1	130	4	107
	9	312	3	160
	45	2,462	43	2,134
wayne		290	5	74 205
	24	1,225	34	1,774
Worth.	44	3,495	53	3,923
Wright	12	111 525	6 13	349 564
	12	020 1	10 1	

TABLE NO. 29-UNION LABOR WAGES.

Union Scale of Wages and Hours of Labor, by Occupations and Municipalities as Per Report for December 31, 1917.

		Rate	s of Wag	es	- 1		ours	
Occupations and Municipalities	Units	Rates 1917	Rates 1915	Overtine (hour)	Sundays and holidays (hour)	Day	Wock	No. of mo. Saturda y
BAKERS— Sloux City— Foremen, Bread No. 1. Foremen, Bread, No. 2. Foremen, Cakes. Oven Men and Mixers. Bench Hands. Helpers.	week week week week week	27.00 24.00 21.00 22.00 18.00 14.00	22.00 20.00 17.00 18.00 14.00 8.00 10.00	10 10 10 10 10 10 10 10 10	double double double double double double	999999	54 54 54 54 54 54	
BARBERS— Burlington Gedar Rapids Cocar Rapids Charlton Creston Davenport Des Moines Dubuque Pairioid Marshalltow Mason City Muscatine Ockaloosa Sloux City Sloux City Waterloo	week week week week week week week week	15.001 12.002 14.000 70% 12.004 15.006 16.00 14.007 13.009 14.0011 15.0016 15.0016 15.0016 15.0016 15.0016 16.0018 16.0018 16.0018	13.00° 12.00 14.00 15.00 14.00 15.00 15.00 17.00 15.00 17.00 12.00 15.00 12.00 17.00 12.00 14.00 18.00 14.00 18.00 14.00 18.00 18.00 14.00 18.00			12 12 12 10 12 12 12 10 12 12 12 12 12 12 12	74 75 66 74 77 77	
BLACKSMITHS— Boone— Blacksmith Helpers.	hour hour	.52 .32§	.394	1½ 1½	14 15	9	54 54	

Guarantee of \$15 and 60% of all taken in over \$22.

Guarantee of 12 and 60% of all taken in over \$22.

Guarantee of 12 and 60% of all taken in over 18.

Guarantee of 12 and 60% of all taken in over 18.

Guarantee of 12 and 50% of all taken in over 18.

Guarantee of 12 and 50% of all taken in over 18.

Guarantee of 14 and 50% of all taken in over 18.

Guarantee of 14 and 50% of all taken in over 20.

Guarantee of 14 and 50% of all taken in over 19.

Guarantee of 14 and 50% of all taken in over 19.

Guarantee of 14 and 50% of all taken in over 19.

Guarantee of 15 and 50% of all taken in over 19.

Guarantee of 15 and 50% of all taken in over 19.

Guarantee of 15 and 50% of all taken in over 21.

Guarantee of 15 and 50% of all taken in over 21.

Guarantee of 15 and 50% of all taken in over 21.

Guarantee of 15 and 50% of all taken in over 21.

Guarantee of 14 and 50% of all taken in over 21.

Guarantee of 14 and 50% of all taken in over 22.

Guarantee of 14 and 50% of all taken in over 22.

Guarantee of 14 and 50% of all taken in over 23.

Municipalities		-	Rates	of Wago	8		He	ours Labo	of T
Cedar Rapids Door S2	Occupations and Municipalities	Units		Rates 1915	Overtime (hour)	98	Day	Work	No. of mo. Hatterday
Clinton Holgers Dot S2	Cedar Rapids— Blacksmith					11		47	-71
The Wedden bour bour bour Dubuque— bour Blacksmith bour Season Se	Clinton— Biacksmith	hour	.52	.41	11	11	0	54	
	Dubuque	bour	.42	,36	il	il		34	
Blacksmith Pursace and 1st Pires bour 57 466 8 48	Helpers.		-54	.42s					4
Tool Gres. bour	Blacksmith— Furnace and 1st Fires		.57	.46)	311	19	8		5
Light engine fires bour 45 75 8 45	Tool fires.	hour	.52	44	*******	*******	8	48 45	
Freight and bolt fires	Light engine fires	hour	48	37					
Helpers	Car blacksmith fires	bour	1 28	321			-	45	
Tool fires bour 33 27 8 8 8 8 8 8 8 8 8	Furnace and 1st fires	bour	.36	.29			8	45	144
Car blacksmith boar	Tool fires	hour	.33	-27 t			8	45	
Oelwein Section Sect	Freight and bolt fires	hour	.32 .32 .29	25 25 23	*******	********	8 8	45	111
Helpers	Oelwein— Blacksmith	hour	350	11500	14	13			-
Car blacksmith helper bour 55 25 14 4 5 5 5 5 5 5 15 15 9 54 5 5 5 5 5 15 15 9 54 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Helpers	pont	.31	.32	11	10	9	53	
Car blacksmith helper bour 23 11 14 9 65 Bolt makers, meh. dept bour 22 11 14 9 65 Valley Junction—Blacksmith bour 52 12 14 18 8 45 Helper bour 36 12 12 14 8 8 55 Helper bour 36 12 12 14 8 8 55 Helper bour 36 12 12 14 8 8 55 Helper bour 27 22 14 14 8 55 Helper bour 25 15 15 19 9 54 Machine No. 1 bour 26 25 15 12 19 9 54 Machine No. 2 bour 29 24 15 19 9 54 Machine No. 2 bour 29 24 15 19 9 54 Machine No. 2 bour 29 24 15 19 9 54 Machine No. 2 bour 29 24 15 19 9 54 Machine No. 2 bour 29 34 15 19 9 54 Machine No. 2 bour 29 34 15 19 9 54 Machine No. 2 bour 29 34 15 19 9 54 Machine No. 2 bour 29 34 15 19 9 54 Machine No. 2 bour 29 34 15 19 9 54 Machine No. 2 50 25 35 34 15 15 8 54 Ware room men bour 23 24 15 15 8 34		hour	.32	.26]	11	11	3	48	
Bolt makers, mch. dept Dour 32 14 14 8 48			48	*********					-
Blackmith bour 52 14 15 5 55 Helper bour 36 15 17 8 55 What Cheer bour 37 22 15 15 8 55 Hiadcomith bour 25 25 15 15 9 54 Helper bour 20 25 15 17 9 54 Machine No. 1 bour 20 25 15 17 9 54 Machine No. 2 bour 27 24 15 17 18 Machine No. 2 bour 27 24 15 17 18 Machine No. 2 bour 27 24 15 17 18 Ware room men bour 23 24 15 17 18 Ware room men bour 23 24 15 17 18 OLLER MARKES-	The state of the s	hour	32	1		700		390	***
Histormith	Blacksmith	hour				11		55 55	
Handy men. 5002 23 24 13 13 5 54 10 10 10 10 10 10 10 10 10 10 10 10 10	Helper	hour	.25	.25	19	34	9	54	-
OILER MAKERS		bour	.29 25	.24	19	19	100	54	
	OILER MAKERS—					100	-	48	

			Rate	s of Wag	en		Н	Lab	or
Occupations and Municipalities	Units		Rates 1917	Rates 1915	Overtime (hour)	Sundays and holidays (Bour),	Day	Work	No. of mo. Saturday
BOILERMAKERS-Con.		-			1			1	T
Boone— Boiler makers Helpers	hour	1	52	.43}	11	11	9	54 54	-
Cedar Rapids— Botler makers	hour		.82 .35	41 23	14	11	8	47 47	-
Helpers Clinton— Boiler makers Helpers	bour		.52	:431	15	11	9	54	_
Helpers Dubuque— Boller makers	hour		.55}	.44	11	11	8	48	9
Helpers Eagle Grove— Boiler makers	hour		.314	-23	11	11	8	48 54	9
Marshalltown-	hour		.30)	.43	11	11	9 8	54	-
Boller makers	hour		311	271	il	ii	8.	48	-
Holler makers	hour	1	.52 .55 .29	.42 .44 .24	11	11	9	53	
Valley Junction— Boiler makers	hour	E	41) 52	.40	18	-11/	8	47	
BOOKBINDERS— Cedar Rapids—		10	-		-	-			
Men Women	week week		20.00 8.00	20.00 8.00	11	1	8	48 48	4
Book-folders	week week		18.50 10.00	18.50 10.00	14 10	double double	8	48 48	3 3
Dubuque— Foremen Forwarders Stock cutters	week week		20.00 17.00	20.00 17.00	16 16	double double	9.81	48	
Bookbinders, men	week		17.00	17:00	15	double	8	48	4
Bindery women	week		9.00	A.00	18	double	8	48	4
Bricklayers Plasterers Burlington—	bour- bour		.75	.65 .70	1	double double	9	54 54	
Bricklayers	hour		.70	.75	15	double	8.	48	****
Hricklayers Masons Charles City—	hour		.65	.70 .571	double double	double double	8.8	48	
Bricklayers Masons Plasterers	hour hour		.65		1	11	9 9	54 54	
Bricklayers	hour		.75	623	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	double	8	48	
Croston—	bour		.75	.70	15	double	8	44	12
Bricklayers	hour		.80 .70	.70 .60	19 11	double 1½	9	54 54	
Brickiayers Marble settors Stone setters	hour day hour		5 75 814	5.00 70	double	double	8	44	12

		Rates	of Wage			H	ours Labe	of
Occupations and Municipalities	Units	Rates 1917	Rates 1915	Overtime (hour)	Sundays and holidays (hour)	Day	Week	No. of mo. Saturday
BRICKLAYERS—Con. Dubuque—			W.S.					1
Bricklayers	bour	.75	.70	16	double	8	44	12
Bricklayers	hour	.75	.70	11		8	45	-11
Bricklayers	hour	.75	.70		double	8	65	
Grinnell— Bricklayers	hour	.75	.65	16		5	48	166
Masons	hour	.75	.70	11	double	8	-48	44
Marshalltown— Bricklayers	hour	.75	.65	11	double	8	45	U.
Mason City-	hour	.75	.70	15	double	8	48.	
Bricklayers	hour	.75	.70	14	double	8	48	-
Muscatine— Bricklayers	hour	.75	.65	11	double	8	48	
Oskaloosa— Bricklayers	hour	.75	.65	11	double	1	48	
Sloux City— Bricklayers	hour	.80	.70	13	double	8	48	
Waterioo— Bricklayers	hour	.75	.75	19	double	8	411	
Ottunwa	day	6.00	5.60	11	double	8	48	
Bricklayers Plasterers	day	5.60	5.00	10	double	100	45	
Plasterers	stay	3,60	6.00	-15	double	(5)		
Brick and tile	hour	.30	.25			10	50	
TROOM MAKERS-							10	
Davenport	day	3.85 4.50	3.50			10	51	
ORIDGE AND STRUCTURAL IRON WORKERS— Des Moines— Structural tron	lour	.626	.56)		double		45	-
Sloux City— Pile driving.	hour	.661		19	double		44	12
Iron work	hour	-65	*******	15	double	1	64	12
ARMEN, RAILWAY— Belle Plaine— Car repairing. Cor inspecting. Cor claime. Car epairing No. 2.	hour hour hour hour	.30 .30 .274 .25 .25	.28 .28 .23 .23 .20	10 10 10 10 10 10	100000000000000000000000000000000000000	0 11 0 2 10	04 77 54 54 70	
Car department	hour	25	.18	19	11	9	54	
Carroli— Car inspector	hour	.30	.21	1)		9	34	111
Car inspector	hour	.30	.225 .195	11		9	14 54	
Car repairers	hour	.26)	,18)	福	******	11	27	
Carpenters, coach	hour	.42)	.81)	10			67	
Carpenters, freight	hour	.409	. 20 s . 27 s	19 10 10		93	47	
Painters	hour	.428 .319	,316	10	*******	N N	47 47	

		Rates	of Wage				ours Labo	r
Occupations and Municipalities	Units	Rates 1917	Rates 1915	Overtime (hour)	Sundays and holidays (hour)	Day	Week	No. of mo. Saturday half holiday in effect
CARMEN, RY-Con-					1	100		1
Dubuque— Car smiths. Carpenters, coach Carpenters, locomotive. Carpenters, car Car painters.	hour hour hour hour	.27 § .35 § .34 § .30 § .29	211 26 26 26 23 22	10 10 10 10 10 10	10 10 10 10 10	9 9	53 83 47 53 53	44444
Eldon— Truckman. Carpenters. Truckman-helper	hour bour bour	.334 .30 .304	253 33 203	10 10 10 10	1)	8 8 8	55 55 55	
Ratherville— Carpenters, car Carpenters, locomotive Car repairers Car inspectors.	hour hour hour	.424 .401 .38 .35	23	10 10 10 10 10	11	8 8 8 11	47 47 47 77	
Hawarden— Car repairer Car inspector Car cleaners Car cleaners Car painters	hour hour hour hour	.35 .33 .32 .25 .27		19	10 10 10 10	8 10 8 8 8	47 70 47 47 47	
Mason City— Car repairers Car carpenters Car laspectors Air brakumen	hour hour hour hour	.28 .32 .30 .20	20) 221 211 211	101111111111111111111111111111111111111	1	9 10 9	53 53 70 53	
Car carpenters	hour hour	.30 27§	27 22	15	110	9	54 54	
Ottumwa Car carpenter Car inspector Car repairer Air brakemen	hour hour hour hour	.33 .30} .29 .30}	29 26 23 24	10 11	1 h 1 h 1 h 1 h 1 h	9 9 9	62 84 62 62	
Perry— Carmen Air man Carpenter Car inspector Inapector, special	hour hour hour hour	.28 .32 .32 .30) .29	.22\(\frac{1}{23\frac{1}{2}}\) .23\(\frac{1}{2}\) .24 .24 .24 .22\(\frac{1}{2}\)	10 10 10 10 10 10	10	9 9 9	54 54 54 63 54	
Carpenters Pilot man Task men Painters Coppersmith Stoam fitters Babbitters	hour hour hour hour hour hour	.403 299 35 30 .43 .44 .828	.376 .254 .324 .36 .43 .39 .294	1000	10 10 10 10 10 10	*****	45 48 45 48 48 48	
Carpenters, coach Carpenters, engine Steel carmen Carpenters, box Beoairmen	hour hour hour hour	.42§ .40§ .42§ .38 .33§	.30½ .31 .30½ .30 .26	1000000	10 10 10 10 10 10 10 10		47 47 47 47 47	
Coach cleaners. CARPENTERS AND JOINERS—	hour	.306	.18	10	16	10	47 70	
Carpenters Burlington— Carpenters Millmen Codes Fell	hour	.50	.45	15	double	9 8	48	
Carpenters	hour	.50	.40	19	double	10	55	8
Cedar Rapids— Carpenters	hour	.625	.55	19 16	double	8 0	48 54	

		Rates	of Wass	W.		H	cars of
Occupations and Municipalities	Unite	Rates 1917	Rates 1915	Overtime (hour)	Sundays and holidays (hour)	Day	Week No. of mo. Hamplay
CARPENTERS—Con.	62.03	1	48	11	and the same of		
Carpenters	hour	.45	-45	- 42	double	8	45
Council Bluffs— Carpentees Millwrights	hour	-878 -20	-50	11	double double	8	44 H 44 H
Des Molnes— Carpenters	hour	.65	60	11	double	8	44 12
Dubuque— Carpenters	hour	.55	.45	11	double	8	44 12
Fairfield— Carpenters	hour	.40	.35	11	double	9	34
Fort Dodge—	hour	.55	.30	114	double	-	41
Shopmen	hour	35	.33	11	double	9	54
Grinnell— Carpenters	bour	.80	.45	11	double	9	54
Carpenters	hour	.50	.40	11	double	8	48
Iowa Falls— Carpenters	hour	.45	.40	1	1	9	54
Keokuk— Carpenters	hour	.50	45	11	double	8	48
Marshalltown-	hour	.874	.50	11	double	8	45
Carpenters	hour	.50	40	11	double	0	54
Mason City—		7722	50	Total .	double	0	54
Carpenters	hour	.50		11			(S)
Larpenters	hour	.50	451	转	double	8	45 11
Carpenters	hour	45	.35	11	double	9	54
Carpenters	day	4.80	6.40 3.00	11	double double	8 9	48 54
Washington-		3.50	2.75	11	double	10	
Carpenters Waterloo—	day			1000		8	
Carpenters Milmen	hour	18.	.31	11	double		48
Webster City-		-40	.35	11	11	2	34
Carpenters	hour	.50	-40	31)	double	10	60
Albia		2	2			8	46 L
Council Bluffs	+3		4			8	45
Des Moines.	2				*******	3	47 11
Dubuque No. 88	245	9.00	8.00			8	45
Dubiique No. 88 Fairfield	M	10.00	9.00	******		- 140	45
Fort Dodge		1 23.00	22.00	-5775-573	*******	8	45
Fort Madison	M	12.00	11.00	*******		8	48
Mt. Pleasant	-	2				8	46
Muscatine	- 18	A				8	47
Oskaloosa	1.6	8.			******	8 8	45
Ottunwa Sloux City						8	45
Waterloo	M	9.00	9.00			8	45

(a) All piece work upon a basis of 1,000 cigars. Rate varies according to nature of work size, shape and quality.

		Rate	s of Wage	16			ours	1
Occupations and Municipalities	Units	Eales 1917	Rates 1915	Overtime (hour)	Sundays and holidays (bour)	Day	Work	No. of mo. Saturday
CLERKS, RAILWAY— Sloux City—						300	200	
Checking clerk Callers Truckers	month hour hour	75.00 .27 .23	60.00 .21 .18§			10 10 10	60 60 60	
							100	
CLERKS, RETAIL— Cedar Rapids		14 00	19 00			10	55]	-
Centerville	week	14.00	12.00	1500000		10	66	17
Colfax Muscatine	week	18.00	15.00			10	63	
Waterloo	e		6			10	92	
CONDUCTORS, RAILWAY-								
Hoone-	month	married a	138.85			8	45	
Passenger	month	*********	145.00			8	48	114
Burlington-		1 134:20						
Passenger	month	165.00	*********			8	48	200
Through freight	100 mi.	4.18	4.18	Pro rata	Pro rata	8 8	48	564
Way freight	100 mi.	4.75	4.75	Pro rata	Pro rata	0	901	***
Conductors	100 mi.	4.18	4.18	Pro rata	Pro rata			
Brakemen	100 mi.	2.78	2.78	Pro rata	Pro rata	-100	Anna	
Creaton— Passenger	100 mi.	4.18	4.18	Pro rata	Pro rata			
Freight	100 mi.	4.75	4.75	Pro rata	Pro rata		****	
Dubuque— Passenger	100 mi.	4.18	4.18	Pro rata	Pro rata			
Way Freight	100 mi.	4.75	4.52	Pro rata	Pro rata			144
Marshalltown	month	148.50			CAP SALET			
Passenger	month	168.50		Pro rata	Pro rata.	8	48	533
Through freight	100 mi.	4.18	4.18	Pro rata	Pro rata	8	48	
Way freight	100 mi.	4.69	4.69	Pro rata	Pro rata	8	48	
Ottunwa— Passenger	month	165.00	165.00	Pro rata	Pro rata		440	24
Freight	100 mi	4.18	4.18	Pro rata	Pro rata			100
Sanborn— Conductor	100 mi.	/ 4.18	4.18					
		4.73	4.52	Pro rata	Pro rata	-		
COOPERS— Cedar Rapids	hour	35	.29	15		10	60	100
				16	100000			
Cedar Rapids	day	4.50	4.50	14	double	8.	44	12
Davenport-	100	10.00	3000	- 60	AMME .	LUNE		100
Linemen	day	4.05	3.60	14	double	9	54	-
Des Moines	hour	.624	-49	11	double	8	44	***
Inside	bour	.60	.50	1)	double	8	44	12
D. M. Electric	day	4.32	3.50	10	double	9	53	110
Dubuque-	uay	4.02	0.00	.49	double		199	744
Wiring	hour	50	.50	15	double	8	48	-
Linemen	day	4.10	3.50	15	double	10	45	12
Iowa City—	10.00							
Keokuk—	day	3.75	3.50	11	double	9	54	
Linemen	hour	.47	.38	34	13	10	60	
Wiring	pont	1 .40	.30		235	1000		183
(c) No fixed schedule.		50	.40	31	1988	10	60	100

		Rate	es of Wa	ges		1	Lab	S of
Occupations and Municipalities	Units	Rates 1917	Rates 1915	Overtime (hour)	Sundays and holldays (hour)	Day	Week	No. of mo. Saturday
ELECTRICAL WORKERS-Con. Marshalltown-	1		35				1	Line
Muscatine— Linemen	day	3.75	3.25	13	14	9	54	
Sloux City— Telephone	day	4.00	3.25	В	double	8	68	
Wiremen	hour	.56}	150	200	double	8	48	111
Wiremen Linemen Lineman helper Electrician Foreman	hour hour hour hour	.47] .46 .30 .49 .49	.37 .40 .25 .43	1	double double double double	. 8 9 9 9 9	48 54 54 54 54	100
Waterloo— Litemen Apprentice Poreman Ass't Poreman Meter men Sub station	day day day month day	4.05 4.25 5.80 4.50 100.00 6.00	4.00 3.75 4.25	double double double double double	double double double double double double	099999	54 54 54 54 54 54	the law tax not not her
NGINEERS, LOCOMOTIVE— Burlington— Through freight Way freight— Passenger— Cedar Rapids—	day day day	4.40 4.70 4.40		11 12 12 12 12 12 12 12 12 12 12 12 12 1		8 8 8	56 56 56	111
Passenger	100 mi.	4.09				10		Ш
Freight	100 mi.	4.50 5.35 4.00			******	10		
Cherokee— Engineers	200	4.40	********	*******	*******	01		***
Clinton-	day	5.25		1	1			
Engineers	day	4.30 5.45		Pro rata	Pro rata	8	48	
Engineers	day	ь				8	48	***
EngineersEldon-	day	ь				8	48	
Enginners	day	ь			*******	.8	48	***
Engineers	day	b		******			****	***
Engineers	day	b	*******	*******	******	****		490
Passenger	100 mi.	4.30		Pro rata	Pro rata	8	48	26
Way freight	100 mi.	4.55 5.30		Pro rata	Pro rata	8	48	
Onkaloosa-	100 1111	4,80 5,55		Pro rata	Pro rata	8	48	24
Passenger	100 mi.	4.30		Pro rata	Pro rata	8	48	
Freight	100 mi.	4.55 5.30	********	SEAST TO SE	Pro rata	8	48	
Way freight	100 ml.	4.80		Pro rata		8	45	-
Ottumwa	100 mi.	5.30		Pro rata	Secretary of	8	48	

			Rate	s of Wage	197		H	ours Labo	ar .
Occupations and Municipalities	Unite		Rates 1917	Bates 1915	Overtine (hour)	Sundays and holidays (hour)	Day	Week	No. of mo. Saturday
NGINEERS, OPERATING— Ceda: Rapids Des Moines	hour		.55 .70	.50	1) 1)	double double	8 9	48 54	
Fort Dodge— Stationary Engineer Boller operators Hoisting engineers	hour hour hour	1	.35 .30 .60		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 11 11	12 12 12	84 84 84	
Sioux City— Hoisting	hour		.60		34	double	8	48	
IREMEN, CITY— Cedar Rapids— Captains Privates	month month		83.33 80.00	83.33 75.00			24 24		100
Council Bluffs—	month		85.00	80,00			24	144	
Davenport— Chief. Chief. Ass't. Captains. Fi enent, 1st grade. Firemen, 2nd grade. Firemen, 3nd grade. Firemen, 3nd grade.	day day day day day day		5.00 3.91 3.25 3.00 2.82 2.65	5.00 3.66 3.00 2.75 2.57 2.40			24 24 24 24 24 24 24	142 142 142 142 142 142 142	
Marshalltown	month		75.00	70.00			24	144	
IREMEN, STATIONARY— Ottumwa— Firing Pipe Fitter Boller washer Coal passers Cinder wheelers Oilers	hour hour hour hour hour	{	.33 .36 .31 .31 .275 .275	.28 .31 .28 .26 .22 .22 .22 .22	41 41 41	41 41 41	8 10. 9 10 10 10	56 60 54 60 70 65	
IREMEN AND ENGINEMEN— Cedar Rapids	100 ml.	1	2.65 3.55	2.60 3.55	Pro rata	Pro rata	8	48	
Clarion— Passenger Through freight Way freight Switch	100 mi. 100 mi. 100 mi. 100 mi.		2.80 3.25 3.50 2.70	2.80 3.25 3.50 2.40	Pro rata Pro rata Pro rata Pro rata	Pro rata Pro rata Pro rata Pro rata			
Passenger Through freight. Way freight Switch	100 mi. 100 mi. 100 mi. 100 mi.		2.80 3.25 3.75 2.75	2.80 3.25 3.75 2.75	1 1 1	1 1 1 1 1	7 13 13 10		
Dubuque— Engineer Firemen Hostler Estherville—	100 mi. 100 mi. day		5.20 3.25 2.50						
Passenger	day	1	2.65 4.00 2.85	2.65 3.55 2.85		Pro rata	10	60	150
Way freight	day	1	4.25 3.15 4.55	4.00 3.10 4.00	Pro rata	Pro rata	10	60	
Switch	day	1	2.70 4.00	2.40 2.60	Pro rata	Pro rata	10	60	***
Fort Dodge	day	1	2.50		Pro rata		8	68	1

		Rate	s of Wag	sesi.		B	Labor
Occupations and Municipalities	Units a	Rates 1917	Rates 1915	Overtime (hour)	Sundays and holidays (Bour)	Day	Wresk
FIREMEN, ENGINEMEN-Con. Fort Madison	ь	ь	ь				
Oskaloosa— Engineer, passenger	100 mi.	4.25		-			
Firemen, passenger	100 mi.	4.50 2.50	2.50 3.00		Pro rata	16	
Engineer, freight	100 mi.	3.00	3.00	Pro rata	Pro rata	16	
Piremen, passenger	100 mi.	5.30 2.85	2.85	Pro rata	Pro rata	16	
Way freight	106 mi.	3.60	3.60	Pro rata	Pro rata	15	-
Ottumwa	100 mi.	3.25	3.25	1	1	16	48
Passenger	100 mi.	4.30		.78		8	
Through freight	100 mi.	4.75		10 mi, hr		*	
Way freight	100 mi.	5.05		10 mi.hr.		8	-
Switch	100 mi.	4.25					
Transfer	100 mi.	4.75				8	****
Sioux City— Passenger	100 mi.	4.30		*******		0	*****
Freight	100 mi.	4.90	*********	Pro rata	Per cata	8	-23-5
Way freight	100 mi.	5.40	*********	Pro rata	Pro rata	8	
Switching	100 mi.	5.95 4.25	******	Pro rata	Pro rata	8	
Waterloo	100 mi.	4.50 2.70	1.70	Pro rata	Pro rata	8	-
ARMENT WORKERS-		3.75	2.75	Pro rata	Pro rata	77.0	
Cutters Machine Operators	week	22.00 a	20.00 a	11	double double	8 82	45 I
Cutters	week week	22.00 9.00				85	48 1
Machine Operators		2	A	******		2	48 1 48 1
RANITE CUTTERS— Des Moines—							
Granite cutting	day	4.00	3.50 3.50	- 11	double double	1	44 1
OD CARRIERS AND BUILD.	day	4.00	3.50	10	double		44 1
ING LABORERS— Codar Rapids—							14
Laborers	hour	.351	.314	10	double double	8 8	65
Mortarmen Machine operators Des Moines	hour	425	37 37 37 37	1	double double	8 8	45
Laborers	hour	.374	.30	19	double		44 1
Hod carriers Mortarmen Dubuque	hour	.40 .40	.35	1	double double	8	44 I
Plasterer helpera	bour	.45	(40	13	double	8	48

		Rate	s of Wast	con .			abo	
Occupations and Municipalities	Units	Eates 1917	Rates 1915	Overtime (hour)	Sundays and holidays (hour)	Day	Week	No. of mo. Saturday half holiday in effect
ORSE SHOERS— Sloux City Waterloo	day day	3.50 3.50	3.00	10	1 50	9	54 53	
HOTEL AND RESTAURANT EMPLOYEES—		1						
Des Molnes—	month	120.00		15		10	60	
2nd cook	month	65.00		11		10	60	
3rd cook	month	45.00		10		10	60	****
Pastry	month	55.00		1	*******			
Walters	month	75.00 45.00		1	*******	10	60	
Waitrenses Ottuniwa	month	30.00		11	0 * / * * * * *	10	60	
Waiters	week	13.00	12.00	:25	double	10)	731	
ATHERS— Cedar Rapids	day	5.50	4.00	double	double	8.8	48	
Davenport Dubuque	day	5.00	4.00 3.50	11	14	6 16	44	12
Sioux City	day	6.00	5.00	14	double	8	48	
EATHER WORKERS Des Moines Harnessmakers Cutters Mach operators Sloux City— Harness	hour bour hour	.50 .50 .50 .50	40 40 40 18.50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	10 10 10	5% 584 581	
ETTER CARRIERS—				0.00000	1	200		
Ames	year	880.00 1200.00				8	48	
Burlington— Regular	year	1200.00	1200 00			8	48	
Regular Substitute Carroli	hour	800.00			*******	8	48	
Clarinda.	year	1000.00	800.00		-	8	48	
A STATE OF THE PARTY OF THE PAR		1100.00	1100.00	1		8	48	
Clinton— Regular	day	3.33		1	.35	8.	48	1
Substitute	hour	100:03	********	1	1	8	48	
Davenport— Substitute	hour	35		35	.25			
Carriers, 1st year	year	900.00	800 00 900 00	1	Comp.	8	48	
Carriers, 2nd year	year	1000.00	1000 00	1	time	8	48	77
Carriers, 3rd year	year	1100.00	1100.00	- 1		8	48	1
Carriers, 5th year,	year	1200.00	1200.00 800.00	1	l off	ä	48	112
	2000	1100.00	1100 00	1	· · · · · · · · · · · · · · · · · · ·	8	48	
Des Molnos— Regular	year	800.00	800.00					
Substitute	hour	1200.00	1200.00	1	Comp.	8	48	***
Eagle GroveFairfield—	year	********		*******	server on			
Regular	year	800.00 1200.00 .35		******		8	48	

⁽a) Paid by piece.
(b) Mileage basis.
(c) 25 cents per 100 miles extra over regular freight rates.

		Rate	s of Wage	N.		H	Labor	×
Occupations and Municipalities	Unite	Rates 1917	Rates 1915	Overtime (hour)	Sundays and holidays (hour)	Day	4	No. of mo. Saturday
LETTER CARRIERS-Cop.		1		1		1000	Hell	2
Hampton	year	1100.00	900,00	I.	*******	8	45	
Harlan	year	1100.00	1100.00	1		1	48	
Harlan Indianola Keekuk	year	/ 800.00			*******	8	45	
The state of the s	year	1100.00	1100.00	1	*******		48	
Marshalltown	year	800.00	1100.00	1		1.8	45	
	1000	1200.00	*********	1	VALORETE.	- 80	48	
Muscatine	heat	1200.00	893.00	(1)		-8	1999	
Osage	3446	1200.00	900.00	-1	Contract of	8	41.	
Red Oak	year	800.00					100	H
Sea City	year	992.00	900.00	1	*******	8	45	
Sac City Shenandosh Vinton	year	1200.00	1100.00	1		8 8		
Vinton	None	1109.00	********	1		- 8		2
Waverly	year	1103.00	*********	1	******	8		
ITHOGRAPHERS-						7		
Des Molnes-	hour	.25	200	120	2. 63	10		
Engravers Transferers	bour	.25	.22	11	double double	8	94	11
Transferers	hour	25	.22	10 10 10	double	8	44	11
OCK FITTERS—					100		-	ä
Lyons (Clinton)-								
Assemblers	bour	.35	.30			10	55	1
AACHINISTS-						1500	200	
Belle Plaine, No. 862-	- water-or	1	100					
Machinist	hour	-82	.41	1	14	8	45	
Helper Belle Plaine, No. 606—		17553	4000	49	16	8	45 .	
	hour	.82	.39	15	14	8		
Helper Boone, No. 273— Machinist	pons	.27	.18}	11	10	8	48	4
Machinet Cedar Rapids, No. 262—	hour	-5/2	.431	16	34	9	54	
Cedar Rapida, No. 202—	hour	.62	- 42	1000	1920			
Machinist Helper	hour	.334	.41 22	11	1	8	47	ä
Apprentice	hour	16				8		
Cedar Rapids, No. 831-		.20		12	11	8	47 -	ä
Machinist, garage	hour	-55	.45	11	14	9	54 .	
Machinist, contract	hour	.55	.45	14	12	9		
Machinist Helpers Creston, No. 533— Machinist	hour	.52	.434	14	14	9	54 .	
Helpers	hour	27	22	ii	i	9	34	
Machinist	hour	.52	-411		100			
Machinist. Davenport, No. 388—	morat.	100	-411	11	38	8	45	**
Der Molnes No 254	hour	.52	.40	1)	19	9	34	A
Machinist Des Moines, No. 479— Machinist	hour	C48	.43	13	double	9	52 .	
Des Moines, No. 479—				1350				
Duberous No 370-	hour	.52	.433	11	19	2	33 .	H
Machinist	hour	.82	.41)	1)	16	8	47 .	
Machinist	2000	1000	1000					
Machinist Eldon, No. 245—	hour	1,52	431	11	16	8	45 -	Ħ
	hour	.52	.41	11	- 14	8	54 .	Į,
Marshalltown No. 200	hour	334	.21	1)	14	8	54 -	ø
Machinist Marshalltown, No. 920—	bour	.52	-41	15	18	8	45 .	

		Rates	of Wage			He	abo	
Occupations and Municipalities	Units	Rates 1917	Rates 1915	Overtine (hour)	Sundays and helidays (hour)	Day	Week	No. of mo. Saturday half holiday in effect
MACHINISTS Con.								
Missouri Valley, No. 171— Machinist. Helpers. Sioux City, No. 178—	hour	.52 .27	.43§ .72	11	11	8.8	48	
Machinist	hour hour	.83 .27 t	-45§ -25	1	11	9 9	53 53	****
Valley Juntion, No. 620— Machinist	hour	. 334	.41 .26	11	14 15	8	47 47	
Tool makers	hour	45	Same			10	60	24.00
Machine men	hour	35	Same			10	60	
Machinists, auto	hour	35 35 274	Same			10	60	
Assembly men	hour	35	Same	*******	*******	10	60	
Specialists	hour	.27	Same	******		10	60	
Drill pressmen	aneus.	.25	Same			10	60	
MAINTENANCE OF WAY— Dubuque— Foremen, bridge and carpenters Pump repairers. Carpenters.	month day	3.50 90.00 { 2.60 2.95	3.00 80.00 2.40 2.60	14	15	10 10	60 60 60	
Pile driver eng	day day	2.95 2.40 3.50	2.65 2.25	10	11	10	80	****
Bridge foremen. Bridge carpenter. House carpenter. Mason City.	day day	2.75 2.95		il	10	10	60	-
Railway carpenters	hour	.284	.24	15	15	10	60	
R. R. track foremen.	mooth	67.50	60.00	.26	.26	10	63	****
METAL POLISHERS— Lyons (Clinton)— Polishers Platers	day	3.00 1.65	2.75 1.40	15	double double	10 10	56 59	3 2
MINE WORKERS UNITED, on p	oage 184		7				1	
MINE, MILL AND SMELTER								1
MINE, MILL AND SMELTER WORKERS— Fort Dodge— Repair men. Common labor. Piece work.	hour hour hour	.45 .35 .18	.40 .30 .16	1	10	10 10 10	60 60 60	
MOLDERS— Burlington— Molders	day	/ 3.75	3.00					
Core molders	day	4.50 3.75 4.50	3.50 2.73 3.50	11	double	9	54	-
Cedar Hapids— Molders	day	4.25 4.23	3.75	11	double double	9 0	54	-

		Rate	s of Wage			He	abo	of
Occupations and Municipalities	Units	Rates 1917	Rates 1915	Overtime (hour)	Sundays and holidays (hour)	Day	West	No of mo. Saturday
MINE, MILL AND SMELTER				-				200
WORKERS— Marshalltown—	-0-	4.25	3.50	double	double	1	122	
Molders	day	3.00	1.85	double	double	7	42	
Newton-	hour	.57	.30	******		0	74	
Molders	hour	41	.36					
MoldersWaterloo-		45	3.50	16	. 1)	91	55	
First rate	day	4.00	4.50	11	double double	9	54 54	
Piece work	- Timest	2025		-21		-8	3	
Boone-	day	5.00		*******	******			
Band, two or more days	day	6.00						
Fand, holidays		222	100000					
Dalle narties etc.	man	2.50	********	*******		-	1	
Grand openings	man	5.50				-32		
	BUACE	6.00	3.50	*******	1545541	8		
Buston Cedar Rapids	hour	.55	3.00		******			
		1.00						
Centerville— Orchestra	bour	1.00						
Chariton-	man	2.00						
Band concerts, two hours Holidays, per day	man	4.50						
Dulmque	hour	.60		.69	.60			m
Theatres	hour	.70	Lecus ares	1.00	.70	Cart		
Skating rinks	hour	1.00	1.00	1.00	1.00	1000		
Cafes Skating rinks Dances Fort Madison.	hour	1.00	1.00	1.00	1.50		++11	13
Waterloo	hour	1.00	1.00	1.00				100
PAINTERS-		1 20		11.00	COLLE	100		1
Cedar Rapids— Paper hanging	bour	.53	_50	13	11	8	48	
Painting	hour	.50	.46	11	11	8	68	
Centerville— Paper hanging	hour	.45	.45			8	48	
Painting	hour	45	35		*******	5	48	
Paper hanging	hour	40	.35	19	double	8	48	1
Painting	hour	.40	.35	10	double	8	58	15
Des Moines— Paper hanging	bour	.50	.50	14	double.	8.	34	1
Painting	hour	.50	.50	18	double	8	44	1
Dubuque— Ceach letterers	hour	42	.50	114	15	9	-50	10
Varnishers	hour	.39	.29	112	144	10	50	113
Varnishers Inside work	hour	.37	.261	11	14	.0	50	
Fainters	hour	45	.35	11	24	8	43	
Paper hangers	roll	.12	10		1	-	45	T
Fort Madison-		1 20	.16	19	double	1959	160	155
Painter	hour	:40	.40	18	double	0	54	100
Grinnell— Painters	hour	.50	.45	15	10000	0	54	1
Oetwein-				13		1 3	110	
Painters	bour	28	.26	19	19	0	33	
Oskaloosa-		170			10.000			
Painters	hour	.45	.35	34	11	0	54	-
Sloux City— Painters	hour	.50	.50	19	doubl_		48	

		Rate	of Wage	108		H	ours	of or
Occupations and Municipalities	Unite	Rates 1917	Rates 1915	Overtime (hour)	Sundays and holidays (hour)	Day	Wock	No. of mo. Saturday
PAINTERS—Con. Waterloo— Painting. Decorating Paper hanging. PATTERN MAKERS—	day day day	3.60 3.60 3.60	3.60 3.60 3.60	.45 .45 .45	.45 .45 .45	8 8 8	48 48 48	11111
PATTERN MAKERS— Davenport	hour	60 53	.35 .478	11	double double	10 10	59 59	4
PHOTO-ENGRAVERS— Des Moines— Pinishers Pinishers Photographers Routers Half tone otchers Zine etchers Proofers Waterloo chapel	week week week week week week	26.00 26.00 26.00 26.00 26.00 26.00 27.00	24 00 24 00 22 00 24 00 22 00 22 00 22 00 25 00	15 15 16 18 18 18 18	double double double double double double double	********	44 44 44 44 44 45	12 12 12 12 12 12 12 12
PIPE LAYERS— Des Moines	day	3.60		11	double	8	41	12
LASTERERS— Burlington Ceiar Rapida Centerville Davenspet Des Moines Dubaque Stonactine Stonactine Stonactine Stonactine	day day day hour day hour hour	5.69 6.60 3.60 6.00 75 6.00 79 80	5.00 5.00 5.60 6.00 70 5.00 6.01 6.02 70 70	double 1½ double double double	double double double double 1½ double double	*******	68 44 44 44 44 44 44 45	12 12 13 13 13 13 14
LUMBERS AND STEAM FIT- TERS— Burlington—	hour	.60	.50	19	double	8	48	
Plumbers Fitters Cedar Rapids— Plumbers	hour	5.10	4.80	11	double	8	48	
Plumbers Steam filters Clinton Journeymen Helpers Council fluffs Davenport Fort Dodge Fort Madison Grinnell Iowa City Mason City Mason City Mason Waley Waterloo Waterloo	hour hour hour hour day hour hour	5.10 .50 .27 .75 .625 .685 4.75 .475	4.80 .38 .15 .68 .624 .63 4.00	100	double 15 15 double double double double double double	. 90888889	56 54 44 44 44 48 48 54	- June
RESSMEN, PRINTING-	day day day hour day day	4.50 5.00 4.80 .50 5.45 5.00	4,50 4,50 4,00 34 4,50 4,75		double double double Ii double double	8 8 8 8	44 48 48 54 44 48	11
Burlington— Cylinder pressmen Cylinder assistant Web pressmen Web assistant Platen pressmen	week week week week	20,03 14,00 21,50 14,00 14,00	18.00 13.00 21.00 13.00 13.00	10 10 10 10 10 10	double double double double double	85 85 85 86	48	111111111111111111111111111111111111111

		Rate	s of Waste	S.		H	Purs Abo	30
Occupations and Municipalities	Units	Rates 1917	Rates 1915	Overtime (bour)	Sundays and holidays (hour)	Day	Work	No. of mo. Saturday half holiday in offseti
PRESSMEN, PRINTING-Con-								
Cedar Rapida- Pressmen, cylinder	work work work work	24.25 28.50 17.50 16.30 13.00	23.00 25.00 16.00 15.00 12.00	10 10 10 10 10 10 10 10 10 10 10 10 10 1	double double double double double	*****	45	
Platen pressmen Des Moines—	week		14,00			8	48	
Web pressmen. Printing pressmen. Assistants	day week week	3.50 21.00 15.50	21.00 15.50	11	double double	8 5 8	長谷谷	
Dubuque— Presamen, web	week	20.00	18.00 20.00	1)	22200	8	48	1
CylinderPlaten	week week	22.00 16.00 14.00	20.00 14.00 12.00	11	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0888	48 48 48 48	
Keokuk-	week	16.00	15.00	11	double		48	
Pressmen	week	15.00	14.00	16	double	8	45	
Mach, operators	week	18.50	17.50 15.00	10 10	double	8	45	12
Freders. Presamen, web	week	19.10 28.00	17.50 28.00	13	double		48	1
Ready print feeders	wielc	24.80	15.00	19	double	- 8	48	163
Book, job	week	19.00	16.00	19	double	8	45	0
Book, job. Book, job. Waterloo	week	24.50	18.00	12	double	8.8	48	200
Web pressmen	week	m m	22.00 16.00	1½ 14	11	A K	45	123
Assistants	wook	m	10.00	10	14	8	48	
Helpers	week	-101	22:00	14	14	8	95	
	week	m.	19.00 14.00	14	1	8	45	1
Oller Platen pressmen	week	III In	14.00	MARKACORN				-
			18.00	11	11	8	48	
Feeders	micg	m	10.00	11	11	8	45	
Burlington	hour	-40		11	18	. 9	54	
Burlington Cedar Rapids, No. 263 Cedar Rapids, No. 392 Celinton—	hour hour	.50 52	-334	11	double	8	42	
Tinners	hour	35	-26 -25	19	10	9	56	
Davenport	hour	.35	.40 .35	19	double	8 9	54 54	
	hour	-42	.33	11	10	8	47	
S. M. workers	hour	434	.28	100	14	-8	47	
Helpers	hour	.25 .53	.194	10	double	8	47	
Burlington-	177	200	2394	100		1	14	
Moving picture operators	week	24.00	18.00	.50	******	*	36	
Carpenter Property man. Electricians	week week	21.00	16.00		*******			
Electricians	week	18.00	15.00			-	144	
Clinton	weit	20,00	16.00	.50			-540	
Moving picture operators Davenport—	day	3.50	3.15	.40	.40	8	64	4
Carpenter	week	25.00		*******		4444	***	200

(m) No rates furnished this year.

		Ra	tes of Wa	gen		I	Lab	
Occupations and Municipalities	Units	Rates 1917	Rates 1915.	Overtime (hour)	Sundays and holidays (hour)	Day	Week	No. of mo. Saturday
STAGE EMPLOYEES-Con	1 0	1		1	1	1	1	1
Riectrician Property man	wook	15.00		-		- live		
	day	4.00				-		-
Operator front	day	1.50	ya	100000		1		22.
Operator front	day	1.95	0			1	27.77	
	dice	1.25				DAY.	110	
Flyman ass'ts	day	1.25	*********					
Moving picture—	hour	_36		******		-		
Operators	work	21.00	18.00	.50		7	49	1
Des Moines-	10000		15.00	.00	*******	1 0	49	
Moving picture operators	work	/ 16.00				100		
Control of the contro	1100	25.00	18.00	.55	and the same	8	56	2000
Carpenter	wook	25.00				8	56	
Electrician	week	22.50	19.00			8	56	
Flyman	week	21.00	17.50	*****		8	56 56	
Grips Operators	week	18.00	16.50	******		8	56	****
Operators	week	18.00	16,50		13000000	8	56	
Dubuque-		1 10000		11/1/19	100000000	100	1000	100
Propertyman	week	21.00		.30		8	56	
Electrician	week	16.00	13.00	30	1210-010	- 8	56	
Plyman	week	16.00	13.00	.30	******	8 8	56 56	****
Flyman ass't		1.00	.75	- 00	7-0-1-0-0	0.0	90	
Arpenter Propertyman Electrician Plyman Flyman Flyman awt Operator Marshalltown	week	18.00	15.00	40	7474242A	8	56	****
De la ministra de la constante	ROOK	17.00 25:00	1		1	1000	80	
Mason City-		1 20.00	*******	*****	******	95	61	
Operator Employees	week	23.00		.40	Comments.	9	63	
Muscatine-	week	18.00		.25		9	63	****
		20 000	1000				40	
Stage employees	week	18.00	15.00	*******	*******			
BIOUX CITY	******	1.00	1.00*		******	++++		
Stage employees	hour	.30	.21	1)	* A T T T T T	9	63	
Chief operators	week	25.00	22.00	10-		8	200	****
Relief operators	week	18.75	14.00	.50		8		
	hour:	.45	-40			8	56	
Operators	week	30.00	20.00	.50	46	172	627	
Stage hands	show	1.25	75	35	.50	8		
TEREOTYPERS AND				1000	- 100		90	
Davenport-								
Stereotypers	week	10 00	40.50	7 24 1	6000	-1		
	mare.	19.00	18.50	15	double	8	48	
Molders	wenk	24.00	21.00	18	double	- 1	100	
	week:	24.00	21.00	19	double	8	48	12
Branchmen	week:	21.00	18.00	17	double	8	48 48	12
Stereotypers	day	3.50	3.50	11	Total I	0	100	14
TONE CUTTERS_			47.40	4.8	14	8	48	-
Codar Ranids	hour.			1000	VARIABLE I	100	100	
Dubuque. Bloux City	bour	.50	.50	double	double		44	12
	hour						44	12

STREET AND ELECTRIC RAILWAY EMPLOYEES

	Moto	rmen			tors, (Rate i	n Cent	14
Locality	Unit	1st 6 mo.	2nd 6 mo.	and year	3rd year	4th year	5th year	oth year	Thereafter
Boune, and the second s	hour hour day	\$.22 .17 .22 .27 .28 .20 .29 .22 1 .50 .25 .17 .32	\$.23 .18 .21 .27 .28 .23 .29 .29 .20 .26 .20 .32	3 26 20 25 28 29 25 30 25 30 26 26 28 20 32	\$ 26 .21 .27 .32 .29 .26 .30 .25 1.70 .31 .20 .32	\$.26 .22 .29 .33 .33 .28 .30] .25 1 .50 .31 .20 .32	\$.26 23 29 33 33 28 30 30 1 50 31 20 22	\$ 30 30 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31 31 31 31 31 31 31 31 31 31 31 31 31	1 MARIE 1 MARI

		Hates	of Wages	8		Ho L	abor	at
Occupations and Municipalities	Units	Eates 1917	Entes 1915	Overtime (bour)	Sundays and holidays (hour)	Day	9	Ko, of mo. Saturday tast holiday in effect.
WITCHMEN, RAILWAY— Codar Rapids—					12		146	
Day foremen	hour hour	-47± -50	50	1	1	8 8	45	
Day helpers	hour	461	431 461	i	1	8		
Fort Dodge— Day foremen	day	3.70	3.70			3		
Night foremen	day	3.90	3.90			8	45 48	
Day switchmen	day	3.40	3.60			8	48	
Marshalltown— Foremen	hour	.45	.37	1	1	8	48	
Switchmen	hour	43)	.34	1	1			
Mason City— Day foremen	hour	.461	.28	1	1 1	10	70	
Night foremen	hour	.483	-28 27	1	1	10	70	17
Day helpers	hour	.428 .462	27	i	i	10	76	
Muscatine— Switchmen	day	4.12	3.30	1	1	10	76	
Ostumwa-	100	.50	.40	1		R	56	
Foremen Helpers	hour	461	37	1			56	100
Waterloo-	-	7000			100	-10	-50	l.
Foremen	hour	.45	.35	1	1	10	60	
Helpers	hour	-413	(82		100	1		П
TAILORS—		W. Janes					1	
Burlington— Bushelmen	neck	18.00				10	60	30
Des Moines-								
Bushelmen	week	12.00			-		1511	

(a) Prices given for 1915.

1 Overtime seven conts per hour additional.

1 Overtime five cents per hour additional.

		Re	stes of Was	ges			abor	
Occupations and Municipalities	Units	Rates 1915	Rates 1917	Overtime (hour)	Sundays and holidays (hour)	Day	Week	No of mo. Saturday
AILOR8—Con.	hour	.30	.20	.35		10	60	
Fort Madison Ottumwa— Bushelmen	week	12.00	********	*****	*******	10	****	
Sioux City— Bushelmen	week	18:00				91		
Cleaners	week week week	25.00 20.00 20.00 25.00		10 10 10	10 10 10	9 9	54 54 54	***
RAMSTERS— Burlington Dubuque Fort Dodge	day	4.80 17.00 .60	4.80 14.00 .60	16 16 16	double 1) double	8 10 10 9	48 59 60 54	
Fort Dodge Fort Madison	hour	.60		19	14	10	59	
ELEGRAPHERS, RAILWAY-	month	72.50					48	
Cedar Rapids	month	63.00	50.00					-
Exclusive teleg	month	115.00 65.00 95.00	\$0.00 59.00 80.00	.40 .40	1	10	48	
CLE LAYERS— Des Moines— Tile Layer Helper Sloux City— Tile Layer	day day day	5.75 3.25 5.75	5.50 2.00	23 32 14	double double	* 9 %	44 44	12 12
Helper RAILWAY— Cherokee— Conductor	day	3.20	4.18	iš	double	8	44	12
Brakemen	100 mi	4.80	4.80 2.78			8	48	
Flagmen	month	73.00	3.10 73.00			8 8	48	
Roginemen	hour hour	40	.40 37			8	48	
Passenger conductors	mouth	158.00	158.00		******	8	48	
Foreman	hour	.48 .45	.38	1	1 1	8	56 56	***
Brakeman, freight	100 mi. month	2.19 3.21 68.75	2.18 3.21 68.75	1	1	8 8	48 48	
Conductor, freight	100 mi.	4.18	4.18	1	1	8	48	
Baggagemen Conductor, passenger Electrician, baggageman Fort Dodge	month month month	95.00 158.87 117.00	95.00 158.87 117.00	1 1	1 1	8 8	48 48 48	
Conductors, passenger	month	140.56 158.84		.39	*******	**>*	****	
Brakeman and flagmen	month month	76.01 88,33 68,75		.25		****	****	
A STATE OF THE PARTY OF THE PAR		77.99		.25		10		
Conductors, way freight, Brakemen, way freight,	100 mi	4.18 2.78		1		10		
Brakemen, local freight	month month	125.24 83.40	*********	.48	******	10		+++
Conductors, work train Brakemen, work train	mouth	113.85 75.90		44	******	10	****	

		Rate	s of Wages	100		Ho	uns e	4
Occupations and Municipalities	Units	Rates 1915	Rates 1917	Overtime (hour)	Sundays and holidays (hour)	Day.	Work	No. of mo. Saturday
RAINMEN, RY-Con						Tull		Ť
Fort Madison— Brakemen, passenger	month	81.07	81.07			8	48	
Brakemen, freight	100 mi	3.78	3.78	1	1	8	48	
Yardmen	day	4.00	3.85	3.	5 1	8	48	
Manly— Freight brakemen	day	2,78	2.78	1	1	-8	43	
Marion— Freight conductors	100 mi.	4.18	4.15	1	1	8		
Freight brakemen	100 mi.	2.78	2.78	1	1	8		
Firemen, day	day	2.80	3.80	1		8 8		
Firemen, night	day.	3.50	3,50	1	1	- 5		
Helper, day	day	3.70	3.70	1	i	8		
Oskaloosa—		/ 140.00	140.00	.58				
Passenger conductor	month	185.00	165.00	.69		8		
Passenger brakemen	month	70.00	70.00	.321		100		
		82.50	82.50 70.00	.38		8		
Passenger baggagemen	month	70,00 82,50	82.50	.325		8		
Preight conductor	100 mi.	4.18	4.18	488				
Freight conductor		4.69	4.69	.52	.,,,,,,,,	(8)		
Freight brakemen	100 mi.	2.78	2.78	.32				
Perry— Through freight	100 mi.	3.78	0.14	1 1982	*******		128	
Way freight	100 mi.	2.25		1		8	1.48	
Nucht yard foreman	hour	.50	*******	1	******	8	45	
Day yard foreman	hour	-46		1	****	1 2	1 43	
Night yard helper	hour	:43		î		8	45	
Baggagemen, passenger	month	1 79.85				1	1	ш
The American Inches	month	86,01 72,59	********	1	******	(8	48	'n
Brakemen, passenger,	monto	78.75		1	-3000	. 8	48	н
Sanborn	100000	1000	100		1350000			и
Conductors	100 ml.	4.18	4.18	1	1		10	а
Brakemen, freight	100 mi.	2.78	2.78		1 3	111	189	1
		3,14	3.16	1	1	102		
Brakemen, passenger	month month	70.00		1	1	37.1	30	
BaggagemenValley Junction—	(30.00)	2000	1 2200		1 33	100	100	1
Brakemen, through freight	100 mi.	2.78	2.78	1	1	+++	-	
Brakemen, local	100 mi.	3.21	3.21	1	1	est	100	т
Waterloo— Freight conductors	100 mi.	1 4:18	4.18		100			ı
		4.81	4.81	1	1			Æ
Freight brakenien	100 mi	2.78		1	1:			Ħ
Yard foremen	nour	50		1	1	-	Line	S.
Yard helpers	hour	.08	.36		1 80		123	ø
		48		1	1	***	100	10
Passenger conductors	month	128,46 154,84		.39	.35	1		d
Passenger flagman,	hour	68,67		1 50	1-733	3110	110	ø
Baggagemen	157.00	77.90		25	.20	200	10 000	9
	bour	69.83		1 100	.23			-86

	Rates of Wages					H	Labo	of r
Occupations and Municipalities	Units	Rates 1917	Rates 1915	Overtime (hour)	Sundays and holidays (hour)	Day	Week	No. of mo. Saturday half holiday in effect
TYPOGRAPHICAL UNION-		1		1	1	100		
Burlington— Newspaper, day Newspaper, night Job scale	week week week	22.50 25.50 20.00	20,00 23.00 16.00	.70 .70 .70	double double double	8 8 8	48 48 48	****
Cedar Rapids— Hand Job men Hand ad men Machine operators	week week week	21.00 22.00 22.00	19.00 20.00 20.00	11	double	8 8 8	48 48 48	****
Clinton— Foremen. Machine operator Hand compositors Council Bluffs—	week week	25.00 22.00 20.00	23.00 20.00 18.00	10	1) 1) 1)	5 8 8	48 48 68	
Newspaper, machine	week week week week	24.00 24.00 22.50 24.00	24.00 24.00 20.00 24.00	19 10 10 10 10	double double double double	8888	48 48 48 48	
Davenport— Compositors Mach. Operators	week week	23.00 25.00	21.00 23.00	11	double double	8 8	48 48	****
Des Moines— Newspaper, day— Newspaper, night— Job office, hand— Job office, machine	week week week	24.00 27.00 23.00 24.00 27.00	23.50 26.50 21.00 23.50	10 10 10	1 11	8 8 8 8	48 48 48	
Dubuque— Joh men	week week	20,00	26.50 20.00 21.00	13 13 13	18 11	0 000	48	
Ad men Machine men Machine operator Night scale	week week week	21.00 a b	21.00	11	11	8	48	
Fort Dodge— Printers Linotype Fort Madison—	week week	22.00 22.00	20.00 20.00	13	double double	8	48 48	2
Printer	week	17.00 21.00	15.00 18.00	1)	11	8	48	
Foremen. Floormen. Operators. Machine operator.	week week week week	20.00 18.00 18.00 20.00	20.00 18.00 18.00 20.00	15 12 22 22 13	15 15 15 15 15 15	8 8 8 8	45 48 45 45	
Marshalltown— Printers Operators Mason City—	week work	18.00 18.00	16.00 18.00	15 15	11	8 8	48 48	1995
Machine operators	week week	23.50 21.50	22.00 14.00	11	.11	8 8	48 48	
Linotype operator Compositors Foremen Ottumws	week week	19.00 18.00 21.00	18,00 17,00 20,00	10 10 10	10 10 10	8 8 8	48 48 48	
Poremen	week week	27.00 24.00 7 24.00	20.00	11	1	8	48 48	
Machine tender	week	25.50	20.00	計	1	8	48	
Machine operators	week	23.00 26.00 24.00	22.00 25.00 23.00	1	1	5	48	
Day compositors.	week week	27.00 21.00 24.00	26.00 20.00 23.00	1 1 1 1 1 1	11	H H H	48 48 48	

(a) \$1.00 a week for each machine.(b) \$2.00 a week more than day scale.

3.25

2.84

82.12

1.25

5.41

5.00

84.23

4.63

MINE WORKERS, UNITED.

	1914-16	1917-20
Hand picked coal, per ton	81.15	
Screened lump coal use ton	2.25	1.4778
Right foot entry, per yard	1.92	2.32
Twelve foot entry, per yard	1.49	1.79
Fourteen foot entry, per yard	1.44	1.74
Right foot entry, per yard. Twelve foot entry, per yard. Fourteen foot entry, per yard. Room turning, 12 to 14 ft. doorway.	2.49	3.00
	6577	1000
DAY WAGE SCALE—	Carrier 190	100000
Head tracklayers, per day	82.84	85.00
Pripe men, per day	2.78	4.92
Head tracklyses, per day. Pipe men, per day. Driven and reip riders, per day. Motormen, per day. Cagers, per day.	2.72	4.86
Property and the stary	2.72	5.15
Boy outsides not day	1.68	4.86
Boy couplers, per day Ollers and trappers, per day	1.08	3.36
Other adult labor	2.62	2.65
	2.02	4.7%
TOP LABOR—		-
Motormen, per day	\$2.50	84.63
Spraggers and couplers, per day	1.68	3.36
Spraggers and couplers, per day Boy state pickers and oilers, per day	1.25	2.65
	1	4.95
ONG WALL CHAIN MACHINE-	True !	
Machine runners, per ton	80.08	80,1100
Machine shovellers, per ton	.08	,1100
Machine helpers, per ton	.008	.0568
Londers, per ton	.07	.9210
		10000
EGG MACHINE BUNNERS AND SHOVELLERS-		
to root room, per root	\$0.26	\$0,3233
40 foot room, per foot Entry, per foot	480.	1080
	.09	.1215
Harrison runner and shoveller, double rib, per foot. Harrison runner and shoveller, when working by the day, per day.	411	1398
marrison runner and shoveller, when working by the day, per day	3.24	5.40
Loader, per ton.	.501	.791
SUB DISTRICT NUMBER TWO		
Mine-run ocal, per ton	.72	.97
Mine-run ctal, per ton	.72 1.05	.97
Mine-run cc al, per ton	.72 1.05	.97 1.38 <u>1</u>
NTRY PRICES	.72 1.05	
NTRY PRICES	.72 1.05	1.381
NTRY PRICES	1.05	
NTRY PRICES— Eight foot entry, per yard Twelve foot entry, per yard	1.05	1.381
NTRY PRICES— Eight foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR.	1.05 \$2.75 1.88	1.38 <u>1</u> 83.32 2.27
NTRY PRICES— Eight foot entry, per yard. Twelve foot entry, per yard. NDERGROUND TARON.	1.05 \$2.75 1.88	1.38½ 83.32 2.27
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, capera, per day. Drivers, trip 'diders, and water haulers, per day.	1.05 \$2.75 1.88 \$2.84 2.84	1.38½ 83.32 2.27 \$5.00 5.00
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, capera, per day. Drivers, trip 'diders, and water haulers, per day.	1.05 \$2.75 1.88 \$2.84 2.84 2.62	\$3.32 2.27 \$5.00 5.00 4.75
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, capera, per day. Drivers, trip 'diders, and water haulers, per day.	\$2.75 1.88 \$2.84 2.84 2.62 1.68	\$3.32 2.27 \$5.00 5.00 4.75 3.36
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, capera, per day. Drivers, trip 'diders, and water haulers, per day.	1.05 \$2.75 1.88 \$2.84 2.84 2.62 1.68 1.25	\$3.32 2.27 \$5.00 5.00 4.75 3.36 2.65
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, capera, per day. Drivers, trip 'diders, and water haulers, per day.	\$2.75 1.88 \$2.84 2.84 2.62 1.68 1.25 3.00	\$3.32 2.27 \$5.00 5.00 4.75 3.36 2.85 5.15
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, capera, per day. Drivers, trip 'diders, and water haulers, per day.	\$2.75 1.88 \$2.84 2.84 2.62 1.68 1.25 3.00 1.56	\$3.32 2.27 \$5.00 5.00 4.75 3.36 2.65 5.15 3.24
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, capera, per day. Drivers, trip 'diders, and water haulers, per day.	1.05 \$2.75 1.88 \$2.84 2.84 2.62 1.08 1.25 3.00 1.56 3.00	\$3.32 2.27 \$5.00 5.00 4.75 3.26 2.65 5.15 3.24 5.15
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, capera, per day. Drivers, trip 'diders, and water haulers, per day.	1.05 \$2.75 1.88 \$2.84 2.84 2.62 1.68 1.25 3.00 1.56 3.00 2.84	\$3.32 2.27 \$5.00 5.00 4.75 3.36 2.65 5.15 3.24 5.15 5.00
NTRY PRICES— Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Track ayer, timbermen, cagera, per day. Track, trip riders, and water haulers, per day. Tracks, trip riders, and water haulers, per day. Tracks, per day. Tracks, per day. Trappers, per day. Motormen, per day. Oliers, per day. Spike team drivers, per day when engaged. Drillers and shooters, per day. All other labor, per day.	1.05 \$2.75 1.88 \$2.84 2.84 2.62 1.08 1.25 3.00 1.56 3.00	\$3.32 2.27 \$5.00 5.00 4.75 3.26 2.65 5.15 3.24 5.15
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, capers, per day. Drivers trip riders, and water haulers, per day. Tracktayees, and timbermen helpers, per day. Tracktayees, per day. Trappers, per day. Trappers, per day. Splice team drivers, per day when engaged. Drillers and shooters, per day. All other labor, per day.	1.05 \$2.75 1.88 \$2.84 2.84 2.62 1.68 1.25 3.00 1.56 3.00 2.84	\$3.32 2.27 \$5.00 5.00 4.75 3.36 2.65 5.15 3.24 3.15 6.00
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Track ayer, timbermen, cagera, per day. Drivers, trip riders, and water haulers, per day. Bey couples, and funbermen helpers, per day. Bey couples, and funbermen helpers, per day. Trappers, per day. Motormen, per day. Oilers, per day. Spike team drivers, per day when engaged. Drillers and shooters, per day. All other labor, per day. PLABOR— Motormen, per flay.	1.05 \$2.75 1.88 \$2.84 2.84 2.62 1.05 1.25 3.00 2.84 2.62	\$3.32 2.27 \$5.00 5.00 4.75 3.36 2.65 5.15 5.15 6.00 4.75
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Track ayer, timbermen, cagera, per day. Drivers, trip riders, and water haulers, per day. Bey couples, and funbermen helpers, per day. Bey couples, and funbermen helpers, per day. Trappers, per day. Motormen, per day. Oilers, per day. Spike team drivers, per day when engaged. Drillers and shooters, per day. All other labor, per day. PLABOR— Motormen, per flay.	1.05 \$2.75 1 88 \$2.84 2.84 2.62 1.68 1.25 3.00 1.56 3.00 2.84 2.62	\$3.32 2.27 \$5.00 5.00 4.75 3.36 2.85 5.15 6.00 4.75
NTRY PRICES— Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, casers, per day. Drivers, trip iders, and water haulers, per day. Tracklayers, and timbermen helpers, per day. Boy couplers, per day. Motormen, per day. Motormen, per day. Oliers, per day. Splike team drivers, per day when engaged. Drillers and shooters, per day. Al other labor, per day. DV LABOR— Motormen, per tlay. Motormen, per tlay. Devy slate pickeners, per day.	1.05 \$2.75 1.88 \$2.84 2.84 2.62 1.05 1.25 3.00 2.84 2.62	\$3.32 2.27 \$5.00 5.00 4.75 3.36 2.65 5.15 5.15 6.00 4.75
NTRY PRICES— Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Track ayer, fimbermen, cagern, per day. Tracklayer, fimbermen, cagern, per day. Tracklayer, per day. Tracklayer, per day. Tracklayer, per day. Trappers, per day. Motormen, per day. Olieva, per day. Sylke team drivers, per day when engaged. Drillers and shooters, per day. All other labor, per day. Dr. LABOR— Motormen, per day. Boy slate pickers, per day. Boy slate pickers, per day.	1.05 \$2.75 1 88 \$2.84 2.84 2.62 1.68 1.25 3.00 1.56 3.00 2.84 2.62	\$3.32 2.27 \$5.09 5.09 5.09 5.15 3.24 5.15 3.24 5.15 5.09 4.75
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, capers, per day. Drivers trip fiders, and water haulers, per day. Tracklayers, and timbermen helpers, per day. Tracklayers, per day. Trappers, per day. Trappers, per day. Ollers, per day. Splike team drivers, per day when engaged. Deliflers and shooters, per day. All other labor, per day. Motormen, per tlay. Motormen, per tlay. Boy slate pickers, per day. RETRIC MACHINE MINING— Leading deligns above the per day.	1.05 \$2.75 1 88 \$2.84 2.84 2.62 1.68 1.25 3.00 1.56 3.00 2.84 2.62	\$3.32 2.27 \$5.00 5.00 4.75 3.36 2.85 5.15 6.00 4.75
NTRY PRICES— Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Track ayer, timbermen, cagern, per day. Tracklayer, better, and water hauliers, per day. Tracklayer petters, and water hauliers, per day. Tracklayer petters, per day. Trappers, per day. Trappers, per day. Motormen, per day. Oliers, per day. Sylke team devivers, per day when engaged. Drillers and shooters, per day. All other labor, per day. All other labor, per day. Determine the per day. Ecottic Machine. Ecottic Machine. Ecottic Machine. Ecottic Machine. Hintel Mining— Leading. Grilling. shooting and furnishing of explosives, acreened.	1.05 \$2.75 1.88 \$2.84 2.84 2.62 1.68 1.25 3.00 1.56 3.00 2.84 2.62 1.25 3.00 1.56 3.00 2.84 2.62	\$3.32 2.27 \$5.00 5.00 4.75 3.36 5.15 5.15 6.00 4.75 84.63 2.65 5.15 6.00 4.75
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. NDERIGROUND LABOR— Track ayer, timbernen, capen, per day. Drivers, trip feiders, and water hauliers, per day. Tracklayers, and timbernen helpers, per day. Tracklayers, per day. Trappers, per day. Trappers, per day. Oliers, per day. Splice team drivers, per day when engaged. Drillers and shooters, per day. All other labor, per day. Motormen, per thay. Motormen, per thay. Motormen, per thay. Motormen, per thay. LECTRIC MACHINE MINING— Loading, drilling, shooting and furnishing of explosives, screened. Loading, drilling, shooting and furnishing of explosives, screened.	1.05 \$2.75 1 88 \$2.84 2.84 2.62 1.68 1.25 3.00 1.56 3.00 2.84 2.62	\$3.32 2.27 \$5.09 5.09 5.09 5.15 3.24 5.15 3.24 5.15 5.09 4.75
NTRY PRICES— Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Track ayes, timbermen, cazers, per day. Tracklayers, and timbermen helpers, per day. Tracklayers, and timbermen helpers, per day. Tracklayers, per day. Motormen, per day. Motormen, per day. Motormen, per day. Splike team drivers, per day when engaged Derlhers and shotoers, per day. All other laber, per day. Der LABOR. Motormen, per thay. Boy slate pichers, per day. LECTRIC MACHINE MINING— LECTRIC MACHINE MINING— LECTRIC machine, der day. Leading, drilling, shooting and furnishing of explosives, screened lump cast per tog.	1.05 \$2.75 1.88 \$2.84 2.84 2.62 1.65 3.00 1.56 3.00 1.56 3.00 1.56 3.00 1.70	1.38§ \$3.32 2.27 \$5.00 5.00 4.75 3.28 2.65 5.15 3.24 5.15 3.24 5.75 4.75 84.63 2.65
NTRY PRICES— Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Track ayes, timbermen, cazers, per day. Tracklayers, and timbermen helpers, per day. Tracklayers, and timbermen helpers, per day. Tracklayers, per day. Motormen, per day. Motormen, per day. Motormen, per day. Splike team drivers, per day when engaged Derlhers and shotoers, per day. All other laber, per day. Der LABOR. Motormen, per thay. Boy slate pichers, per day. LECTRIC MACHINE MINING— LECTRIC MACHINE MINING— LECTRIC machine, der day. Leading, drilling, shooting and furnishing of explosives, screened lump cast per tog.	1.05 \$2.75 1.88 \$2.84 2.84 2.62 1.05 3.00 1.25 3.00 2.84 2.62 1.56 3.00 2.84 2.62 1.70 49	1.38§ 83.33 2.27 \$5.00 5.00 5.00 4.75 5.38 2.88 2.65 5.15 5.15 6.00 4.77 4.77 4.77 4.77 4.77 4.77 4.77 4
NTRY PRICES— Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Track ayes, timbermen, cazers, per day. Tracklayers, and timbermen helpers, per day. Tracklayers, and timbermen helpers, per day. Tracklayers, per day. Motormen, per day. Motormen, per day. Motormen, per day. Splike team drivers, per day when engaged Derlhers and shotoers, per day. All other laber, per day. Der LABOR. Motormen, per thay. Boy slate pichers, per day. LECTRIC MACHINE MINING— LECTRIC MACHINE MINING— LECTRIC machine, der day. Leading, drilling, shooting and furnishing of explosives, screened lump cast per tog.	1.05 \$2.75 1.88 \$2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.85 1.25 1.25 1.25 1.25 1.25 1.25	1.38§ \$3.33 2.27 \$5.00 -5.00 4.75 -5.15 5.24 5.15 5.15 6.00 4.75 84.63 2.65
NTRY PRICES— Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Track aye; Imbermen, cagers, per day. Drives, try, and trinstematic haddens, per day. Tracklayers, and trinstematic haddens, per day. Tracklayers, per day. Motormen, per day. Motormen, per day. Dilers, per day. Dilers, per day. Motormen, per day. Dilers, per day. Drillers and shoots, per day when engaged. Drillers and shoots, per day. Drillers and shoots, per day. Motormen, per tay. Boy slate pickers, per day. Loading, drilling, shooting and furnishing of explosives, screened lamp coal per ton. Loading, drilling, shooting and furnishing of explosives, mine-run coal per ton. Machine helper, per day. Machine helper, per day.	1.05 \$2.75 1.88 \$2.84 2.84 2.62 1.05 3.00 1.25 3.00 2.84 2.62 1.56 3.00 2.84 2.62 1.70 49	1.38§ 83.33 2.27 \$5.00 5.00 5.00 4.75 5.38 2.88 2.65 5.15 5.15 6.00 4.77 4.77 4.77 4.77 4.77 4.77 4.77 4
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. NDERIGROUND LABOR— Track ayer, timberneen, susers, per day. Drivers, trip feiders, and water hauders, per day. Tracklayers, and timberneen helpers, per day. Tracpers, per day. Trappers, per day. Trappers, per day. Trappers, per day. Notice the suser description of the suser day. Splike team drivers, per day when engaged. Drillers and shooters, per day. All other labor, per day. De LABOR— Motornien, per day. LECTRIC MACHINE MINING— Loading, drilling, shooting and furnishing of explosives, screened lamp end per foot. Lamp end per foot. Lamp end per foot. Machine runner, per day. Machine runner, per day. Machine runner, per day. Machine in the per per day.	1.05 \$2.75 1.88 \$2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.85 1.25 1.25 1.25 1.25 1.25 1.25	1.38§ \$3.33 2.27 \$5.00 -5.00 4.75 -5.15 5.24 5.15 5.15 6.00 4.75 84.63 2.65
NTRY PRICES- Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Track ayee, timbermen, casers, per day. Drivers, trip iders, and water haulers, per day. Tracklayers, and timbermen helpers, per day. Tracklayers, per day. Motormen, per day. Motormen, per day. Motormen, per day. Splike team drivers, per day when engaged. Drillers and shooters, per day. Drillers and shooters, per day. Dr. LABOH. Motormen, per tlay. Boy slate pickers, per day. Motormen, per tlay. Boy slate pickers, per day. According drilling, shooting and furnishing of explosives, screened. Imp cast per tog. Landing, drilling, shooting and furnishing of explosives, mine-run Machine helper, per day. Machine helper, per day. Machine helper, per day. KRROW WORK—	1.05 \$2.75 \$2.84 2.64 2.62 2.64 2.62 1.65 1.25 2.62 2.62 2.70 49 3.23 2.00	1.384 83.33 2.27 85.00 6.00 4.76 3.38 2.85 5.15 3.24 5.15 84.03 2.65 84.63 2.65
NTRY PRICES— Eight foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. Twelve foot entry, per yard. NDERGROUND LABOR— Track ayee, timbermen, casers, per day. Tracklayers, and timbermen helpers, per day. Tracklayers, and timbermen helpers, per day. Bey couplers, per day. Motormen, per day. Motormen, per day. Motormen, per day. Splite team drivers, per day when engaged Drillers and shooters, per day. All other labor, per day. Motormen, per tay. Boy lada pickers, per day. Motormen, per tay. Motormen, per day. Motor	1.05 \$2.75 1.88 \$2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.85 1.25 1.25 1.25 1.25 1.25 1.25	1.38§ \$3.32 2.27 \$5,00 5.00 4.76 3.38 2.85 5.15 5.24 5.15 5.24 5.15 6.00 4.75 \$4.63 2.65

SUB DISTRICT NUMBER THREE

Mine-run coal, per ton Screened lump coal, per ton Eight foot entry, per yard Twelve foot entry, per yard.	1.10	.99 1.43 2.65 2.58
TOP LABOR— Motormen, per day Boy slate pickera, per day Day laborers, per day	\$2.50	\$4.63 2.65 4.23
ELECTRIC MACHINE MINING— Loading, drilling, shooting, furnishing of explosives, accessed imp- coal, per ton. Loading, drilling, shooting, furnishing of explosives, mins-run, per ton Machine runner, per day Machine beiper, per day	\$9.724 .504	.77§ 5.41 5.15
SUB DISTRICT NUMBER FOUR		
Screened lump coal, per ton Entry driving, per yard. Room turning not to exceed 0 foot neck, each	1.29 2.49 6.25	1,5278 3.80 7.54
UNDERGROUND DAY LABOR— Head tracklayer, per day. Head timberman, per day Drivers, cagers, tip ridders, per day Boy couplers, per day Drillers, shooters, per day Oliers, trappers, per day Other skull ishor, per day	\$2.84 2.84 2.72 1.68 2.84 1.25 2.12	\$5.00 5.00 4.85 3.35 5.00 2.65 4.75
MACHINE MINING— Loaders, per ton, screened lump coal	87.70	80.9511

LABOR LEGISLATION URGED.

Machine runners, per day Machine shovellers, per day

Machine helpers, per day

Day laborers, per day

Motormen, per day Bry slate pickers, per day

TOP LABOR-

Below is given a concise summary from reports of locals of the legislation desired:

Bakers-One local reporting desires better sanitation. Also suggests monthly examination by medical officer of all bakery workers, as well as those handling foods.

BARBERS-Twenty locals reporting, 13 desire a license law for barbers, 2 a more definite Sunday closing law.

BLACKSMITHS-Ten locals reporting, 1 asks for more factory inspectors, another asks an increase of the scope of the compensation law, while another asks the establishment of a national wage scale.

Bollermakers-Of the 3 locals reporting, 4 wish a state boiler inspector same to be a practical boilermaker, while 2 ask for a revision of the compensation law.

BOOKSINDERS-Five locals reporting but offer no suggestions on needed legislation other than that all school printing should be done in Iowa.

BRICKLAYELS—Twenty locals reporting, one suggests the appointment of a state inspector of brickwork and flues, another new building laws, while 2 desire the revision of the present compensation laws, and 2 a universal eight-hour day.

BRICK AND THEMAKERS-Only one local reporting.

BRIDGE AND STRUCTURAL IRON WORKERS—Two locals reporting desire that there be some legislation to make safer the scaffolding upon which they are compelled to work.

BROOM AND WHISK MAKERS-Four locals reporting, 3 of whom wish laws prohibiting prison labor from competing with free labor, while one local desires shorter working hours and more sanitary workshops.

CARMEN, RAHLWAY—Reports from 16 locals, 4 of whom ask for an eighthour law, 6 ask for car sheds under which they may work in unfavorable weather, and 1 asks that toilets be provided.

CAMPENTERS AND JOINERS—Universal eight-hour law asked for by 5 locals, 3 wish a state building inspector, 5 ask for the revision of the compensation law and 2 want government control of public utilities. Twenty-seven locals reporting.

CIDARMAKERS-Sixteen locals reporting, ask for no state legislation.

CLEEKS, POSTOFFICE-Six locals reporting, all desire a raise in salary,

CLERKS, RAILWAY-Only one local reporting.

CLERKS, RETAIL—Five locals reporting, one of number asks for a universal eight-hour law.

CONDUCTORS-Of 10 locals reporting, 3 ask for a full crew law, and 2 want a car limit law.

Coopers-One local reporting asks for an eight-hour law.

ELECTRICAL WORKERS—Reports from 16, of whom 9 ask for a state inspector, one asks for an eight-hour law and one wishes government control of public utilities.

Engineers, Horstine—Four locals reporting, 3 of whom ask for a law licensing engineers, and one asking for a state inspector.

ENGINEERS, LOCOMOTIVE—Eighteen locals reporting, 2 of whom wish a universal eight-hour work law, one a car limit law, another wants a full crew law, while 3 want their work day to be 12 hours instead of 16.

FIREMEN, City—The 4 locals reporting are unanimous in asking for a twoplatoon law to be enacted.

FIREMEN AND ENCINEERS, LOCOMOTIVE—Reports received from 22 locals, 6 of whom ask for a car limit law, 1 free textbooks, 1 for a full crew law. 1 for eight-hour law, 1 for government ownership of railways and 4 ask that the present 16-hour day be shortened to 12 hours.

FIREMEN, STATIONARY—But 1 local reporting and they ask for a Saturday half-holiday law and a law providing for better sanitation.

GARMENT WORKERS, UNITED—Reports from 2 locals contain no suggestions.
GRANITE CUTTERS—One local only reports.

GYPSUM MILL WORKERS—Represented by 1 local which asks for a universal eight-hour law.

Hop Carriers-Three locals report, of whom 2 desire a revision of the present compensation law.

Horseshoers—Two locals reporting, of whom 1 asks that blacksmiths pass a state examination before being allowed to work as a blacksmith.

HOTEL AND RESTAURANT WORKERS-The 2 locals reporting ask for 10 hours per day and a six-day week.

Inon Moldens-Seven locals report, 2 ask for a universal eight-hour law, and 3 ask for better washing facilities.

LATHERS-Reports received from 4 locals.

LEATHER WORKERS—Of the 2 locals reporting both are for a universal eight-hour law and 1 asks that women be given equal pay with men for all work done.

LETTER CARRIERS—Thirty-seven locals reporting, all of whom would accept a substantial raise in salary.

LITHOGRAPHERS—Just 1 local reported and they desire public utilities controlled by the government.

LOCK FITTERS-But 1 local reports.

MACHINISTS—Nineteen local report, of whom 4 are for an eight-hour law, 2 want equal wages and hours for women, 3 government ownership of railroads, 2 sek for the revision of compensation law, while free text-books, full crew law, old age pensions and sanitation laws are asked for books, full crew law, old age pensions and sanitation laws are asked for by 1 local each.

MAINTENANCE OF WAY-Five locals reporting.

METAL POLISHERS AND WORKERS—Nine locals report. Revision of compensation law asked for by 1 and better system of ventilation by another.

MINE WORKERS—Fifty locals in all have reported, free textbooks wanted by 2, weekly pay by 6, 2 ask for a revision of the compensation law, 2 ask for the election by the people of the mine inspector, and 1 local asks that no boy under 16 be allowed to work in mines.

Musicians-Sixteen locals reporting are asking for legislation requiring better ventilation of halls, etc., where they play,

PAINTEES AND DECORATORS—Of the 12 locals reporting, 2 are for government ownership of railroads, 3 ask for the revision of the compensation law, 3 want an eight-hour law.

PATTERN MAKERS-Of the 2 locals reporting, 1 asks for better sanitary conditions.

PROTO ENGRAVERS-One local only reporting and they ask for a law to provide better ventilation.

PIPE LAYERS-One local only.

PLASTERERS-Eight locals report, one asks for a state inspection law.

PLUMBERS AND STRAMFITTERS—Fifteen locals have reported, of whom 9 ask for a state license law and 1 asks for the appointment of a state inspector.

PRESSMEN-Nine locals have responded, 1 asking for better sanitary requirements and for an individual cuspidor law.

STAGE EMPLOYEES—Of the 15 locals reporting 3 ask for Sunday closing 2 for an age regulation of employees and 1 asks for ventilation laws, STEREOTYPERS—Reports from 3 locals.

STREET RAILWAY EMPLOYEES—Ten locals reporting, 5 of whom want two-man cars, 2 ask that all cars be equipped with air brakes, and 4 are urging better heating of cars.

STONECUTTERS-Represented by 4 locals.

SWITCHMEN—Seven locals report, 2 want a full crew law, one a six-day week and 1 asks double time for Sundays and holidays.

TAILORS-Reports in from 9 locals, 3 of whom ask for an eight-hour law and 1 favors Sunday closing.

TEAMSTERS-Of the 8 locals reporting 2 ask an eight-hour law and I wants free textbooks.

TELEGRAPHERS-Two locals only.

THE LAYERS AND HELPERS-Locals reporting, 2.

TRAINMEN, RAILWAY-Fourteen locals, of whom 7 desire a car limit law, 5 a full crew law, 1 an eight-hour day and 1 time and one-half for overtime.

Tyrograpнical.—Sixteen locals have reported, 1 wants prohibition, 2 want better lighting, 1 a seven-hour day, 1 a full crew law and 2 ask for laws that will provide better sanitation.

ARBITRATION AND CONCILIATION.

The arbitration and conciliation law has been in force since July 4, 1915, and five cases to date have been settled according to its provisions, thus avoiding serious situations in labor troubles. The intent of the law is to force the real facts of such difficulties into public light, so that the weight of public opinion can have its effect and induce a fair and speedy settlement of all disputes. The following sections of the law outline the conditions under which disputes between employers and employees are subject to arbitration:

Section 2477-N. Board of arbitration-petition filed with governor. Whenever any dispute arises between any person, firm, corporation, or association of employers and their employees or association of employees, of this state, except employers or employees having trade relations directly or indirectly based upon inter-state trade relations operating through or by state or international boards of conciliation, which has or is likely to cause a strike or lockout, involving ten (10) or more wage earners and the parties thereto are unable to adjust the same, and which does or is likely to interfere with the due and ordinary course of business, or which menaces the public peace, or which jeopardizes the welfare of the community, either or both parties to the dispute, or the mayor of the city, or the chairman of the board of supervisors of the county in which said employment is carried on, or on petition of any twenty-five (25) citizens thereof, over the age of twentyone (21) years, or the commissioner of the bureau of labor, after investigation, may make written application to the governor for the appointment of a board of arbitration and conciliation, to which board such dispute may be referred under the provisions of this act. Provided, however, the manager of the business of any person, firm, corporation or association of such employers, or any organization representing such employees, or if such employees are not members of any organization, then a majority of such employees affected may make the application as provided in this act, but in no case shall more than twenty (20) employees be required to join in such application.

Sec. 2477-N1. Arbitrators—how appointed. The governor shall at once upon application made to him as herein provided and upon his being satisfied that the dispute comes within the provisions of

section one (1) of this act, notify the parties to the dispute of the application for the appointment of a board of arbitration and conciliation and make request upon each party to the dispute that each of them recommend within three (3) days from the date of notice, the names of five (5) persons who have no direct interest in such dispute and are willing and ready to act as members of the board, and the governor shall appoint from each list submitted one (1) of such persons recommended. Should either of the parties fail or neglect to make any recommendation within the said period, the governor shall, as soon thereafter as possible anpoint a fit person who shall be deemed to be appointed on the recommendation of either of the said parties. The members of the board so appointed shall within five (5) days of their appointment recommend to the governor the name of one (1) person who is ready and willing to act as a third member of the board, and upon failure or neglect upon their part to make such recommendation within the said period, or upon the failure or refusal of the person so recommended to act, the governor shall as soon thereafter as possible appoint some person to act as the third member of the board.

In all cases when the application is made by both parties to the dispute, they shall set forth in the application whether or not they agree to be bound by the decision of the board of arbitration and conciliation; and if both parties agree to be so bound, the decision shall be binding for a period of one year.

The law provides that the biennial report of the Bureau of Labor shall include all decisions of duly authorized boards of arbitration and in this report are three decisions:

 The Hod Carriers, Building and Common Laborers' Union, No. 177, of Des Moines, Iowa, versus Master Builders' Association.

 International Molders' Union of America, Local Union No. 459, at Waterloo, Iowa, versus The Hawkeye Foundry Co., Waterloo Register Co., and Interstate Tractor Company, all of Waterloo, Iowa.

 Amalgamated Association of Street and Electrical Employees of America, Division 329, at Dubuque, lowa, versus Dubuque Electric Co.

HOD CARRIERS, BUILDING AND COMMON LABORERS' UNION NO. 177, OF DES MOINES, VERSUS MASTER BUILDERS' ASSOCIATION.

On April 21, 1917, Hon. W. L. Harding, governor of Iowa, received the following communication:

We, the undersigned citizens of Des Moines, do hereby respectfully pettion you to appoint a commission as provided by Section 2477-N, Supplement to the Code of Iows, for the purpose of arbitrating a dispute, which now exists between the Master Builders' Association of Des Moines, Polk county, Iowa, and the general laborers of the said city.

Your petitioners believe and are of the opinion that the general public is affected because of the trouble now existing between the parties herein and that the interest of the public can be best conserved by having this dispute adjusted and arbitrated as quickly as possible. For your information, we would say that there are over 400 men now involved in this dis-

pute.

The above petition was signed by twenty-six citizens of Des Moines. Having investigated the case and finding that it properly came under the provisions of the arbitration law, the governor notified both parties to the controversy of such fact and asked that each side submit to him a list of five persons from whom he could select one arbitrator to represent them on the board. In response to such notice and request the following letter was received:

Des Moines, Iowa, April 26, 1917.

Hon W. L. Harding, Governor of the state of Iowa, State House, City. My dear Sir: In answer to your communication and notice under date of April 24, 1917, we are instructed as president and secretary of the

Master Builders' Association of Des Moines, Iowa, to state:

That there is no dispute as between the Master Builders' Association of Des Moines, or as between individual members thereof, with any firm, employee or association of employees, which should be construed to fall under Section No. 2477-N. Supplement to the Code, 1913.

There is not now and never has been any recognition by the Master Builders' Association of Des Moines, Iowa, of any International Hod Car-

riers', Building and Common Laborers' Union of America.

There is not now nor has there been any dispute between the Master Builders' Association of Des Moines, Iowa, and any laborers' association or individual laborers.

At the present time the construction work being carried on by the members of the Master Builders' Association is being carried out in the usual manner.

For your own information, laborers are being hired daily by the various members of the Master Builders' Association at the minimum wage of 30c per hour, and the laborers in the employ of the members of the Master Builders' Association are working, we believe, for a period of nine hours per day.

We are of the opinion, furthermore, that there will be a reasonable increase in wages sometime in the near future.

We trust that you will be able to see from the above statement of facts that there is no dispute as contemplated under Section No. 2477-N, Supplement to Code of 1913.

Very respectfully,

MASTER BUILDERS' ASSOCIATION OF DES MOINES, (Signed by Pres. and Sec.) Since the Master Builders' Association refused to submit a list of persons who would serve as their arbitrator, the governor appointed Judge S. F. Prouty to be their arbitrator. The Hod Carriers' and Common Laborers' Union did submit their list of five men, from whom the governor selected Judge J. E. Mershon. These two arbitrators met on May 1st and as provided by law, selected A. B. Funk to be the third arbitrator.

The cause of the dispute was due to the great increase in conof living with wages very low in proportion. As brought out due ing the investigation, on the first day of April, 1917, four unions involved in the building trades, left their employment; the carpenters, masons and bricklayers, stationary engineers and hod carriers. On the fourth day of April three of these unions reached an agreement and the contract entered into between these three unions and the employers was entered into on behalf of the enplovers under the name of "Master Builders' Association," who however, refused to hold a conference or attempt to come to an understanding with the Hod Carriers' and Common Laborers' Union. For this reason the differences were submitted to the governor for arbitration as to whether or not they were entitled to an increase in wages or betterment in hours of employment. A perusal of the findings and decision of the board will clearly set forth the demands of the common laborers. As shown in the following report, the board decided that an increase of wages was necessary to meet the changed economic conditions.

"To Honorable W. L. Harding, governor of Iowa:

"In accordance with statutory provision the undersigned named as arbitrators in the controversy as indicated by the title hereof, do hereby and herewith submit to you a report of our investigation and findings in these premises.

"The board organized on May 3, 1917, by the selection of S. F. Prouty as chairman and J. E. Mershon as secretary. Henry W. Brandt was named as official stenographer.

"On May 5, 1917, a hearing was held in the room of the municipal court for the purpose of investigating the claims of the parties to this arbitration. The petitioners were represented by John A, Holland and John Connelly, Jr. The respondent as an association made no appearance, Walter L. Stewart expressly stating that he appeared as a representative of the secretary and president of the Master Builders' Association.

"Mr. Connelly submitted as Exhibit 'A' the following communication embracing a statement as to wage scale and other concessions demanded by the petitioners:

"Des Moines, Jan. 16, 1917.

"To Master Builders' Association of Des Moines and vicinity:

"We, the members of Hod Carriers' and Building Laborers' Local, No. 177, of Des Moines and vicinity, have unanimously voted for the following scale of wages and conditions herein named.

"We have taken notice of the great economical change in the last year to such extent that it is necessary we ask for an increase in wages and a shorter work day, that we may have more recreation and in return for same give a more efficient day's work. We need not quote the high cost of living, of which we know you are aware, not that food is the only necessary of life that has gotten out of the reach of the common laborer; fuel and house rent has attained a very high place in connection with the H. C. of L.

"Therefore, we submit the following wage scale to become effective the first day of April, 1917:

- "1st: Eight (8) hours shall constitute a day's work; working hours shall be between eight (8) a, m. and five (5) p. m., except on Saturday, which shall be from eight (8) a. m. till noon (12 o'clock).
- "2nd: Forty (40) cents shall be the minimum wage scale for mortar-mixers.

"Bricklayer-tenders in any way and all forms, such as may be working with them in any way, shall receive thirty-seven and one-half (37½) cents per hour.

- "3rd: All general laborers, such as work in or around any building, or excavation for a building, shall receive thirty-seven and one-half (37½) cents per hour.
- "4th: Cement-workers' helpers in any form shall receive thirty-seven and one-half (371/2) cents per hour.
- "5th: Time and one-half shall be charged for overtime until midnight and double time for work done between midnight and eight (8) o'clock a, m.
- "6th: In case no material on job, members of this local shall receive straight time while walting.
- "7th: Pay day shall be at twelve (12) o'clock noon Saturday, and time and one-half shall be charged for all time members are compelled to wait for same.
- "Sth: When members are required to go out of town, transportation shall be paid. In case a member is discharged by the employer or his representative return transportation shall be furnished by employer.

"These rules and agreement to be in full force and effect on and after the first day of April, 1917, and continue for one year.

"Signed for contractor..."
"Signed for H. C. B. & C. L. U. No. 177....

"Counsel for the petitioners asked for continuance for the purpose of securing such testimony as they desired to bring to the consideration of the board. Whereupon, adjournment was taken to May 12, 1917.

"At this time a number of witnesses were introduced by petitioners who testified to a wide range of conditions pertinent to this inquiry.

"At this hearing respondent made no appearance by counsel or otherwise.

"All testimony submitted and all exhibits introduced accompany this report.

"Upon careful consideration of the same the board of arbitration submits these conclusions:

"In the presence of national conditions substantially affecting the welfare of all classes of citizenship, we do not grant the appeal for shorter days or more holidays. Personal sacrifice must be the portion of all classes and conditions of men and women while our country is at war.

"In justice to the working man and his dependents, however, we feel that wages must be advanced in some degree to correspond with increased cost of existence. It is a matter of common knowledge that all food products and nearly all articles in family use have largely increased in cost within recent months. No specific diagram of these increases is necessary to convince us that suffering must exist among working people if the wage scale be not increased from time to time on this account.

"We, therefore, conclude that

"The minimum wage for mortar mixers should be thirty-seven and one-half (37½) cents per hour. That

"All general laborers, such as work in or around any building or excavation for a building, should receive a minimum wage of thirty-five (35) cents per hour.

"The hope is entertained by this board of arbitration that upon this basis the petitioners and respondent may be able to adjust all minor differences as to hours, etc., and that they may amicably join in promoting the enterprise and prosperity of the city of Des Moines.

"Signed at Des Moines, Iowa, this 1st day of June, 1917.

"S. F. PROUTY,
"J. E. MERSHON,
"A. B. FUNK,

"Board of Arbitration."

The Master Builders' Association never recognized the award, but war conditions after a short time forced a wage rate equal to the award, and in many cases above the award.

THE INTERNATIONAL MOLDERS' UNION, NO. 459, OF WATERLOO, 10WA, VERSUS HAWKEYE FOUNDRY COMPANY, WATERLOO REGISTER COMPANY AND INTERSTATE TRACTOR COMPANY, ALL OF WATERLOO, 10WA.

The following petition was sent the governor the middle of March, 1918, signed by sixty-five citizens of Waterloo, Iowa:

To Hon. W. L. Harding, governor of Iowa:

Pursuant to the provisions of Chapter 292, Laws of Iowa, Thirty-fifth General Assembly, "Board of Arbitration" for settlement of disputes between employers and employees, the undersigned, citizens of Waterloo, Iowa, all of whom are over 21 years of age, herewith petition you to appoint a board of arbitration for the settlement of a dispute now existing between Local Union No. 459, International Molders' Union of America, and the Hawkeye, Interstate and Waterloo Register foundries, which has resulted in a strike of the employees of said companies.

Said dispute involves all the employees in said foundries, numbering about 100 men, and is hurting the interests of the city of Waterloo in general as well as the interests of the employees of said companies, and all other citizens.

The parties thereto are unable to reach any satisfactory adjustment or agreement, and this is seriously interferring with the due and ordinary course of business in connection with the manufacture of farm machinery and other accessories, which seriously jeopardizes the welfare of the community and menaces the public peace unless some relief be had from present conditions.

For the welfare of our country, and this community in general, we urge you as governor of the state of Iowa, to act at once under the provisions of Chapter 292, "Board of Arbitration."

Investigation proved that the dispute was subject to the arbitration and conciliation act, and therefore the governor duly notified each party to the controversy to submit the list of five names necessary so that he could select their arbitrator. In response to such notice, the following letter outlining the position taken by the employers, is on record:

Waterloo, Iowa, March 28, 1918.

Hon. W. L. Harding, Des Moines, Iowa,

Dear Sir: We have received notice signed by you requesting us to name five persons to act as members of a board of arbitration and conciliation for the settlement of an alleged dispute with the International Molders' Union, Local No. 458, of Waterloo, Iowa; this notice being given under Section 2477-N, Supplement to the Code, 1913. In reply thereto we beg to state that we decline to join in the application for a board of arbitration and conciliation. We are advised that unless we join in the application we are not bound by any decision made by such board, and the purpose of this letter is to advise you that we refuse to join in such application and will therefore refuse to be bound by any decision made by such board.

We further beg to advise you that our plant is in operation and that the due and orderly course of our business is not interferred with, that there is nothing in the existing situation which menaces the public peace

or which jeopardizes the welfare of the community.

We are now employing as many men as we desire to employ at this time and have a sufficient number on the waiting list to meet any future requirements. Our business is neither suspended nor interfered with by virtue of any strike or lockout.

In view of the above facts, we see no occasion for a board of arbitration and conciliation and, to avoid any possible question in respect thereto, deem it our duty to advise you affirmatively that we decline to join in the application for the appointment of such board.

Very respectfully,

HAWKEYE FOUNDRY COMPANY

Identical letters received from the Waterloo Register Co. and the Interstate Tractor Company.

Since the employers refused to submit a list of persons who would serve as their arbitrator, the governor duly appointed A. B. Funk, of Des Moines, to represent them. The International Molders' Union did submit the list of five names, from which the governor selected Rev. A. W. Henke, of Waverly, Iowa. When these two arbitrators met, S. F. Prouty, of Des Moines, was named as the third member to complete the board. At the beginning of the arbitration, both parties to the controversy made it clear that they refused to be bound by the decision if they should so choose when the board made its report,

As the board expresses it, the real controversy was not so much a matter of wages as concerning the "open shop" or "closed shop." In submitting a draft of a contract to the employers for the year 1918, the union purposely omitted the open shop provision which permitted the employment of "handy men" until union men could be secured. During the investigation it was brought out that this section was omitted from the contract by the union, because they considered the clause as abused and used by the employers as a sort of club over the union men. The employers, on the other hand, insisted on including the section. In order to determine a course of action, the foundries anticipated the strike of the union employees, by a lockout.

Other facts leading up to the request for arbitration were that the foundries had attempted to replace the union employees with non-union men, and when picket lines were placed at the factories, the feeling ran high on both sides of the argument, the Hawkeye Foundry Company filing on February 9, 1918, a petition in equity and for temporary injunction to prevent the strikers from picketing and from doing everything to prevent employment of non-union men.

The employers insisted on the "open shop" clause being included in the contract, claiming they have the right to employ such employees in their foundry as they deem proper, and without respect to whether the employees do or do not belong to the union. Furthermore, they had entered into contract with such employees, agreeing to give them six months' work, which contract could not be broken. However, if any of their former workmen who were members of the union desired to be re-employed, they would not in any individual case decline to re-employ them because they were members of the union.

It was understood that there was no dispute arising on the increase of wage scale. As shown in the following decision, the aribtration board decided that the "open shop" or "closed shop" question did not come under its jurisdiction.

"To Hon. W. L. Harding, governor of Iowa:

"Under the provisions of law, A. S. Henke was appointed arbitrator in this case on the part of the plaintiffs to this action; A. B. Funk was named as arbitrator on the part of the employers involved, and S. F. Prouty was named by these arbitrators as the third member of the board of arbitration. The full board met at Waterloo, Iowa, on the 8th day of April, 1918, and organized by the selection of S. F. Prouty as chairman and A. W. Henke as secretary. Matthew Westrate was chosen as stenographer and clerk.

"Appearances were made by counsel for the union and by all employers involved, except Waterloo Register Company. Testimony was submitted by both parties to this controversy, a copy of which is submitted herewith.

"The real controversy in this contention was between the union and the Hawkeye Foundry Company, growing out of a disagreement in regard to the contract between the parties, governing their relations for the year 1918. There was a minor issue involved relative to wages. The contract of 1917 provided for an

increase of fifty cents a day for day work and ten per cent for piece work over the contract of 1916. On the part of the union an increase for 1918 was demanded over the contract of 1917 of one dollar per day for day work and 155-8 per cent for piece work. The employers were willing to concede an advance of ten per cent on piece work and fifty cents a day for time service. It is apparent from the testimony that this, however, is not a substantial source of controversy between the parties involved in this action.

"The contract of 1917 provided for a practically closed shop, with this exception and limitation: it was provided in said agreement as follows:

"Section 7. If after afteen days' notice the committee is unable to secure 'card men' to work the machines, the firm shall have the privilege of placing 'handy men' on such machines until the committee is able to replace them with 'card men.' Such 'handy men' shall be the first men laid off in case of slack work. This provision shall apply only in an emergency, when it shall be necessary in order to get out the work.

"It is claimed on the part of the workmen that this provision was abused by their employers, to the serious disadvantage of the union. On the part of the employers the claim was made that a fair application of Section 7 was made in dealing with the union during the year 1917.

"In submitting a draft of a contract to the employers for the year 1918 the union omitted the provisions of Section 7, as above quoted, and insisted upon this elimination from the contract for the coming year. The employers insisted this provision was important to the successful conduct of their business. This seems to be the real question upon which they disagreed, resulting in an order for a strike on the part of the men, which was anticipated by a lockout on the part of the employers.

"As a matter of fact, as appears from this record, the only contention of vital importance, in the estimation of both parties to this action, was the 'open shop' or 'closed shop.' This board of arbitration regards this question as being without its jurisdiction. We feel that if this question had been eliminated from the controversy, that the parties would have had no real difficuly in arriving at an agreement as to the wage scale. While this break in important relationship between employers and employees, which had been of substantial value to both parties, is manifestly deplorable in its effects, our range of authority under the law furnishes no opportunity for a decision by this board that would reach and correct this vital question.

RECOMMENDATIONS.

"In view of the fact that the nation is now engaged in a serious war, taxing the energy and resources of the country, including its man power, we feel like recommending to the parties to this controversy that in view of that situation, both parties should, as far as possible, subordinate their individual interests and prejudices to the public good; that the employers should not be too technical or arbitrary in their dealings with their employees, and that, on the other hand, the employees should not be over-insistent upon their claimed rights during this desperate struggle. We feel that it is very important that labor controversies should not be accenmated at this time, and that employers and employees should meet with open minds and deal with each other in fairness and even generosity under existing conditions, and we feel that if the parties to this controversy had met each other in this spirit, and with this situation clearly in their minds, that all the difficulties that originated this unfortunate controversy could have been easily prevented.

"These controversies yield little benefit to the parties to them, and inflict a serious loss to the power and energy of the nation. In these times labor should not be made idle nor factories shut down by controversies of this character. The public good demands that labor disputes, resulting, as they have in this case, in waste of labor by enforced idleness, should as far as possible be avoided.

"Respectfully submitted,

"S. F. PROUTY,
"A. B. FUNK,
"A. W. HENKE,
"State Board of Arbitration."

State Board of Arbitration.

AMALGAMATED ASSOCIATION OF STREET AND ELECTRIC EM-PLOYEES OF AMERICA, DIVISION \$29, VERSUS THE DUBUQUE ELECTRIC COMPANY.

On April 10, 1918, the following letter was sent to the governor, by each party to the controversy:

Honorable W. L. Harding, governor of lowa:

There exists at this writing a condition of controversy between the Dubuque Electric Company and its employees regarding a request for an increased wage scale. The proposed scale affects more than ten (10) wage earners and involves differences which the parties thereto are unable to adjust. Failure to reach an agreement jeopardizes the welfare of this community.

We, therefore, ask you to take the necessary action as prescribed in Section 2477-N of the Supplement to the Code of Iows, for the appointment of a board of arbitration and conciliation to hear this matter. The decision of such board we agree to accept.

Both employer and employees submitted the list of five names of arbitrators, from which the governor selected Judge S. F. Prouty, of Des Moines, as the representative of the Dubuque Electric Company, and Judge M. C. Matthews, of Dubuque, Iowa, for the Street and Electric Employees Union. Hon. A. B. Funk, of Des Moines, Iowa, was appointed as the third member to complete the board.

The request for arbitration was caused entirely by a difficulty in arriving at a wage schedule, the decision of such a board being recognized as the best solution in order to prevent a strike.

According to the evidence submitted to the board, there was a sort of tacit admission by the company that the request made upon them for increase in wages was not exorbitant, that the men were not asking something that they were not entitled to, but that the company's financial condition was such that they could not stand the raise. The company had changed ownership just a short time prior to this, and gave every possible reason for not meeting the demands of the employees. The greatly increased cost of living, etc., due to war conditions, prevailed, and the board ruled that wages be increased, as given in detail in their report, which follows.

"To Hon. W. L. Harding, governor of Iowa:

"The undersigned, M. C. Mathews, A. B. Funk and S. F. Prouty, duly appointed as arbitrators in the above entitled controversy, met in the north court room in the county court house, at Dubuque, Iowa, on the 30th day of April, 1918, and each member thereof, before entering upon his duties was sworn to a faithful and impartial discharge of the duties thereof, by Judge J. W. Kintzinger. Thereupon said board organized by electing Judge S. F. Prouty as chairman and Judge M. C. Mathews secretary, and said board employed H. J. Kintzinger as official stenographer and clerk at \$8.00 per day and \$.08 per folio for transcript. An open hearing was had of the matters in controversy in the north court room of said court house at Dubuque, Iowa, M. H. Czizek and R. P. Roedell, appearing as attorneys for complainants, and Nelson & Duffy for respondents, and the parties to the controversy appearing in person, from which it appears that the matter in controversy is wholly a question of wages.

"Both sides introduced a large amount of oral testimony and exhibits, a transcript of the oral testimony with the exhibits thereto attached are herewith transmitted. After hearing all of the evidence, argument or counsel, and being fully advised in the matter, the above named arbitrators find that the wages of all of the employees in controversy should be raised five cents per hour over that now received, with the exception that those that have served for four years or more should have an advance of six cents per hour, making the following schedule:

For men engaged in the running of cars for the

First six months25c	per	hour
Second six months26c	per	hour
Second year29c	per	hour
Third year		
Fourth year and thereafter34c	per	hour

Street sprinkler service, 5c per hour in addition to regular scale. Snow sweeper service, 5c per hour in addition to regular scale. For overtime beyond their regular run, time and a half.

Barn men wage scale, at ten hours per day:

	Foremen of car barn32c	per	hour
	Pitmen and assistants30c	per	hour
	Carpenters		
	Armature winder and storekeeper32c	per	hour
	Night foreman, car barn30c	per	hour
	Night assistants27c	per	hour
ne.	night off every two weeks for each night barn man	with	reg-

Overtime, 5c above regular scale.

Paint shop wage scale:

ular pay.

Or

Nine (9) hours shall constitute a day's work.

All overtime to be paid at the rate of 5c per hour in addition to regular scale.

"We have been induced to allow the men engaged in the actual car service the time and a half for overtime for the reason that we believe under the evidence introduced before us that said men are so engaged in the regular service as long as is safe and expedient for them to work. We believe that the welfare of the men and the safety of the traveling public make it inexpedient to ask or demand of them longer service. We feel, however, as to the men engaged in the barn and mechanical service, that this same necessity does not arise.

"We have been constrained to grant the above and foregoing increase in wages in view of the well known fact that the cost and expenses of living have greatly increased during the last year, due to the economic conditions arising out of the world war.

"We, therefore, recommend that the respondent pay to complainants the above and foregoing schedule of wages, effective as of date March the first, 1918, as per agreement between the parties as to the time when said increased wage scale should be effective, and we recommend to the complainants that they accept said schedule.

"It appearing from the application made the governor of the state of Iowa for the appointment of this board of arbitration, that both parties agree to be bound by the decision and finding of this board, it is therefore ordered and adjudged by this board that complainants receive and respondents pay the scale of wages above set out, together with all the conditions therein named.

"Respectfully submitted,

"M. C. MATHEWS,

"A. B. FUNK,

"S. F. PROUTY,

"Board of Arbitration."

"Dated May the first, 1918."

STATE-FEDERAL FREE EMPLOYMENT OFFICES.

This section of our report covers the activities of the State Free Employment Bureau, which since September, 1917, has been operated jointly with the government as the State-Federal Employment Bureau.

In the summary for the year ending June 30, 1917, as given in Table No. 30, there were 643 applications from employers asking for a total of 2,540 persons; of applicants for work, there were 1,577 new registrations and 280 renewals; 1,509 positions were offered these applicants, of which only 895 were filled, the total number of placements being 48.2 per cent of the applicants.

For the fiscal year ending June 30, 1918 (Table No. 31), there were 14,085 applications for employment, 260 renewals; 17,484 applications for help and 8,992 positions filled, or 62.7 per cent of the applicants placed in positions. The great difference in results for the two years is due to the co-operation of the government, the more suitable location of office, and more intensive employment because of war needs. As mentioned in the introduction of this report, to meet the demands of all parts of the state, the number of State-Federal Employment Offices was rapidly increased to twelve at the time of this report, but of this number only four were in operation during April, May and June of 1918, so the total number of applications and all other information for the period cannot be taken to represent the State-Federal Employment Service. The information applies mostly to the office at Des Moines, the other three having been barely established. The "work or fight" policy must have had great effect to increase applications from employes, and the large number of workers who entered service in the government shipyards and war industries caused new openings for employes.

For the year ending June 30, 1917, Tables No. 32 and 33 show number of male and female applicants respectively, classified by occupations, with number of positions filled, etc. Eight hundred and sixty-nine of the placements in that year were for men and 26 for women.

For fiscal year ending June 30, 1918, Tables No. 34 and 35 classify all applications and placements by occupations, for men and women respectively. Seven thousand, six hundred and fifty-eight men were placed in positions and 1,334 women.

The list of occupations for 1918, because of the greater number of applications, represents fairly the wide range of industries

benefitting from the State-Federal Employment Service. Common laborers and farm hands always lead in both applications and placements, but factories have made considerable use of the bureau, and many calls were for carpenters, machinists and other tradesmen. In fact, it is noticeable that there were not nearly enough tradesmen to supply the demand. Taking for instance the carpenters, there were 419 applications for employment during fiscal year ending June 30, 1918, 1,000 applications for carpenters, and only 119 positions filled; of machinists, there were 112 applicants for employment, 1,007 applications for help, and only 37 positions filled. The fact that both carpenters and machinists left their regular employment for government work is responsible for the sharply unbalanced condition of supply and demand in these lines of work.

Given by rank, the applications of women are mostly from clerical workers, day workers, domestics, factory employes, housekeepers and waitresses, the greatest number of placements being in domestics, with clerical workers and day workers in next order.

During the last year the State-Federal Employment Bureaus located in all parts of the state have supplanted the fee offices to a considerable extent, giving a more satisfactory service free of charge. The aim is to keep the labor turnover at a minimum, and to save the public from all the objections generally raised against the fee offices, which commercialize the helplessness of the man in need of a job.

It will be noted that the extension of the Free Employment Service got fairly started April 1, 1918. From that time to January 1, 1919, or a period of nine months, 51,523 men and 14,859 women, a total of 66,382 persons were referred to jobs, with an actual and bona fide record of 78 per cent or 51,825 placed in jobs. For the reason that in many cases when a job is filled neither the worker nor the employes will take the trouble of reporting, it is always true that a far greater number of persons are actually placed in positions than the records indicate.

Considering the newness of the service, which meant that neither employers nor employes had the necessary knowledge and acquaintance with the service to bring the best co-operation, coupled with the fact that employes practically all had to be trained in a work that calls for extraordinary qualifications, it is felt that the service actually rendered has well repaid both effort and expense of maintenance.

TABLE NO 30-STATE FREE EMPLOYMENT BUREAU.

Year and Month	Applica-	Applica- Persons		Applying Vork	Offers	Positions
	from from Employers	Asked for by Employers	New Reg- istrations	Renewals	Positions	Filled
1916						
July	34	105	- 54	12	103	11
August	31	436 220	120 114	18	123	70 93 69
September	60	017	136	37 19 44	138	- 69
November	30	145	148	44	157	111
December	20	.95	114	27	101	10
1917		1				
January	26	58	87	25	40	24 25 52 77
February		123	.97	19	103	25
March	. 76	136	105	26 19	113	77
April		357	111 362	16	259	180
MayJune	110 82	247	129	18	168	107
Total	-	2.540	1.577	250	1,509	895

Percentage of applicants placed 48.2.

TABLE NO. 31—STATE-FEDERAL EMPLOYMENT BUREAU. Iowa: July 1st, 1917, to June 30th, 1918.

Year and Month	Application for Employment	Renewals	Applications for Help	Positions Filled
July	124 550 356	27 25 15 29 35 62	92 65 62 106 63 95	213 169 96 356 271 189
January February March April May June	1,253 2,274 3,119	24 10 33	5,444	69 37 586 1,296 2,085 3,625
Total	14,085	260	17,484	8,992

Percentage of applicants placed 62.7.

TABLE NO. 32-THE STATE FREE EMPLOYMENT BUREAU. Period, July 1, 1916, to June 30, 1917.

Number of Male Applicants for Employment, Renewals, Kind of Job. Wanted, also Number and Kind of Positions Offered, and Number and Kind of Jobs Filled.

Occupations	Applications for Employment	Renewals	Applications for Help	Positions Filled
Bookkeeper	3			211
Bricklayers	2	1	**********	
Carpenters	10	-1	6	
Cement workers	14	2	. 0	0
Chauffeurs	2		*********	A CONTRACTOR OF THE PARTY OF TH
Clerks	13	3	1	1
Cooks	3	*********	1	
Distributors	2	1	**********	
Drill pressmen	4			
Draftsmen	2 2			
Electricians	2	2	**********	
Elevatormen	3			
Engineers	11	2	1	
Factory hands	4	**********		
Farm hands	821	144	987	398
Firemen	13	2	- 1	4
Janitors	8		*********	
Kitchenwork	2		**********	
Laborers	419	59	1,401	429
Machinists	4	*******	10	*******
Machinist helpers	7		**********	
Molders	*******	**********	10	
Motormen	2			******
Office work	19	*********	- 2	
Painters	3	- 2	**********	
Plumbers	.2		**********	*********
Printers	*********	********	-	
Salesmen	*	2	- 8	
Shoeworkers		****	8	*********
Stenographers	6	0.00		
Teachers	2	********	***********	
Teamsters	6	1	99	99
Tile ditchers	40	3	23	24
Watchmen	5	- 4		*********
Woodworkers	23	10	9	1
Miscellaneous	23	10	0	190
Total	1.468	257	2.481	N/00

TABLE NO. 33-THE STATE FREE EMPLOYMENT BUREAU.

July 1, 1916, to June 30, 1917.

Number of Female Applicants for Employment, Renewals, Kind of Positions Offered, and Number and Kind of Jobs Filled,

Occupations	Applications for Employment	Repewals	Applications for Help	Positions Filled
Bookkeepers	5 2	5	1	1
lerks ooks	2		2	1
Day workers	3	1	98	10
IousekeepersIouseworkers	38		5	
fotel help	4.	2	3	1
Vurses	1 10	1		
Office work	2	1	1	1
feamstress		1	1	
Stenographers	14	6	2	
Ceachers Vaitremen	2			
discellaneous	6		7	3
Total	109	28	59	26

TABLE NO. 34-STATE-FEDERAL EMPLOYMENT BUREAU,

July 1, 1917, to June 30, 1918.

Number of Male Applicants for Employment, Renewals, Kind of Job Wanted, also Number and Kind of Positions Offered, and Number and Kind of Jobs Filled.

Occupations	Applications for Employment	Renewals	Applications for Help	Positions Filled
pprentices	3			100
ttendants	5		. 3	23
uto mechanics	15	***********	12	2
akers	10	***********	10	7
lacksmiths	10 -		7	
ell boys	10 .		- 3	1
ookkeepers	7.5		97	47
oys	107		100	57
rakemen, railway	30		48	740
ricklayers	Δ.		3	
rickmalors	3		1	1000
utchers packing house	10		150	
abinet makers	7		10	200
arpentera	419		1,000	119
ar repairers	38		45	3
ement finishers	10		20	(4)
ement workers	- 31		15	187
hauffeurs	60		20	12
igar makers	- 5		36	120
Serical workers	169	4	150	10%
lerks	25	2217 Table 201	13	
oal miners	47	1:	335	16
ooks	29	3	64	32
ranemen	10		20	10
Dishwashers	114	3	142	71
Oitchers	69:	**********	168	122
orill pressmen	53	*********	80	15
Dectricians	27		46	- 5
levator operators	18		16	90
actory workers	27	**********	12	- 6
arm hands	281	2	414	200
Tremen	3,465	139	4,721	2,770
lorists	46	2	34	31
orm builders	24	*********	47	320
ardeners	34	*********	15	-
landy men		********	176	. 44
clasiers	138		110	36.
lotel workers	100	*******	114	52
amilters.	40 %	1 5	60	24
athers	- 5		100	
	4,753	71	2,331	3,440
addidry workers	-5		5	- 7107
Inemen	- 6	2010/05/2000	- 6	2
fachinists	112		1.007	32
tachinista helpera	107		120	63
Laching woodworkers	10		40	1
fachine operators			300	8
fillmen	15	*********	17	- 5
folders	23		150 '	7.
office boys	15		4	
unters	62		-50	31
Tumbers	29	1	13	- 6
orters	28	1	36	19
resmen	10			1/2/

TABLE 34—Continued. July 1, 1917, to June 30, 1918.

Number of Male Applicants for employment, renewals, kind of job wanted, also number and kind of position offered, and number and kind of jobs filled.

Occupations	Applications for Employment	Renewala	Applications for Help	Positions Filled
Salesmen	17		14	
Sheet metal workers	18		- 8	8
Shoe makers	5		4	2
Solicitors	7	2441244444	**********	
Stenographers	12	**********	4	
Steward	- 5		2	1
Structural fron workers	12		4	********
Switchmen	4		D.	2
l'ailors	10		8	4
l'eamsters	265	The state of the state of	310	105
Tile setters	20 14	**********	20	10
Fractor operators Fruckers, railway	40		70	100
Pruck drivers			40	16
Walters	44		37	13
Watchmen		***********	8	
Well drillers	1		1	1
Wood choppers	5		197	2
Wood workers	. 5		69	********
Miscellaneous	140	7	180	75
Total	11.568	244	13,149	7,658

TABLE NO. 35. STATE FEDERAL EMPLOYMENT BUREAU. July 1, 1917, to June 30, 1918.

Number of female applicants for employment, renewals, kind of positions offered, and number and kind of jobs filled.

Occupations	Applications for Employment	Renewals	Applications for Help	Positions Filled
Attendants	5		5	100
Bookkeepers	21		28	14
Chambermaids	29		22	18
Cherry pickers	10		15	7
lircular folders	10	100000000000000000000000000000000000000	10	6
Clerical workers	412	3	726	235
300ks	65	1	67	31
Day workers	412	1	600	200
Dishwashers	98		163	40
Domestics	400		844	297
actory workers	208	1	376	102
arm workers	-31	Jacob Commence	25	19
Tousekeepers	208	7000	385	103
Tousemaids	56		83	31
fotel workers	92		237	44
anitress	7.	1	10	3
aundry workers	18		73	5
dillinery trimmer	2		1	1
Nurses	9		6	2
Nursemaids	29		45	14
'hotographer	2		1	1
Professional	33		68	17
Reporters	2		1	1
salesladies	33		56	17
scamstresses	24		46	13
sewing machine operators	53	*********	42	19
Solicitors	3		2	1
stenographers	88	1	65	23
l'eachers	. 12		6	. 3
Waltresses	107		261	47
Miscellaneous	32	***********	57	19
Total	2.517	16	4,335	1,334

PRIVATE EMPLOYMENT BUREAUS.

We have information covering 30 fee offices and 12 non-fee offices, the latter comprising Y, M. C. A.'s, Y. W. C. A.'s, typewriter companies, etc. In Iowa the cities and towns are given the right of licensing and regulating all private employment bureaus. Eighteen of the fee offices are licensed; the non-fee offices have not been licensed because their service is in the nature of welfare work.

Though the law requires an investigation of private employment bureaus by the Bureau of Labor, it does not require complete records of all business transactions and we therefore have considerable difficulty in securing complete reports on some of the offices. At least 20 per cent of the offices have no record of number of applications. There were 36,846 applications for employment filed at the fee offices (without six offices that had no record).

The Iowa law requires that if the employment agency fails to provide within a reasonable time, acceptable employment as agreed upon, then upon demand all fees charged must be rurned, except an amount not to exceed one dollar to be charged as a filing fee. Table No. 36 shows that 1,605 fees were returned. The amount of fees charged varies from 25c up to \$10.00; some of the offices charge percentages, from 12½% to 25% for first month, up to 5% for first year. The higher fees are of course for good office positions and other skilled work. In the fee offices, our records show that 23,487 persons were furnished employment.

In the non-fee offices, there were 4,984 applications, and 4636 placements. Detailed information is given in Tables 36 and 37 which follow.

By the close of the year 1918, because of the competition of the free offices, a great number of the fee offices went out of business. Many of those still in existence had a decidedly decreased volume of business, and in Sioux City, where the private employment bureaus had been doing a business equal if not exceeding that of all the other fee agencies in the state, the chamber of commerce and similar institutions had secured from the city council a repeal of the licenses for fee employment bureaus, which resulted in practically eliminating fee agencies in that city.

TAPLE NO. 36. PRIVATE EMPLOYMENT BUREAUS

	Bureau	ZNNNNN ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	
Carnings	Rate	京の資 5 第	
r Cent of	Period	184 mo. 184 m. 184 m. 184 mo. 184 mo. 184 mo.	
Agreement Includes Per Cent of Earnings	Conditions	13) % Yrefreedonad 25% mg 25%	
Contract Time for	Return of Fees	on demand on demand on demand on demand on demand on demand on demand on demand on demand on demand	
Number	of Fees Returned	3.95 42.05 4	1,605
Orienal Pos	Charged	11.00 for \$2.00 11.00 to \$2.50 11.00 to \$2.50 11.00 to \$2.50 11.00 to \$2.50 11.00 to \$2.50 11.00 to \$2.50 11.00 to \$2.50 12.00 to \$2.00 12.00 to \$2.00 13.00 to \$2.00 14.00 to \$2.00 15.00 to \$2.0	
Number	Supplied Employment	1,007 828 828 828 1,400 1,400 1,400 1,000	23,487
Number of	Applications	1,700 1,700 1,700 1,700 1,800	36,846
and a	Number	~ 88846678061884757780818848858888	

TABLE NO. 37-NON-FEE OFFICES.

Non-fee Employment Offices Investigated, Number of Applicants and Number Supplied Employment, 1917.

Office Number	Number of Applicants	Number Furnished Employment	Nature of Society	Licenses
1 2 3 4 5 6 7 8 9 10 11 12	1,159 1,500 no record 450 no record no record 150 150 150 175 700 200	925 1,000 1,032 327 80 record 80 record 90 83 79 160 650 180	Y. M. C. A. Pablic Welfare Salvation Army Farm Bureau Y. W. C. A. Y. M. C. A. Y. M. C. A. Y. M. C. A. Y. M. C. A. Y. W. C. A. Typerwiter Company Farm Bureau Commercial Club.	No. No. No. No. No. No. No. No. No. No.

INDEX

ARBITRATION AND CONCILIATION—	te
How Boards of Arbitration are formed, effect of decision, etc	89 90 95 99
Special mention:	
	7
	6
Manufactures statistics	15
State Free Employment Bureau, growth of	9
Expense of Bureau of Labor Statistica	20
Recommendations for legislation:	
Administration and needs Factory inspection laws, changes suggested. Boiler inspection. Building code and inspection. Lighting of factories, shops, etc. Modern method for regulating safety, health and welfare of employes Section 4999-al, water closets and washing facilities. Ventilation and sanitation.	11 13 12 14 14
Other changes: *	
Child labor law	15
Housing of workers	
Private employment bureaus. Personnel of department, compared with growth of industry. Increase of force needed	
CHILD LABOR—	
General provisions of the child labor law	
Work permits filed at office:	
Table 9, School grades, sex age and locality of children receiving work permits	02

215

CHILD LABOR—Continued.	
Height and weight of children:	LABOR ORGANIZATIONS-
Table 10, Giving height and weight of children by age, sex and locality. Average height and weight. Comparative development of Iowa boys and girls. 100 Table 11, Correlated height and weight of Iowa boys and girls. 111 Normal child, the. 28 Working children, special investigation of:	Analysis Labor legislation urged
Analysis	MANUFACTURES STATISTICS-
Education:	
School grades when leaving school to work, by sex	Analysis 21 Comparison of statistics with U. S. census 22, 23, 28 Comparison, by industries, of lowa manufactures production for 1315 and 1317. 29 Comparison by counties, of lowa manufactures production for 1315 and 1317. 30 Rank of 30 leading counties of lowa, in capital, stocks and materials used, total product, wage-carners and wages paid. 33
Table 13, Children, by size of family	Rank or relative value of leading industries based on the fol- lowing:
Wages and economic or home owning conditions—father	Capital invested
Work children were engaged in:	Wage-earners, number employed in greatest month 35 Wage-earners, greatest average number of women 15
Jobs, when and how found	Wage-earners, number of women exceeds number of men
Analysis II	PRIVATE EMPLOYMENT BUREAUS—
Prosecutions ,	Analysis
Table 8, Number of employes in plants inspected in each industry, by	For officer:
sex and age	Table 38, Number of employment offices charging fee, number se- curing employment, rate of fee and conditions, for year 1917,211
FARM LABOR—	Non-fee offices:
Analysis Table 21, Comparative wages by counties for farm labor during 1918, 1911, 1912, 1913, 1915, 1916 and 1917.	Table 37, Number of applicants, number furnished employment, nature of society, for year 1917

T	ATE-FEDERAL FREE EMPLOYMENT OFFICE-
	A no levels Page
	Analysis Table 30, State Pree Employment Bureau, showing by months the number of applications from employers, applications for werk, placements, etc. for year ending June 30, 1875
	Table 31 State-Federal Employment Business 1811
	filled for year anding Type 20 tags
	tions for year anding Tune to total
	nations for year anding tune 20 the niled, etc., by oces.
	tions for year anding Tune to this miled, etc., by occupa-
	Table 35, Female applicants for work, positions filled, etc., by occupations for year ending June 30, 1919

STATE OF IOWA

REPORT OF THE

Workmen's Compensation Service

For the Biennial Period Ending June 30, 1918

AND

DIGEST OF DECISIONS

By the Department and State Courts

A. B. FUNK

Industrial Commissioner

Published by THE STATE OF IOWA Des Mo.nes