

State of Iowa
1920

CHILD LABOR

Analysis of Work Permits Issued During Biennium
Ending June 30, 1920

Bulletin No. 4

Issued by the
Bureau of Labor Statistics
A. L. URICK, Commissioner
JOHN E. NORDSKOG, Statistician

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The child labor statistics submitted for biennial period July 1, 1918 to June 30, 1920 are based on data given in the work permits issued, which, according to law, "shall give the name, sex, the date and place of birth and the residence of the child in whose name it is issued, describe the color of the hair and eyes, give his height and weight and shall contain a statement of the proof of age accepted, the school grade completed, shall describe the work for which the permit is issued; it shall further certify that the papers required for its issuance have been duly examined, approved and filed and that the person named therein has personally appeared before the officer issuing the permit and has been examined. A work permit shall be issued for every position obtained by a child between the ages of fourteen and sixteen years."

The law provides 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 and not exceeding 40 hours per week during part-time school term, 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 determine whether the occupation is one in which the child is entitled to work, whether the child has an education equivalent to six yearly grades in reading, writing, spelling, English, language, geography and arithmetic; there is also required "a certificate signed by a medical inspector of schools or if there be no such inspector then by a physician ap-

pointed 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;" and finally, 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.

Among other provisions for protection of children in industry, the law also prohibits their employment 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 depraved, 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 messages between 10 p. m. and 5 a. m.

The street trade provision of the law applies only to cities having a population over 10,000. Boys under 11 years of age and girls under 18 years of age cannot engage in the street trades; boys between 11 and 16 years of age 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. The requirements concerning the issue of street trade badges are that the boy shall comply with all the requirements for issuance of work permits except the filing of an employers' agreement, and with the further exception that the school record required shall certify only that the boy is regularly attending school and that the work in which he wishes to engage will not interfere with his progress at school.

The above items give some of the most important provisions of the Iowa child labor law, and it will be noticed that without purposely making work permit requirements too stringent as to be prohibitive, the prevailing idea is to protect the child in the matter of health and education, and to check so far as possible

undue licence in employment of children for the benefit of parents or employers.

Only one change has been made in the child labor law since its enactment by the 36th General Assembly in 1915; that is the amendment to section 2477-c by the 38th General Assembly, whereby the hour limitation that children shall not be employed more than eight hours in any one day, exclusive of the noon hour intermission, nor more than forty-eight hours in any one week, is amended as follows: "provided that whenever in any organized school district there shall have been established a part-time school, department or class, no person under sixteen years of age shall be employed for more than forty hours in any one week."

During the first year of the operation of the law (July 4, 1915 to June 30, 1916), 1,522 work permits were issued; during the biennial period July 1, 1916 to June 30, 1918, 4,913 work permits were issued; and during the biennial period just completed, July 1, 1918 to June 30, 1920, 7,469 permits were issued. This shows a great increase in the employment of child labor. However, active enforcement of the law has resulted in improved conditions for employment of children, and mere increase in number of permits issued should not be misinterpreted as indicating laxity in law enforcement or a graver child labor situation. As indicated in our 1919 Manufactures Statistics, there has been a considerable growth in number of men, women and children employes in factories, in fact, the growth of employment in Iowa industries has been steady during the biennial period, and the number of children in industry has increased along with adult employes. But it is reasonable to assume that, because of the needs of the family during the period of high prices for necessities of life, there has been a much larger number of children between 14 and 16 years of age who entered industry to be self-supporting or to help the family purse; and the industries, on account of the higher wage demands of adult employes, have undoubtedly employed minors under sixteen where such an arrangement would apparently lead to economy without too obvious a sacrifice of efficiency.

The Iowa child labor situation is thus controlled by provisions for a minimum age of fourteen for entrance into certain stipulated industries or occupations; for a certain minimum

amount of education; for physical examination by a physician to determine physical ability to perform the work contemplated, and the normal development is supposed to have been reached by the child; and a careful method of ascertaining evidence of age of the child. Although the law provides for physical examination of children desiring work permits by a medical inspector of schools or if there be no such inspector then by a physician appointed by the school board, there is no provision of law authorizing school boards to expend money in payment for physicians' services. The board may legally hire and pay for services of dentists and nurses, but in case of physicians are directed to hire under the provisions of the child labor law but they have no authority to pay for services. As a result of this condition there is practically no compliance with this requirement of the child labor law.

There is a tendency to make child labor requirements more stringent than as provided in the laws of most of the states, as will be shown in the following data taken from report of a committee appointed by the U. S. Childrens' Bureau, December, 1919, to formulate standards of normal development and sound health for the use of physicians in examining children entering employment and children at work. The suggested standards and requirements for physical examination in relation to issuance of work permits are given in greater detail and with wider scope than observed in general practice so far, and the following quoted excerpts show the drift of thought on the subject:

"The age minimum for entrance into industry should not be younger than sixteen years, so that the child will be protected from the strain of industry during the period of pubescence; and no child under eighteen years of age shall be permitted to go to work who is not of normal development for his age, of sound health and physically fit for the work at which he is to be employed. Physical fitness of children entering industry should be determined by means of a thorough physical examination of the nude body; and all employed children up to the age of eighteen should have at least a yearly physical examination made by a public medical officer duly appointed for this purpose, such examinations to take place either in the certificate issuing office or in the establishment in which the child is employed.

"A certificate should be refused to children who do not come up to the following minimum standards of height and weight for specified age, which are based on the most reliable experience and present day practice :

Age	Weight (in clothing)*	Height
14 years -----	80 lbs.	58 inches
15 years -----	85 lbs.	58 inches
16 years -----	90 lbs.	59 inches

Note.—*When children are weighed stripped, not more than five pounds should be allowed for clothing.

Special Note: While the committee recognizes that girls of sixteen are lighter in weight than boys of like age, it presents but one standard. This is for the purpose of giving greater protection to girls who are to be regarded as more vulnerable at this period. Certificates should be refused to children who do not show unmistakable signs of adolescence.

"Certificates should be refused permanently to all children who have the following defects, such as: (1) Cardiac disease, with broken compensation. (2) Pulmonary tuberculosis or other evidence of serious pulmonary disease. (3) Active glandular tuberculosis. (4) Active tuberculosis or syphilitic disease of joint bones. (5) Irremediable defective vision. (6) Total deafness. (7) Trachoma. (8) Serious Orthopedic defects. (9) Malnutrition equivalent to grade four in the Dunfermline scale. (10) Chorea. (11) Syphilides. (12) Hyperthyroidism. All children who are permanently refused employment certificate because of the above physical defects should be referred to some appropriate person or agency for whatever medical or other assistance is needed.

"Certificates should be refused to all children pending correction of all serious remediable defects, such as: (1) Defective vision subject to correction by glasses. (2) Contagious eye and skin disease. (3) Defective teeth; extraction or treatment and prophylactic care needed. (4) Malnutrition equivalent to grade three of the Dunfermline scale. (5) Untreated hernia. (6) Diseased tonsils. (7) Defective nasal breathing requiring correction, causing complete occlusion of the nostrils. As soon as proper medical treatment has been secured for the child, the employment certificate may be issued. All children who, because of their physical condition, or because of their family or

previous history, show a tendency to weakness or disease of any organ, should be excluded from occupations which would tend to aggravate that tendency."

If the standards of Iowa and most of the other states be compared with the above quoted standards as proposed by the committee of the United States Children's Bureau, a great disparity is evident between laws now enforced and the changes proposed.

ANALYSIS OF TABULATIONS.

Height and weight measurements of children, so far as this Bureau was able to ascertain, were made without removal of shoes or clothing, and therefore the shoes give an error in net height of from $\frac{3}{4}$ to 1 inch for boys and from $1\frac{1}{2}$ to 2 inches for girls. For the average weight of clothes, Bowditch in the 8th annual report of the State Board of Health of Massachusetts gives, as the weight of clothes of boys at 14 years, 8.09 pounds; of boys at 15 years of age, 8.08 pounds; of girls at 14 years, 7.54 pounds; of girls at 15 years, 7.85 pounds. The committee of the U. S. Children's Bureau suggests that when children are weighed stripped, not more than five pounds should be allowed for clothing. If such allowances are kept in mind while comparing heights and weights of boys and girls as submitted in the following tables, the information will not mislead as to respective net development of the sexes.

The statistics which follow were secured from 7,469 work permits issued during the biennial period to 4,832 boys and 2,637 girls, and these have been tabulated and classified so as to show the number, by age, school grade, height and weight, for twenty-nine cities of the state besides a few towns combined into a miscellaneous group. The number of boys and girls divided into half-year and yearly groups, is as follows:

Age	Boys	Girls
14 to 14½ years.....	1,223	574
14½ to 15 years.....	1,292	731
15 to 15½ years.....	1,322	679
15½ to 16 years.....	995	653
14 to 15 years.....	2,515	1,305
15 to 16 years.....	2,317	1,332
Total, 14 to 16 years.....	4,832	2,637

The two following tables are a summary of the school grade classification of boys and girls to whom work permits were issued. For the sixth, seventh and eighth grades, there are "B" and "A" divisions: the "B" grade is the first half and the "A" grade the last half of the school year. In all analytical and general tables which follow, the classification "Ungraded" includes all reports in which school grade was not reported, also a number for which school grade was under sixth-B, to whom work permits were issued because in some instances the children were plainly subnormal and their staying in school could have served no good purpose.

SUMMARY OF SCHOOL GRADE CLASSIFICATION.

Age	Un-graded	6th-B Grade	6th-A Grade	7th-B Grade	7th-A Grade	8th-B Grade	8th-A Grade	1st High	2nd High	3rd High	4th High	Totals
Boys—												
14 to 14½ years.....	79	33	196	122	244	122	279	127	19	2	-----	1,223
14½ to 15 years.....	58	28	188	102	250	122	204	200	46	4	-----	1,292
15 to 15½ years.....	49	23	181	100	231	134	299	239	61	5	-----	1,322
15½ to 16 years.....	46	6	144	62	159	76	231	180	70	18	3	965
14 to 15 years.....	137	61	384	224	494	244	573	327	65	6	-----	2,515
15 to 16 years.....	95	29	325	162	390	210	530	419	131	23	3	2,317
Boys, total.....	232	90	709	386	884	454	1,103	746	196	29	3	4,832
Girls—												
14 to 14½ years.....	30	14	84	33	108	70	162	59	13	1	-----	574
14½ to 15 years.....	23	14	72	54	107	52	209	150	34	6	-----	731
15 to 15½ years.....	26	11	76	34	96	77	178	127	45	8	1	679
15½ to 16 years.....	23	8	69	29	75	49	167	138	72	20	3	653
14 to 15 years.....	63	28	156	87	215	122	371	209	47	7	-----	1,305
15 to 16 years.....	49	19	145	63	171	126	345	265	117	28	4	1,332
Girls, total.....	112	47	301	150	386	248	716	474	164	35	4	2,637
Grand total, both sexes.....	344	137	1,010	536	1,270	702	1,819	1,220	360	64	7	7,469

NUMBER AND PERCENTAGE OF BOYS AND GIRLS ACCORDING
TO GRADE CLASSIFICATION, FOR AGES 14, 15, AND
14 TO 16 YEARS.

Boys and Girls by School Grade	Age 14 to 15 Years		Age 15 to 16 Years		(Total) Age 14 to 16 Years	
	Number	Per Cent	Number	Per Cent	Number	Per Cent
	Boys, total number of.....	2,515	100.00%	2,317	100.00%	4,832
Boys, Ungraded	137	5.45	95	4.10	232	4.80
" 6th-B grade	61	2.43	29	1.25	90	1.86
" 7th-A grade	384	15.27	325	14.03	709	14.67
" 7th-B grade	224	8.91	162	7.00	386	7.99
" 8th-A grade	494	19.64	390	16.83	884	18.29
" 8th-B grade	244	9.70	210	9.06	454	9.40
" 1st high	573	22.78	530	22.87	1,103	22.83
" 2nd high	327	13.00	419	18.08	746	15.44
" 3rd high	65	2.58	131	5.65	196	4.06
" 4th high	6	0.24	23	1.00	29	0.60
"	---	---	3	0.13	3	0.06
Girls, total number of.....	1,305	100.00%	1,332	100.00%	2,637	100.00%
Girls, Ungraded	63	4.83	49	3.68	112	4.25
" 6th-B grade	28	2.15	19	1.43	47	1.78
" 7th-A grade	156	11.95	145	10.89	301	11.41
" 7th-B grade	87	6.67	63	4.73	150	5.69
" 8th-A grade	215	16.47	171	12.84	386	14.64
" 8th-B grade	122	9.35	126	9.46	248	9.40
" 1st high	371	28.43	345	25.90	716	27.15
" 2nd high	209	16.01	265	19.89	474	17.98
" 3rd high	47	3.60	117	8.78	164	6.22
" 4th high	7	0.54	28	2.10	35	1.33
"	---	---	4	0.30	4	0.15

It will be noticed in both of the analytical summaries given above, that the "B" division, or first half of the school year, contains a much smaller number of percentage of boys and girls than does the "A", or second half year of the sixth, seventh and eighth grades. This is equally true in the half-year and whole year groups of children. Of boys 14 to 14½ years of age, 33 were in 6th-B and 196 in 6th-A grade; 122 were in 7th-B and 244 in 7th-A grade; 122 in 8th-B and 279 in 8th-A grade; 127 were in first high, 19 in second and 2 in third high. Boys and girls, for each of the half and whole year divisions, can be read off in the same manner. A glance at the table and summary leads to the impression that the majority of children requesting work permits have waited until the end of their school grade. Furthermore, the Iowa compulsory education law requires that children must go to school until sixteen years of age, unless the child is over the age of fourteen and regularly employed, or has educational qualifications equal to those of pupils who have completed the eighth grade; or who is excused for sufficient rea-

sons by any court of record or judge thereof; or while attending religious service or receiving religious instructions.

The summary for boys and girls fourteen and fifteen years of age, giving the percentages for each school grade division, shows clearly the difference between the half grades. Of boys 14 to 15 years of age, 2.43% were in 6th-B and 15.27% in 6th-A grade; 8.91% were in 7th-B and 19.64% in 7th-A grade; 9.70% were in 8th-B and 22.78% in 8th-A grade; 13% were in first year high, 2.58% in second high, and 0.24% in third year high. Of girls for age 14 to 15 years, 2.15% were in 6th-B and 11.95% in 6th-A grade; 6.67% were in 7th-B and 16.47% in 7th-A grade; 9.35% were in 8th-B and 28.43% in 8th-A grade; 16.01% were in first year high, 3.60% in second high, and 0.54% in third high. Similar comparison can be made for both boys and girls in age 15 to 16 years, and for the two years, 14 to 16 combined. The comparison shows that for both sexes the last half of the school year includes several times as many children as the first half; and of special interest, the percentage of girls in the higher grades exceeds the percentage of boys for the same grade. Using the totals given for the two-year period 14 to 16, in 6th-A there were 14.67% of boys and 11.41% of girls; in 7th-A grade there were 18.29 of boys and 14.64% of girls; in 8th-A grade there were 22.83% of boys and 27.15% of girls; in first year high, 15.44% of boys and 17.99% of girls; in second year high, 4.06% of boys and 6.22% of girls. It is obvious that the girls who enter industry have the advantage, though not in great degree, over the boys in the matter of education.

This is also brought out in comparison of boys and girls as to retarded school grade. In the table which follows, it is shown that of children from 14 to 14½ years of age, 996 or 81.43% of the boys of that age were of retarded grade, and 471 or 82.05% of the girls were of retarded grade; of children from 14½ to 15 years, 76.15% of the boys were of retarded grade and 69.49% of the girls were of retarded grade; or children 15 to 15½ years, 91.30% of the boys and 88.11% of the girls were retarded; for age 15½ to 16 years, 86.23% of the boys and 81.91% of the girls were retarded; and for the total, all ages, 83.71% of the boys and 80.13% of the girls were of retarded grade. It therefore is shown that though the percentage of girls exceeds the boys in age 14 to 14½ years, there is a noticeable change in favor of the girls from age 14½ on to sixteen. The following analysis of retarded school grade is self-explanatory.

NUMBER AND PER CENT OF CHILDREN OF RETARDED SCHOOL GRADE, BY AGE AND SEX:
FROM WORK PERMITS ISSUED JULY 1, 1918 TO JUNE 30, 1920.

	14 to 14½ Years	14½ to 15 Years	15 to 15½ Years	15½ to 16 Years	Total for All Ages
Boys—					
Total number receiving work permits.....	1,223	1,292	1,322	995	4,832
Number of retarded school grade.....	996	984	1,207	858	4,045
Percentage of retarded grade.....	81.43%	76.15%	91.30%	86.23%	83.71%
Girls—					
Total number receiving work permits.....	574	731	679	653	2,637
Number of retarded school grade.....	471	508	599	535	2,113
Percentage of retarded grade.....	82.05%	69.49%	88.11%	81.91%	80.13%

In the two tables following, the average heights and weights of Iowa boys and girls to whom work permits were issued, for the given ages, are compared with standards and averages compiled by the following:

Bowditch, from observation of 4,327 boys and 3,681 girls in Boston public schools; Dr. W. Stephenson, averages from British and American Statistics; Frankel and Dublin, for the Metropolitan Life Insurance Company, from observations of 8,020 boys and 6,472 girls in New York City and up-state cities; and the United States Labor Statistics standards. The second comparative table of half-year ages between fourteen and sixteen, contrasts the averages of the Iowa Bureau of Labor with figures recently published by Baldwin, in charge of the Iowa Child Welfare Research Station at Iowa City, Iowa.

In both of these analyses, the Iowa Bureau of Labor figures compare favorably with the other authorities quoted. For age 14 to 15, the Iowa averages 62.15 inches for boys and 62.29 inches for girls, exceed the other standards; for age 15 to 16, the Iowa average 62.83 inches for boys ranks second, being exceeded by Bowditch average of 63.0 inches; and the Iowa average 62.69 inches for girls of this age stands first and considerably higher than the other standards.

Regarding weight, for age 14 to 15 years the Iowa average of 103.05 pounds for boys ranks highest but one, being slightly exceeded by the Frankel and Dublin figure (103.38 pounds) for New York City boys; the Iowa average weight of 106.17 pounds for girls exceeds all of the other standards quoted. For age 15 to 16, the Iowa average of 108.32 pounds for boys ranks third from the highest, Bowditch giving 110.8 pounds and Frankel and Dublin 109.69 pounds; the Iowa weight is above the average of those quoted, however. The weight of Iowa girls, on the other hand, ranks highest of the standards given.

A comparison of the "height-weight coefficients" (the number of pounds per inch), is of equal interest. For age 14 to 15, for boys the Iowa coefficient 1.66 is second to the Frankel and Dublin coefficient 1.68 for New York City boys; for girls age 14 to 15 the Iowa coefficient 1.70 is almost the same as the Frankel and Dublin coefficient (1.71) for New York City girls. For age 15 to 16, the Iowa coefficient 1.72 for boys ranks third out of the six

standards quoted, while the coefficient 1.75 for girls shares first place with the Frankel and Dublin figure, which is 1.75 for New York City girls.

A general view of the situation shows that the average development of Iowa boys who are given work permits when between 14 and 15 years of age, compares strongly and most favorably with other standards representing the nation and other localities in the United States; for age 15 to 16, the Iowa boys show a development just above the average of the standards given. The comparison for girls is more favorable than in the case of the boys, the Iowa girls showing a development as high as any other standard quoted. In the matter of height, both boys and girls of ages 14 to 15 and 15 to 16 either lead or are close to the highest standard; it is in the weight the change occurs; both boys and girls rank high in age 14 to 15, but in age 15 to 16, the Iowa boys take third place while the Iowa girls continue to hold first rank.

In the second comparison, the Bureau of Labor figures represent averages for work permit children, and the Baldwin figures represent what his investigations to date give as the normal development of children. In the table, the development of work permit boys age 14 to 14½ and 14½ to 15 years, exceeds the normal given by Baldwin, but for ages 15 to 15½ and 15½ to 16, the heights, weights and coefficients all are less than Baldwin's norms for boys of those ages. With reference to girls, those between 14 to 14½ and 14½ to 15 years who received work permits exceed Baldwin's norms, but not so much as do the boys of similar ages; and the work permit girls of age 15 to 15½ and 15½ to 16 show a decline from the Baldwin norms, which is more pronounced for the last half of the 15 year group.

In other words, the boys and girls who are 14 but under 15 years of age, and who received work permits, are taller and heavier than the normal development given by Baldwin, but from the age 15 up to 16, the work permit children do not reach the normal average height and weight, with the further difference that boys from 15 to 16 years of age are more below the normal than are the girls.

This information clearly indicates that the boys and girls who begin working at 14 years of age are usually larger and of more

than average or normal development for children of their age; such fact is probably an incentive and an influence for securing employment in spite of youth. The fact that work permit children below age 15 are above normal, and those above age 15 are below normal development, may be explained in part by change of attitude of employers to children below and above the age fifteen. When the child applicant for work is 14 or 14½ years, the employer considers as most important the physical development, and the under-developed child has not an equal chance with the strong, husky boy and girl; later at the age 15 and 15½, the employer, being assured of such age, will consider the age as a satisfactory safeguard and not criticize so closely on the basis of height or weight. Thus the child below normal development, who was refused work at age 14 or 14½, may more readily secure employment when 15 or 15½, his age counteracting largely the effect of subnormal height or weight.

HEIGHTS AND WEIGHTS OF IOWA BOYS AND GIRLS RECEIVING WORK PERMITS FROM JULY 1, 1918 TO JUNE 30, 1920, COMPARED WITH OTHER STANDARD HEIGHTS AND WEIGHTS.

Authority	Average Height (Inches) by Age Classification		Average Weight (Pounds) by Age Classification		Number of Pounds Per Inch	
	14 to 15 Years	15 to 16 Years	14 to 15 Years	15 to 16 Years	Age 14 to 15 Years	Age 15 to 16 Years
Boys—						
Iowa Bureau of Labor, Obs. 4,727 boys.....	62.15	62.83	103.05	108.32	1.66	1.72
Bowditch: (Observations of 4,327 boys in Boston public schools).....	61.0	63.0	99.3	110.8	1.63	1.76
Dr. Wm. Stephenson; averages from British and American Statistics.....	59.60	62.27	93.46	104.90	1.56	1.61
Frankel and Dublin, for Met. Life Ins. Co.						
Obs. 5,393 boys, New York City.....	61.55	62.74	103.38	101.69	1.68	1.75
Obs. 2,627 boys, N. Y. Up-state cities.....	60.90	62.17	98.60	105.09	1.62	1.69
U. S. Labor Statistics.....	59.90	62.30	94.90	107.10	1.58	1.71
Girls—						
Iowa Bureau of Labor, Obs. of 2,577 girls.....	62.29	62.69	106.17	109.68	1.70	1.75
Bowditch: (Observations of 3,681 girls in Boston public schools).....	60.0	61.4	100.3	108.4	1.67	1.71
Dr. Wm. Stephenson; averages from British and American Statistics.....	59.87	61.01	97.56	105.44	1.63	1.73
Frankel and Dublin, for Met. Life Ins. Co.						
Obs. of 4,650 girls, New York City.....	61.19	61.59	104.54	107.57	1.71	1.75
Obs. of 1,822 girls, N. Y. Up-state cities.....	61.46	61.96	102.18	106.90	1.66	1.71
U. S. Labor Statistics.....	59.90	61.10	98.40	106.10	1.60	1.73

AVERAGE HEIGHTS AND WEIGHTS OF IOWA BOYS AND GIRLS RECEIVING WORK PERMITS FROM JULY 1,
1918 TO JUNE 30, 1920.

Compared, by Half Years, With Measuring Scale for Normal Physical Development as Adopted by B. T. Baldwin, in Charge
of Iowa Child Welfare Research Station.

	Age 14 to 14½ Years			Age 14½ to 15 Years			Age 15 to 15½ Years			Age 15½ to 16 Years		
	Height in inches	Weight in pounds	Pounds per inch	Height in inches	Weight in pounds	Pounds per inch	Height in inches	Weight in pounds	Pounds per inch	Height in inches	Weight in pounds	Pounds per inch
Boys—												
Iowa Bureau of Labor— (4,727 boys)-----	61.52	101.65	1.65	62.83	104.04	1.66	62.86	100.31	1.60	62.16	108.37	1.74
Baldwin: Iowa Child Welfare Re- search Station -----	61.0	94.9	1.56	62.2	98.9	1.59	63.7	104.9	1.65	65.1	115.9	1.78
Girls—												
Iowa Bureau of Labor— (2,577 girls)-----	62.07	105.24	1.69	62.45	107.72	1.72	62.68	110.01	1.75	62.91	112.35	1.79
Baldwin: Iowa Child Welfare Re- search Station -----	61.3	102.3	1.67	62.5	105.8	1.69	62.6	110.3	1.76	63.3	115.3	1.82

TABLE SHOWING HOW MANY WORK PERMITS WERE ISSUED
DURING BIENNIAL PERIOD JULY 1, 1918 TO JULY 1, 1920.

Classified by City or Town, Fiscal Year, and Sex.

City or Town	Fiscal Year July 1, 1918 to July 1, 1919		Fiscal Year July 1, 1919 to July 1, 1920	
	Boys	Girls	Boys	Girls
Ames			1	
Atlantic	2		2	1
Audubon	4			
Boone	35	8	3	51
Buffalo	3		3	3
Burlington	91	51	108	74
Cedar Rapids	139	36	157	68
Centerville	6		2	
Charles City			2	
Clarinda	3	1	16	8
Clinton	46	17	52	14
Council Bluffs	53	20	88	18
Davenport	308	142	205	85
Des Moines	496	282	805	506
Dubuque	91	9	15	186
Fairfield	10		11	2
Fort Dodge	29	15	46	19
Fort Madison	9	13	35	33
Grinnell	10	1	10	1
Guttenberg			2	3
Independence			1	2
Iowa City	19	10	3	4
Kellogg			1	
Keokuk	47	12	72	22
La Porte City	8	8	8	2
Lansing			1	
Marengo	7		10	
Marshalltown			19	6
Mason City	68	7	124	33
Montrose			1	
Muscatine	155	161	156	157
Newton	35	5	13	3
Oelwein	8		1	
Oskaloosa	5		10	
Ottumwa	97	15	106	29
Pella	8	10	8	11
Red Oak				3
Roland	4	9		
Sharpsburg	2			
Shellsburg	5			
Shenandoah	7	10	17	15
Sioux City	236	121	324	186
Spencer	3			
Tipton	2	3		
Toledo	23	9	2	
Washington	9	2	11	10
Waterloo	91	31	128	53
Webster City	2		1	
Wilton Junction			4	3
Totals	2,176	1,089	2,691	1,611

Increase in number of work permits issued to boys during last fiscal year, 525; and to girls, 522, for same period.

TABLE NO. 1—WORK PERMITS FOR CHILDREN.
 Number of Children with School Grade completed when work permit was issued, by Sex, Age and Locality.
 PART I—AGES FROM 14 TO 14½ YEARS.

Locality	Boys										Girls													
	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals
Totals.....	79	33	196	122	244	122	279	127	19	2		1223	30	14	84	33	108	70	162	59	13	1		574
Boone.....			1				1					2			2		1		4	1				8
Burlington.....	1	4	9	11	11	12	15	12	2			77	1		3	2	7	1	11	3				28
Cedar Rapids.....	6	5	16	8	15	6	22	7	1			86			3	1	5	2	3	2				16
Clarinda.....			1				2					5			1				2					3
Clinton.....			7		9		5	3				24					1		3					4
Council Bluffs.....	19	3	6	8	6	7	9	2				58	2		4	1	4	3						14
Davenport.....	1	3	13	15	16	21	31	6	1			107			4	4	11	5	15	6				47
Des Moines.....	9	11	46	47	59	36	57	49	6	1		321	10	6	21	14	24	18	33	15	5			146
Dubuque.....	3		5	3	4	8	20	7	2			52	2	3	4	1	15	25	29	8	1			88
Fairfield.....	1						3					5												
Fort Dodge.....	2	1	2	2	3		1					17	1		1				6					3
Fort Madison.....	1	1	3		3	1	2					11	1			3			1					10
Grinnell.....	1				2	1						4												
Iowa City.....				1	1	1	1					4							1	1				3
Keokuk.....	3	2	5		10	3	8					31												5
Laporte City.....					1	1	1					4				1								1
Marengo.....	1		2		3		3					7												
Marshalltown.....	3				3		3	1				10							2					2
Mason City.....	5		4	3	10	2	11	12	2			49			2	1			4	4	1			12
Muscatine.....	2		14	1	13	8	9	8	1			56	6	2	21	1	15	6	15	6	2	1		75
Newton.....			3	1	3		4					11					1							1
Oskaloosa.....	1	1			1							3												
Ottumwa.....	6	1	14	3	6	2	5	4	2			43	1	1	1				1					4
Pella.....			1		2		3					6							5	2	1			9
Shenandoah.....			2		4		4					6			1				3					4
Sioux City.....	14	1	34	18	36	7	36	11	1	1		159	7	1	10	7	9	7	14	8				63
Toledo.....					3		2					5					1		1					2
Washington.....			1		4		2	1				8	1		1		1		1		1			4
Waterloo.....	3		5	1	13	6	18	4				50			3	3	4	3	4	1	1			13
*Miscellaneous.....					2		4					7			1	4			2	2				9

*Including Buffalo, 1 boy seventh A, 3 boys eighth A, 1 girl eighth A; Centerville, 1 boy seventh B, 1 girl sixth A; Kellogg, 1 boy eighth A; Red Oak, 1 girl eighth A; Roland, 1 girl first year high school; Sharpsburg, 1 boy seventh A, 3 girls seventh, 1 girl first year high school; Tipton, 1 girl seventh A.

TABLE NO. 1—WORK PERMITS FOR CHILDREN.

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

PART II—AGES 14½ TO 15 YEARS.

Locality	Boys										Girls													
	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals
Totals.....	58	28	188	102	250	122	294	200	46	4	---	1292	33	14	72	54	107	52	209	150	34	6	---	731
Boone.....	1	---	1	---	1	---	2	3	---	---	---	7	1	12	1	---	5	12	6	6	---	---	---	25
Burlington.....	3	---	5	8	4	5	20	7	---	---	---	52	1	2	2	4	2	2	9	2	2	---	---	32
Cedar Rapids.....	---	2	16	8	9	5	28	4	1	---	---	73	---	---	2	---	---	2	7	5	3	---	---	19
Clarinda.....	---	---	---	---	3	1	1	1	---	---	---	5	---	---	1	---	---	2	---	---	---	---	---	1
Clinton.....	2	---	6	1	4	---	7	9	3	1	---	33	---	---	1	---	1	4	1	---	---	---	7	
Council Bluffs.....	---	2	5	2	3	5	4	4	---	---	---	27	1	---	2	---	1	3	2	---	---	---	9	
Davenport.....	3	1	18	18	32	22	39	16	1	---	---	150	2	---	5	3	3	5	25	8	4	---	---	55
Des Moines.....	9	13	39	36	56	36	66	76	17	2	---	350	11	3	16	27	24	26	46	55	12	2	---	222
Dubuque.....	3	---	5	4	6	7	27	8	---	---	---	60	---	1	6	2	13	4	24	13	---	---	---	63
Fairfield.....	1	---	---	---	4	---	---	---	---	---	---	5	---	---	---	---	---	---	---	---	---	---	---	5
Fort Dodge.....	6	1	3	---	5	3	2	1	---	---	---	21	1	1	3	1	2	1	1	---	---	---	---	10
Fort Madison.....	---	---	2	---	5	---	---	---	---	---	---	7	1	2	---	3	---	7	2	1	---	---	16	
Grinnell.....	2	---	---	---	3	3	1	1	---	---	---	9	---	---	---	---	---	1	1	---	---	---	---	1
Iowa City.....	---	---	3	---	2	1	1	1	---	---	---	8	---	---	---	---	1	2	3	---	---	---	---	6
Keokuk.....	4	2	9	1	8	3	8	5	---	---	---	40	---	---	---	1	2	3	---	---	---	---	---	9
Laporte City.....	---	---	---	---	1	1	1	1	---	---	---	4	---	---	---	1	---	---	1	---	---	---	---	2
Marengo.....	---	---	---	---	2	---	3	---	---	---	---	5	---	---	---	---	---	---	---	---	---	---	---	5
Marshalltown.....	---	---	2	2	---	---	---	---	---	---	---	6	---	---	1	---	1	---	---	---	---	---	---	2
Mason City.....	4	1	2	1	9	2	12	11	9	---	---	51	2	---	---	---	---	3	2	---	---	---	---	8
Muscataine.....	---	1	18	---	26	7	12	6	5	---	---	75	8	3	14	5	18	4	20	11	4	---	---	87
Newton.....	1	---	3	1	1	---	3	5	---	---	---	13	---	---	---	---	1	2	---	---	---	---	---	3
Oskaloosa.....	1	---	1	---	---	---	1	1	---	---	---	3	---	---	---	---	---	---	---	---	---	---	---	3
Ottumwa.....	3	1	9	4	12	1	9	7	3	---	---	49	---	---	6	1	5	1	5	---	---	---	---	18
Pella.....	---	---	---	---	1	2	1	1	---	---	---	4	---	---	---	1	---	2	---	---	---	---	---	3
Shenandoah.....	1	---	---	---	2	---	4	1	2	---	---	10	---	---	---	---	---	1	---	1	---	---	---	2
Sioux City.....	8	1	34	7	34	14	32	19	---	1	---	150	4	2	7	9	17	5	26	16	4	1	---	91
Toledo.....	---	---	4	---	1	---	2	---	2	---	---	9	1	---	---	---	---	2	1	---	---	---	---	4
Washington.....	1	---	---	4	---	---	2	1	---	---	---	8	---	---	1	---	3	---	1	---	---	---	---	5
Waterloo.....	4	3	1	8	9	5	6	8	1	---	---	45	---	4	1	4	1	5	7	1	---	---	---	23
*Miscellaneous.....	---	---	2	1	3	1	3	2	---	---	---	12	---	---	---	1	---	3	4	---	---	---	---	8

*Including Ames, 1 boy eighth A; Atlantic, 2 boys sixth A; Audubon, 1 boy first year high school; Buffalo, 2 boys eighth A, 2 girls eighth A; Centerville, 1 boy seventh B, 1 boy seventh A, 1 boy eighth B; Independence, 1 girl first year high school; Oelwein, 1 boy first year high school; Roland, 1 boy seventh A, 1 girl seventh A, 1 girl eighth A, 2 girls first year high school; Spencer 1 boy seventh A; Tinton 1 girl first year high school.

CHILD LABOR

TABLE NO. 1—WORK PERMITS FOR CHILDREN.
 Number of Children with School Grade completed when work permit was issued, by Sex, Age and Locality.
 PART III—AGES 15 TO 15½ YEARS.

Locality	Boys										Girls													
	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals
Totals.....	49	23	181	100	231	134	299	230	61	5	-----	1322	26	11	76	34	96	77	178	127	45	8	1	679
Boone.....	-----	-----	1	-----	-----	-----	5	6	-----	-----	-----	12	1	-----	-----	-----	2	3	1	6	2	-----	-----	15
Burlington.....	2	-----	4	4	7	11	7	7	1	-----	-----	43	2	1	1	1	6	7	14	11	-----	-----	-----	45
Cedar Rapids.....	-----	-----	13	9	6	24	7	1	-----	-----	-----	69	-----	2	3	7	2	9	10	4	2	-----	-----	39
Clarinda.....	-----	-----	-----	1	2	1	1	1	1	-----	-----	7	-----	-----	2	1	1	1	-----	-----	-----	-----	-----	4
Clinton.....	1	1	6	1	4	2	7	1	1	-----	-----	24	-----	-----	-----	-----	1	6	3	-----	-----	-----	-----	12
Council Bluffs.....	3	1	5	2	7	3	10	11	3	-----	-----	45	-----	-----	1	-----	-----	1	4	-----	-----	-----	-----	6
Davenport.....	1	-----	14	21	29	12	41	23	3	-----	-----	144	2	-----	5	2	12	9	29	10	4	-----	-----	73
Des Moines.....	13	11	36	35	53	45	77	81	20	-----	-----	371	5	3	16	10	26	16	52	44	26	1	-----	199
Dubuque.....	2	-----	4	4	12	15	17	10	4	-----	-----	68	3	3	-----	2	4	9	4	1	-----	-----	-----	26
Fairfield.....	-----	-----	3	-----	2	2	1	1	-----	-----	-----	9	-----	-----	-----	-----	1	-----	1	-----	-----	-----	-----	2
Fort Dodge.....	1	2	3	4	1	3	2	4	-----	-----	-----	20	-----	-----	-----	2	1	1	-----	-----	-----	-----	-----	5
Fort Madison.....	-----	-----	2	-----	3	4	3	-----	-----	-----	-----	12	-----	-----	2	-----	5	1	3	3	-----	-----	-----	14
Grinnell.....	-----	-----	-----	-----	-----	1	1	2	-----	-----	-----	4	-----	-----	-----	-----	-----	1	-----	1	-----	-----	-----	1
Iowa City.....	-----	-----	-----	-----	3	-----	1	2	-----	-----	-----	6	-----	-----	-----	-----	-----	-----	3	-----	-----	-----	-----	3
Keokuk.....	1	2	7	1	2	2	2	5	1	-----	-----	23	-----	-----	1	2	3	-----	3	2	-----	-----	-----	11
Laporte City.....	1	1	2	-----	2	-----	1	-----	-----	-----	-----	8	-----	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	1
Marengo.....	-----	-----	-----	-----	3	-----	1	-----	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Marshalltown.....	-----	-----	1	-----	-----	-----	-----	2	-----	-----	-----	3	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1
Mason City.....	6	-----	3	-----	9	-----	9	11	6	2	-----	46	2	-----	-----	-----	-----	4	-----	-----	-----	-----	-----	6
Muscatine.....	5	2	23	2	18	3	19	11	8	1	-----	92	5	1	21	3	3	5	17	10	5	4	1	75
Newton.....	-----	-----	1	-----	3	2	1	2	2	-----	-----	11	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1
Oskaloosa.....	-----	-----	2	-----	-----	-----	2	-----	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Ottumwa.....	2	-----	9	7	16	7	10	7	2	-----	-----	60	1	1	5	-----	5	-----	2	2	-----	-----	-----	16
Pella.....	1	-----	-----	-----	1	-----	1	-----	-----	-----	-----	3	-----	-----	2	-----	2	-----	2	1	-----	-----	-----	7
Shenandoah.....	-----	-----	2	-----	2	-----	1	1	-----	-----	-----	7	1	-----	1	-----	-----	-----	-----	1	-----	-----	-----	4
Sioux City.....	6	2	32	6	32	9	38	24	3	2	-----	154	3	-----	11	4	13	9	18	16	1	2	-----	77
Toledo.....	-----	-----	1	-----	2	-----	1	2	-----	-----	-----	6	-----	-----	1	-----	-----	-----	1	-----	-----	-----	-----	3
Washington.....	-----	-----	1	1	-----	-----	1	-----	-----	-----	-----	3	-----	-----	-----	-----	3	-----	-----	-----	-----	-----	-----	3
Waterloo.....	2	1	4	2	7	7	16	12	3	-----	-----	54	-----	-----	-----	-----	5	2	7	4	2	1	-----	21
*Miscellaneous.....	-----	-----	2	-----	2	3	-----	1	-----	-----	-----	10	-----	-----	-----	4	1	1	3	-----	-----	-----	-----	9

*Including Atlantic, 1 girl, seventh A; Audubon, 1 boy, eighth A, 1 boy sixth A; Buffalo, 1 girl, eighth A; Centerville, 1 boy seventh A; Independence, 1 boy, ungraded; Lansing, 1 boy, first year high school; Red Oak, 1 girl seventh A; Roland, 1 boy, seventh A, 1 girl seventh A, 1 girl eighth A, 3 girls first year high school; Sharpsburg, 1 boy, ungraded; Shellburg, 1 boy eighth A; Spencer, 2 boys eighth B; Tipton, 1 girl seventh A.

TABLE NO. 1—WORK PERMITS FOR CHILDREN.

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

PART IV—AGES 15½ TO 16 YEARS.

Locality	Boys										Girls														
	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals	
Totals.....	46	6	144	62	159	76	231	180	70	18	3	995	23	8	69	29	75	49	167	138	72	20	3	653	
Boone.....												15						5	5					12	
Burlington.....	5		3	2	4	1	10	3			1	31	1		2	3		1	3	7				19	
Cedar Rapids.....	1	1	17	7	10	4	9	13	3			65	1		4	2		1	6	5				24	
Clarinda.....			1	1								2													1
Clinton.....			5	3	4	1	8	1				22			1	1	2				4				8
Council Bluffs.....		2	5	2	2	1	8	2	2			24						1	1		1				4
Davenport.....			11	9	18	6	26	15	3			88	1	1	4	5	5	7	14	11	5		1		55
Des Moines.....	14	1	35	13	33	24	52	70	27	3	1	273	8	4	7	7	22	22	43	57	36	10	1	217	
Dubuque.....	2		1		3	1	11	14				22	1		4	2	2	4	27	6	1			47	
Fairfield.....				1	1							2													2
Fort Dodge.....	3		3		2	7	3	1	1			20	3	2	2	1	1		1	1					11
Fort Madison.....					2	2	2	1				3							3	3	1				8
Grinnell.....							1		1			3													3
Iowa City.....	1					1		2				4								1					1
Keokuk.....	1	1	2	1	5		3	2				15			1			3	2	1	2				9
Laporte City.....									1			2	2												4
Marengo.....				1								1													1
Marshalltown.....													1												1
Mason City.....	6		3		9		9	11	6	2		46	1			2		3	3	3	1				13
Muscatine.....	3		24	6	20	10	14	5	5	4		91			23	4	8	3	11	7	10	4			70
Newton.....					2	2	5	6	2	1		18						1	1	1					3
Oskaloosa.....					2		2	1	1			5													2
Ottumwa.....	4		11	7	5	3	11	1	3	1		46			2	4	1	4	2						13
Pella.....	1				1							2			1			1	1	1					4
Shenandoah.....			1				1					3		3	1			3	5	1					15
Sioux City.....	3	1	4	6	15	8	32	16	7	3		95	4		15	2	7	7	19	10	3	1	1		69
Toledo.....			1					2		1		4													4
Washington.....			1	1			1					3						1							1
Waterloo.....	2		11	2	11	5	11	17	6	3	1	69	1		3	2	8	1	16	4	4	1			40
*Miscellaneous.....			2		2		4	1				9						2	1						4

CHILD LABOR

*Including Audubon, 1 boy sixth A; Charles City, 1 boy eighth A, 1 boy seventh A; Guttenberg, 1 boy eighth A, 1 boy first year high school, 1 girl seventh A, 1 girl eighth A; Independence, 1 girl first year high school; Montrose, 1 boy eighth A; Red Oak, 1 girl eighth A; Roland, 1 boy eighth A; Tipton, 1 boy sixth A, 1 boy seventh A.

TABLE NO. 1—WORK PERMITS FOR CHILDREN.
 Number of Children with School Grade completed when work permit was issued, by Sex, Age and Locality.
 PART V—AGES 14 TO 15 YEARS.

Locality	Boys										Girls														
	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals	
Totals.....	37	61	384	224	494	244	573	327	65	6		2,515	63	28	156	87	215	122	371	209	47	7		1,305	
Boone.....			2		1		3	3				9			3		6		16	7				33	
Burlington.....	4	4	14	19	15	17	35	19	2			129	2	2	5	6	9	3	20	11	2			60	
Cedar Rapids.....	6	7	32	16	24	11	50	11	2			159		5	1	5	2	5	9	5	3			35	
Clarinda.....			1		5	1	1	1				10							2					4	
Clinton.....	2		13	1	13		12	12	3	1		57					2		7	1				11	
Council Bluffs.....	12	5	11	10	11	12	13	6				80	3		6	1	4	4	3	2				23	
Davenport.....	4	4	31	33	48	43	70	22				257			9	7	14	10	40	14	6			102	
Des Moines.....	18	24	85	83	115	72	123	125	23	3		671	21	9	37	41	48	44	79	70	17	2		368	
Dubuque.....	6		10	7	10	15	47	15	2			112	2	4	10	3	22	29	53	21	1			151	
Fairfield.....	2				5		3					10													
Fort Dodge.....	14	2	5	2	8	3	3	1				32	2	1	4	1	2	1	2					13	
Fort Madison.....	1	1	5		1		2					18	1	3			6		13	2	1			26	
Grinnell.....	3				4		1					13							1					1	
Iowa City.....			3	1	3	2	2	1				12					1	1	3	4				9	
Keokuk.....	7	4	14	1	18	6	16	5				71			2	2		5	3					14	
Laporte City.....					2	1	1	1				8					2			1					3
Marengo.....	1		2		5		4					12													
Marshalltown.....	3		2	2	3		5	1				16			1			2						4	
Mason City.....	9	1	6	4	19	4	23	23	11			100				1	2	7	6	1				20	
Muscatine.....	2	1	32	1	39	15	21	14	6			131	14	5	35	6	32	10	35	17	6	1		162	
Newton.....	1		6	2	4		7	5				25					1	1	2					4	
Oskaloosa.....	2	1	1		1							6													
Ottumwa.....	9	2	23	7	18	3	14	11	5			92		1	7	2	5	1	6					22	
Pella.....	1				3		5	1				10			1				7	2	1			12	
Shenandoah.....	1		2		8		1	2				16							4					6	
Sioux City.....	22	2	63	25	70	21	68	30	1	2		369	11	3	17	16	26	12	40	24	4	1		154	
Toledo.....			4		4		4	2				14	1			1		3	3	1				6	
Washington.....	1				8		2	3	1			16	1		2		4		2					9	
Waterloo.....	7	3	6	9	22	11	24	12	1			95			5	1	7	4	9	8	2			36	
Miscellaneous.....			3	1	5	1	7	2				19			1		5	5	6	6				17	

The items of the miscellaneous column can be found in Parts I and II, of Table No. 1.

TABLE NO. 1—WORK PERMITS FOR CHILDREN.
 Number of Children with School Grade completed when work permit was issued, by Sex, Age and Locality.
 PART VI—AGES 15 TO 16 YEARS.

Locality	Boys											Girls												
	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals
Totals.....	95	29	325	162	390	210	530	419	181	23	3	2,317	49	19	145	63	171	126	345	265	117	28	4	1,332
Boone.....			1		2		12	12				27	1		2			3	6	11	4			27
Burlington.....	7		7	6	11	12	17	10	3		1	74	2	2	1	3	9	8	17	18	4			64
Cedar Rapids.....	1	1	30	16	19	10	33	20	4			134	1	2	7	9	7	10	16	9	2			63
Clarinda.....			1	2	2	1	1	1				9			2	1	1	1						5
Clinton.....	1	1	11	4	8	3	15	2	1			46			3	1	3		6	7				20
Council Bluffs.....	3	3	10	4	9	4	18	13	5			69			1			1	5	2	1			10
Davenport.....	1		25	30	47	18	67	38	6			232	3	1	9	7	17	16	43	21	9	1	1	128
Des Moines.....	27	12	71	48	86	69	129	151	47	3	1	644	13	7	23	17	48	38	95	101	62	11	1	416
Dubuque.....	4		5	4	15	16	28	14	4			90	4		4	4	6	13	31	7	1			73
Fairfield.....			3	1	3	2	1					11						1	1					2
Fort Dodge.....	4	2	6	4	3	10	5	5	1			40	3	2	2	3	2	1	1	2				16
Fort Madison.....			4		11	2	6	4				27			2		6	1	6	6	1			22
Grinnell.....			1			1	2	2	1			7							1					1
Iowa City.....	1				3	1	1	4				10							4	4				4
Keokuk.....	2	3	9	2	7	2	5	7				38			2	2	5		6	4	1			20
Laporte City.....	1	1	2		3	1			2			10	2						1		2			5
Marengo.....				1	3		1					5							1					1
Marshalltown.....			1					2				3							1					2
Mason City.....	12		6		18		18	22	12	4		92	3				2		7	3	3	1		19
Muscataine.....	8	2	47	8	33	13	33	16	13	5		183	5	1	44	7	11	8	28	17	15	8	1	145
Newton.....			1		5	4	6	8	4	1		29				1	1	1	1	1				4
Oskaloosa.....			2				2	3	1			9												
Ottumwa.....	6		20	14	21	10	21	8	5	1		106	1	1	7		9	1	6	4				29
Pella.....	2				2		2					6			2	1	2	1	3					11
Shenandoah.....			3		2		2	1	1			9	1		4		2		3	5	2			19
Sioux City.....	9	3	36	12	47	17	70	40	10	5		249	7		26	6	20	16	37	26	4	3	1	146
Toledo.....			2		2		1	4		1		10			1		1			1				3
Washington.....			2		2		2					6						3	1					4
Waterloo.....	4	1	15	4	18	12	27	29	9	3	1	123	1		3	2	13	3	23	8	6	2		61
Miscellaneous.....	2		4		4	3	4	2				19					5		1	3	4			13

The items of the miscellaneous column can be found in Parts III and IV, of Table No. 1.

TABLE NO. 1—WORK PERMITS FOR CHILDREN.
 Number of Children with School Grade completed when work permit was issued, by Sex, Age and Locality.
 PART VII—AGES 14 TO 16 YEARS.

Locality	Boys										Girls													
	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	3rd high	4th high	Totals
Totals.....	232	90	709	386	884	454	1,103	746	196	29	3	4,832	112	47	301	150	386	248	716	474	164	35	4	2,637
Boone.....			3		3		15	15				36					6	3	22	18	4			60
Burlington.....	11	4	21	25	26	29	52	29	5		1	203	4	4	6	9	18	11	37	29	6			124
Cedar Rapids.....	7	8	62	32	43	21	33	31	6			293	1	2	12	16	12	12	21	18	7	3		98
Clarinda.....				2	7		2	2				19			1	1		1						9
Clinton.....	3	1	24	5	21	3	27	14	4	1		103			4	1	5	13	8					31
Council Bluffs.....	15	8	21	14	20	16	31	19	5			149	3		7	1	4	5	6	4	1			33
Davenport.....	5	4	56	63	95	61	137	60	8			489	5	1	18	14	31	26	83	35	15	1	1	230
Des Moines.....	45	36	156	131	201	141	252	276	70	6	1	1,315	34	16	60	58	96	82	174	171	79	13	1	784
Dubuque.....	16		15	11	25	31	75	29	6			202	6	7	14	7	34	42	84	28	2			324
Fairfield.....	2		3	1	8	3	4	1				21					1		3	1				2
Fort Dodge.....	18	4	11	6	11	13	8	6	1			78	5	3	6	4	4	2	3	2	2			29
Fort Madison.....	1	1	9		19	3	8	4				45	1	3	2		12	1	19	8	2			48
Grinnell.....	3		1		5	5	2	3	1			20							1	1				2
Iowa City.....	1		1	1	6	3	3	5				22					1	3	8					13
Keokuk.....	9	7	23	3	25	8	21	12	1			109			4	4	7		11	7	1			34
Laporte City.....	1	1	3	5	2		2	1	3			18					2			1	2			8
Marengo.....	1		2	1	8		5					17							2					
Marshalltown.....	3		3	2	3		5	3				19					1		2					6
Mason City.....	21	1	12	4	37	4	41	23	4			192	5		2		4	14	9	4	1			39
Muscatine.....	16	3	79	9	77	28	54	30	19	5		314	19	6	79	13	44	18	63	34	21	9	1	307
Newton.....	1		7	2	9	4	13	4	1			54					2	3	1					8
Oskaloosa.....	2	1	3		2		2	4	1			15												
Ottumwa.....	15	2	43	21	39	13	35	19	10	1		198	1	2	14	2	14	2	12	4				51
Pella.....	2		1		5		7	1				16			3	1	3	1	10	4	1			23
Shenandoah.....	1		5		4		10	2	3			25	1		5				7	5	3	2		25
Sioux City.....	31	5	104	37	117	38	138	70	11	7		558	18	3	43	22	46	23	77	58	8	4	1	300
Toledo.....			6		6		5	4	2	1		24	1		1				3	2	2			9
Washington.....	1		3		8		4	3	1			22	1		2		4	3	3	2				13
Waterloo.....	11	4	21	13	40	23	51	41	10	3	1	218	1		3	3	20	32	16	8	2			97
Miscellaneous.....	2		7	1	9	4	11	4				38			1		10	1	8	10				30

The items of the miscellaneous column can be found in Parts I, II, III and IV, of Table No. 1.

TABLE NO. 2—HEIGHTS AND WEIGHTS, IOWA CHILDREN.

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

PART I—BOYS 14 TO 15 YEARS.
(Pounds)

Height in Inches	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 to 104	105 to 109	110 to 114	115 to 119	120 to 124	125 to 129	130 to 134	135 to 139	140 to 144	145 to 149	150 to 154	155 to 159	160 to 164	165 to 169	170 to 174	175 to 179	180 to 184	185 to 189	190 to 194	Total cases	Average weight		
48					2	1		1	1																			2	93.50		
49																													3	83.17	
50		1	1						1																				3	79.33	
51				1		1																							3	87.00	
52				2	2																								4	78.50	
53		2	1	1		1	2	2		1	1																		10	88.50	
54		3	10	9	5	2																							25	89.04	
55		3	10	9	5	2																							29	75.12	
56		3	5	16	16	13	7	5	4				2	1															72	84.40	
57		2	5	14	8	16	14	3	1	1	2																		65	88.13	
58	1		2	22	35	38	30	16	2	4	2		1															153	83.47		
59			5	10	17	55	39	34	16	6	3																		185	87.01	
60			1	8	19	50	61	59	51	14	10	8	8																289	99.12	
61				1	8	26	33	44	41	25	12	9	4	1	1		1	1											207	99.27	
62			1	1	4	14	43	50	65	42	28	38	15	10	4	3	1	1											321	97.39	
63		1		4	4	17	38	47	36	52	33	13	4																256	105.68	
64						3	8	33	36	48	64	51	26	13	9	3	1	1			3								304	118.90	
65						2	10	6	22	26	25	21	15	16	7	2	2													154	116.51
66					1		2	2	10	15	14	17	18	26	9	11	5	1	2	3				1					137	118.92	
67							2	3	4	5	6	10	10	13	7	7	3	2												72	125.77
68						1					4	3	9	6	8	11	3			2				1					51	131.11	
69					2				1			2	1	5	8	5	4	1	2	3							1		35	134.63	
70									1			1	3	5	2	1	1	1	2											16	128.94
71						1					1		1		4		1													8	122.50
72							2								1															3	105.33
73			1																											1	112.00
74									1													1								2	130.00
Total cases	1	14	32	90	124	229	264	304	289	219	227	197	137	90	79	50	28	11	8	8	4			2			1	2	2410	102.84	

TABLE NO. 2—HEIGHTS AND WEIGHTS, IOWA CHILDREN.

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

PART II—BOYS 15 TO 16 YEARS.

(Pounds)

Height in Inches	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 to 104	105 to 109	110 to 114	115 to 119	120 to 124	125 to 129	130 to 134	135 to 139	140 to 144	145 to 149	150 to 154	155 to 159	160 to 164	165 to 169	170 to 174	175 to 179	180 to 184	185 to 189	195 to 199	Total cases	Average weight
48							1																					1	92.00
49							1	1																				2	93.00
50																												2	91.50
51	1					4	1																					6	82.50
52				1						1																		2	90.00
53							2																					2	91.50
54		2	2	2	2	2	1	1	1																			12	79.71
55			4	4	1	5																						15	80.70
56		1	2	2	12	7	3	2	3		1																	33	85.68
57			1	5	1	5	9	7	1																			29	86.59
58		1	1	9	20	20	23	16	6	4	1																	101	87.86
59				7	10	22	23	23	10	3	4			1		1												104	93.26
60		1		2	16	30	36	57	40	25	19	5	5	3	1					2								242	97.69
61					3	16	31	49	22	15	23	9	8	4	2	1												183	100.10
62				4	10	25	57	47	27	37	23	20	6	2	1	1												260	104.44
63					1	5	8	17	54	49	45	27	21	12	5				2									246	110.31
64			1	1	1	4	11	35	54	53	44	40	20	14	12	3	1											294	111.12
65			1	1	1	3	2	5	14	16	19	24	34	26	15	10	4	4	2									180	118.23
66						2		2	6	15	23	36	28	34	21	17	13	7	2									208	127.41
67							1		6	9	9	20	19	12	11	6	3	2					1	3	1			102	126.60
68					1	1		1		1	5	6	15	10	17	11	6	3	2	1	1			1				82	128.82
69											3	3	7	3	8	8	8	4	1									43	132.53
70							1				4	2	1	6	11	2	1	5	1									40	127.84
71					1		2					1		2	4	3	1						2					20	128.28
72										1					2		1	2	1				1					8	138.88
73															2		1											1	142.00
Total cases	1	5	10	34	73	133	175	251	239	217	244	189	195	14	107	87	48	28	18	4	2	6	2				1	2,218	109.29

TABLE NO. 2—HEIGHTS AND WEIGHTS, IOWA CHILDREN.

relation Between Heights and Weights of Iowa Boys and Girls, Heights in Inches, Weights in 5-lb. Groups.

PART III—GIRLS 14 TO 15 YEARS.

(Pounds)

Height Inches	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 to 104	105 to 109	110 to 114	115 to 119	120 to 124	125 to 129	130 to 134	135 to 139	140 to 144	145 to 149	150 to 154	155 to 159	160 to 164	165 to 169	170 to 174	175 to 179	180 to 184	185 to 189	190 to 194	Total cases	Average weight		
							1																					1	92.00		
							1			1			1																3	105.83	
						3	2		3																				3	102.16	
							2					1																	6	92.83	
	2		1		2	1	1		1																				8	81.00	
				3	2	2	1		1																				13	95.23	
				5	4	2	4		3																				11	87.27	
				3	5	4	3		3						1														25	92.54	
				5	7	10	11		6																				60	90.34	
				3	6	26	23		31		20		15		8														143	96.47	
				5	9	17	32		32		17		16		17														138	101.93	
				3	6	9	19		32		49		32		31		22		12										224	106.12	
				1	5	7	30		33		43		19		29		18		13										212	109.51	
					4	9	12		28		29		28		27		10		10											184	111.02
					1	1	5		12		7		15		9		11		7											87	116.11
							1		8		8		10		9		5		5											56	116.86
									1				7		3		3		3											19	119.89
							1						2		3		1		3											11	116.36
												1			1															6	120.17
															1															2	118.50
Cases	2	1	4	18	33	72	100	155	185	157	143	123	71	58	35	14	12	7	9	4	2	2					1	1	1,212	105.81	

CHILD LABOR

TABLE NO. 2—HEIGHTS AND WEIGHTS, IOWA CHILDREN.
 Correlation Between Heights and Weights of Iowa Boys and Girls, Heights in Inches, Weights in 5-lb. Groups.
 PART IV—GIRLS 15 TO 16 YEARS.
 (Pounds)

Height in Inches	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 to 104	105 to 109	110 to 114	115 to 119	120 to 124	125 to 129	130 to 134	135 to 139	140 to 144	145 to 149	150 to 154	155 to 159	160 to 164	165 to 169	170 to 174	175 to 179	180 to 184	185 to 189	205 to 209	Total cases	Average weight	
50								1																				1	98.60	
51											1																		2	95.00
52																														
53																														
54												1																	3	103.50
55					1							1	1																3	106.50
56			1						2	1																			4	95.25
57	1			1							1																		6	85.17
58				1								1																	23	95.20
59			2	8																									45	94.90
60																													130	102.23
61					11	9	10	30	24	11	17	6	5	3		1	1											153	104.30	
62			2		7	9	8	23	27	42	33	21	19	24	8	13	3	4										225	100.95	
63				1	3	5	4	24	41	31	43	23	24	18	12	4												234	107.28	
64					2	1	7	16	42	25	33	35	15	12	16	4	2	4	2									216	112.27	
65				2				1	8	12	12	15	21	14	20	15	5	4	1	1								131	115.66	
66					2			1	2	10	5	13	12	10	9	7	1	2	2	1							3	81	119.60	
67									1	2	6	6	6	4	3	6	1	2	2	1			1				1	40	127.56	
68				1																									12	126.67
69										2	2		2	2	1	2	2	2	1										14	139.04
70										2	1			1															6	132.58
71																1													1	135.00
Total cases	1		5	14	27	45	60	143	213	159	175	142	114	83	70	29	17	12	7	1	3	2	1		3	3	1	1,330	108.10	

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS.

Heights and Weights of Boys and Girls Granted Work Permits July 1, 1918, to July 1, 1920, by Locality.

PART I—AGES 14 TO 14½ YEARS.

Locality	Boys				Girls			
	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
The State.....	1,192	61.52	101.65	1.65	582	62.07	105.24	1.69
Boone.....	2	63.50	136.50	2.12	7	60.85	107.28	1.76
Burlington.....	75	61.99	102.80	1.51	27	61.35	104.00	1.69
Cedar Rapids.....	76	60.75	99.93	1.64	18	62.63	109.80	1.77
Clinton.....	20	61.98	104.35	1.68	4	60.63	94.50	1.55
Council Bluffs.....	50	61.11	102.78	1.68	15	61.97	104.33	1.63
Clarinda.....	6	63.17	102.50	1.62	1	62.00	104.00	1.64
Davenport.....	113	61.61	99.41	1.61	44	61.78	105.48	1.71
Des Moines.....	304	61.12	101.62	1.64	136	60.92	104.93	1.62
Dubuque.....	49	61.65	104.03	1.69	78	62.09	103.05	1.64
Fairfield.....	5	56.80	87.80	1.55				
Fort Dodge.....	17	60.65	103.41	1.71	3	63.33	120.67	1.91
Fort Madison.....	9	62.56	102.67	1.64	8	63.31	107.38	1.66
Grinnell.....	4	64.38	98.75	1.53				
Iowa City.....	4	64.00	100.00	1.56	3	63.33	111.00	1.75
Keokuk.....	31	63.00	99.58	1.61	5	65.40	117.30	1.85
Marshalltown.....	10	61.60	104.30	1.69	2	63.00	109.50	1.75
Mason City.....	46	61.52	104.39	1.70	11	60.60	92.50	1.53
Muscatine.....	57	63.21	103.60	1.67	74	62.61	105.68	1.68
Newton.....	9	62.00	98.45	1.59	1	63.00	122.00	1.94
Ottumwa.....	44	62.26	101.91	1.63	3	60.50	120.33	1.81
Pella.....	6	63.58	106.83	1.68	7	61.29	96.00	1.57
Shenandoah.....	5	63.60	117.00	1.84	4	63.50	116.50	1.83
Sioux City.....	160	62.00	100.53	1.61	58	64.07	107.42	1.71
Washington.....	5	62.20	106.60	1.71	4	61.75	101.50	1.64
Waterloo.....	50	62.00	104.06	1.69	12	63.33	119.54	1.89
*Miscellaneous.....	34	62.87	105.90	1.69	7	62.85	94.98	1.52

*Includes 7 boys from Marengo, 5 boys from Toledo, 4 boys from Laporte City, 3 boys each from Buffalo, Oskaloosa and Shellsburg, and one boy each from Ames, Atlantic, Centerville, Kellogg, Oelwein, Roland, Sharpsburg, Spencer and Wilton Junction.

*Includes 2 girls each from Roland and Laporte City and Toledo, and 1 girl from Tipton.

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS.
 Heights and Weights of Boys and Girls Granted Work Permits July 1,
 1918, to July 1, 1920, by Locality.
 PART II—AGES 14½ TO 15 YEARS.

Locality	Boys				Girls			
	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
The State.....	1,274	62.83	104.04	1.66	691	62.45	107.72	1.72
Boone.....	8	61.56	98.87	1.61	24	62.10	111.87	1.80
Burlington.....	49	60.94	90.24	1.48	32	62.26	111.62	1.79
Cedar Rapids.....	80	62.10	105.95	1.70	24	62.77	114.41	1.82
Clinton.....	36	62.27	103.93	1.66	6	62.16	106.00	1.70
Council Bluffs.....	28	62.58	106.90	1.71	9	62.11	110.66	1.45
Clarinda.....	4	66.62	108.50	1.73	3	57.33	90.66	1.58
Davenport.....	153	61.20	99.75	1.62	57	62.81	105.33	1.67
Des Moines.....	343	63.32	102.34	1.61	194	62.18	107.38	1.72
Dubuque.....	54	62.03	102.02	1.64	62	62.15	103.11	1.65
Fairfield.....	6	64.25	106.83	1.66				
Fort Dodge.....	24	61.33	105.14	1.71	8	62.37	114.32	1.83
Fort Madison.....	8	62.81	107.12	1.70	10	64.00	105.20	1.64
Grinnell.....	9	65.05	103.77	1.59	1	64.50	101.00	1.56
Iowa City.....	8	63.00	109.62	1.74	6	64.67	103.33	1.59
Keokuk.....	40	63.57	105.61	1.64	8	63.75	106.93	1.67
Marshalltown.....	6	65.08	103.50	1.59	1	63.50	111.50	1.75
Mason City.....	48	62.68	109.56	1.74	5	60.60	114.00	1.88
Muscatine.....	73	62.13	103.04	1.65	88	62.30	103.39	1.66
Newton.....	11	62.22	111.77	1.79	3	61.33	125.66	2.08
Ottumwa.....	48	62.57	106.77	1.70	17	66.29	106.35	1.60
Pella.....	4	64.25	106.25	1.65	4	61.87	95.25	1.53
Shenandoah.....	10	63.75	119.90	1.88	2	65.50	104.50	1.59
Sioux City.....	137	62.57	104.37	1.66	93	64.99	110.60	1.70
Washington.....	9	63.50	112.33	1.76	4	59.87	104.50	1.74
Waterloo.....	45	63.27	109.75	1.73	15	62.83	108.36	1.70
*Miscellaneous.....	33	63.81	110.41	1.72	15	62.40	111.26	1.81

*Includes 8 boys from Toledo, 5 boys from Marengo, 4 boys each from La-porte City and Oelwein, 3 boys each from Oskaloosa and Wilton Junction, 2 boys from Buffalo and 1 boy each from Atlantic, Audubon, Centerville and Shellsburg.

*Includes 4 girls from Toledo, 2 girls from Laporte City and Buffalo, 3 girls from Roland, 1 each from Guttenberg, Independence, Tipton and Red Oak.

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS.

Heights and Weights of Boys and Girls Granted Work Permits July 1, 1918, to July 1, 1920, by Locality.

PART III—AGES 15 TO 15½ YEARS.

Locality	Boys				Girls			
	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
The State.....	1,223	62.86	100.31	1.60	674	62.68	110.01	1.75
Boone.....	13	65.15	119.54	1.83	13	62.00	114.69	1.66
Burlington.....	43	60.64	103.33	1.70	42	62.86	104.45	1.66
Cedar Rapids.....	68	61.82	105.14	1.70	34	62.43	108.63	1.74
Clinton.....	24	62.79	111.85	1.78	10	62.70	101.25	1.61
Council Bluffs.....	42	62.68	104.52	1.69	6	62.25	105.67	1.69
Clarinda.....	5	60.95	118.60	1.95	2	61.25	99.50	1.62
Davenport.....	141	61.59	103.31	1.68	62	63.42	108.02	1.71
Des Moines.....	313	62.33	107.77	1.73	184	62.69	111.11	1.78
Dubuque.....	60	62.73	102.30	1.63	63	62.29	106.68	1.71
Fairfield.....	6	62.92	99.67	1.58	2	62.50	112.50	1.80
Fort Dodge.....	15	62.40	108.61	1.73	7	63.14	109.74	1.75
Fort Madison.....	12	62.54	110.21	1.72	12	60.17	109.25	1.72
Grinnell.....	3	62.15	114.63	1.83				
Iowa City.....	5	63.20	99.30	1.56	4	63.00	112.25	1.74
Keokuk.....	22	64.69	112.77	1.75	10	63.75	117.20	1.84
Marshalltown.....	2	63.50	91.50	1.44	1	64.00	115.00	1.79
Mason City.....	46	62.84	110.24	1.75	8	62.50	117.25	1.88
Muscatine.....	88	63.01	107.28	1.72	76	64.50	108.32	1.71
Newton.....	10	64.10	103.20	1.61	2	64.50	139.50	2.15
Ottumwa.....	64	62.98	108.02	1.71	10	64.50	114.05	1.77
Pella.....	2	64.00	107.50	1.68	5	60.30	99.40	1.64
Shenandoah.....	8	64.36	115.88	1.80	4	60.38	107.50	1.78
Sioux City.....	146	63.87	109.46	1.73	81	63.46	115.02	1.81
Washington.....	2	66.00	124.00	1.88	3	61.33	93.00	1.51
Waterloo.....	54	63.93	117.37	1.84	21	62.81	117.28	1.87
*Miscellaneous.....	34	62.28	103.30	1.66	12	65.41	106.50	1.71

*Includes 7 boys from Toledo, 6 boys from Laporte City, 4 boys from Marengo, 3 boys from Oskaloosa, 2 boys each from Audubon, Spencer and Oelwein, 1 boy each from Buffalo, Centerville, Independence, Lansing, Roland and Shellsburg, Sharpsburg and Atlantic.

*Includes 3 girls each from Roland and Toledo, 2 girls from Laporte City and 1 girl each from Guttenberg, Tipton, Atlantic and Buffalo.

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS.

Heights and Weights of Boys and Girls Granted Work Permits July 1, 1918, to July 1, 1920, by Locality.

PART IV—AGES 15½ to 16 YEARS.

Locality	Boys				Girls			
	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
The State.....	1,033	62.16	108.37	1.74	680	62.91	112.35	1.79
Boone.....	15	64.00	116.35	1.81	15	62.53	112.33	1.79
Burlington.....	32	64.89	108.67	1.67	24	63.01	101.83	1.61
Cedar Rapids.....	71	62.44	107.57	1.73	26	62.55	112.09	1.79
Clinton.....	23	63.82	112.43	1.76	11	63.40	113.22	1.78
Council Bluffs.....	21	62.85	113.18	1.80	8	61.56	108.63	1.74
Clarinda.....	2	62.00	107.50	1.73	1	65.00	117.00	1.80
Davenport.....	102	62.34	103.87	1.66	59	62.64	107.03	1.70
Des Moines.....	270	63.76	102.54	1.60	215	63.12	111.64	1.76
Dubuque.....	27	62.11	105.66	1.70	43	64.71	106.95	1.65
Fairfield.....	3	65.16	120.00	1.84				
Fort Dodge.....	18	62.72	107.02	1.70	15	63.40	109.60	1.72
Fort Madison.....	15	66.86	111.63	1.66	8	62.37	109.68	1.75
Grinnell.....	3	63.33	113.66	1.79	1	65.00	117.00	1.80
Iowa City.....	5	66.20	117.60	1.76	1	63.00	115.00	1.82
Keokuk.....	25	63.30	110.24	1.73	10	65.00	109.55	1.68
Marshalltown.....	1	58.00	90.00	1.55	1	63.00	75.00	1.19
Mason City.....	43	61.70	108.67	1.59	16	63.18	113.03	1.78
Muscatine.....	85	62.94	107.84	1.71	79	62.38	116.12	1.86
Newton.....	18	62.22	113.88	1.83	2	62.00	125.00	2.01
Ottumwa.....	46	63.69	112.44	1.76	14	63.67	114.85	1.80
Pella.....	4	63.75	96.00	1.50	3	63.83	102.66	1.60
Shenandoah.....	1	64.00	114.00	1.78	15	61.90	107.20	1.73
Sioux City.....	105	64.48	107.29	1.66	66	63.34	111.87	1.76
Washington.....	2	64.00	114.00	1.78				
Waterloo.....	67	64.22	118.95	1.85	36	62.36	111.35	1.78
*Miscellaneous.....	29	63.72	112.50	1.71	11	63.68	113.00	1.77

*Includes 5 boys from Oskaloosa, 4 boys from Toledo, 3 boys each from Webster City and Centerville, 2 boys each from Charles City, Tipton, Guttenberg, Laporte City and Oelwein, 1 each from Audubon, Marengo, Montrose and Roland.

*Includes 4 girls from Laporte City, 3 girls from Wilton Junction, 1 girl each from Guttenberg, Independence, Red Oak and Roland.

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS.
 Heights and Weights of Boys and Girls Granted Work Permits July 1,
 1918, to July 1, 1920, by Locality.
 PART V—AGES 14 TO 15 YEARS.

Locality	Boys				Girls			
	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
The State.....	2,466	62.15	103.05	1.66	1,223	62.29	106.17	1.70
Boone.....	10	61.95	106.40	1.71	31	62.01	110.80	1.73
Burlington.....	124	62.39	101.07	1.61	59	63.37	107.35	1.69
Cedar Rapids.....	156	61.46	103.08	1.67	42	62.45	112.67	1.80
Clinton.....	56	62.16	104.08	1.67	10	61.55	101.40	1.64
Council Bluffs.....	78	61.60	104.26	1.69	24	62.02	106.70	1.72
Clarinda.....	10	62.95	105.05	1.50	4	53.50	94.00	1.75
Davenport.....	266	61.37	99.61	1.56	101	62.23	105.41	1.67
Des Moines.....	647	62.28	101.54	1.62	330	61.96	106.37	1.71
Dubuque.....	103	61.85	102.99	1.66	140	62.11	102.33	1.64
Fairfield.....	11	60.81	98.18	1.61				
Fort Dodge.....	41	63.48	104.42	1.64	11	62.63	116.04	1.85
Fort Madison.....	17	62.67	104.76	1.67	18	63.69	111.72	1.75
Grinnell.....	13	64.76	102.23	1.57	1	64.50	101.00	1.56
Iowa City.....	12	63.33	106.41	1.68	9	64.22	107.00	1.66
Keokuk.....	71	62.90	102.97	1.63	13	63.61	110.92	1.74
Marshalltown.....	16	62.90	104.00	1.65	3	63.16	110.16	1.74
Mason City.....	94	62.11	107.03	1.73	16	60.59	99.21	1.63
Muscatine.....	130	62.06	103.33	1.66	162	62.44	104.44	1.67
Newton.....	20	62.12	115.77	1.86	4	61.75	124.75	2.02
Ottumwa.....	92	62.42	104.51	1.67	20	63.95	113.45	1.77
Pella.....	10	63.85	106.60	1.66	11	61.50	95.72	1.59
Shenandoah.....	15	63.70	119.00	1.86	6	64.17	112.17	1.74
Sioux City.....	297	62.58	102.30	1.66	151	62.77	109.50	1.74
Washington.....	14	63.03	110.28	1.74	8	60.81	103.00	1.69
Waterloo.....	95	62.60	107.07	1.71	27	63.01	113.33	1.79
*Miscellaneous.....	67	63.23	107.80	1.70	22	63.09	108.50	1.72

*Includes 13 boys from Toledo, 12 boys from Marengo, 8 boys from La Porte City, 6 boys from Oskaloosa, 5 boys each from Oelwein and Buffalo, 4 boys from Shellsburg and Wilton Junction, 2 boys each from Centerville and Atlantic, 1 each from Ames, Audubon, Kellogg, Roland, Sharpsburg and Spencer.

*Includes 6 girls from Toledo, 5 girls from Roland, 4 girls from La Porte City, 2 girls each from Buffalo and Tipton, 1 girl each from Guttenberg, Independence and Red Oak.

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS.

Heights and Weights of Boys and Girls Granted Work Permits July 1, 1918, to July 1, 1920, by Locality.

TABLE VI—AGES 15 TO 16 YEARS.

Locality	Boys				Girls			
	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
The State.....	2,261	62.83	108.32	1.72	1,354	62.69	109.68	1.75
Boone.....	28	64.33	114.33	1.78	28	62.29	108.74	1.74
Burlington.....	75	62.45	105.60	1.69	66	62.92	103.50	1.65
Cedar Rapids.....	139	62.13	106.38	1.71	60	62.48	110.30	1.77
Clinton.....	47	63.29	112.14	1.77	21	63.07	112.29	1.78
Council Bluffs.....	63	62.08	107.41	1.73	14	61.85	107.36	1.71
Clarinda.....	7	66.00	123.50	1.87	3	62.50	105.33	1.69
Davenport.....	243	61.91	103.46	1.67	121	62.21	107.51	1.73
Des Moines.....	583	63.21	105.72	1.67	399	62.92	111.40	1.77
Dubuque.....	87	62.54	103.33	1.65	106	63.31	106.78	1.71
Fairfield.....	9	61.44	106.33	1.73	2	62.50	112.50	1.80
Fort Dodge.....	33	62.53	107.51	1.72	22	63.32	109.47	1.73
Fort Madison.....	27	63.41	107.30	1.74	20	63.15	109.43	1.74
Grinnell.....	6	62.92	115.67	1.84	1	65.00	117.00	1.80
Iowa City.....	10	65.00	108.60	1.67	5	61.00	112.80	1.78
Keokuk.....	47	63.88	111.64	1.75	20	64.38	113.38	1.76
Marshalltown.....	3	61.66	91.00	1.49	2	62.50	95.00	1.49
Mason City.....	89	62.29	109.48	1.76	24	62.88	114.44	1.82
Muscatine.....	173	63.40	112.73	1.76	155	62.61	107.83	1.72
Newton.....	28	63.28	110.14	1.74	4	63.25	132.00	2.08
Ottumwa.....	110	63.28	109.87	1.73	24	64.02	116.60	1.80
Pella.....	6	63.83	99.83	1.56	8	61.62	100.62	1.63
Shenandoah.....	9	64.33	115.66	1.78	19	61.57	107.26	1.73
Sioux City.....	251	63.55	112.53	1.77	147	63.40	113.64	1.79
Washington.....	4	65.00	119.00	1.83	3	61.33	93.00	1.51
Waterloo.....	121	64.09	118.24	1.84	57	62.52	113.54	1.81
*Miscellaneous.....	63	60.19	105.72	1.71	23	63.40	107.92	1.72

*Includes 11 boys from Toledo, 8 boys each from Laporte City and Oskaloosa, 5 boys from Marengo, 4 boys each from Centerville and Oelwein, 3 boys each from Audubon and Webster City, 2 boys each from Charles City, Guttenberg, Roland, Spencer and Tipton, 1 boy each from Independence, Montrose, Sharpsburg, Shellsburg, Atlantic, Buffalo and Lansing.

*Includes 6 girls from Laporte City, 4 girls from Roland, 3 girls each from Toledo and Wilton Junction, 2 girls from Guttenberg, 1 girl each from Atlantic, Buffalo, Independence, Red Oak and Tipton.

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS.

Heights and Weights of Boys and Girls Granted Work Permits July 1, 1918, to July 1, 1920, by Locality.

PART VII—AGES 14 TO 16 YEARS.

Locality	Boys				Girls			
	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
The State.....	4,727	62.23	103.37	1.66	2,577	62.63	108.02	1.73
Ames.....	1	64.00	107.50	1.66				
Atlantic.....	3	59.33	114.66	1.93	1	63.00	110.00	1.79
Audubon.....	4	63.12	119.22	1.88				
Boone.....	38	63.85	114.81	1.79	59	62.08	108.15	1.74
Buffalo.....	6	63.16	96.50	1.52	3	65.00	120.33	1.85
Burlington.....	199	61.91	102.78	1.66	125	62.41	105.32	1.68
Cedar Rapids.....	295	61.77	104.63	1.69	102	62.47	110.98	1.76
Centerville.....	6	63.75	108.33	1.69				
Charles City.....	2	65.75	120.75	1.84				
Clarinda.....	17	62.23	109.32	1.75	7	60.21	98.85	1.80
Clinton.....	103	62.68	107.75	1.71	31	62.61	108.77	1.73
Council Bluffs.....	141	61.81	105.67	1.70	38	61.96	106.94	1.72
Davenport.....	509	61.62	101.44	1.64	222	62.19	106.57	1.71
Des Moines.....	1,230	62.72	103.52	1.65	729	62.49	109.12	1.74
Dubuque.....	190	62.11	103.67	1.66	246	62.23	104.25	1.67
Fairfield.....	20	62.13	101.40	1.63	2	62.50	112.50	1.80
Fort Dodge.....	74	61.72	105.81	1.71	33	63.15	111.66	1.76
Fort Madison.....	44	63.12	108.59	1.72	38	63.35	110.51	1.74
Grinnell.....	19	64.23	105.57	1.64	2	64.75	109.00	1.68
Guttenburg.....	2	64.00	126.00	1.96	3	62.50	111.00	1.77
Independence.....	1	63.50	102.50	1.61	2	64.75	112.00	1.72
Iowa City.....	22	64.09	107.40	1.67	14	63.78	109.07	1.70
Kellogg.....	1	59.00	78.00	1.32				
Keokuk.....	118	63.29	102.52	1.61	33	64.07	112.39	1.75
Laporte City.....	16	67.53	118.96	1.76	10	62.30	101.30	1.62
Lansing.....	1	62.00	90.00	1.45				
Marengo.....	17	62.52	104.05	1.66				
Marshalltown.....	19	62.71	101.94	1.62	5	63.30	104.10	1.64
Mason City.....	183	62.20	108.22	1.73	40	61.96	108.35	1.74
Montrose.....	1	60.00	115.00	1.91				
Muscatine.....	303	64.72	109.31	1.69	317	62.43	106.41	1.70
Newton.....	48	61.76	108.32	1.75	8	62.50	128.37	2.05
Oelwein.....	9	61.88	102.66	1.65				
Oskaloosa.....	14	62.71	104.35	1.66				
Ottumwa.....	202	62.83	107.40	1.70	44	63.98	115.17	1.80
Pella.....	16	63.84	104.06	1.63	19	61.55	97.78	1.58
Red Oak.....					2	62.50	107.50	1.72
Roland.....	4	62.50	103.25	1.65	9	63.00	106.33	1.68
Sharpsburg.....	2	64.00	102.50	1.60				
Shellsburg.....	5	63.90	101.80	1.59				
Shenandoah.....	24	63.93	117.75	1.84	25	62.03	111.46	1.79
Sioux City.....	548	62.93	106.93	1.69	298	62.92	110.44	1.75
Spencer.....	3	56.00	102.33	1.82				
Tipton.....	2	64.00	108.50	1.69	3	60.66	105.66	1.74
Toledo.....	24	63.66	113.79	1.78	9	62.55	109.77	1.75
Washington.....	18	63.47	112.22	1.76	11	61.04	100.27	1.64
Waterloo.....	216	63.43	105.74	1.66	84	60.31	108.71	1.80
Webster City.....	3	69.00	129.00	1.86				
Wilton Junction.....	4	64.12	107.77	1.67	3	66.00	116.66	1.77

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