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# CHILD LABOR

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Analysis of Work Permits Issued During  
Biennium Ending June 30, 1922

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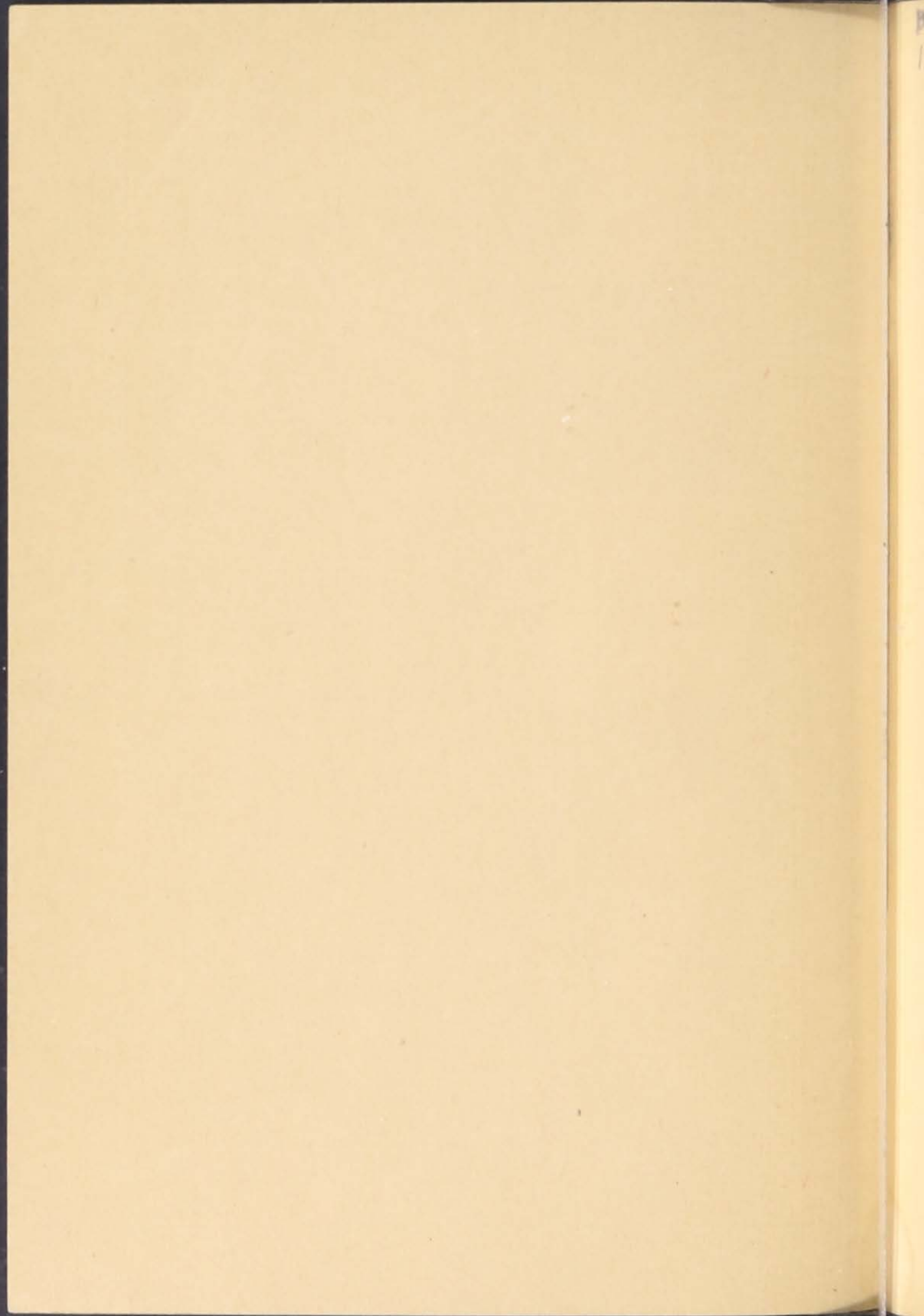
BULLETIN NO. 9

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Issued by the  
BUREAU OF LABOR STATISTICS  
A. L. URICK, Commissioner

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Published by  
THE STATE OF IOWA  
Des Moines



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## CHILD LABOR

Child labor statistics herein contained are based upon work permits issued during the biennial period of July 1, 1920, to June 30, 1922. Any comparison with former reports is upon identical conditions of legal provisions, as there has been no change in the child labor law since July 4, 1915, except that where part-time schools, departments or classes are established the hours of labor per week are limited to forty instead of the former forty-eight hours.

A brief summary of the child labor law is given as a means of providing a more easy interpretation of the several provisions, this summary excluding penalties to parents and others for falsification of records, or for being parties to any violations of the act. Nor does the summary include street trade employment, the statutes in this occupation prohibiting all females under eighteen years of age, and all boys under eleven years of age from engaging therein. Boys between eleven and sixteen years of age may, by securing a badge from the attendance or permit issuing officer of the school, engage in the ordinary accepted street trades between the hours of 4 A. M. and 7:30 P. M. when school is in session, and 8:30 P. M. when school is not in session. These badges can be issued upon the same evidence as work permits, except that regular school attendance is substituted for an education equal to six yearly grades for children granted work permits, and that no employer's agreement of hire is required. The street trade law applies only to cities with a population of 10,000 or more.

School attendance officers are primarily authorized and it is made their duty to enforce the street trade law. There is a further provision that superior or municipal judges may in exceptional cases recommend that boys under eleven years of age be granted a badge by attendance officers.

For the purpose of more thoroughly acquainting interested persons in the provisions of the Iowa law a detailed summary is set forth. It is hoped this detail will help in easily visualizing every provision of the law with exception of penalty for violation, the maximum of which is one hundred dollars or thirty days in jail, and includes employers, parents, guardians or other persons who cause or permit employment or who misrepresent to procure employment of minors contrary to the law.

## PROHIBITED EMPLOYMENTS UNDER 14 YEARS

Persons under fourteen years of age are prohibited employment with or without wages or compensation in the following class of establishments or occupations:

- |                                |   |
|--------------------------------|---|
| 1. Mine                        | 9. Mercantile establishment employing more than 8 persons |
| 2. Manufacturing establishment | 10. Operation freight elevators                           |
| 3. Factory.                    | 11. Operation passenger elevators                         |
| 4. Mill                        | 12. Garage  |
| 5. Shop                        | 13. Place of amusement                                    |
| 6. Laundry                     | 14. Distribution or transmission merchandise or messages  |
| 7. Slaughter house or          |   |
| 8. Packing house               |   |

Exceptions—children of parents owning or operating establishments or occupations. Children under fourteen years of age can be employed within mercantile establishments employing eight or less persons, but cannot be used in the outside distribution or transmission of merchandise or messages.

## PROHIBITED EMPLOYMENTS UNDER 16 YEARS

No person under sixteen years of age shall be employed at any work or occupation by which by reason of its nature or the place of employment:

1. The health of such person may be injured,
2. Or his morals depraved,
3. Or at any work in which the handling or use
  - a. gunpowder
  - b. dynamite or
  - c. other like explosive is required, or
4. In or about any mine during the school term,
5. Or in hotel,
6. Bowling alley,
7. Pool or billiard room, or
8. In occupations dangerous to life or limb,
9. No female under twenty-one years of age can be employed in any capacity where the duties of such employment compel her to remain constantly standing.

## HOW TO PROCURE WORK PERMITS

Children between the ages of fourteen and sixteen years, by receiving work permit, may be employed in establishments and occupations prohibited to children under fourteen years of age under the following conditions:

Work permits can be issued only by

1. superintendents of schools, or
2. person authorized by such superintendent, or
3. person authorized by school board during absence of 1 and 2.

Application for permit must come from

1. parent,
2. guardian, or
3. custodian of child to be employed.

Permit issuing officer before issuing permit must have received, examined, approved and filed the following:

1. Employer's agreement stipulating
  - a. that child will be employed,
  - b. describing the work to be performed,
  - c. That work permits will be returned to issuing officer within two days after employment terminates.
  
2. School record of child signed by chief executive of last school attended giving following information:
  - a. name of child,
  - b. date of birth,
  - c. residence of child,
  - d. name of parent, guardian or custodian,
  - e. certifying that child can read simple sentences in English language, and
  - f. has completed six yearly grades in reading, writing, spelling, English language, geography and arithmetic.
  
3. Certificate of school medical inspector and if none then by physician appointed by board of education, to the effect that child has
  - a. reached normal development for its age,
  - b. sufficiently sound health, and
  - c. has physical development to perform work stipulated.
  
4. Evidence of age showing child is fourteen years old or upwards, proof required in order designated:
  - a. a transcript of the birth certificate filed according to the law with registrar of vital statistics or other officer charged with duty of recording births,
  - b. passport or transcript of certificate of baptism with date of birth and place of baptism,
  - c. school census record,
  - d. where neither a, b, or c are obtainable, a certificate from medical inspector or physician appointed by school board that in his opinion child is fourteen years of age or upward.

#### PERMITS

1. State Superintendent of Public Instruction furnishes to issuing officer all blanks necessary for the issue of work permits.

2. Issuing officer must deliver work permit to prospective employer. (In no case to child, parent, guardian or custodian.)

3. Issuing officer must forward duplicate of work permit to the commissioner of labor within ten days from end of month in which issued.

4. A work permit must be issued for every position obtained by child between fourteen and sixteen years of age.

5. Work permits shall contain the following information:

- a. Name of child,
- b. Sex of child,
- c. Date and place of birth,
- d. Describe color of hair,
- e. Describe color of eyes,
- f. Give height and weight,
- g. Statement of proof of age accepted,
- h. School grade completed,
- i. Name and address of establishment employing,
- j. Describe work to be performed.
- k. That child named has personally appeared before issuing officer,
- l. Signature of issuing officer.

#### HOURS OF LABOR

Children holding work permits cannot be employed

- a. Before 6 o'clock A. M.
- b. After 7 o'clock P. M.
- c. Over eight hours in any one day exclusive of noon hour intermission,
- d. Over forty-eight hours in any one week,
- e. More than forty hours per week where part-time school, department or class is established.
- f. Must be given a thirty minute intermission between 11 A. M. and 1 P. M. when employed more than five hours in any one day.

In cities of ten thousand or more inhabitants, persons under eighteen years of age cannot be employed in the transmission, distribution or delivery of merchandise or messages between the hours of

- a. 10 o'clock P. M. and
- b. 5 o'clock A. M.

A complete record of the number of work permits issued since the enactment of the 1915 child labor law follows:

July 4, 1915 to June 30, 1916.....	1,522
July 1, 1916 to June 30, 1918.....	4,913
July 1, 1918 to June 30, 1920.....	7,469
July 1, 1920 to June 30, 1922.....	3,825
Total number of work permits.....	<u>17,729</u>



A study of these figures must take into account industrial conditions during and following the war, and also the two Federal acts regulating child labor and which were declared unconstitutional by the Supreme Court of the United States.

The first yearly period undoubtedly does not show the complete number of children working and who should have had work permits. This because the provisions were new to permit issuing officers, and wholly unknown to a large number of persons coming under the provisions of the law.

By the end of the fiscal year, June 30, 1916, the effects of the war were already felt in industry, while our country had not formally entered into the war, yet an increased business because of demand for food and war supplies by those nations engaged was in evidence and a consequent great demand for labor, both adult and of minors.

When our government formally declared war in April, 1917, and recruiting began, the demand for labor at once became extreme. This demand is apparent in the increase of work permits issued during the biennium 1916-1918.

September 1, 1917, the Federal act became effective prohibiting interstate shipments of goods produced contrary to the provisions of the so-called Keating-Owens Child Labor Law. The result was that employers coming under its provisions exercised every precaution to comply, so that the record of 4,913 permits for that biennium covered practically all children coming under the law.

The Federal act was declared unconstitutional June 3, 1918, but this coming so close to the end of the fiscal period had no effect on work permits for that biennium.

During the next two years work permits increased over 52 per cent, or from 4,913 to 7,469. At the beginning of the period the war was making demands for ever increasing number of workers to furnish food, supplies, and equipment for our forces, while the draft was making ever greater inroads on industrial workers. These conditions occasioned the need for women and children in increasing numbers.

When the armistice was signed, many lines of production were found without a surplus to take care of the ordinary demands of our people, so that 1919 and the first half of 1920 was a peak period in employment of labor, all of which accounts for the large number of work permits.

By the beginning of the 1920-1922 period, industry was begin-

ning to feel the great reaction from world disturbed economic conditions, which brought in their train industrial readjustments, and unemployment of labor, which at once had its effect in that children were crowded out of employment because adults were so plentiful. This displacement of children was further hastened by the passage of the Federal revenue act that provided for a tax of ten per cent of the net profits of any establishment employing children contrary to its provisions.

There was by that time plenty of adult labor in the market, and as a consequence great numbers of employers adopted the rule to employ no one under sixteen years of age, thus playing safe on the Federal act, and incidentally reducing child labor permits for the last biennial period over the preceding period by forty-nine per cent, in fact, making a reduction of twenty-two per cent over the 1918 period.

#### TENDENCY CHILD LABOR LEGISLATION

The general tendency of legislation throughout the United States is towards greater restriction of child labor. Ohio and Montana in specified occupations now fix the minimum age of employment at sixteen years; California, Maine, Michigan, South Dakota and Texas at fifteen years; fourteen states have the same minimum as Iowa; the Mississippi minimum is twelve years, while Utah and Wyoming have no age limit.

In the matter of school grades, eleven states now require education equal to eighth grade before granting work permits; California and Ohio require seventh grade; nine states, including Iowa, require sixth grade; five states require fifth grade; two states, Arkansas and Missouri, require fourth grade, while nineteen states make no educational requirement.

Twenty-two states, including Iowa, make physical examination of children mandatory; in eight states permit issuing officers may demand such examination; and eighteen states make no provision for such examination. While the Iowa child labor law makes mandatory the examination of children presenting themselves for work permit, by either a medical inspector of schools or by physician appointed by the school board, certifying them to be physically able and of sound health sufficient to perform the proposed work, there is no authority granted school boards to hire physician or medical inspector. Authority is granted to hire dentist and public health nurses.

In the matter of hours of labor permitted per day to children employed under work permit, twenty-seven states, including Iowa, have an eight hour limit; five limit to nine hours per day; five have a ten hour limit; one fixes the limit at ten and one-fourth hours; one at eleven hours and two states, Georgia and Missouri, have no limit.

The state of Virginia alone limits the hours of work per week to forty-four; twenty-seven states, including Iowa, fix the limit at forty-eight hours, a number of these states, however, fix a lower limit where part-time or continuation schools are in session, the Iowa limit being forty hours per week. The remaining twenty states fix limits from slightly above forty-eight hours to as high as sixty hours.

Thirty-four states, including Iowa, prohibit night work for children under sixteen years of age. Six states make the same prohibition for children working in factories, but not in stores; Georgia fixes the prohibited age at less than fourteen and one-half; Mississippi permits boys under sixteen to be employed at night in cotton and knitting mills, while Nevada, South Dakota, Texas, Utah and Wyoming have no night work restrictions whatever.

Twenty states make compulsory the establishment of part-time or continuation school and also compel attendance of children who have left regular days schools. Nine of these, including Iowa, apply to children up to 16 years of age; Michigan to 17 years, and ten states up to 18 years.

In five states part time or continuation schools may be established and where established attendance is made compulsory. In Indiana attendance may be required. Twenty-two states make no provision for this type of schools.

Eighteen states have some form of regulation of children engaged in street trades. In ten of these the requirements are uniform throughout the state, while eight states, including Iowa, regulate in cities of a certain size only. Fourteen of the eighteen require some form of badge or certificate. In five states the street trades are prohibited to boys under 10 years; Iowa alone fixes the minimum age at 11; eleven states fix the age at 12, and one at 14 years.

#### PROPORTION CHILDREN EMPLOYED

The 1920 Census of the United States shows 136,380 boys and 133,837 girls in Iowa of the ages 10 to 15 years. Of these 7,841

boys and 1,640 girls are engaged in gainful occupations, the distribution being given as follows:

	Boys	Girls	Total
Agriculture, forestry and animal husbandry.....	3,970	214	4,184
Extraction of minerals.....	56	.....	56
Manufacturing and Mechanical Industries.....	818	281	1,099
Transportation .....	323	46	369
Trade .....	1,310	228	1,538
Public Service (not elsewhere classified).....	7	.....	7
Professional service.....	62	40	102
Domestic and personal service.....	352	700	1,052
Clerical occupations.....	583	131	714
Total.....	7,481	1,640	9,121

The above table of those employed between the ages of 10 to 15 years includes approximately all of those under the prohibited age of 14 in certain occupations, but unfortunately omits those between 15 and 16 years of age included under the Iowa law, so that comparison with permits issued during the biennial period covered by census is impossible. It will be noted, however, that more than one-half of the gainfully employed boys are in agriculture which is not a regulated child labor occupation. In the other occupations cited, domestic and personal service is also excluded, likewise the greater portion of those in clerical positions, so that the evidence is quite conclusive that the Iowa law, so far as it applies, is well established. The census shows that of the children 10 to 15 years of age 5.5 per cent of the boys are gainfully employed and 1.2 per cent of the girls, the aggregate employment being 3.1 per cent.

Fourteen of our sister states employ a lesser per cent of boys; four including Iowa, employ the same per cent, while 30 states exceed us in per cent of boys employed. Only nine states employ a lesser per cent of girls; two other states have the same per cent as Iowa, while thirty-six employ a greater per cent.

The following shows the number of children and per cent of total by sex, gainfully employed in each of the Iowa cities having a population above 25,000 as shown by the 1920 United States census, including both children coming under the provisions of the child labor law and all others:

## CHILD LABOR STATISTICS

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1920, U. S. CENSUS STATISTICS.

CITY	Sex	Total Number 10 to 15 Years of Age	Number Employed 10 to 15 Years of Age	Per cent of total Employed
Cedar Rapids.....	Boys	2,034	188	9.2
	Girls	2,230	49	2.9
	Total	4,264	237	5.6
Council Bluffs.....	Boys	1,793	105	5.9
	Girls	1,751	38	2.2
	Total	3,544	143	4.0
Davenport.....	Boys	2,609	206	7.9
	Girls	2,662	62	2.3
	Total	5,271	268	5.0
Des Moines.....	Boys	5,790	366	6.3
	Girls	6,058	113	1.9
	Total	11,848	479	4.0
Dubuque.....	Boys	1,776	186	10.5
	Girls	1,901	104	5.5
	Total	3,677	290	7.6
Sioux City.....	Boys	3,013	169	5.6
	Girls	3,145	10	2.5
	Total	6,158	249	4.0
Waterloo.....	Boys	1,694	182	10.7
	Girls	1,789	37	2.1
	Total	3,483	219	6.3

## ANALYSIS OF TABULATIONS

So far as this bureau has been able to ascertain, height and weight measurements by permit issuing officers were made without removal of shoes and clothing, therefore, in any comparisons made with statistics in which measurements were in the nude, allowance must be made. The U. S. Children's Bureau recommends not more than five pounds for clothing, while Bowditch in his eighth annual report to the Massachusetts State Board of Health recommends for clothing—boys of 14 years, 8.09 pounds; boys of 15 years, 8.08 pounds; girls of 14 years, 7.54 pounds; girls of 15 years, 7.85 pounds. Baldwin of the University of Iowa

recommends an allowance of 1.66 pounds for children of 12 years with coats and shoes removed, and for children over 12 years 2.43 pounds.

In height measurements Bowditch suggests an allowance for boys' shoes of  $\frac{3}{4}$  to 1 inch and for girls,  $1\frac{1}{2}$  to 2 inches. It will at once be seen that, for girls in particular, styles in vogue will materially affect average allowances and will make reports on heights decidedly questionable.

Statistics following were compiled from 3,825 work permits issued during the biennium to 2,260 boys and 1,565 girls, classified and tabulated to show number by age, school grade, height and weight for 43 cities and towns. The number of boys and girls divided into half year and yearly groups, is as follows:

AGE	BOYS	GIRLS
14 to $14\frac{1}{2}$ years.....	474	255
$14\frac{1}{2}$ to 15 years.....	532	329
15 to $15\frac{1}{2}$ years.....	614	470
$15\frac{1}{2}$ to 16 years.....	640	511
14 to 15 years.....	1,006	584
15 to 16 years.....	1,254	981
Total, 14 to 16 years.....	2,260	1,565

The two tables following are a summary of school grade classification of boys and girls to whom work permits were issued. Where the letters "A" and "B" are used in school grades, "B" indicates the first half, and "A" the final half of the grade given. Ungraded includes all children in which school grade was not definitely reported.

## SUMMARY OF SCHOOL GRADE CLASSIFICATION.

Age	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
<b>BOYS</b>												
14 to 14½ years	28	12	65	54	78	52	122	57	5	1	.....	474
14½ to 15 years	23	9	61	31	93	50	132	102	24	7	.....	532
15 to 15½ years	24	7	98	59	89	59	130	113	27	8	.....	614
15½ to 16 years	23	15	77	37	93	71	141	116	55	9	3	640
14 to 15 years	51	21	126	85	171	102	254	159	29	8	.....	1,006
15 to 16 years	47	22	175	96	182	130	271	229	82	17	3	1,254
Boys, total	98	43	301	181	353	232	525	388	111	25	3	2,260
<b>GIRLS</b>												
14 to 14½ years	11	6	34	11	49	32	76	24	11	1	.....	255
14½ to 15 years	20	3	27	12	48	26	99	69	22	3	.....	329
15 to 15½ years	12	9	41	23	61	42	138	105	36	3	.....	470
15½ to 16 years	10	4	55	29	64	34	132	102	55	23	3	511
14 to 15 years	31	9	61	23	97	58	175	93	33	4	.....	584
15 to 16 years	22	13	96	52	125	76	270	207	91	26	3	981
Girls, total	53	22	157	75	222	134	445	300	124	30	3	1,565
Grand Total, both sexes	151	65	458	256	575	366	970	688	235	55	6	3,825

## 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	1,006	100.00	1,254	100.00	2,260	100.00
Boys, Ungraded	51	5.07	47	3.75	98	4.34
Boys, 6th-B grade	21	2.09	22	1.75	43	1.90
Boys, 6th-A grade	126	12.52	175	13.96	301	13.32
Boys, 7th-B grade	85	8.45	96	7.66	181	8.01
Boys, 7th-A grade	171	17.00	182	14.51	353	15.62
Boys, 8th-B grade	102	10.14	130	10.37	232	10.26
Boys, 8th-A grade	254	25.25	271	21.61	525	23.23
Boys, 1st high	159	15.80	229	18.26	388	17.17
Boys, 2nd high	29	2.88	82	6.54	111	4.91
Boys, 3rd high	8	0.80	17	1.35	25	1.11
Boys, 4th high	.....	.....	3	0.24	3	0.13
Girls, total number of	584	100.00	981	100.00	1,565	100.00
Girls, ungraded	31	5.31	22	2.24	53	3.39
Girls, 6th-B grade	9	1.54	13	1.32	22	1.41
Girls, 6th-A grade	61	10.45	96	9.79	157	10.03
Girls, 7th-B grade	23	3.94	52	5.30	75	4.79
Girls, 7th-A grade	97	16.61	125	12.74	222	14.19
Girls, 8th-B grade	58	9.93	76	7.75	134	8.56
Girls, 8th-A grade	175	29.97	270	27.52	445	28.43
Girls, 1st high	93	15.92	207	21.10	300	19.17
Girls, 2nd high	33	5.65	91	9.28	124	7.92
Girls, 3rd high	4	0.68	26	2.65	30	1.92
Girls, 4th high	.....	.....	3	0.31	3	0.19

It will be noticed that 141 boys, 6.24 per cent of the total, and 75 girls, 4.8 per cent of the total are listed as ungraded and 6th B grade, these apparently not meeting literally the requirements of the child labor law text. It should therefore be explained that practically all of the 6th B grade boys and girls were employed during vacation period only, there being no school in session and meeting all of the other requirements for work permits, it was assumed that all of the intents of the law were complied with in the issue of work permit. This same explanation will largely hold good for ungraded children, except that in their case some came from ungraded schools, and issuing officers after examination found them to have as the law requires "has completed a course of study equivalent to six yearly grades." It also includes children past the age of fourteen years, physically fit, but mentally subnormal to the extent of never being able to acquire the necessary educational qualification for work permits.

During this biennial period 1,006 boys dropped out of school when between fourteen and fifteen years of age, and 1,254 between fifteen and sixteen years. This difference of 248 more permits issued to fifteen year old boys than to those of fourteen years is a reversal of conditions from any period during which Iowa has issued work permits. For the biennium ending June 30, 1920, the permits issued boys under fifteen years were 198 greater than the number issued to those over fifteen years. For the year ending June 30, 1918, the boys of fourteen years and over exceeded those of fifteen years and over by 185, and for the one year ending June 30, 1916, by 16.

There were 584 permits issued to girls of fourteen years of age and over as against 981 of fifteen years and over, an excess of those of the latter age over the former of 397. During every period covered there has been a slightly greater number of permits issued to girls during the second year of age covered by the law. Thus for the 1920 period the latter year permits exceeded by 27 out of a total of 2,637; for 1918, by 102 out of a total of 1,642 and for the first year of the operation of the law by 19 out of 516 permits issued to girls.

These figures for both boys and girls plainly indicate the trend of employment of children to be lessening, and this especially with relation to those of the earlier permissible age. While part of this trend may be due to lesser demand for labor during the last biennium, there is no doubt the greater part is due to the Federal Act,



which has since been declared unconstitutional, but was in effect long enough to convince employers that they could get along with less child labor and the experience has also convinced them that the younger children were not profitable, bringing about a changed sentiment and viewpoint with relation to all child employment.

#### RETARDED SCHOOL GRADES

Basing Kindergarten entrance of children at five years of age, with perfect conditions of school attendance of the normal child, the grammar grade should be finished at thirteen years of age. Making allowance, however, for the usual ailments of small children, variation in dates of birth, and probable changes in residence, the normal child should have completed the eighth grade at fourteen years, or at the utmost at fourteen and one-half years; the first year of High School at fifteen to fifteen and one-half years; and the second year of High at sixteen years.

Upon this most liberal basis, work permits show that 2,861 out of 3,825 children, or 77.41 per cent who were issued permits to work, were retarded in their school grades. For the year 1922, the records of the public schools of the City of Des Moines show that 49.22 per cent of all children attending were retarded. If the Des Moines school experience holds good, or approximately so, throughout the state, the comparative percentage would seem to furnish evidence that children retarded in school grades seek work in greater proportion than those not retarded. A small number of these children are of course of more or less subnormal mind, but in the great majority of cases it may be taken as a protest against the standardized school curriculum, which aims too much at uniformity with children of vastly different dispositions, qualifications and natural adaptability. The following table shows in detail retarded children by half year age periods who were issued permits during the biennium:

Number of per cent of Children of retarded school grades, by age and sex, from work permits issued July 1, 1920 to June 30, 1922.

	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.....	474	532	614	640	2,260
Number of retarded school grades.....	289	399	466	573	1,727
Percentage retarded school grades.....	60.97%	77.07%	75.90%	89.53%	76.42%
Girls					
Total number receiving work permits.....	255	329	470	511	1,565
Number of retarded school grades.....	143	235	326	430	1,134
Percentage of retarded school grades.....	56.08%	71.43%	69.36%	84.15%	72.46%
Percentage of retarded school grades (both sexes)...	59.26%	73.64%	73.06%	87.14%	77.41%

During 1916, this Bureau directed an investigation of 600 children holding work permits. Of these 117 were working during vacations only. Eliminating these vacation workers, 11.59 per cent claimed dissatisfaction with school as their reason for working, and 23.18 per cent claimed to prefer work, which in the main is only another name for dissatisfaction with school, for if the child works because of preference only, should the preference be school, in all likelihood it would be in school.

During 1918, another investigation was made of 650 permit holding children, 160 of these working during vacation only are eliminated, 28.79 per cent of the balance claimed dissatisfaction with school, and 13.06 per cent preference for work as the reason for their employment. It will be noticed that the greater and lesser per cent of cause is reversed in the two periods given, which further goes to show that the two reasons approximate about the same weight in the child's conclusion.

The total per cent for these two causes for the two investigations are 34.76 and 41.84 respectively. The Federal Census of 1920 for Iowa shows 12,342, or 14.2 per cent of all boys and girls of fourteen and fifteen years of age, and 42,640 or 48.6 per cent of all boys and girls of sixteen and seventeen years of age not attending school. For the latter years the per cent of non-school attendants is greater than the per cent of working children claiming some form of dissatisfaction with school as their reason for non-attendance, which should be rather conclusive evidence that retardation of school grade cannot be, to any material extent, accredited to sub-normal mind, for no one would hazard the belief that 5,582 Iowa children of fourteen and fifteen years of age, and 19,514 of sixteen and seventeen years of age are subnormal, and yet these are the number of non-attendants given by the Federal Census computed upon the basis of the 1918 school absentees because of dissatisfaction. In these figures no account is taken of the children assigning any other cause for being at work.

The following table shows number and per cent for each cause of being at work as found by the Iowa Bureau of Labor, and by the 1910 special investigation of the Federal Department of Commerce and Labor, and which did not include any Iowa cities.

Causes assigned for working by Children, 14 to 16 years of age as disclosed by special investigations.

CAUSE	Iowa Bureau of Labor				U. S. Bureau of Labor	
	1916		1918		1910	
	No.	Per cent	No.	Per cent	No.	Per cent
Necessity.....	196	40.58	162	33.06	186	30.0
Parents' influence.....	83	17.18	95	19.39	173	27.9
Dissatisfaction with school.....	56	11.59	141	28.78	165	26.6
Child preferred work.....	112	23.18	64	13.06	61	9.8
Other causes.....	36	7.47	28	5.71	35	5.7
Total.....	483	100.00	490	100.00	620	100.0

## PHYSICAL STANDARDS

The Iowa law provides for an examination by a physician of all children presenting themselves for work permit to determine whether the child has reached normal development for its age, and is of sufficient sound health to perform the work for which permit is sought. The query naturally follows: What is a safe normal development of an Iowa child between fourteen and sixteen years of age? So that there may be made a comparison of the physical development of the Iowa child granted the right to work, with the average, or supposed normally developed child as found by noted observers, the following tables are given, the second being a table by half year age periods originally prepared by Dr. A. T. Baldwin of the Iowa State University and to which we have added the 1922 average of the Iowa Bureau.

Height and Weight of Iowa Children receiving work permits from July 1, 1920 to June 30, 1922, compared with other standards.

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	14 to 15 years	15 to 16 years
	<b>BOYS</b>					
Iowa Bureau of Labor (Obs. 2,260 boys).....	61.92	63.00	108.22	111.44	1.75	1.77
Bowditch: (Obs. 4,327 Boston school boys).....	61.00	63.00	99.30	110.08	1.63	1.76
Stephenson (British and American Statistics).....	59.60	62.27	93.46	104.90	1.56	1.61
Frankel and Dublin, Mutual Life Insurance Co. (Obs. 5,393 boys, New York City).....	61.55	62.74	103.38	101.69	1.68	1.75
(Obs. 2,627 boys, New York up-state cities).....	60.90	62.17	98.60	105.09	1.62	1.69
United States Labor Statistics.....	59.90	62.30	94.90	107.10	1.58	1.71
<b>GIRLS</b>						
Iowa Bureau of Labor (Obs. 1,565 girls).....	62.40	62.99	107.01	113.35	1.71	1.80
Bowditch: (Obs. 3,681 Boston School girls).....	60.00	61.04	100.30	108.40	1.67	1.71
Stephenson: British and American statistics.....	59.87	61.01	97.56	105.44	1.63	1.73
Frankel and Dublin, Mutual Life Insurance Co. (Obs. 4,650 girls, New York City).....	61.19	61.59	104.54	107.57	1.71	1.75
(Obs. 1,822 girls, New York up-state cities).....	61.46	61.96	102.18	106.90	1.66	1.71
United States 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—1920 (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
Iowa Bureau of Labor—1922 (2,260 boys)	61.31	104.71	1.71	62.65	111.27	1.78	62.66	108.86	1.74	63.60	115.28	1.81
Baldwin: Iowa Child Welfare Research 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—1920 (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
Iowa Bureau of Labor—1922 (1,565 girls)	61.11	105.52	1.72	62.26	110.06	1.61	62.89	108.41	1.72	63.20	114.15	1.81
Baldwin: Iowa Child Welfare Research 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

To make possible a comparison of Iowa requirements in the issue of work permits with standards adopted by committee of physicians appointed by the Children's Bureau of the U. S. Department of Labor, the following is quoted:

CHILDREN'S BUREAU STANDARDS

“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 the tendency.”

TABLE SHOWING NUMBER OF WORK PERMITS ISSUED DURING BIENNIAL PERIOD JULY 1, 1919 TO JULY 1, 1922.

Classified by City or Town, Fiscal Year and Sex.

City or Town	Fiscal year July 1, 1919, to July 1, 1920,		Fiscal year July 1, 1920, to July 1, 1922	
	Boys	Girls	Boys	Girls
Ames.....	2	2		
Atlantic.....	1		7	1
Boone.....	6	14	2	2
Buffalo.....	1			
Burlington.....	52	36		
Cedar Rapids.....	99	60	41	26
Centerville.....	1			1
Clarinda.....		1	1	1
Clinton.....	29	10	4	5
Council Bluffs.....	43	14	6	3
Davenport.....	186	76	122	31
Denison.....	2			
Des Moines.....	549	319	191	154
Dubuque.....	74	151	50	147
Eldora.....			1	
Fairfield.....	13	2	2	2
Forest City.....	1		1	
Fort Dodge.....	9	12	1	
Fort Madison.....	7	3	6	3
Garrison.....	2	2		
Grinnell.....			3	2
Guttenberg.....				1
Iowa City.....	1			
Keokuk.....	43	8	22	6
La Porte City.....	12	2		
Marshalltown.....	12	9	12	5
Mason City.....	50	30	42	14
Muscatine.....	79	111	46	88
Newton.....	5	1	1	
Oskaloosa.....	4	1		
Ottumwa.....	53	19	42	6
Pella.....	3			1
Perry.....	1			
Red Oak.....	3	9		
Shenandoah.....	2	2	3	9
Sioux City.....	137	98	90	34
Storm Lake.....	2			
Toledo.....	9	4		1
Valley Junction.....				1
Vinton.....	1			
Washington.....	1			
Waterloo.....	40	19	27	6
Wilton Junction.....	2			
Totals.....	1,537	1,015	723	550

Decrease in number of work permits issued to boys during last fiscal year, 814; and to girls, 465, for same period

## GENERAL TABLES

Table No. 1 is in seven sections, which give school grades of children issued work permits during the biennium. The arrangement is by sex, graded by half year and yearly age periods, and by school locality issuing the permit. A study of these tables indicates that the great majority of children finish their school grade of enrollment before applying for work permit. This is shown both by the half-yearly and yearly tables in comparing "B" division with "A" or final division of grade. In not a single case among girls from all of the cities does the number of "B" division permits exceed the number in "A" division, while for boys are found the following exceptions: fourteen to fourteen and one-half years of age in seventh grade issues of Des Moines and Sioux City, and of eighth grade at Cedar Rapids; fourteen and one-half to fifteen years of age in seventh grade of Davenport and Ottumwa; fifteen to fifteen and one-half years of age, seventh grade, Cedar Rapids and Des Moines and eighth grade, Muscatine and Ottumwa; fifteen and one-half to sixteen years of age, seventh grade, Cedar Rapids.

The work permits also show that a larger per cent of boys than girls drop out of school during the sixth and seventh grade, while the per cent of drop outs of girls is greater during the eighth grade and first year of high as based on 2,260 permits issued to boys, and 1,565 to girls as shown by the following:

PER CENT OF DROP OUTS OF WORK PERMIT CHILDREN BY SEX AND SCHOOL GRADE.

	6th grade	7th grade	8th grade	1st yr. High
Boys .....	15.22	23.63	33.50	17.12
Girls .....	11.44	18.98	37.00	19.17

Table 2, correlating height and weight of children, giving the number of children in each correlated group divided by sex and age. In these tables are grouped the total number of boys and girls to whom work permits were issued during the four year period from July 1, 1918, to June 30, 1922, a total of 6,812 boys and 4,021 girls, a grand total of 10,823. This was done for the purpose of getting more accurate and safe normals as a guide in issuing work permits, for it is always true that the greater the number of cases, the lesser will averages be effected by greatly subnormal or abnormal developed cases. The tables show the extremes in weights of children of the same age and height. For instance, among the boys between fourteen and fifteen years, in

the column giving weights between ninety and ninety-four pounds will be found two boys forty-eight inches and two that are seventy-two inches in height; also, in the group of sixty-eight inches in height are found, one boy weighing between eighty and eighty-four pounds, and two boys weighing between one hundred ninety and one hundred ninety-four pounds. The average weight for the entire fourteen to fifteen years of age group is 104.20 pounds and the average height 61.92 inches, so that two of the above boys are 13.92 inches under the average height and approximately twenty-four pounds under weight, while the other two are 6.08 inches above average height and approximately ninety pounds over weight. Almost similar extremes can be found in every group of both boys and girls, and should call for the greatest care in examination for physical development for fitness to perform the work to which the child is to be assigned.

Life insurance companies figure on a safe deviation of fifteen per cent from general height and weight averages, and generally reject those that vary more than this. Their standard arrived at from long years of experience should undoubtedly have great weight in putting children into work and especially because of these ages they are passing through the physical and physiological development ending in maturity, which they should reach in sound mind and body.

Dr. Baldwin of the Iowa Child Welfare Research Station, Iowa State University, says in relation to Industrial work by children, "There should be a direct relationship between physiological age and the age at which boys and girls enter industrial work. Child labor legislation should take into consideration the physiological development of the boy and girl as well as his or her chronological age and school standing. Some children are sufficiently mature physically to meet the requirements of an age limit of fourteen to sixteen, while others are immature and in a state of physiological growth where more school training, more physical training and more opportunity for physical development are essential."

That girls are generally taller than boys at fourteen years of age and heavier than boys to about sixteen years of age is again corroborated by these tables. In comparisons for this purpose the correlation tables No. 2 will be found of greater value than tables No. 3 because of the greater number of cases included.

In table 2, part one are included 3,393 work permit boys between the ages of fourteen and fifteen, the average weight of these



is given as 104.20 pounds. The median, however, is 103 pounds, and 61.68 inches in height, which is by far the most accurate data. By looking down the 100 to 104 pound column to a point opposite the 62 inch column there will be found the figure 53. If among these 53 boys there should be a boy exactly 61.68 inches tall, weighing 103 pounds, there should be exactly the same number of boys taller and shorter in height and heavier and lighter in weight, making of him the median or normal boy for the entire number.

Table 2, part 3, gives the same data for 1,755 girls, the average weight as 107.04 pounds while the median girl weighs 106.51 pounds and is 61.90 inches tall. She is found in the group of 46 in the 105 to 109 pounds in weight column opposite 62 inches in height.

Table 2, part 2, gives this data of 3,419 boys between fifteen and sixteen years, the average as 110.64 pounds, the median is 62.50 inches in height and 109 pounds in weight, and will be found in the group of 76 in column headed 105 to 109 pounds, in the 63 inch in height line.

Part 4 of this same table includes 2,266 girls between 15 and 16 years of age. The average weight of these is 110.11 pounds, while the median weight is 110.93 pounds and the height 62.43 inches. The median child is found among the 71 group in the 110 to 114 pounds column and the 63 inch line.

The following table will better visualize these median or exactly normal children as found by a four year work permit record.

Sex	Age	Median Height inches	Median Weight pounds
Boy.....	14 to 15	61.68	103
Girl.....	14 to 15	61.90	106.51
Boy.....	15 to 16	62.50	109
Girl.....	15 to 16	62.43	110.93

Table No. 3 is in seven parts, and gives the number of work permits issued to boys and girls by each city. These children are classified by half year and yearly ages, with the average height and weight of each age group. The averages will be found to greatly vary, this being due in part to the small number of cases in some of the cities, the subnormally or abnormally developed child, throwing averages out of proportion to the averages and normals of other tables which have a sufficient number of cases to make negligible these extremes. With a sufficient number of cases

for each city these tables would be found admirable in tracing effect of local conditions and of predominance of original racial influence on the local population. This latter may in part be traced in a number of cities issuing a considerable number of permits.

General tables follow:

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 14 TO 14½ YEARS

Locality	Boys											Totals	Girls											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		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.....	28	12	65	54	78	52	122	57	5	1	.....	474	11	6	34	11	49	32	76	24	11	1	.....	255	
Boone.....		1						1				2					1								1
Burlington.....	2		1	1	4	4		1				13	1	1		1	3								6
Cedar Rapids.....	1	2	8	6	3	8	2	2				32		3		1	2	1							7
Clinton.....			2		2							4			1										1
Council Bluffs.....	1		3		2		4	5				15		2		2	1								5
Davenport.....	2		5	4	6	13	15	5	1			51	1	1	4	2	1	2	1						12
Des Moines.....	6	5	20	26	24	14	44	19	1	1		160	3	3	5	1	13	12	17	9	5				68
Dubuque.....	1		1		3		12	1				18	2	1	6		8	5	28	5	3				58
Fairfield.....			1		2			2				5													1
Fort Dodge.....			2	1								3	1												1
Fort Madison.....			1		1							2													1
Keokuk.....	1		3		5		8					17		3		1									4
Laporte City.....			1		2		1					4													1
Marshalltown.....	3	1	1				2	1				8			1			1							2
Mason City.....	2	2	1		2		7	6	1			21		1		2		3							6
Muscatine.....	2		2	3	3	6	3	7				26	3	5	4	5	6	10	6	2	1				42
Ottumwa.....	1		4	4	4		1	2				16		1		2		1							4
Red Oak.....			1									1						2							2
Shenandoah.....								1				1			2		2								4
Sioux City.....	5		8	9	8	5	10	2	2			49	1	1	4		6	3	7	2	1				25
Toledo.....					1		1					2		1		1		1	1						4
Waterloo.....	1	1			2	2	5	1				12		1											1
*Miscellaneous.....					4		7	1				12				2									2

\* Including Ames, 1 boy eighth A; Atlantic, 1 boy eighth A; Buffalo, 1 boy eighth A; Forest City, 2 boys seventh A; Garrison, 1 boy seventh A; Grinnell, 1 boy first year high school; Newton, 1 girl seventh A; Pella, 1 girl seventh A, 1 boy eighth A; Storm Lake, 1 boy eighth A.

TABLE NO. 1—WORK PERMITS FOR CHILDREN—Continued

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										Totals	Girls										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	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
Totals.....	23	9	61	31	93	50	132	102	24	7	532	20	3	27	12	48	26	99	69	22	3	320	
Boone.....					1						1							1					1
Burlington.....	1				3	5	2	2	1		14	1	1					1	4				10
Cedar Rapids.....			2	1	6	2	3	7		1	22			4	2	2	2	2					12
Clinton.....			1			2	4	1			9			1	1				1				3
Council Bluffs.....			1		3		3		1		8	2			1				1				4
Davenport.....	4	2	10	12	9	7	17	13	2	1	77	2		1	1	4	2	8	6	4			28
Des Moines.....	11	4	23	7	27	21	40	43	9	1	186	4		2	7	12	22	27	13	2			86
Dubuque.....		1	3	2			16	3			25	1		9	3	9		31	10	2			65
Fairfield.....	1				1			1			3												
Fort Dodge.....					1						1	1			1				1				3
Fort Madison.....			1		2		2				6												1
Keokuk.....			2		5		4			1	12							1					1
Laporte City.....							1	1		1	3												
Marshalltown.....	1				1		3	1			6	1		2									3
Mason City.....	1	1	2		4		8	6		1	23			1									9
Muscatine.....	2	1	1	1	8	6	7	3	1		30	6	1	4		2	6	16	5	1	1		42
Ottumwa.....			2	5	2	1	2	2	3	1	18			1		2		1					4
(1) Red Oak.....																							
Shenandoah.....			1								1				1			2					3
Sioux City.....	2		6	2	14	3	11	14	4		56	2	1	1	1	6	5	11	4	2			33
Toledo.....			2				3				5			1									1
Waterloo.....			3	1	2	2	3	4	1		16				3	1			3				7
*Miscellaneous.....			1		4		3	1	2		11				3		1		1				4

\* Including Ames, 1 boy seventh A; Atlantic, 2 boys seventh A; Eldora, 1 boy second year high school; Grinnell, 2 girls second year high school; Newton, 1 boy second year high school; Oskaloosa, 1 boy seventh A, 1 boy eighth A, 1 girl eighth A; Pella, 1 boy eighth A; Storm Lake, 1 boy first year high school; Wilton Junction, 1 boy sixth A; Centerville, 1 boy eighth A, 1 girl seventh A.

TABLE NO. 1—WORK PERMITS FOR CHILDREN—Continued

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										Totals	Girls										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	Ungraded	6th-B grade	6th-A grade	7th-B grade	7th-A grade	8th-B grade	8th-A grade	1st high	2nd high	
Totals.....	24	7	98	59	89	59	130	113	27	8	614	12	9	41	23	61	42	138	105	36	3	470
Boone.....					1			2			3				1	1		1				3
Burlington.....			4	2	2	4		2			14			1		3	1	2				7
Cedar Rapids.....			11	11	6	5	4	4	2	1	44	1	1	4	4	5	4	11	13			43
Clinton.....			3		2		5				10				1		2					3
Council Bluffs.....			2		4		3	6			15		1		1			1				3
Davenport.....	5		12	10	11	11	17	23	3	1	93		1	2	1	3	5	7	8	4		31
Des Moines.....	4	5	33	24	20	15	42	38	10	1	192	5	1	8	11	20	7	25	32	20	2	131
Dubuque.....			3	3	6		22	5	1		40	1		10		3	5	51	21	2		93
Fairfield.....					1		1				2							1				1
Fort Dodge.....	1				1	1	1				4	1	1	1	1			1				5
Fort Madison.....					2		1				3		1	1			1	1		1		5
Keokuk.....	3	1	5	2	2	1	2	1			17		1		2	1		1				5
Laporte City.....					1		1				2				1							1
Marshalltown.....	1		2		1		2				6		1		1	1	1	1				5
Mason City.....	1				5	1	4	8	3	2	24				1	1	6	2				11
Muscatine.....	5	1	1		4	7	6	3	2	1	30	3	2	5	5	8	4	18	8	2	1	56
Ottumwa.....	1		8	1	7	8	2	2		1	30			2	1	2	1	3				9
Red Oak.....							1				1			3				1				4
Shenandoah.....					1						1			1						1		2
Sioux City.....	2		11	5	10	3	14	11	2		58	1		1	1	9	7	7	11	4		41
Toledo.....								1			1											
Waterloo.....	1		1	1		3	4	2	2	1	15			1		1	2	1	1			6
*Miscellaneous.....			2		2			3	2		9				1		4					5

\* Including Atlantic, 1 boy sixth A; Clarinda, 1 girl seventh A, 1 girl eighth A; Garrison, 2 girls eighth A, 1 boy seventh A; Guttenberg, 1 girl eighth A; Iowa City, 1 boy first year high school; Newton, 1 boy second year high school, 1 boy seventh A; Oskaloosa, 1 boy first year high school, 1 boy second year high school; Perry, 1 boy first year high school; Wilton Junction, 1 boy sixth A.

TABLE NO. 1—WORK PERMITS FOR CHILDREN—Continued

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.....	23	15	77	37	93	71	141	116	55	9	3	640	10	4	55	29	64	34	132	102	55	23	3	511
Boone.....							2					2					2	3	2	3	1			11
Burlington.....		2		1	1	5	1	1				11		2	2			1	3	2	3			13
Cedar Rapids.....	1	1	7	4	3	5	5	10	6			42			2	7	4	3	2	4	2			24
Clinton.....			2		1	4	1	1	1			10	1		1		2	1	3					8
Council Bluffs.....			2		2		3	2	2			11			1			3	1					5
Davenport.....	3		12	9	13	10	17	19	4			87			5	3	5	3	11	9				36
Des Moines.....	12	4	23	15	18	25	37	43	19	5	1	202	3	1	14	11	19	12	36	39	29	13	1	178
Dubuque.....	1	1	7	1	1	1	22	5	1	1		41	2		10	1	6	4	37	12	5	5		82
Fairfield.....					1		3	1				5							2		1			3
Fort Dodge.....					2							2			1				1	1				3
Fort Madison.....					1		1		1			3							1					1
Keokuk.....	1	4	6		5	1	2					19							1					4
Laporte City.....								2	1			3					3							1
Marshalltown.....	1	1			1		1					4			2		1			1				4
Mason City.....	1			1	6		3	8	5			24	2		1		1		4	8	1	1		18
Muscatine.....		1	1	2	9	5	10	4	5	1	1	39	2	1	7	5	12	3	14	5	6	2	2	59
Ottumwa.....			4		8	6	9	2	1	1		31			2		3	1	1	1				8
Red Oak.....						1						1							2		1			3
Shenandoah.....					2							2							1			1		2
Sioux City.....	1		7	4	12	5	10	16	7	1	1	64			5	1	4	2	6	12	2	1		33
Toledo.....	1											1												
Waterloo.....	1	1	4		3	3	11	1				24			1	1	1	1	1	4	2			1
*Miscellaneous.....			2		4		3	1	2			12			1				1		2			4

\* Including Ames, two girls second year high school; Atlantic, 1 boy sixth A, 1 boy seventh A, 1 boy eighth A, 1 boy first year high school, 1 girl eighth A; Clarinda, 1 boy seventh A; Grinnell, 1 boy sixth A, 1 boy second year high school; Newton, 2 boys seventh A, 1 boy eighth A; Pella, 1 boy eighth A; Valley Junction, 1 girl sixth A; Vinton, 1 boy second year high school.

TABLE NO. 1—WORK PERMITS FOR CHILDREN—Continued

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											Totals	Girls											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		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	51	21	126	85	171	102	254	159	29	8		1,006	31	9	61	23	97	58	175	93	33	4		584
Boone		1			1			1				3					1	1						2
Burlington	3		1	1	7	9	2	3	1			27	1	2	1		1	6	1	4				16
Cedar Rapids	1	2	10	7	9	10	5	9		1		54			7		3	4	3	2				19
Clinton			3		2	3	4	1				13			1	1	1			1				4
Council Bluffs	1		4		5		7	5	1			23	2		2		3		1	1				9
Davenport	6	2	15	16	15	20	32	18	3	1		128	3		2	5	6	3	10	7	4			40
Des Moines	17	9	43	33	51	35	84	62	10	2		346	7	3	7	8	25	19	39	36	18	2		164
Dubuque	1	1	4	2	3		28	4				43	3	1	15	3	17	5	59	15	5			123
Fairfield	1		1		3			3				8												
Fort Dodge			2	1	1							4	2				1			1				4
Fort Madison			2		3		2					7												
Keokuk	1		5		10		12			1		29			3		1		1					5
Laporte City			1		2		2	1		1		7												
Marshalltown	4	1	1		1		5	2				14	1		2	1			1					5
Mason City	3	3	3		6		15	12	1	1		44			2		3		5	5				15
Muscatine	4	1	3	4	11	12	10	10	1			56	9	1	9	4	7	12	26	11	3	2		84
Ottumwa	1		6	9	6	1	3	4	3	1		34			2		4		2					8
Red Oak			1									1							2					2
Shenandoah			1					1				2				3		4						7
Sioux City	7		14	11	22	8	21	16	6			105	3	2	5	1	12	8	18	6	3			58
Toledo			2		1		4					7			2		1		1	1				5
Waterloo	1	1	3	1	4	4	8	5	1			28			1		3	1		3				8
Miscellaneous			1		8		10	2	2			23					5		1					6

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—Continued

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											Totals	Girls											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		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.....	47	22	175	96	182	130	271	229	82	17	3	1,254	22	13	96	52	125	76	270	207	91	26	3	981
Boone.....					1		2	2				5					3	4	2	4	1			14
Burlington.....		2	4	3	3	9	1	3				25		2	3		4	4	4	4	3			20
Cedar Rapids.....	1	1	18	15	9	10	9	14	8	1		86	1	1	6	11	9	7	13	17	2			67
Clinton.....			5		3	4	6	1	1			20	1		1		3	1	5					11
Council Bluffs.....			4		6		6	8	2			26			2		3		3	2				8
Davenport.....	8		24	19	24	21	34	42	7	1		180		1	7	4	8	8	18	17	4			67
Des Moines.....	16	9	56	39	38	40	79	81	29	6	1	394	8	2	22	22	39	19	61	71	49	15	1	309
Dubuque.....	1	1	10	4	7	1	44	10	2	1		81	3		20	1	9	9	88	33	7	5		175
Fairfield.....					2		4	1				7							2	1	1			4
Fort Dodge.....	1				3	1	1					6	1	1	2		1		1	2				8
Fort Madison.....					3		2		1			6		1	1		1		2		1			6
Keokuk.....	4	5	11	2	7	2	4	1				36		1			5	1	1	1				9
Laporte City.....					1		1	2	1			5					2							2
Marshalltown.....	2	1	2		2		1	2				10		1	2		2	1	1	2				9
Mason City.....	2			1	11	1	7	16	8	2		48	2		1		2		10	10	3	1		29
Muscatine.....	5	2	2	2	13	12	16	7	7	2	1	69	5	3	12	10	20	7	32	13	8	3	2	115
Ottumwa.....	1		12	1	15	14	11	4	1	2		61			4	1	5	2	4	1				17
Red Oak.....						1	1					2			3				2	1	1			7
Shenandoah.....					3							3			1			1	1	1	1			4
Sioux City.....	3		18	9	22	8	24	27	9	1	1	122	1		6	2	13	9	13	23	6	1		74
Toledo.....	1							1				2												
Waterloo.....	2	1	5	1	3	6	15	3	2	1		39			2	1	2	3	2	5	2			17
Miscellaneous.....			4		6		3	4	4			21			1		1		5		2			9

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—Continued

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											Totals	Girls											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		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.....	98	43	301	181	353	232	525	388	111	25	3	2,260	53	22	157	75	222	134	445	300	124	30	3	1,565
Boone.....		1			2		2	3				8					4	4	3	4	1			16
Burlington.....	3	2	5	4	10	18	3	6	1			52	1	4	4		1	10	5	8	3			36
Cedar Rapids.....	2	3	28	22	18	20	14	23	8	2		140	1	1	13	11	12	11	16	19	2			86
Clinton.....			8		5	7	10	2	1			33	1		2	1	4	1	5	1				15
Council Bluffs.....	1		8		11		13	13	3			49	2		4		4		4	3				17
Davenport.....	14	2	39	35	39	41	66	60	10	2		308	3	1	9	9	14	11	28	24	8			107
Des Moines.....	33	18	99	72	89	75	163	143	39	8	1	740	15	5	29	30	64	38	100	107	67	17	1	473
Dubuque.....	2	2	14	6	10	1	72	14	2	1		124	6	1	35	4	26	14	147	48	12	5		298
Fairfield.....	1		1		5		4	4				15							2	1	1			4
Fort Dodge.....	1		2	1	4	1	1					10	3	1	2		2		1	3				12
Fort Madison.....			2		6		4		1			13		1	1			1	2		1			6
Keokuk.....	5	5	16	2	17	2	16	1		1		65		1	3		6	1	2	1				14
Laporte City.....			1		3		3	3	1	1		12					2							2
Marshalltown.....	6	2	3		3		6	4				24	1	1	4	1	2	1	2	2				14
Mason City.....	5	3	3	1	17	1	22	28	9	3		92	2		3		5		15	15	3	1		44
Muscatine.....	9	3	5	6	24	24	26	17	8	2	1	125	14	4	21	14	27	19	58	24	11	5		199
Ottumwa.....	2		18	10	21	15	14	8	4	3		95			6	1	9	2	6	1				25
Red Oak.....			1			1	1					3			3				4	1	1			9
Shenandoah.....			1		3			1				5			1		3		5		1	1		11
Sioux City.....	10		32	20	44	16	45	43	15	1	1	227	4	2	11	3	25	17	31	29	9	1		132
Toledo.....	1		2		1		4	1				9			2		1		1	1				5
Waterloo.....	3	2	8	2	7	10	23	8	3	1		67			3	1	5	4	2	8	2			25
Miscellaneous.....			5		14		13	6	6			44			1		6		6		2			15

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—Compiled from work permits issued for bienniums ending June 30, 1920 and 1922

PART I—BOYS 14 TO 15 YEARS

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	Av'ge Weig't		
47				1																								1	79.00		
48					1		2	1																				4	90.00		
49					2	1	1																					4	85.00		
50		1	1	2	1				1																			6	78.50		
51				1		1			1		1																	4	91.50		
52		1	1	3	2																							7	75.14		
53		2	1	1		1	3	2		1	1																	12	87.08		
54		3	1	1	7	4	2	5	4	1	2																	30	88.40		
55		3	10	10	5	3	1		1			1																34	77.85		
56		3	5	20	20	15	8	7	6	1		3	1															89	85.18		
57		3	7	17	14	19	15	6	1	2		1		1														86	87.58		
58	1		3	27	44	55	36	19	2	7	2		1															197	84.26		
59			5	12	26	62	50	40	18	9	3		1															226	87.69		
60			2	10	25	67	83	76	71	20	16	12	11	1	1													395	95.72		
61				2	11	34	49	58	53	34	17	10	5	2	3		1	1	1									282	99.52		
62			1	2	6	24	56	73	96	60	46	55	22	14	4	4	3	1	1									468	99.63		
63		1		4		6	21	51	75	55	68	49	19	11	7	4	1				1							373	106.72		
64					1	3	12	43	53	69	81	71	45	27	15	5	1	1			3							430	116.87		
65							2	11	15	38	41	37	32	27	18	12	2	2		3								240	116.57		
66					1	1	3	3	13	21	18	36	35	34	14	20	6	2	8	3								219	120.24		
67					1			3	4	4	8	14	16	15	20	10	9	4	2									110	124.61		
68					1	1	1		1		5	6	14	10	11	17	6		3	1				1	1			81	130.42		
69					2	1			1		4	1	8	4	9	7	4	4	2	3						1	1	52	133.50		
70					1						2	3	6		2	2	1	4	3		1							25	130.48		
71						1					1		1		5		2			1								11	127.91		
72							2								1													3	105.33		
73											1																	1	112.00		
74																															
75									1				1								1							3	127.33		
Total cases	1	17	37	113	171	299	347	400	415	323	316	299	217	147	110	81	36	19	17	13	7	1		2	1	1	3	3,393	104.20		

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

Correlation Between Heights and Weights of Iowa Boys and Girls, Heights in Inches, Weights in 5-lb. Groups—Compiled from work permits issued for bienniums ending June 30, 1920 and 1922

PART II—BOYS 15 TO 16 YEARS

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	Av'ge Weig't
48.....						2	2																					4	88.50
49.....							1	1																				2	93.00
50.....				1			3																					4	87.75
51.....						4	3																					7	83.86
52.....				1						1																		2	90.00
53.....					1		2		1																			4	90.75
54.....		2	2	3	3	2	1	1	1				1															16	82.88
55.....			5	5	1	6		1				1																19	82.32
56.....		2	4	3	15	9	6	3	4		1																	47	85.36
57.....				7	4	9	11	8	1	1	1																	42	86.74
58.....		1	2	15	23	32	33	19	6	4	2																	137	87.79
59.....				9	23	31	28	30	14	4	4			1		1												145	91.92
60.....		1		5	22	43	41	75	53	34	22	7	9	3		1	2				3							322	98.11
61.....					4	24	45	64	31	27	28	14	11	6	4	1				1								260	101.40
62.....					4	12	38	78	77	58	59	33	28	10	3	3	1											404	104.87
63.....					2	9	14	32	77	76	70	39	33	18	7	4	2	2	2					2				389	109.27
64.....			1	1		1	7	28	48	79	85	67	61	40	20	16	6	1										461	111.96
65.....		1		2	1	3	2	10	21	29	37	47	50	37	23	12	7	5	4									292	117.78
66.....						2	2	3	9	18	32	50	47	64	38	30	16	13	8								1	334	126.75
67.....							1			6	11	23	31	34	22	28	11	6	4	2	2	3	1		2			187	123.82
68.....					1	1			1	3	8	11	20	17	25	24	9	9	6	5	3		1					146	130.32
69.....								1			1	4	5	15	15	16	14	5	6	2	1						1	86	135.14
70.....							1				4	2	1	8	7	15	6	3	8	3								58	132.17
71.....					1	1	2					1	1	1	4	6	5	5	1		1	2						31	130.35
72.....										1				1	2		2	5	2		1							14	140.00
73.....													1		1		1		1			2						6	146.50
Total cases.....		7	14	52	105	191	243	356	344	341	365	299	299	255	172	156	82	54	42	16	8	10	4		2		2	3,419	110.64

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

Correlation Between Heights and Weights of Iowa Boys and Girls, Heights in Inches, Weights in 5-lb. Groups—Compiled from work permits issued for bienniums ending June 30, 1920 and 1922

## PART III—GIRLS 14 TO 15 YEARS

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	Av'ge Weig't	
48.....			1				1																					2	80.00	
49.....																														
50.....								2																				2	95.00	
51.....																						1						1	164.00	
52.....					1		1		1				1															4	100.00	
53.....									3		1																	4	104.25	
54.....							4	2			1	1																8	94.63	
55.....		2		2		2		2		1																		9	80.78	
56.....		1			3	1	1	2	4		1	1		1														15	95.73	
57.....			1	3	2	2	1	4	2	1			1															17	90.71	
58.....			2	6	6	4	5	3	3	2	2				1													34	90.12	
59.....			3	5	11	13	12	10	7	7	5	5		1														79	93.67	
60.....				3	9	31	31	44	32	19	11	9	6	3	1	1				1								201	97.83	
61.....				3	7	16	25	39	29	29	27	13	9	5		3	1	1			1							208	102.30	
62.....					3	14	25	38	74	46	39	32	18	11	4	1	2	3	2			1					1	314	106.70	
63.....					2	8	11	40	53	52	31	37	22	15	8	8	1		2		1							291	108.99	
64.....						6	12	14	49	42	40	33	15	14	18	8	5	4	2	3								265	111.62	
65.....						1	2	7	15	15	22	16	17	12	11	7	7	2	3	2						2		141	118.07	
66.....							1	1	10	12	17	12	7	14	4	7	6	2	2	1									96	119.82
67.....									2	2	10	4	7	4	1	2		1				1							35	120.82
68.....										1	2	3	1	4		2		1		1		1							16	121.00
69.....							1				1		1	2	1	2		1											9	125.22
70.....								1							1														2	114.50
71.....																														
72.....														1															1	127.00
73.....										1																			1	109.0
Total cases.....		3	7	22	44	98	133	209	283	231	210	166	105	87	50	41	33	15	11	8	3	3			1		2	1	1,755	107.04

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

Correlation Between Heights and Weights of Iowa Boys and Girls, Heights in Inches, Weights in 5-lb. Groups—Compiled from work permits issued for bienniums ending June 30, 1920 and 1922

PART IV—GIRLS 15 TO 16 YEARS

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	Av'ge Weig't	
50.....					1		1	1																				3	91.67	
51.....									1	1																		2	95.00	
52.....																													3	92.00
53.....						1	1	1																				4	106.50	
54.....									1	1		2																4	100.50	
55.....					2						1	1																8	93.25	
56.....			1	1			1	1	3	1																		9	87.11	
57.....	1			1		3	2	1			1																	35	95.51	
58.....				1	1	9	6	5	6	3	1	3																61	95.30	
59.....			2	8	1	13	5	11	7	4	6	1		2			1											210	103.08	
60.....			1	1	13	16	18	43	38	19	24	14	7	5	3	3	1	1	1			1			1		240	105.09		
61.....					7	13	13	31	43	51	35	22	14	4	4	1			1						1		380	104.26		
62.....			2		3	11	27	40	68	69	46	31	36	12	19	7	4	2		1	2						409	109.61		
63.....				1	3	7	14	47	59	55	71	45	35	33	19	12	3	2	1						2		383	114.16		
64.....					2	4	10	25	57	51	52	63	41	21	24	11	7	9	3	2			1				223	117.33		
65.....					2		1	6	16	17	25	35	34	20	25	20	8	8	3	2					1		161	119.80		
66.....					2	1	3	2	16	13	22	22	20	24	15	5	7	3	2			1				3	66	125.77		
67.....									3	3	7	12	12	7	7	7	1	3	1		1		1				1	32	126.63	
68.....				1						1	2	3	4	7	4	4	4	1	1								21	138.00		
69.....										2		3	4		2	3	2	3	1				1				9	125.11		
70.....									3	1			1			1	1	1			1						1	1	135.00	
71.....																1												1	129.00	
72.....														1														1	116.00	
73.....																														
74.....												1																1		
Total cases.....	1		6	14	37	78	102	216	319	292	292	258	209	136	122	75	39	33	14	5	4	2	2	1	5	3	1	2,266	110.11	

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS

Heights and Weights of Boys and Girls granted work permits July 1, 1920, to July 1, 1922, by Locality

PART I—AGES 14 TO 14½ YEARS

Locality	Boys				Girls			
	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch
The State.....	465	61.31	104.71	1.71	238	61.66	105.52	1.72
Boone.....	2	62.50	97.50	1.56	2	63.00	101.50	1.61
Bur ington.....	12	59.98	99.77	1.66	5	64.00	107.40	1.68
Cedar Rapids.....	30	62.65	107.13	1.71	8	62.12	109.37	1.76
Clinton.....	3	58.34	100.00	1.71	1	62.00	115.00	1.85
Council Bluffs.....	17	61.44	98.53	1.60	3	58.33	102.66	1.76
Davenport.....	57	61.68	106.12	1.72	11	62.27	109.00	1.76
Des Moines.....	153	57.13	100.86	1.76	72	55.52	108.87	1.66
Dubuque.....	17	61.47	109.70	1.78	40	62.05	109.02	1.75
Fairfield.....	5	62.00	100.00	1.61				
Fort Dodge.....	1	57.00	92.00	1.61	1	60.00	105.00	1.67
Fort Madison.....	2	63.50	117.50	1.85				
Keokuk.....	15	62.46	109.46	1.75	5	62.80	95.60	1.52
Laporte City.....	5	59.40	96.60	1.63				
Marshalltown.....	8	62.50	90.87	1.45	2	59.50	92.50	1.55
Mason City.....	19	61.98	109.21	1.76	5	60.00	118.80	1.98
Muscatine.....	23	63.21	116.26	1.84	44	61.75	103.13	1.67
Ottumwa.....	16	63.75	114.12	1.79	2	65.00	115.00	1.77
Pella.....	1	56.00	100.00	1.79	1	62.00	91.00	1.47
Red Oak.....	1	63.00	112.00	1.78	2	61.50	100.00	1.63
Shenandoah.....					6	61.33	96.00	1.57
Sioux City.....	53	62.81	102.32	1.63	23	62.60	107.47	1.72
Toledo.....	3	62.34	108.33	1.74	3	63.00	113.66	1.80
Waterloo.....	11	62.81	114.27	1.82	1	66.00	120.00	1.82
Miscellaneous*.....	11	62.20	105.80	1.70	1	60.00	100.00	1.67

NOTE: Miscellaneous includes one boy from Ames, one boy from Atlantic, one boy from Garrison, one boy from Storm Lake, one boy from Washington, three boys from Fairfield, three boys from Iowa City. Miscellaneous also includes one girl from Newton.

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS—Continued

Heights and Weights of Boys and Girls granted work permits July 1, 1920, to July 1, 1922, by Locality

PART II—AGES 14½ TO 15 YEARS

Locality	Boys				Girls			
	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch	Numbr of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch
The State.....	523	62.65	111.27	1.78	303	62.26	110.06	1.61
Boone.....	1	63.00	115.00	1.83	1	61.00	135.00	2.21
Burlington.....	17	62.41	107.00	1.71	10	63.90	116.90	1.83
Cedar Rapids.....	22	62.77	117.04	1.86	13	63.08	119.00	1.89
Clinton.....	9	62.67	114.56	1.83	2	61.50	107.50	1.75
Council Bluffs.....	10	60.20	103.30	1.72	3	61.67	106.67	1.73
Davenport.....	73	62.55	106.26	1.70	27	63.26	107.81	1.70
Des Moines.....	189	63.26	110.12	1.74	96	62.65	113.28	1.81
Dubuque.....	14	63.07	110.21	1.75	43	62.35	106.90	1.71
Fairfield.....	3	60.33	96.66	1.60				
Fort Dodge.....	2	65.00	123.00	1.89	2	53.50	77.00	1.44
Fort Madison.....	5	64.40	113.40	1.76				
Keokuk.....	11	62.63	105.81	1.69	2	63.50	104.00	1.64
Laporte City.....	2	58.00	114.00	1.97				
Marshalltown.....	7	63.14	118.00	1.87	3	64.00	137.34	2.14
Mason City.....	24	61.50	107.83	1.75	9	62.78	109.00	1.74
Muscatine.....	28	62.14	107.21	1.73	43	63.25	104.91	1.66
Oskaloosa.....	2	61.50	105.00	1.71	1	62.00	100.00	1.61
Ottumwa.....	19	63.89	118.89	1.86	5	63.60	108.60	1.71
Shenandoah.....	1	64.00	126.00	1.97	3	64.34	108.67	1.69
Sioux City.....	54	63.24	109.41	1.73	31	62.55	114.35	1.83
Toledo.....	3	63.34	110.34	1.58	3	61.67	110.67	1.79
Waterloo.....	16	62.75	109.06	1.74	7	63.57	119.00	1.87
Miscellaneous*.....	11	65.11	111.22	1.71	4	61.00	94.75	1.55

NOTE (\*). Miscellaneous includes one boy from each of the following: Ames, Buffalo, Centerville, Denison, Newton, Pella, Grinnell, Eldora, Storm Lake, and two boys from Atlantic. Miscellaneous also includes one girl from Centerville, one girl from Wilton Junction, and two girls from Grinnell.

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS—Continued

Heights and Weights of Boys and Girls granted work permits July 1, 1920, to July 1, 1922, by Locality

## PART III—AGES 15 TO 15½ YEARS

Locality	Boys				Girls			
	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch
The State.....	601	62.66	108.86	1.74	439	62.89	108.41	1.72
Boone.....	4	65.25	118.00	1.81	3	61.34	102.67	1.67
Burlington.....	16	63.12	111.56	1.77	3	63.00	115.34	1.83
Cedar Rapids.....	48	64.42	116.00	1.80	39	63.95	115.24	1.80
Clinton.....	9	63.45	105.00	1.65	3	63.34	115.00	1.82
Council Bluffs.....	16	62.25	115.31	1.85	2	62.50	123.50	1.98
Davenport.....	94	62.71	106.83	1.70	33	63.39	113.61	1.80
Des Moines.....	188	63.31	111.41	1.76	133	63.20	114.27	1.81
Dubuque.....	27	61.18	105.29	1.72	75	62.97	109.06	1.73
Fairfield.....	3	64.34	117.67	1.83	1	61.00	100.00	1.64
Fort Dodge.....	5	59.40	96.60	1.63	3	63.67	118.67	1.86
Fort Madison.....	5	62.00	113.00	1.82	4	62.00	101.75	1.64
Garrison.....	1	60.00	84.00	1.40	2	64.00	122.50	1.91
Keokuk.....	15	61.57	111.73	1.81	8	61.38	108.50	1.77
Marshalltown.....	4	63.75	111.00	1.74	5	63.40	122.00	1.92
Mason City.....	21	62.76	114.19	1.82	15	62.40	116.60	1.87
Muscatine.....	27	63.81	109.33	1.71	57	62.58	108.48	1.73
Oskaloosa.....	2	61.00	98.00	1.61	1	61.00	95.00	1.56
Ottumwa.....	33	63.82	114.15	1.79	7	63.43	109.29	1.72
Red Oak.....	1	63.00	107.00	1.70	3	63.67	113.00	1.77
Sioux City.....	56	62.14	111.04	1.79	38	62.73	114.32	1.82
Waterloo.....	15	63.40	110.13	1.74	6	64.00	117.00	1.83
Miscellaneous*.....	11	61.91	107.73	1.74	6	64.67	120.00	1.86

NOTE (\*). Miscellaneous includes one boy from each of the following: Atlantic, Perry, Toledo, and Wilton Junction; also two boys from Newton, two boys from Iowa City, and three boys from La Porte City. Miscellaneous also includes one girl from Guttenburg and five girls from Shenandoah.



TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS—Continued

Heights and Weights of Boys and Girls granted work permits July 1, 1920, to July 1, 1922, by Locality

## PART IV—AGES 15½ TO 16 YEARS

Locality	Boys				Girls			
	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch
The State.....	602	63.60	115.28	1.81	487	63.20	114.15	1.81
Atlantic.....	4	64.75	123.25	1.90	1	60.00	110.00	1.83
Boone.....	2	60.50	97.50	1.61	10	62.60	112.50	1.80
Burlington.....	13	63.38	116.54	1.84	12	63.50	110.58	1.74
Cedar Rapids.....	39	63.97	113.95	1.78	32	63.62	116.93	1.84
Clinton.....	8	63.88	116.00	1.82	7	63.86	114.71	1.80
Council Bluffs.....	14	62.29	110.78	1.78	4	65.00	114.00	1.75
Davenport.....	82	63.08	111.89	1.77	35	65.14	112.97	1.73
Des Moines.....	198	64.39	117.58	1.83	168	63.05	116.28	1.84
Dubuque.....	30	63.10	109.86	1.74	64	62.86	108.63	1.73
Fairfield.....	4	66.00	117.25	1.78	3	63.00	127.67	2.03
Fort Dodge.....	3	61.34	101.67	1.66	3	62.67	112.00	1.79
Fort Madison.....	2	64.50	114.00	1.77	1	62.00	112.00	1.81
Keokuk.....	19	63.95	118.73	1.86	5	61.40	117.60	1.92
Marshalltown.....	4	64.25	119.00	1.85	4	63.00	115.75	1.84
Mason City.....	25	64.12	121.40	1.89	14	62.85	109.92	1.75
Muscatine.....	32	64.41	119.00	1.85	61	61.77	103.03	1.67
Ottumwa.....	29	64.21	117.34	1.83	8	63.63	119.13	1.87
Shenandoah.....	2	61.00	121.00	1.98	2	64.00	115.00	1.80
Sioux City.....	57	65.11	118.16	1.81	39	64.13	118.85	1.85
Waterloo.....	24	64.13	120.38	1.88	11	63.09	113.55	1.80
Miscellaneous.....	11	63.18	115.54	1.83	3	66.00	116.00	1.76

NOTE. Miscellaneous includes 1 boy from Clarinda, 2 boys from Grinnell, 4 boys from La Porte City, 3 boys from Newton, 1 boy from Vinton; also 2 girls from Ames and 1 girl from Valley Junction.

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS—Continued  
 Heights and Weights of Boys and Girls granted work permits July 1, 1920, to July 1, 1922, by Locality

## PART V—AGES 14 TO 15 YEARS

Locality	Boys				Girls			
	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch
The State.....	988	61.92	108.22	1.75	541	62.40	107.01	1.71
Boone.....	3	62.75	106.25	1.69	3	62.00	118.25	1.91
Burlington.....	29	61.19	103.39	1.69	15	63.95	112.15	1.75
Cedar Rapids.....	52	62.71	112.09	1.79	21	62.60	114.18	1.82
Clinton.....	12	60.55	107.28	1.77	3	61.75	111.25	1.80
Council Bluffs.....	27	62.12	106.19	1.71	6	62.77	108.41	1.73
Davenport.....	130	60.19	105.49	1.75	28	59.09	111.08	1.88
Des Moines.....	342	60.82	100.02	1.66	168	60.00	104.67	1.74
Dubuque.....	31	62.27	109.96	1.77	83	62.20	107.98	1.74
Fairfield.....	8	61.16	98.33	1.61				
Fort Dodge.....	3	61.00	107.50	1.76	3	66.75	88.50	1.33
Fort Madison.....	7	63.95	115.45	1.81				
Keokuk.....	26	62.55	107.64	1.72	7	63.15	99.80	1.58
Laporte City.....	7	58.70	105.30	1.79				
Marshalltown.....	15	62.82	104.43	1.66	5	61.75	114.92	1.86
Mason City.....	43	61.79	108.52	1.76	14	61.39	113.90	1.86
Muscatine.....	51	62.68	111.74	1.78	87	62.50	104.02	1.66
Oskaloosa.....	2	61.50	105.00	1.71	3	62.00	100.00	1.61
Ottumwa.....	35	63.82	116.51	1.83	6	64.30	111.80	1.74
Pella.....	1	56.00	100.00	1.79	1	62.00	91.00	1.47
Red Oak.....	1	63.00	112.00	1.78	2	61.50	100.00	1.63
Shenandoah.....	1	64.00	126.00	1.97	9	62.84	102.34	1.63
Sioux City.....	107	63.03	105.87	1.68	54	62.58	110.91	1.77
Toledo.....	6	62.84	109.34	1.74	6	62.34	112.16	1.80
Waterloo.....	27	62.78	111.67	1.78	8	64.79	119.50	1.84
Miscellaneous.....	22	63.66	108.51	1.70	5	60.50	97.38	1.61

NOTE. Miscellaneous includes 3 boys from Iowa City, 3 boys from Fairfield, 3 boys from Atlantic, 2 boys from Ames, 2 boys from Storm Lake, and 1 boy from each of the following: Buffalo, Centerville, Denison, Garrison, Newton, Grinnell, Pella, Eldora and Washington. Miscellaneous also includes 1 girl from Centerville, 1 girl from Newton, 1 girl from Wilton Junction, and 2 girls from Grinnell.

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS—Continued

Heights and Weights of Boys and Girls granted work permits July 1, 1920, to July 1, 1922, by Locality

## PART VI—AGES 15 TO 16 YEARS

Locality	Boys				Girls			
	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch
The State.....	1,203	63.00	111.44	1.77	926	62.99	113.35	1.80
Atlantic.....	4	64.75	123.25	1.90	1	60.00	110.00	1.83
Boone.....	6	62.88	107.75	1.71	13	61.98	107.59	1.74
Burlington.....	29	63.25	114.05	1.79	15	63.25	112.96	1.79
Cedar Rapids.....	87	64.19	114.98	1.79	71	63.78	116.09	1.82
Clinton.....	17	63.67	110.50	1.74	9	63.60	114.86	1.81
Council Bluffs.....	30	62.27	113.05	1.82	6	63.75	118.75	1.86
Davenport.....	176	62.89	109.36	1.74	68	64.27	113.29	1.76
Des Moines.....	386	63.85	114.49	1.79	201	63.13	115.28	1.83
Dul uque.....	57	62.14	107.58	1.73	139	62.93	108.84	1.73
Fairfield.....	7	65.17	117.46	1.80	4	62.00	113.84	1.84
Fort Dodge.....	8	60.37	99.14	1.64	6	63.17	115.34	1.83
Fort Madison.....	7	63.25	113.50	1.79	5	62.00	112.00	1.81
Garrison.....	1	60.00	84.00	1.40	2	64.00	122.50	1.91
Keckuk.....	34	62.76	115.23	1.84	13	61.39	113.05	1.84
Marshalltown.....	8	64.00	115.00	1.80	9	63.20	118.87	1.88
Mason City.....	46	63.44	117.79	1.86	29	62.63	113.26	1.81
Muscatine.....	59	64.11	114.16	1.78	118	62.18	105.76	1.70
Oskaloosa.....	2	61.00	98.00	1.61	1	61.00	95.00	1.56
Ottumwa.....	62	64.02	115.75	1.81	15	63.53	114.21	1.80
Red Oak.....	1	63.00	107.00	1.70	3	63.67	113.00	1.77
Shenandoah.....	2	61.00	121.00	1.98	2	64.00	115.00	1.80
Sioux City.....	113	63.63	114.60	1.80	77	63.43	116.59	1.84
Waterloo.....	39	63.67	115.26	1.81	17	63.54	115.28	1.81
Miscellaneous.....	22	62.54	111.64	1.79	9	65.34	119.00	1.82

CHILD LABOR STATISTICS

NOTE. Miscellaneous includes one boy from each of the following: Atlantic, Clarinda, Perry, Toledo, Vinton, and Wilton Junction; 2 boys from Grinnell, 2 boys from Iowa City, 5 boys from Newton, and 7 boys from La Porte City; also 1 girl from Guttenberg, 1 girl from Valley Junction, 2 girls from Ames and 5 girls from Shenandoah.

TABLE NO. 3—CHILDREN RECEIVING WORK PERMITS—Continued

Heights and Weights of Boys and Girls granted work permits July 1, 1920, to July 1, 1922, by Locality

PART VII—AGES 14 TO 16 YEARS

Locality	Boys				Girls			
	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch	Number of Children	Average Height in Inches	Average Weight in Pounds	Number Pounds per Inch
The State.....	2,191	62.46	109.83	1.76	1,467	62.69	110.18	1.76
Ames.....	2	63.00	110.00	1.75	2	67.00	117.00	1.75
Atlantic.....	8	65.15	121.86	1.87	1	60.00	110.00	1.83
Boone.....	9	62.83	107.00	1.70	16	61.99	110.42	1.78
Buffalo.....	1	61.00	105.00	1.72				
Burlington.....	58	62.22	108.72	1.75	30	63.60	112.56	1.77
Cedar Rapids.....	139	63.45	113.54	1.79	92	63.19	115.14	1.82
Centerville.....	1	62.00	115.00	1.85	1	62.50	103.00	1.65
Clarinda.....	1	64.00	126.00	1.97	2	60.50	97.50	1.61
Clinton.....	29	62.11	108.89	1.75	12	62.68	113.06	1.80
Council Bluffs.....	57	61.54	106.98	1.74	12	61.88	111.71	1.81
Davenport.....	316	62.51	107.78	1.72	96	63.52	110.85	1.75
Des Moines.....	728	62.02	109.99	1.77	369	61.11	113.18	1.85
Denison.....	2	64.75	104.50	1.61				
Dubuque.....	88	62.21	108.77	1.75	222	62.57	108.40	1.73
Eldora.....	1	65.00	125.00	1.92				
Fairfield.....	15	63.16	107.89	1.71	4	62.00	113.84	1.84
Forest City.....	3	61.00	105.00	1.72				
Fort Dodge.....	11	60.69	103.32	1.70	9	64.96	101.92	1.57
Fort Madison.....	14	63.60	114.48	1.80	5	62.00	112.00	1.81
Garrison.....	2	59.00	84.00	1.42	2	64.00	123.00	1.92
Grinnell.....	3	63.00	100.67	1.60	2	60.50	95.50	1.58
Guttenberg.....					1	64.50	120.00	1.86
Iowa City.....	5	63.20	108.20	1.71				
Keokuk.....	60	62.66	111.43	1.78	20	62.27	106.42	1.71
Laporte City.....	14	59.99	106.22	1.77				
Marshalltown.....	23	63.41	109.72	1.73	14	62.48	116.89	1.87
Mason City.....	89	62.61	113.16	1.81	43	62.01	113.58	1.83
Muscatine.....	110	63.39	112.96	1.78	205	62.34	104.89	1.68

Newton.....	5	62.60	107.20	1.71	1	60.00	100.00	1.67
Oskaloosa.....	4	61.50	101.50	1.65	2	61.50	97.50	1.59
Ottumwa.....	97	63.92	116.13	1.82	21	63.92	113.01	1.77
Pella.....	3	61.67	94.67	1.54				
Perry.....	1	63.00	113.00	1.79				
Red Oak.....	2	63.00	109.50	1.74	8	62.50	109.50	1.75
Shenandoah.....	3	62.50	123.50	1.98	11	63.42	108.67	1.71
Sioux City.....	220	63.33	110.24	1.74	131	63.01	113.75	1.81
Storm Lake.....	2	66.00	110.50	1.67				
Toledo.....	7	63.29	109.23	1.73	6	62.34	112.17	1.80
Valley Junction.....					1	64.00	114.00	1.78
Vinton.....	1	65.00	118.00	1.82				
Washington.....	1	66.00	130.00	1.97				
Waterloo.....	66	63.28	113.47	1.79	25	64.17	117.39	1.83
Wilton Junction.....	1	61.00	110.00	1.80	1	61.00	85.00	1.39

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