

UNITED STATES DEPARTMENT OF LABOR

W. N. DOAK, Secretary

BUREAU OF LABOR STATISTICS

ETHELBERT STEWART, Commissioner

BULLETIN OF THE UNITED STATES } No. 555
BUREAU OF LABOR STATISTICS }

EMPLOYMENT AND UNEMPLOYMENT SERIES

**SOCIAL AND ECONOMIC CHARACTER
OF UNEMPLOYMENT IN PHILADELPHIA
APRIL, 1930**

By

**J. FREDERIC DEWHURST
and ROBERT R. NATHAN**

Industrial Research Department
Wharton School of Finance and Commerce
University of Pennsylvania



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Preface

This survey is the result of the second of a series of studies on unemployment made by the industrial research department of the University of Pennsylvania. The first survey was undertaken in April, 1929, in an effort to collect statistical data showing the unemployment conditions in the city at that time, and also to establish a base for measuring changes taking place between certain periods of time. It is only by first obtaining adequate material to work with that the true conditions can be determined and efforts extended toward correcting the situation. Unemployment is an important problem and, because of technological changes, it is rapidly becoming a major social burden. On account of the significance of the problem, numerous other investigations have been undertaken by this department and many more will follow.

The most desirable method of making such a survey would be to make a house-to-house canvass of the entire city, but as this was out of the question, the next best method was undertaken. That was to select representative areas of the city as samples and to make a complete canvass of these scattered sections. At the time the first survey was being contemplated, it was learned that the bureau of compulsory education was also planning to undertake an unemployment survey. To eliminate any duplication of effort, the two agencies decided to cooperate in the survey, the data to be collected by the bureau of compulsory education and the analysis to be handled by the department of industrial research.

Much credit is due to Mr. Henry J. Gideon, supervisor of the bureau, for his kind cooperation with this department and for his able supervision of the work done by his staff. The 94 attendance officers who covered the sample areas deserve considerable credit for their efficient efforts in filling out the questionnaires in addition to their usual work. Special acknowledgment is also due to the following attendance supervisors for their intelligent supervision: Elizabeth W. Davis, district 1; Nelson Ogden, district 2; Joseph A. Snee, district 3; Samuel E. Van Houten, district 4; Albert W. Whitaker, district 5; Joseph W. Temple, district 6; Carson G. Hansell, district 7; H. Forest Kerbaugh, district 8; Leah A. Gingrich, district 9; and James Marks, district 10.

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Appendix.—Part-time Unemployment Data

In order that the text should not be broken up too much by tables, it was decided to assemble most of the tables analyzing part-time unemployment in one group and to present them in this appendix.

TABLE 1.—Number and per cent of white persons and of Negroes unable to find work

| District | White persons | | | Negroes | | | All races | | |
|-------------|-------------------------|---------------------|----------|-------------------------|---------------------|----------|-------------------------|---------------------|----------|
| | Number usually employed | Unable to find work | | Number usually employed | Unable to find work | | Number usually employed | Unable to find work | |
| | | Number | Per cent | | Number | Per cent | | Number | Per cent |
| No. 1..... | 6,775 | 213 | 3.1 | 247 | 19 | 0.4 | 7,050 | 234 | 3.3 |
| No. 2..... | 5,027 | 122 | 2.4 | 1,958 | 120 | 6.1 | 7,207 | 245 | 3.4 |
| No. 3..... | 4,535 | 281 | 6.2 | 258 | 22 | 8.5 | 4,837 | 310 | 6.4 |
| No. 4..... | 5,599 | 78 | 1.4 | 2,137 | 44 | 2.0 | 7,801 | 124 | 1.6 |
| No. 5..... | 7,438 | 158 | 2.1 | 1,931 | 50 | 2.6 | 9,451 | 210 | 2.2 |
| No. 6..... | 3,287 | 126 | 3.8 | 1,731 | 145 | 8.4 | 5,032 | 271 | 5.4 |
| No. 7..... | 5,935 | 211 | 3.6 | 449 | 15 | 3.3 | 6,418 | 226 | 3.5 |
| No. 8..... | 8,789 | 188 | 2.2 | 661 | 9 | 1.4 | 9,466 | 197 | 2.1 |
| No. 9..... | 7,728 | 386 | 5.0 | (¹) | ----- | ----- | 7,767 | 387 | 5.0 |
| No. 10..... | 4,512 | 195 | 4.3 | 308 | 27 | 8.8 | 4,865 | 225 | 4.6 |
| Total..... | 59,625 | 1,958 | 3.3 | 9,680 | 451 | 4.7 | 69,894 | 2,429 | 3.5 |

¹ No Negroes usually employed.

TABLE 2.—Number and per cent of unemployed persons, by customary occupations and by districts

| District | Number of unemployed persons in all occupations | Unemployed persons in specified customary occupations | | | | | | | |
|-------------|---|---|----------|----------|----------|-----------|----------|-------------|----------|
| | | Manual | | Clerical | | Executive | | Unspecified | |
| | | Number | Per cent | Number | Per cent | Number | Per cent | Number | Per cent |
| No. 1..... | 288 | 234 | 81.3 | 40 | 13.9 | 9 | 3.1 | 5 | 1.7 |
| No. 2..... | 314 | 269 | 85.7 | 20 | 6.4 | 2 | .6 | 23 | 7.3 |
| No. 3..... | 382 | 343 | 89.8 | 8 | 2.1 | 5 | 1.3 | 26 | 6.8 |
| No. 4..... | 146 | 133 | 91.1 | 5 | 3.4 | ----- | ----- | 8 | 5.5 |
| No. 5..... | 364 | 301 | 82.7 | 22 | 6.0 | 5 | 1.4 | 36 | 9.9 |
| No. 6..... | 381 | 338 | 88.7 | 11 | 2.9 | 2 | .5 | 30 | 7.9 |
| No. 7..... | 434 | 236 | 54.4 | 5 | 1.2 | 1 | .2 | 102 | 44.2 |
| No. 8..... | 493 | 445 | 90.2 | 21 | 4.3 | 2 | .4 | 25 | 5.1 |
| No. 9..... | 448 | 422 | 94.2 | 19 | 4.2 | 3 | .7 | 4 | .9 |
| No. 10..... | 398 | 246 | 61.8 | 10 | 2.5 | 1 | .3 | 141 | 35.4 |
| Total..... | 3,648 | 2,967 | 81.4 | 161 | 4.4 | 30 | .8 | 400 | 13.4 |

TABLE 3.—Number of persons in family usually employed compared with number unemployed

| Number in family usually employed | Number of families | Families with un-employed workers | | Number of families with specified number unemployed | | | | |
|-----------------------------------|--------------------|-----------------------------------|----------|---|-------|-------|-------|-------|
| | | Number | Per cent | 1 | 2 | 3 | 4 | 5 |
| None..... | 475 | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 1 person..... | 16,914 | 920 | 5.4 | 920 | ----- | ----- | ----- | ----- |
| 2 persons..... | 10,509 | 904 | 8.6 | 764 | 140 | ----- | ----- | ----- |
| 3 persons..... | 5,103 | 601 | 11.8 | 446 | 120 | 35 | ----- | ----- |
| 4 persons..... | 2,348 | 330 | 14.1 | 205 | 72 | 37 | 16 | ----- |
| 5 persons..... | 873 | 127 | 14.5 | 67 | 33 | 16 | 8 | 3 |
| 6 persons..... | 287 | 45 | 15.7 | 16 | 17 | 4 | 5 | 3 |
| 7 persons..... | 109 | 15 | 13.8 | 8 | 4 | 2 | ----- | ----- |
| 8 persons..... | 31 | 7 | 22.6 | 3 | 2 | 1 | ----- | ----- |
| 9 persons..... | 13 | 2 | 15.4 | 2 | ----- | ----- | ----- | ----- |
| Total..... | 36,665 | 2,951 | 8.0 | 2,431 | 288 | 95 | 29 | 8 |

TABLE 4.—Unemployment in families of different size

| Number in family | Number of families | Families with unemployment | | Number of persons usually employed | Persons unemployed | |
|----------------------|--------------------|----------------------------|----------|------------------------------------|--------------------|----------|
| | | Number | Per cent | | Number | Per cent |
| 1 person..... | 1,052 | 41 | 3.9 | 892 | 41 | 4.6 |
| 2 persons..... | 6,245 | 288 | 4.6 | 7,828 | 306 | 3.9 |
| 3 persons..... | 7,216 | 384 | 5.3 | 11,080 | 441 | 4.0 |
| 4 persons..... | 7,298 | 509 | 7.0 | 12,957 | 594 | 4.6 |
| 5 persons..... | 5,557 | 498 | 9.0 | 11,602 | 600 | 5.2 |
| 6 persons..... | 3,740 | 381 | 10.2 | 8,912 | 482 | 5.4 |
| 7 persons..... | 2,380 | 302 | 12.7 | 6,277 | 381 | 6.1 |
| 8 persons..... | 1,446 | 213 | 14.7 | 4,249 | 305 | 7.2 |
| 9 persons..... | 807 | 148 | 18.3 | 2,564 | 208 | 8.1 |
| 10 persons..... | 490 | 91 | 18.3 | 1,703 | 128 | 7.3 |
| 11 persons..... | 209 | 54 | 25.8 | 750 | 84 | 11.1 |
| 12 persons..... | 112 | 19 | 17.0 | 451 | 31 | 6.9 |
| 13 persons..... | 50 | 13 | 26.0 | 242 | 27 | 11.2 |
| 14 persons..... | 34 | 4 | 11.8 | 171 | 9 | 5.3 |
| 15 persons..... | 14 | 5 | 35.7 | 86 | 8 | 9.3 |
| Over 15 persons..... | 11 | 3 | 27.3 | 51 | 3 | 5.9 |
| Total..... | 30,665 | 2,951 | 8.0 | 69,884 | 3,648 | 5.2 |

TABLE 5.—Number and per cent of persons unable to find work, by districts, sex, and age

| District | Sex | | | Age | | | | | | Total |
|-----------------|-------|---------|-------|----------------|-------------------|----------------|-------------------|-------------------|-------------------|-------|
| | Males | Females | Total | Males | | Females | | Males and females | | |
| | | | | Under 21 years | 21 years and over | Under 21 years | 21 years and over | Under 21 years | 21 years and over | |
| Number | | | | | | | | | | |
| No. 1..... | 179 | 85 | 234 | 27 | 151 | 12 | 43 | 39 | 194 | 233 |
| No. 2..... | 169 | 78 | 245 | 25 | 139 | 25 | 47 | 50 | 186 | 236 |
| No. 3..... | 232 | 77 | 309 | 57 | 175 | 36 | 41 | 93 | 216 | 309 |
| No. 4..... | 87 | 37 | 124 | 10 | 77 | 10 | 27 | 20 | 104 | 124 |
| No. 5..... | 146 | 61 | 207 | 26 | 120 | 15 | 45 | 41 | 165 | 206 |
| No. 6..... | 161 | 110 | 271 | 16 | 145 | 23 | 87 | 39 | 232 | 271 |
| No. 7..... | 158 | 68 | 226 | 23 | 135 | 22 | 46 | 45 | 181 | 226 |
| No. 8..... | 139 | 58 | 197 | 23 | 118 | 23 | 35 | 46 | 151 | 197 |
| No. 9..... | 270 | 110 | 386 | 21 | 254 | 40 | 67 | 61 | 321 | 382 |
| No. 10..... | 157 | 66 | 223 | 27 | 128 | 25 | 40 | 52 | 168 | 220 |
| Total..... | 1,704 | 718 | 2,422 | 255 | 1,440 | 231 | 478 | 486 | 1,918 | 2,404 |
| Per cent | | | | | | | | | | |
| No. 1..... | 70.5 | 23.5 | 100.0 | 15.2 | 84.8 | 21.8 | 78.2 | 16.7 | 83.3 | 100.0 |
| No. 2..... | 69.0 | 31.0 | 100.0 | 15.2 | 84.8 | 34.7 | 65.3 | 21.2 | 78.8 | 100.0 |
| No. 3..... | 75.1 | 24.9 | 100.0 | 24.6 | 75.4 | 46.8 | 53.2 | 30.1 | 69.9 | 100.0 |
| No. 4..... | 70.2 | 29.8 | 100.0 | 11.5 | 88.5 | 27.0 | 73.0 | 16.1 | 83.9 | 100.0 |
| No. 5..... | 70.5 | 29.5 | 100.0 | 17.8 | 82.2 | 25.0 | 75.0 | 19.9 | 80.1 | 100.0 |
| No. 6..... | 59.4 | 40.6 | 100.0 | 9.9 | 90.1 | 20.9 | 79.1 | 14.4 | 85.6 | 100.0 |
| No. 7..... | 69.9 | 30.1 | 100.0 | 14.6 | 85.4 | 32.4 | 67.6 | 19.0 | 81.0 | 100.0 |
| No. 8..... | 70.6 | 29.4 | 100.0 | 16.5 | 83.5 | 39.7 | 60.3 | 23.4 | 76.6 | 100.0 |
| No. 9..... | 71.5 | 28.5 | 100.0 | 7.0 | 92.4 | 37.4 | 62.6 | 16.0 | 84.0 | 100.0 |
| No. 10..... | 70.4 | 29.6 | 100.0 | 17.4 | 82.6 | 38.5 | 61.5 | 23.6 | 76.4 | 100.0 |
| Total..... | 70.4 | 29.6 | 100.0 | 15.0 | 85.0 | 32.6 | 67.4 | 20.2 | 79.8 | 100.0 |

TABLE 6.—Per cent of idle workers unemployed for specified reasons, by districts

| District | Number of unemployed persons | Per cent of idle workers unemployed for each specified reason | | | | |
|-------------|------------------------------|---|----------|----------------|--------------|---------------|
| | | Unable to find work ¹ | Sickness | Superannuation | Indifference | Other reasons |
| No. 1..... | 277 | 84.5 | 6.5 | 2.5 | 0.4 | 6.1 |
| No. 2..... | 281 | 87.2 | 4.6 | .7 | .7 | 0.8 |
| No. 3..... | 329 | 94.2 | 1.2 | 2.2 | 1.5 | .9 |
| No. 4..... | 138 | 89.9 | 3.6 | .7 | .7 | 5.1 |
| No. 5..... | 250 | 84.0 | 5.6 | ----- | 1.2 | 9.2 |
| No. 6..... | 366 | 74.0 | 6.3 | .3 | 1.6 | 17.8 |
| No. 7..... | 238 | 95.0 | 2.1 | .4 | 2.1 | .4 |
| No. 8..... | 257 | 78.6 | 3.9 | 1.2 | .8 | 17.5 |
| No. 9..... | 433 | 89.4 | 1.6 | .9 | .7 | 7.4 |
| No. 10..... | 235 | 95.8 | 3.4 | .4 | .4 | ----- |
| Total..... | 2,804 | 86.6 | 3.8 | 1.0 | 1.0 | 7.6 |

¹ Includes also such reasons as "slack season," "laid off," etc.² Does not include 844 persons for whom the reasons for unemployment were not given.

TABLE 7.—Number and per cent of unemployed persons, by length of time lost since last regular job

| Length of time lost | All unemployed persons | | Per cent of all persons usually employed ¹ |
|---------------------|------------------------|----------|---|
| | Number | Per cent | |
| 1 day and over..... | 13,648 | 100.0 | 5.2 |
| Over 1 week..... | 2,927 | 80.2 | 4.2 |
| Over 1 month..... | 2,488 | 68.2 | 3.6 |
| Over 2 months..... | 2,081 | 57.0 | 3.0 |
| Over 3 months..... | 1,667 | 45.7 | 2.4 |
| Over 4 months..... | 1,363 | 37.4 | 2.0 |
| Over 5 months..... | 1,132 | 31.0 | 1.6 |
| Over 6 months..... | 815 | 22.3 | 1.2 |
| Over 7 months..... | 609 | 19.2 | 1.0 |
| Over 8 months..... | 626 | 17.2 | .9 |
| Over 9 months..... | 581 | 15.9 | .8 |
| Over 10 months..... | 540 | 14.8 | .8 |
| Over 11 months..... | 534 | 14.6 | .8 |
| Over 1 year..... | 223 | 6.1 | .3 |

¹ Includes 665 unemployed who did not specify time lost since last regular job.

TABLE 8.—Number and per cent of unemployed persons, by length of time lost since last regular job and by districts

| District | Number of unemployed persons | Per cent of all workers unemployed for over— | | | | | |
|-------------|------------------------------|--|-----------|------------|--------------|------------|----------|
| | | One week | One month | Two months | Three months | Six months | One year |
| No. 1..... | 288 | 90.6 | 77.8 | 69.4 | 59.0 | 34.7 | 9.7 |
| No. 2..... | 314 | 75.2 | 57.3 | 42.0 | 31.5 | 13.7 | 4.8 |
| No. 3..... | 332 | 95.6 | 84.3 | 73.8 | 59.9 | 29.3 | 5.2 |
| No. 4..... | 146 | 91.8 | 82.2 | 71.9 | 57.5 | 28.1 | 4.8 |
| No. 5..... | 304 | 59.0 | 51.1 | 43.1 | 35.4 | 16.2 | 4.7 |
| No. 6..... | 381 | 92.1 | 80.5 | 64.8 | 50.1 | 25.2 | 6.8 |
| No. 7..... | 434 | 55.3 | 38.7 | 27.6 | 20.0 | 8.5 | 2.3 |
| No. 8..... | 493 | 90.7 | 81.3 | 71.8 | 64.7 | 32.3 | 8.9 |
| No. 9..... | 448 | 94.9 | 82.8 | 68.1 | 49.1 | 20.5 | 6.0 |
| No. 10..... | 398 | 62.1 | 52.3 | 45.0 | 35.9 | 19.1 | 7.3 |
| Total..... | 3,648 | 80.2 | 68.2 | 57.0 | 45.7 | 22.3 | 6.1 |

TABLE 9.—Per cent of unemployed persons, by length of time lost since last regular job and by reasons why unemployed

| Length of time lost | Per cent of persons unemployed for specified reason | | | | | |
|---------------------|---|----------|----------------|--------------|---------------|-------------|
| | Unable to find work | Sickness | Superannuation | Indifference | Other reasons | All reasons |
| 1 day and over..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Over 1 week..... | 92.3 | 87.9 | 92.6 | 82.8 | 90.6 | 80.2 |
| Over 2 weeks..... | 88.7 | 84.1 | 92.6 | 79.3 | 88.7 | 77.1 |
| Over 3 weeks..... | 84.6 | 81.3 | 85.2 | 79.3 | 84.9 | 73.8 |
| Over 1 month..... | 77.6 | 79.4 | 81.5 | 75.9 | 82.5 | 68.2 |
| Over 2 months..... | 64.0 | 70.1 | 74.1 | 72.4 | 68.9 | 57.0 |
| Over 3 months..... | 50.7 | 58.9 | 55.6 | 62.1 | 51.9 | 45.7 |
| Over 4 months..... | 40.9 | 50.5 | 48.1 | 51.7 | 42.5 | 37.4 |
| Over 5 months..... | 33.5 | 45.8 | 44.4 | 51.7 | 36.8 | 31.0 |
| Over 6 months..... | 23.8 | 42.1 | 40.7 | 48.3 | 26.4 | 22.3 |
| Over 7 months..... | 20.7 | 41.1 | 40.7 | 44.8 | 15.6 | 19.2 |
| Over 8 months..... | 18.2 | 41.1 | 40.7 | 44.8 | 13.7 | 17.2 |
| Over 9 months..... | 16.8 | 40.2 | 40.7 | 41.4 | 13.2 | 15.9 |
| Over 10 months..... | 15.5 | 37.4 | 40.7 | 41.4 | 11.8 | 14.8 |
| Over 11 months..... | 15.2 | 37.4 | 40.7 | 41.4 | 11.8 | 14.6 |
| Over 1 year..... | 6.1 | 25.2 | 14.8 | 20.7 | 4.2 | 6.1 |

TABLE 10.—Per cent of persons unable to find work, by length of time lost since last regular job and by sex and race

| Length of time lost | Per cent of persons unable to find work | | | | Total |
|---------------------|---|---------|---------------|---------|-------|
| | Males | Females | White persons | Negroes | |
| 1 day and over..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Over 1 week..... | 92.7 | 92.1 | 93.8 | 86.3 | 80.2 |
| Over 2 weeks..... | 89.6 | 86.9 | 90.0 | 82.7 | 77.1 |
| Over 3 weeks..... | 86.2 | 81.3 | 86.0 | 78.5 | 73.8 |
| Over 1 month..... | 80.3 | 71.9 | 78.8 | 72.9 | 68.2 |
| Over 2 months..... | 67.2 | 57.0 | 65.2 | 59.0 | 57.0 |
| Over 3 months..... | 53.8 | 43.9 | 51.7 | 46.6 | 45.7 |
| Over 4 months..... | 44.5 | 32.6 | 41.9 | 36.4 | 37.4 |
| Over 5 months..... | 36.9 | 25.6 | 34.5 | 28.8 | 31.0 |
| Over 6 months..... | 25.8 | 19.2 | 24.7 | 19.7 | 22.3 |
| Over 7 months..... | 22.2 | 17.3 | 21.3 | 18.2 | 19.2 |
| Over 8 months..... | 19.5 | 15.2 | 18.9 | 15.5 | 17.2 |
| Over 9 months..... | 18.0 | 13.9 | 17.8 | 12.9 | 15.9 |
| Over 10 months..... | 16.8 | 12.5 | 16.6 | 10.9 | 14.8 |
| Over 11 months..... | 16.5 | 12.4 | 16.5 | 10.2 | 14.6 |
| Over 1 year..... | 7.0 | 8.9 | 6.5 | 4.7 | 6.1 |

TABLE 11.—Per cent of persons unable to find work, by length of time lost since last regular job and by occupations

| Length of time lost | Per cent of persons unable to find work | | | Total |
|---------------------|---|----------|-----------|-------|
| | Manual | Clerical | Executive | |
| 1 day and over..... | 100.0 | 100.0 | 100.0 | 100.0 |
| Over 1 week..... | 92.9 | 88.2 | 88.2 | 92.6 |
| Over 2 weeks..... | 89.4 | 80.8 | 88.2 | 89.0 |
| Over 3 weeks..... | 85.2 | 70.2 | 82.4 | 84.8 |
| Over 1 month..... | 77.9 | 70.7 | 82.4 | 77.0 |
| Over 2 months..... | 64.0 | 62.4 | 76.5 | 64.0 |
| Over 3 months..... | 50.3 | 54.1 | 64.7 | 50.6 |
| Over 4 months..... | 40.7 | 37.6 | 58.8 | 40.7 |
| Over 5 months..... | 33.5 | 31.2 | 47.1 | 33.5 |
| Over 6 months..... | 23.7 | 20.2 | 41.2 | 23.7 |
| Over 7 months..... | 20.5 | 19.3 | 41.2 | 20.6 |
| Over 8 months..... | 17.9 | 18.3 | 41.2 | 18.1 |
| Over 9 months..... | 16.6 | 17.4 | 41.2 | 16.8 |
| Over 10 months..... | 15.2 | 16.5 | 41.2 | 15.5 |
| Over 11 months..... | 15.0 | 15.6 | 41.2 | 15.2 |
| Over 1 year..... | 6.0 | 7.8 | 11.8 | 6.1 |

TABLE 12.—*Per cent of persons unable to find work, by length of time lost since last regular job and by sex and age*

| Length of time lost | Persons under 21 years | | | Persons 21 years and over | | |
|---------------------|------------------------|---------|-------|---------------------------|---------|-------|
| | Males | Females | Total | Males | Females | Total |
| 1 day and over..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Over 1 week..... | 92.9 | 93.5 | 93.2 | 92.6 | 92.3 | 92.5 |
| Over 2 weeks..... | 87.8 | 87.4 | 87.7 | 89.9 | 87.4 | 89.3 |
| Over 3 weeks..... | 82.0 | 81.4 | 81.7 | 86.9 | 82.0 | 85.7 |
| Over 1 month..... | 74.9 | 68.8 | 72.0 | 81.2 | 73.8 | 79.4 |
| Over 2 months..... | 59.6 | 50.2 | 55.1 | 68.5 | 60.5 | 66.5 |
| Over 3 months..... | 47.8 | 35.5 | 42.0 | 54.8 | 47.9 | 53.1 |
| Over 4 months..... | 38.0 | 24.2 | 31.5 | 45.6 | 36.6 | 43.4 |
| Over 5 months..... | 30.2 | 17.3 | 24.1 | 38.0 | 30.1 | 36.0 |
| Over 6 months..... | 18.8 | 13.0 | 16.0 | 26.9 | 22.6 | 25.8 |
| Over 7 months..... | 16.5 | 12.6 | 14.2 | 23.1 | 19.9 | 22.3 |
| Over 8 months..... | 13.7 | 10.8 | 12.3 | 20.4 | 17.6 | 19.7 |
| Over 9 months..... | 11.8 | 9.5 | 10.7 | 19.0 | 16.3 | 18.4 |
| Over 10 months..... | 11.8 | 8.7 | 10.3 | 17.6 | 14.5 | 16.8 |
| Over 11 months..... | 11.8 | 8.7 | 10.3 | 17.2 | 14.4 | 16.5 |
| Over 1 year..... | 3.5 | 2.6 | 3.1 | 7.5 | 4.6 | 6.8 |

LIST OF BULLETINS OF THE BUREAU OF LABOR STATISTICS

The following is a list of all bulletins of the Bureau of Labor Statistics published since July, 1912; except that in the case of bulletins giving the results of periodic surveys of the bureau only the latest bulletin on any one subject is here listed.

A complete list of the reports and bulletins issued prior to July, 1912, as well as the bulletins published since that date, will be furnished on application. Bulletins marked thus () are out of print.*

Conciliation and Arbitration (including strikes and lockouts).

- *No. 124. Conciliation and arbitration in the building trades of Greater New York. [1913.]
- *No. 133. Report of the industrial council of the British Board of Trade on its inquiry into industrial agreements. [1913.]
- No. 139. Michigan copper district strike. [1914.]
- *No. 144. Industrial court of the cloak, suit, and skirt industry of New York City. [1914.]
- *No. 145. Conciliation, arbitration, and sanitation in the dress and waist industry of New York City. [1914.]
- *No. 191. Collective bargaining in the anthracite-coal industry. [1916.]
- *No. 198. Collective agreements in the men's clothing industry. [1916.]
- No. 223. Operation of the industrial disputes investigation act of Canada. [1918.]
- No. 255. Joint industrial councils in Great Britain. [1919.]
- No. 283. History of the Shipbuilding Labor Adjustment Board, 1917 to 1919.
- No. 287. National War Labor Board: History of its formation, activities, etc. [1921.]
- *No. 303. Use of Federal power in settlement of railway-labor disputes. [1922.]
- No. 341. Trade agreement in the silk-ribbon industry of New York City. [1923.]
- No. 402. Collective bargaining by actors. [1923.]
- No. 468. Trade agreements, 1927.
- No. 481. Joint industrial control in the book and job printing industry. [1928.]

Cooperation.

- No. 313. Consumers' cooperative societies in the United States in 1920.
- No. 314. Cooperative credit societies (credit unions) in America and in foreign countries. [1922.]
- No. 437. Cooperative movement in the United States in 1925 (other than agricultural).
- No. 531. Consumers', credit, and workers' productive cooperative societies, 1929.

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- *No. 109. Statistics of unemployment and the work of employment offices in the United States. [1913.]
- No. 172. Unemployment in New York City, N. Y. [1915.]
- *No. 183. Regularity of employment in the women's ready-to-wear garment industries. [1915.]
- *No. 195. Unemployment in the United States. [1916.]
- No. 196. Proceedings of Employment Managers' Conference held at Minneapolis, Minn., January 19 and 20, 1916.
- *No. 202. Proceedings of the conference of Employment Managers' Association of Boston, Mass., held May 10, 1916.
- No. 206. The British system of labor exchanges. [1916.]
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- No. 235. Employment system of the Lake Carriers' Association. [1918.]
- *No. 241. Public employment offices in the United States. [1918.]
- No. 247. Proceedings of Employment Managers' Conference, Rochester, N. Y., May 9-11, 1918.
- *No. 310. Industrial unemployment: A statistical study of its extent and causes. [1922.]
- No. 409. Unemployment in Columbus, Ohio, 1921 to 1925.
- No. 520. Social and economic character of unemployment in Philadelphia, April, 1929.
- No. 542. Report of the Advisory Committee on Employment Statistics. [1931.]
- No. 544. Unemployment benefit plans in the United States and unemployment insurance in foreign countries. [1931.]
- No. 553. Employment in Ohio, 1914 to 1929. (In press.)

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- *No. 142. Administration of labor laws and factory inspection in certain European countries. [1914.]
- No. 494. Labor legislation of Uruguay. [1929.]
- No. 510. Labor legislation of Argentina. [1930.]
- No. 529. Workmen's compensation legislation of Latin American countries. [1930.]
- No. 549. Labor legislation of Venezuela. [1931.]
- No. 554. Labor legislation of Paraguay. [1931.]

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- *No. 158. Government aid to home owning and housing of working people in foreign countries. [1914.]
- No. 263. Housing by employers in the United States. [1920.]
- No. 295. Building operations in representative cities in 1920.
- No. 545. Building permits in the principal cities of the United States in [1921 to] 1930.

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- *No. 104. Lead poisoning in potteries, tile works, and porcelain enameled sanitary ware factories. [1912.]
- No. 120. Hygiene of painters' trade. [1913.]
- *No. 127. Danger to workers from dusts and fumes, and methods of protection. [1913.]
- *No. 141. Lead poisoning in the smelting and refining of lead. [1914.]
- *No. 157. Industrial accident statistics. [1915.]
- *No. 165. Lead poisoning in the manufacture of storage batteries. [1914.]
- *No. 179. Industrial poisons used in the rubber industry. [1915.]
- No. 188. Report of British departmental committee on the danger in the use of lead in the painting of buildings. [1916.]
- *No. 201. Report of the committee on statistics and compensation insurance cost of the International Association of Industrial Accident Boards and Commissions. [1916.]
- *No. 209. Hygiene of the printing trades. [1917.]
- *No. 219. Industrial poisons used or produced in the manufacture of explosives. [1917.]
- No. 221. Hours, fatigue, and health in British munition factories. [1917.]
- No. 230. Industrial efficiency and fatigue in British munition factories. [1917.]
- *No. 231. Mortality from respiratory diseases in dusty trades (inorganic dusts). [1918.]
- No. 234. Safety movement in the iron and steel industry, 1907 to 1917.
- No. 236. Effects of the air hammer on the hands of stoncutters. [1918.]
- No. 249. Industrial health and efficiency. Final report of British Health of Munitions Workers Committee. [1919.]
- No. 251. Preventable death in the cotton-manufacturing industry. [1919.]
- No. 256. Accidents and accident prevention in machine building. [1919.]
- No. 267. Anthrax as an occupational disease. [1920.]
- No. 276. Standardization of industrial accident statistics. [1920.]
- No. 280. Industrial poisoning in making coal-tar-dyes and dye intermediates. [1921.]
- *No. 291. Carbon monoxide poisoning. [1921.]
- No. 293. The problem of dust phthisis in the granite-stone industry. [1922.]
- No. 298. Causes and prevention of accidents in the iron and steel industry, 1910-1919.
- No. 306. Occupational hazards and diagnostic signs: A guide to impairments to be looked for in hazardous occupations. [1922.]
- No. 392. Survey of hygienic conditions in the printing trades. [1925.]
- No. 405. Phosphorus necrosis in the manufacture of fireworks and in the preparation of phosphorus. [1926.]
- No. 427. Health survey of the printing trades, 1922 to 1925.
- No. 428. Proceedings of the Industrial Accident Prevention Conference, held at Washington, D. C., July 14-16, 1926.
- No. 460. A new test for industrial lead poisoning. [1928.]
- No. 466. Settlement for accidents to American seamen. [1928.]
- No. 488. Deaths from lead poisoning, 1925-1927.
- No. 490. Statistics of industrial accidents in the United States to the end of 1927.
- No. 507. Causes of death by occupation. [1929.]

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- No. 237. Industrial unrest in Great Britain. [1917.]
- No. 340. Chinese migrations, with special reference to labor conditions. [1923.]
- No. 349. Industrial relations in the West Coast lumber industry. [1923.]
- No. 361. Labor relations in the Fairmont (W. Va.) bituminous-coal field. [1924.]
- No. 380. Postwar labor conditions in Germany. [1925.]
- No. 383. Works council movement in Germany. [1925.]
- No. 384. Labor conditions in the shoe industry in Massachusetts, 1920-1924.
- No. 399. Labor relations in the lace and lace-curtain industries in the United States. [1925.]
- No. 534. Labor conditions in the Territory of Hawaii, 1920-30.

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- No. 211. Labor laws and their administration in the Pacific States. [1917.]
- No. 229. Wage payment legislation in the United States. [1917.]
- No. 285. Minimum wage laws of the United States: Construction and operation. [1921.]
- No. 321. Labor laws that have been declared unconstitutional. [1922.]
- No. 322. Kansas Court of Industrial Relations. [1923.]

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- No. 343. Laws providing for bureaus of labor statistics, etc. [1923.]
- No. 370. Labor laws of the United States, with decisions of courts relating thereto. [1925.]
- No. 408. Laws relating to payment of wages. [1926.]
- No. 548. Decisions of courts and opinions affecting labor, 1929-30.
- No. 552. Labor legislation, 1930.

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- *No. 266. Seventh, Seattle, Wash., July 12-15, 1920.
- No. 307. Eighth, New Orleans, La., May 2-6, 1921.
- *No. 323. Ninth, Harrisburg, Pa., May 22-26, 1922.
- *No. 352. Tenth, Richmond, Va., May 1-4, 1923.
- *No. 389. Eleventh, Chicago, Ill., May 19-23, 1924.
- *No. 411. Twelfth, Salt Lake City, Utah, August 13-15, 1925.
- *No. 429. Thirteenth, Columbus, Ohio, June 7-10, 1926.
- *No. 455. Fourteenth, Paterson, N. J., May 31 to June 3, 1927.
- *No. 480. Fifteenth, New Orleans, La., May 21-24, 1928.
- No. 508. Sixteenth, Toronto, Canada, June 4-7, 1929.
- No. 530. Seventeenth, Louisville, Ky., May 20-23, 1930.

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- No. 210. Third, Columbus, Ohio, April 25-28, 1916.
- No. 248. Fourth, Boston, Mass., August 21-25, 1917.
- No. 294. Fifth, Madison, Wis., September 24-27, 1918.
- *No. 273. Sixth, Toronto, Canada, September 23-26, 1919.
- No. 281. Seventh, San Francisco, Calif., September 20-24, 1920.
- No. 304. Eighth, Chicago, Ill., September 19-23, 1921.
- No. 333. Ninth, Baltimore, Md., October 9-13, 1922.
- *No. 359. Tenth, St. Paul, Minn., September 24-26, 1923.
- No. 385. Eleventh, Halifax, Nova Scotia, August 26-28, 1924.
- No. 395. Index to proceedings, 1914-1924.
- No. 406. Twelfth, Salt Lake City, Utah, August 17-20, 1925.
- No. 432. Thirteenth, Hartford, Conn., September 14-17, 1926.
- *No. 456. Fourteenth, Atlanta, Ga., September 27-29, 1927.
- No. 485. Fifteenth, Paterson, N. J., September 11-14, 1928.
- No. 511. Sixteenth, Buffalo, N. Y., October 8-11, 1929.
- No. 536. Seventeenth, Wilmington, Del., September 22-26, 1930.

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- No. 192. First, Chicago, December 19 and 20, 1913; second, Indianapolis, September 24 and 25, 1914
third, Detroit, July 1 and 2, 1915.
- No. 220. Fourth, Buffalo, N. Y., July 20 and 21, 1916.
- No. 311. Ninth, Buffalo, N. Y., September 7-9, 1921.
- No. 337. Tenth, Washington, D. C., September 11-13, 1922.
- No. 355. Eleventh, Toronto, Canada, September 4-7, 1923.
- No. 400. Twelfth, Chicago, Ill., May 19-23, 1924.
- No. 414. Thirteenth, Rochester, N. Y., September 15-17, 1925.
- No. 478. Fifteenth, Detroit, Mich., October 25-28, 1927.
- No. 501. Sixteenth, Cleveland, Ohio, September 18-21, 1928.
- No. 538. Seventeenth, Philadelphia, Pa., September 24-27, 1929; eighteenth, Toronto, Canada,
September 9-12, 1930.

Productivity of Labor.

- No. 326. Productivity costs in the common-brick industry. [1924.]
- No. 360. Time and labor costs in manufacturing 100 pairs of shoes, 1923.
- No. 407. Labor cost of production and wages and hours of labor in the paper box-board industry.
[1926.]
- No. 412. Wages, hours, and productivity in the pottery industry, 1925.
- No. 441. Productivity of labor in the glass industry. [1927.]
- No. 474. Productivity of labor in merchant blast furnaces. [1928.]
- No. 475. Productivity of labor in newspaper printing. [1929.]
- No. 550. Labor productivity in cargo handling and longshore labor conditions. [1932.]

Retail Prices and Cost of Living.

- *No. 121. Sugar prices, from refiner to consumer. [1913.]
- *No. 130. Wheat and flour prices, from farmer to consumer. [1913.]
- *No. 164. Butter prices, from producer to consumer. [1914.]
- No. 170. Foreign food prices as affected by the war. [1915.]
- No. 357. Cost of living in the United States. [1924.]
- No. 369. The use of cost-of-living figures in wage adjustments. [1925.]
- No. 495. Retail prices, 1899 to 1928.

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- *No. 331. Code of lighting: Factories, mills, and other work places.
- No. 336. Safety code for the protection of industrial workers in foundries.
- No. 350. Rules for governing the approval of headlighting devices for motor vehicles.
- *No. 351. Safety code for the construction, care, and use of ladders.
- No. 375. Safety code for laundry machinery and operations.
- No. 382. Code of lighting school buildings.
- No. 410. Safety code for paper and pulp mills.
- No. 430. Safety code for power presses and foot and hand presses.
- No. 433. Safety codes for the prevention of dust explosions.
- No. 447. Safety code for rubber mills and calenders.
- No. 451. Safety code for forging and hot-metal stamping.
- No. 463. Safety code for mechanical power-transmission apparatus—first revision
- No. 509. Textile safety code.
- No. 512. Code for identification of gas-mask canisters.
- No. 519. Safety code for woodworking plants, as revised, 1830.
- No. 527. Safety code for the use, care, and protection of abrasive wheels.

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- *No. 159. Short-unit courses for wage earners, and a factory school experiment. [1915.]
- *No. 162. Vocational education survey of Richmond, Va. [1915.]
- *No. 199. Vocational education survey of Minneapolis, Minn. [1917.]
- No. 271. Adult working-class education in Great Britain and the United States. [1920.]
- No. 459. Apprenticeship in building construction. [1928.]

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- *No. 146. Wages and regularity of employment and standardization of piece rates in the dress and waist industry of New York City. [1914.]
- *No. 147. Wages and regularity of employment in the cloak, suit, and skirt industry. [1914.]
- No. 161. Wages and hours of labor in the clothing and cigar industries, 1911 to 1913.
- No. 163. Wages and hours of labor in the building and repairing of steam railroad cars, 1907 to 1913.
- *No. 190. Wages and hours of labor in the cotton, woolen, and silk industries, 1907 to 1914.
- No. 204. Street-railway employment in the United States. [1917.]
- No. 218. Wages and hours of labor in the iron and steel industry, 1907 to 1915, with a glossary of occupations.
- No. 225. Wages and hours of labor in the lumber, millwork, and furniture industries, 1915.
- No. 265. Industrial survey in selected industries in the United States, 1919.
- No. 297. Wages and hours of labor in the petroleum industry, 1920.
- No. 356. Productivity costs in the common-brick industry. [1924.]
- No. 358. Wages and hours of labor in the automobile-tire industry, 1923.
- No. 360. Time and labor costs in manufacturing 100 pairs of shoes, 1923.
- No. 365. Wages and hours of labor in the paper and pulp industry, 1923.
- No. 394. Wages and hours of labor in metalliferous mines, 1924.
- No. 407. Labor cost of production and wages and hours of labor in the paper box-board industry. [1926.]
- No. 412. Wages, hours, and productivity in the pottery industry, 1925.
- No. 416. Hours and earnings in anthracite and bituminous coal mining, 1922 and 1924.
- No. 472. Wages and hours of labor in the slaughtering and meat-packing industry, 1927.
- No. 476. Union scales of wages and hours of labor, 1927. [Supplement to Bulletin 457.]
- No. 484. Wages and hours of labor of common street laborers, 1928.
- No. 487. Wages and hours of labor in woolen and worsted goods manufacturing, 1910 to 1928.
- No. 497. Wages and hours of labor in the lumber industry in the United States, 1928.
- No. 499. History of wages in the United States from colonial times to 1928.
- No. 502. Wages and hours of labor in the motor-vehicle industry, 1928.
- No. 503. Wages and hours of labor in the men's clothing industry, 1911 to 1928.
- No. 504. Wages and hours of labor in the hosiery and underwear industries, 1907 to 1928.
- No. 513. Wages and hours of labor in the iron and steel industry, 1920.
- No. 514. Pennsylvania Railroad wage data. From Report of Joint Fact Finding Committee in wage negotiations in 1927.

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- No. 516. Hours and earnings in bituminous-coal mining, 1929.
- No. 522. Wages and hours of labor in foundries and machine shops, 1929.
- No. 523. Hours and earnings in the manufacture of airplanes and aircraft engines, 1929.
- No. 525. Wages and hours of labor in the Portland cement industry, 1929.
- No. 526. Wages and hours of labor in the furniture industry, 1910 to 1929.
- No. 532. Wages and hours of labor in the cigarette-manufacturing industry, 1930.
- No. 533. Wages and hours of labor in woolen and worsted goods manufacturing, 1910 to 1930.
- No. 534. Labor conditions in the Territory of Hawaii, 1929-1930.
- No. 535. Wages and hours of labor in the slaughtering and meat-packing industry, 1929.
- No. 537. Wages and hours of labor in the dyeing and finishing of textiles, 1930.
- No. 539. Wages and hours of labor in cotton-goods manufacturing, 1910 to 1930.
- No. 540. Union scales of wages and hours of labor, May 15, 1930.
- No. 546. Wages and hours in rayon and other synthetic textile manufacturing, 1930. (In press.)
- No. 547. Wages and hours in cane-sugar refining industry, 1930.
- No. 551. Wages and hours of labor in the boot and shoe industry, 1910 to 1930. (In press.)

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- *No. 123. Employers' welfare work. [1913.]
- No. 222. Welfare work in British munitions factories. [1917.]
- *No. 250. Welfare work for employees in industrial establishments in the United States. [1919.]
- No. 458. Health and recreation activities in industrial establishments, 1926.

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- No. 284. Index numbers of wholesale prices in the United States and foreign countries. [1921.]
- No. 453. Revised index numbers of wholesale prices, 1923 to July, 1927.
- No. 543. Wholesale price, 1930.

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- No. 116. Hours, earnings, and duration of employment of wage-earning women in selected industries in the District of Columbia. [1913.]
- *No. 117. Prohibition of night work of young persons. [1913.]
- *No. 118. Ten-hour maximum working-day for women and young persons. [1913.]
- No. 119. Working hours of women in the pea canneries of Wisconsin. [1913.]
- *No. 122. Employment of women in power laundries in Milwaukee. [1913.]
- *No. 160. Hours, earnings, and conditions of labor of women in Indiana mercantile establishments and garment factories. [1914.]
- *No. 167. Minimum-wage legislation in the United States and foreign countries. [1915.]
- *No. 175. Summary of the report on condition of woman and child wage earners in the United States. [1915.]
- *No. 176. Effect of minimum-wage determinations in Oregon. [1915.]
- *No. 180. The boot and shoe industry in Massachusetts as a vocation for women. [1915.]
- *No. 182. Unemployment among women in department and other retail stores of Boston, Mass. [1916.]
- No. 193. Dressmaking as a trade for women in Massachusetts. [1916.]
- No. 215. Industrial experience of trade-school girls in Massachusetts. [1917.]
- *No. 217. Effect of workmen's compensation laws in diminishing the necessity of industrial employment of women and children. [1918.]
- *No. 223. Employment of women and juveniles in Great Britain during the war. [1917.]
- No. 253. Women in the lead industries. [1919.]
- No. 467. Minimum wage legislation in various countries. [1928.]

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- *No. 101. Care of tuberculous wage earners in Germany. [1912.]
- *No. 102. British national insurance act, 1911.
- No. 103. Sickness and accident insurance law in Switzerland. [1912.]
- No. 107. Law relating to insurance of salaried employees in Germany. [1913.]
- *No. 155. Compensation for accidents to employees of the United States. [1914.]
- *No. 212. Proceedings of the conference on social insurance called by the International Association of Industrial Accident Boards and Commissions, Washington, D. C., December 5-9, 1916.
- *No. 243. Workmen's compensation legislation in the United States and foreign countries, 1917 and 1918.
- No. 301. Comparison of workmen's compensation insurance and administration. [1922.]
- No. 312. National health insurance in Great Britain, 1911 to 1921.
- No. 379. Comparison of workmen's compensation laws of the United States as of January 1, 1925.
- No. 477. Public-service retirement systems, United States and Europe. [1929.]
- No. 496. Workmen's compensation legislation of the United States and Canada as of January 1, 1929. (With text of legislation enacted in 1927 and 1928.)
- No. 529. Workmen's compensation legislation of the Latin American countries. [1930.]

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- *No. 174. Subject index of the publications of the United States Bureau of Labor Statistics up to May 1, 1915.
- No. 208. Profit sharing in the United States. [1916.]
- No. 242. Food situation in central Europe, 1917.
- No. 254. International labor legislation and the society of nations. [1919.]
- No. 268. Historical survey of international action affecting labor. [1920.]
- No. 282. Mutual relief associations among Government employees in Washington, D. C. [1921.]
- No. 319. The Bureau of Labor Statistics: Its history, activities, and organization. [1922.]
- No. 326. Methods of procuring and computing statistical information of the Bureau of Labor Statistics. [1923.]
- No. 342. International Seamen's Union of America: A study of its history and problems. [1923.]
- No. 346. Humanity in government. [1923.]
- No. 372. Convict labor in 1923.
- No. 386. Cost of American almshouses. [1925.]
- No. 398. Growth of legal-aid work in the United States. [1926.]
- No. 401. Family allowances in foreign countries. [1926.]
- No. 461. Labor organizations in Chile. [1928.]
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- No. 465. Beneficial activities of American trade-unions. [1928.]
- No. 479. Activities and functions of a State department of labor. [1928.]
- No. 483. Conditions in the shoe industry in Haverhill, Mass., 1928.
- No. 489. Care of aged persons in the United States. [1929.]
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- No. 518. Personnel research agencies: 1930 edition;
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