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MONTHLY

## THE LABOUR FORCE <br> SEPTEMBER 1970

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In the week ended September 19, 1970, the Canadian labour force was estimated at $8,384,000$. This total included 7,986,000 persons employed for all or part of the week and 398,000 unemployed persons. Compared with August the labour force decreased by 336,000 , employment having fallen by 286,000 and unemployment by 50,000 . Both declines were below average in percentage terms. The labour force, the employed and the unemployed were higher than in September 1969 by $258,000,139,000$ and 119,000 respectively.

The 286,000 decline in employment from August was largely the result of 274,000 drop among men. The 50,000 decrease in unemployment resulted from a decline of 39,000 among men and 11,000 among women.

In all regions the September estimates of both employment and unemployment were lower than in August but higher than in last September.

The decline in employment from August to September occurred mainly as a result of the seasonal return of young persons to school. Employment among persons 25 years and over increased by 117,000. Unemployment fell among persons 14-24 and 25 years and over.

Unemployment in September was 4.7 per cent of the total labour force, compared with rate of 5.1 in August of this year and 3.4 in the September, 1969. Seasonally adjusted, the unemployment rate this September was 6.9.


## The Unemployed by Occupation and Industry

## 3rd Quarter 1970

The Labour Force Survey provides information about the occupation and industry attachments of members of the labour force. For the employed, current occupation and industry are reported. The unemployed are identified with the industries in which they last worked and the occupations which they last followed. From these data, unemployment rates for broad occupation and industry groups are calculated by expressing the number unemployed as a percentage
of the laburr force classified in wach group. In addition, percentage distributions have been made according to occupation and industry groups. Unemployment rates and percentage distributions for the third quarter of 1970, with comparative data for the first two quarters of 1970 and the two last quarters of 1969 , are shown in the following tables - in Table 1 by occupation group, and in Table 2 by industry group.

| Table 1 <br> Occupation group | Percentage distribution of the unemployed (quarterly averages) |  |  |  |  | Unemployment rates(1) (quarterly averages) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1970 |  |  | 1969 |  | 1970 |  |  | 1969 |  |
|  | $\begin{aligned} & \text { 3rd } \\ & \text { quar. } \end{aligned}$ | 2nd quar. | $\begin{gathered} \text { lst } \\ \text { quar. } \end{gathered}$ | $\begin{aligned} & \text { 4th } \\ & \text { quar. } \end{aligned}$ | $\begin{aligned} & \text { 3rd } \\ & \text { quar. } \end{aligned}$ | $\begin{aligned} & \text { 3rd } \\ & \text { quar. } \end{aligned}$ | $\begin{aligned} & \text { 2nd } \\ & \text { quar. } \end{aligned}$ | 18 t quar. | $\begin{aligned} & 4 \mathrm{th} \\ & \text { quar. } \end{aligned}$ | $\begin{gathered} 3 \mathrm{rd} \\ \text { quar. } \end{gathered}$ |
| A11 occupations | 100 | 100 | 100 | 100 | 100 | 5.3 | 6.3 | 6.5 | 4.3 | 3.8 |
| sional(2) | 21 | 18 | 17 | 20 | 21 | 2.6 | 2.6 | 2.4 | 1.9 | 1.9 |
| Iransportation | 5 | 6 | 7 | 6 | 5 | 5.6 | 8.8 | 9.6 | 5.8 | 3.9 |
| Service and recreation | 11 | 9 | 8 | 12 | 12 | 4.7 | 4.6 | 4.4 | 4.2 | 3.8 |
| Primary (3) | 5 | 7 | 10 | 8 | 6 | 3.2 | 5.4 | 8.5 | 4.2 | 2.4 |
| Craftsmen, production process and related workers | 29 | 32 | 36 | 32 | 27 | $\begin{array}{r} 6.0 \\ 11.1 \\ \mathrm{~N} / \mathrm{A} \end{array}$ | $\begin{array}{r} 7.9 \\ 16.9 \\ \mathrm{~N} / \mathrm{A} \end{array}$ |  |  |  |
| Labourers (4) | 10 | 12 | 15 | 13 | 11 |  |  | 9.122.7N/A | $\begin{array}{r} 5.4 \\ 12.9 \\ \mathrm{~N} / \mathrm{A} \end{array}$ | $\begin{aligned} & 3.9 \\ & 8.5 \\ & \mathrm{~N} / 4 \end{aligned}$ |
| Never worked (5) | 18 | 15 | 7 | 9 | 19 |  |  |  |  |  |
| Total unemployed(000's) | 455 | 529 | 518 | 350 | 315 |  |  |  |  |  |


| Industry group | Percentage distribution of the unemployed (quarterly averages) |  |  |  |  | Unemployment rates(1) (quarterly averages) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1970 |  |  | 1969 |  | 1970 |  |  | 1969 |  |
|  | 3 rd quar. | 2nd quar. | lst quar. | 4th quar. | 3rd quar. | 3rd quar. | 2nd quar. | $\begin{gathered} \text { lst } \\ \text { quar. } \end{gathered}$ | 4th quar. | $\begin{aligned} & \text { 3rd } \\ & \text { quar } \end{aligned}$ |
| All industries | 100 | 100 | 100 | 100 | 100 | 5.3 | 6.3 | 6.5 | 4.3 | 3.8 |
| Primary industries (6) | 6 | 9 | 11 | 8 | 7 | 3.2 | 6.1 | 8.4 | 3.9 | 2.5 |
| Manufacturing | 22 | 22 | 24 | 25 | 21 | 5.1 | 6.0 | 6.5 | 4.7 | 3.4 |
| Construction | 13 | 17 | 22 | 16 | 12 | 9.9 | 15.8 | 21.9 | 10.4 | 6.5 |
| Transportation and other utilities(7) | 7 | 7 | 8 | $8 \quad 6$ |  | 4.1550 .8 |  |  | 3.8 2.7 |  |
| Trade | 12 | 11 | 12 | 11.12 |  | 3.8 | 5.3 4.4 | 4.6 | 3.8 2.9 | 2.8 |
| Service(8) | 22 | 19 | 17 | $22 \quad 23$ |  | 3.3 | $\begin{aligned} & 3.3 \\ & \mathrm{~N} / \mathrm{A} \end{aligned}$ | 3.1 | 2.7 <br> N/A | $\begin{aligned} & 2.5 \\ & \mathrm{~N} / \mathrm{A} \end{aligned}$ |
| Never worked(5) | 18 | 15 | 7 | 9 | 19 | N/A |  | N/A |  |  |
| Total unemployed (000's) | 455 | 529 | 518 | 350 | 315 |  |  |  |  |  |

[^0]
## Technical Notes

## Scope of Labour Force Survey

The statistics contained in this report are based on information obtained through a sample survey of households. Interviews are carried out in about 30,000 households chosen by area sampling methods across the country(1). The Labour Force Survey, started in November 1945, was taken at quarterly intervals until November 1952. Since then it has been carried out monthly. Estimates of employment, unemployment and non-labour force activity refer to the specific week covered by the survey each month.

The sample used in the surveys of the labour force has been designed to represent all persons in the population 14 years of age and over residing in Canada, with the exception of: residents of the Yukon and Northwest Territories, Indians living on
reserves, inmates of institutions and members of the armed forces. These excluded categories amount to about three per cent of the total population 14 years of age and over.

Estimates derived from a sample survey are subject to sampling and non-sampling errors. Aspects of this subject in relation to the Labour Force Survey are reviewed under "Rellability of Estimates" on page 8.
(1) For a comprehensive description of the design of the Labour Force Survey, see Dominion Bureau of Statistics, Canadian Labour Force Survey - Methodology, Catalogue No. 71-504, Ottaws, 1965.

## Labour Force Statistics

Contents of the Tables - The results of the survey are presented in the tables on pages 4 to 7 of this report.

Canada, Labour Force (pages 4 and 5). Tables 1 to 3 refer to the labour force, employment and unemployment and contain labour
force participation and unemployment rates.
Canada, Employed (page 6). Tables 4 to 6 contain further detail on employment.

Canada, Unemployed (page 7). Table 7 con-
tains further detail on unemployment.
Regions, Labour Force (page 7). Table 8
contains labour force data for the regions.
Supplementary Data - From time to time, additional data on particular aspects of the labour force or its components will be obtained. Such materlal, as it becomes avallable, will be elther included in this report or released in separate reports.

Other Data Available - In addition to the published statistics, there is a considerable amount of data which can be obtained on request. Following is a list of material available.

## For Canada only:

1. Age and sex distributions.
2. Marital status and sex distributions.
3. Employed -
(a) Reasons for working less than full-time.
(b) Hours worked by sex for total employed, agriculture and non-agriculture, and for paid workers, non-agriculture.
(c) Industry and occupation groups, by sex for total employed and for paid workers.
4. Persons not in the labour force by category.

## For regions:

5. Labour force: by age; by Eex, agricultural and nonagricultural.
Employed: by age.

## For individual provinces of Atlantic and

 Prairie regions:6. Population 14 years of age and over and labour force: by sex.
Total employed, total unemployed, and total persons not in labour force.

## Definitions and Explanations

Labout Force - The civilian labour force is composed of that portion of the civilian noninstitutional population 14 years of age and over who, during the reference week, were employed or unemployed.

Employed - The employed includes all persons who, during the reference week:
(a) did any work for pay or profit;
(b) did any work which contributed to the running of a farm or business operated by a related member of the household; or
(c) had a job, but were not at work, because of bad weather, illness, industrial dispute, or vacation, or because they were taking time off for other reasons.
H'ersons who had jobs but did not work during the reference week and who also looked for work are included in the unemployed a persons without work and seeking work.

Unemployed $=$ The unemployed Includes all persons who, through the reference week:
(a) were without work and seeking work, i.e., did not work during the reference week and were looking for work; or would have been looking for work except that they were temporarily 111, were on indefinite or prolonged layoff, or believed no suftable work was avallable in the community; or
(b) were temporarily laid off for the full week, 1.e., were waiting to be called back to a Job from which they had been laid off for less than 30 days.

Not in the Labour Force - Those not in the labour force include all civilians 14 years of age and over (exclusive of institutional population) who are not classified as employed or unemployed. This category includes those: going to achool; keeping house: too old or otherwise unable to work; and voluntarily idle or retired. Housewives, students and others who worked part-time are classifled as employed. If they looked for work they are classified as unemployed.
(Estimates in thousands)
Note: Due to the introduction of revised weighting factors in March 1965, small adjustments have been made to estimates published before that time. See the March 1965 edition of this report, page 8.

| Table 1 <br> Summary | $\begin{aligned} & \text { S.D. } \\ & \text { (1) } \end{aligned}$ | 1970 |  | 1969 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sept. 19 | August 22 | Sept. 20 | August 23 | Sept. 21 | $\begin{gathered} \text { August } \\ 24 \end{gathered}$ |
| Total |  |  |  |  |  |  |  |
| Population 14 years of age and over(2) |  | 15,099 | 15,068 | 14,719 | 14,687 | 14,349 | 14,316 |
|  | a | 8,384 | 8,720 | 8,126 | 8,489 | 7,971 | 8,284 |
|  | a | 7,986 | 8,272 | 7,847 | 8,171 | 7,709 | 7,965 |
|  | d | 558 | 614 | 581 | 636 | 605 | 653 |
|  | a | 7,428 | 7,658 | 7,266 | 7,535 | 7,104 | 7,312 |
|  | d | 398 | 448 | 279 | 318 | 262 | 319 |
| Not in the labour force | a | 6,715 | 6,348 | 6,593 | 6,198 | 6,378 | 6,032 |
| Participation rate (3) | a | 55.5 | 57.9 | 55.2 | 57.8 | 55.6 | 57.9 |
| Unemployment rate (4) |  |  |  |  |  |  |  |
| Seasonally adjusted |  | 6.9 | 6.7 | 5.0 | 4.9 | 4.8 | 5.0 |
| Men |  |  |  |  |  |  |  |
| Population 14 years of age and over(2) |  | 7,482 | 7,467 | 7,295 | 7,279 | 7,113 | 7,096 |
| Labour force | a | 5,674 | 5,987 | 5,513 | 5,833 | 5,440 | 5,741 |
| Employed | a | 5,393 | 5,667 | 5,323 | 5,609 | 5,258 | 5,515 |
| Agriculture | d | 465 | 519 | 483 | 531 | 505 | 558 |
| Non-agriculture | $a$ | 4,927 | 5,148 | 4,840 | 5,078 | 4,753 | 4,957 |
| Unemployed | d | 281 | 320 | 190 | 224 | 182 | 226 |
| Not in the labour force | b | 1,808 | 1,480 | 1,782 | 1,446 | 1,673 | 1,355 |
| Participation rate (3) | a | 75.8 | 80.2 | 75.6 | 80.1 | 76.5 | 80.9 |
| Unemp loyment rate (4) | d | 5.0 | 5.3 | 3.4 | 3.8 | 3.3 | 3.9 |
| Women |  |  |  |  |  |  |  |
| Population 14 years of age and over(2) |  | 7,617 | 7,601 | 7,424 | 7,408 | 7,236 | 7,220 |
| Labour forceEmployed | b | 2,710 | 2,733 | 2,613 | 2,656 | 2,531 | 2,543 |
|  | b | 2,593 | 2,605 | 2,524 | 2,562 | 2,451 | 2,450 |
| Employed Agriculture | e | 93 | 95 | 98 | 105 | 100 | 95 |
| Unemployed | b | 2,500 | 2,510 | 2,426 | 2,457 | 2,351 | 2,355 |
|  | e | 117 | 128 | 89 | 94 | 80 | 93 |
| Not in the labour force | a | 4,907 | 4,868 | 4,811 | 4,752 | 4,705 | 4,677 |
| Participation rate (3) | b | 35.6 | 36.0 | 35.2 | 35.9 | 35.0 | 35.2 |
| Unemployment rate (4) | e | 4.3 | 4.7 | 3.4 | 3.5 | 3.2 | 3.7 |

[^1]Note: With the exception of Table 2, all statistics rifer to a sperific wask, tha last day at which is indicated.

Note: Due to the introduction of revised weighting factors in March 1965, small adjustments have been made to estimates published before that time.
See the March 1965 edition of this report, page 8.

| Table 2 <br> Annual averages, 1946-1969 | $\begin{aligned} & \text { S. D. } \\ & \text { (i) } \end{aligned}$ | 1969 | 1968 | 1967 | 1966 | 1965 | 5 196 |  |  | 621 | 1961 | 1960 | 1959 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Population 14 years of age and over (2) |  | 14,638 | 14,264 | 13,874 | 13,475 | $5{ }^{13,12}$ | 28 12,8 | 17 12, | 53612, | 28012 | 12,053 | 11,831 | 11,605 |
| Labour force | a | 8,162 | 7,919 | 7,694 | 7,420 | 20.7,14 | 41 6,9 |  | 748 6, | 6156 | 6,521 | 6,411 | 6,242 |
| Employed Agriculture | d | 7,780 535 | 7,537 546 | 7,379 559 | 7,152 544 | 2 6,862 <br> 544  | 62 6,6 | 09 30 6 | 375 649 | 225 660 | 6,055 681 | 5,965 | 5,870 700 |
| Non-agriculture | a | 7,245 | 6,992 | 6,820 | 6,609 | 9 6,26 | 68 5,970 | 79 5, | 7265 | 5655 | 5,374 | 5,282 | 5,170 |
| Unemployed | d | 382 | 382 | 315 | 26 | 728 | 80 | 24 | 374 | 390 | 466 | 446 | 372 |
| Not in the labour force | a | 6,475 | 6,344 | 6,179 | 6,05 | 5 5, | 36 | 4 | 87 | 655 | 5,531 | 5,420 | 5,363 |
| Participation rate(3) | a | 55.8 | 55.5 | 55.5 | 55.1 | 1 |  | . 15 | 3.8 | 3.9 | 54.1 | 54.2 | 53.8 |
| Unemployment rate (4) | d | 4.7 | 4.8 | 4.1 | 3.6 | 6.3 |  |  | 5.5 | 5.9 | 7.1 | 7.0 | 6.0 |
|  | 1958 | 1957 | 1956 | 1955 | 1954 | 1953 | 1952 | 1951 | 1950 | 1949 | 1948 | 1947 | 1946 |
| Population 14 years of age and over (2) | 11,388 | 1,12310 | 0,80711 | 0,59710 | 10,3911 | 10,164 | 9,956 | 9,732 | 9,615 | 9,268 | 8,9,141 | 9,007 | 8,779 |
| Labour force | 6,137 | 6,008 | 5,782 | 5,610 | 5,493 | 5,397 | 5,324 | 5,223 | 5,163 | 5,055 | 54,988 | 4,942 | 4,829 |
| Employed | 5,706 | 5,731 | 5,585 | 5,364 | 5,243 | 5,235 | 5,169 | 5,097 | 4,976 | 4,913 | 3 4,875 | 5 4,832 | 4, 666 |
| Agriculture | 718 | 748 | 777 | 819 | 878 | 858 | 891 | 939 | 1,018 | 1,077 | 711,096 | \| 1,122 | 1,186 |
| Non-agriculture | 4,988 | 4,983 | 4,808 | 4,546 | 4,365 | 4,377 | 4,278 | 4,158 | 3,958 | 3,837 | 7 3,779 | 3,711 | 3,480 |
| Unemployed | 432 | 278 | 197 | 245 | 250 | 162 | 155 | 126 | 186 | 141 | 1114 | 110 | 163 |
| Not in the labour force | 5,250 | 5,115 | 5,025 | 4,987 | 4,898 | 4,767 | 4,632 | 4,509 | 4,453 | 4,213 | 3 4,153 | 4,065 | 3,950 |
| Participation rate(3) | 53.9 | 54.0 | 53.5 | 52.9 | 52.9 | 53.1 | 53.5 | 53.7 | 53.7 | 54.5 | $5 \quad 54.6$ | 54.9 | 55.0 |
| Unemployment rate (4) | 7.0 | 4.6 | 3.4 | 4.4 | 4.6 | 3.0 | 2.9 | 2.4 | 3.6 | 2.8 | 82.3 | 2.2 | 3.4 |


|  | Total | $\begin{gathered} 14-19 \\ \text { years } \\ \text { all } \\ \text { persons } \end{gathered}$ | 20-64 years |  |  |  | 65 years and over all persons |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| , sex, and narital stat |  |  | Me |  | Wor |  |  |
|  |  |  | Married | Other | Married | Other |  |
| Population 14 years of age and over(2) | 15,099 | 2,501 | 4,262 a | 1,218 b | 4,372 a | 1,166 c | 1,580 |
| Labour force | 8,384 a | 789 c | 4,080 a | 975 c | 1,530 c | 793 c | 216 d |
| Employed | 7,986 a | 691 c | 3,949 a | 884 c | 1,492 c | 760 c | 210 d |
| Unemployed | 398 d | 98 e | 132 d | 91 e | 38 f | 33 f | 6 g |
| Not in the labour force | 6,715 a | 1,712 b | 182 d | 243 d | 2,842 b | 372 d | 1,364 a |
| Participation rate (3) - 1970, Sept. 19 | $\begin{aligned} & 55.5 a \\ & 57.9 \end{aligned}$ | $\begin{aligned} & 31.5 \mathrm{c} \\ & 45.0 \end{aligned}$ | $\begin{aligned} & 95.7 \text { a } \\ & 96.1 \end{aligned}$ | $\begin{aligned} & 80.0 \mathrm{a} \\ & 87.8 \end{aligned}$ | $\begin{aligned} & 35.0 \mathrm{c} \\ & 33.2 \end{aligned}$ | $\begin{aligned} & 68.0 \mathrm{~b} \\ & 67.9 \end{aligned}$ | $\begin{aligned} & 13.7 \mathrm{~d} \\ & 13.3 \end{aligned}$ |
| Unemployment rate (4)-1970, Sept. 19 | 4.7 d 5.1 | $\begin{aligned} & 12.4 \\ & 10.0 \end{aligned}$ | $\begin{aligned} & 3.2 \mathrm{~d} \\ & 3.3 \end{aligned}$ | $\begin{array}{r} 9.3 \mathrm{e} \\ 10.1 \end{array}$ | $\begin{aligned} & 2.5 \mathrm{f} \\ & 3.0 \end{aligned}$ | $\begin{aligned} & 4.2 \mathrm{f} \\ & 5.1 \end{aligned}$ | $\begin{aligned} & 2.8 \mathrm{~g} \\ & 3.3 \end{aligned}$ |

(1) (2) (3) (4) See footnotes on opposite page.

Note: a) The alphabetic symbol following each estimate in table 3 indicates its standard deviation. For explanation, see "Reliability of Estimates", page 8
b) Newfoundland included in estimates only from 1950.

Note: Due to the introduction of revised weighting factors in March 1965, small adjustments have been made to estimates published before that time. See the March 1965 edition of this report, page 8.


|  | $\begin{gathered} \text { S.D. } \\ \text { (i) } \end{gathered}$ | 1970 |  | 1969 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sept. 19 | August <br> 22 | Sept. 20 | $\begin{gathered} \text { August } \\ 23 \end{gathered}$ | Sept. <br> 21 | $\begin{gathered} \text { August } \\ 24 \end{gathered}$ |
| Total employed | a | 7,986 | 8,272 | 7,847 | 8,171 | 7,709 | 7,965 |
| Agriculture | d | 558 | 614 | 581 | 636 | 605 | 653 |
| Other primary industries | d | 231 | 250 | 218 | 243 | 235 | 249 |
| Manufacturing - | c | 1,803 | 1,849 | 1,821 | 1,909 | 1,805 | 1,835 |
| Construction | c | 520 | 546 | 531 | 558 | 513 | 546 |
| Transportation and other utilities | c | 703 | 727 | 702 | 725 | 682 | 702 |
| Trade | c | 1,330 | 1,354 | 1,260 | 1,320 | 1,238 | 1,297 |
| Finance, insurance, real estate | d | -363 | 362 | + 362 | 1,377 | , 317 | , 335 |
| Community, personal, other services | c | 1,999 | 2,046 | 1,927 | 1,906 | 1,858 | 1,860 |
| Public administration | c | 480 | 525 | 445 | 497 | 456 | 488 |

Note: Since late 1962, statistics in Table 5 have been published on a 3 -month average basis. However since January 1966, it has been possible to provide monthly estimates of the employed by industry. Accordingly, beginning with the February 1968 report, the statistics in Table 5 refer to the monthly reference periods. Industry estimates on the 3 -month average basis are available on request from the Special Surveys Division.

| Table 6 <br> Class of worker, egriculture and non-agriculture, and sex Week ended September 19, 1970 | Total | Paid workers | Own account workers | Employers | Unpaid family workers |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total emplayed Agriculture Non-agriculture | $\begin{array}{r} 7,986 a \\ 558 \mathrm{~d} \\ 7,428 \mathrm{a} \end{array}$ | $\begin{array}{r} 6,896 \mathrm{a} \\ 115 \mathrm{e} \\ 6,780 \mathrm{a} \end{array}$ | $\begin{aligned} & 532 \mathrm{c} \\ & 258 \mathrm{~d} \\ & 273 \mathrm{~d} \end{aligned}$ | $\begin{array}{r} 357 \mathrm{c} \\ 55 \mathrm{f} \\ 302 \mathrm{~d} \end{array}$ | $\begin{array}{r} 202 \mathrm{~d} \\ 130 \mathrm{e} \\ 72 \mathrm{e} \end{array}$ |
| Men <br> Agriculture Non-agriculture | $\begin{array}{r} 5,393 \mathrm{a} \\ 465 \mathrm{~d} \\ 4,927 \mathrm{a} \end{array}$ | $\begin{array}{r} 4,540 \mathrm{a} \\ 96 \mathrm{e} \\ 4,444 \mathrm{a} \end{array}$ | $\begin{aligned} & 455 c \\ & 253 d \\ & 203 d \end{aligned}$ | $\begin{array}{r} 324 \mathrm{c} \\ 53 \mathrm{f} \\ 271 \mathrm{~d} \end{array}$ | 73 d 64 e 10 f |
| Women <br> Agriculture Non-agriculture | $\begin{array}{r} 2,593 \mathrm{~b} \\ 93 \mathrm{e} \\ 2,500 \mathrm{~b} \end{array}$ | $\begin{array}{r} 2,355 \mathrm{~b} \\ 19 \mathrm{f} \\ 2,336 \mathrm{~b} \end{array}$ |  | 33 e $2 g$ 31 e | 129 d 66 e 63 e |

(1) "S.D." = Standard deviation. For explanation, see "Reliability of Estimates", page 8.
(2) Economic reasons for not working 35 hours or more include short time, layoff for part of the week: and termination or start of employment during the week.
(3) Other reasons for not working 35 hours or more include illness, bad weather, industrial dispute, vacation, and reasons such as a statutory holiday in the week.
Note: The alphabetic symbol following each estimate in table 6 indicates its standard deviation. For explanation, see "Reliability of Estimates", page 8.

Note: Due to the introduction of revised weighting factors in March 1965, small adjustments have been made to estimates published before that time. See the March 1965 edition of this report, page 8.

Regions, Labour Force
(Estimates in thousands)


| Regional distributions <br> Week ended September 19, 1970 | Canada | Atlantic region | Quebec | Ontario | Praitie region | British Columbia |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Population 14 years of age and over | 15,099 | 1,388 | 4,304 | 5,434 | 2,427 | 1,546 |
| Men | 7,482 | 688 | 2,122 | 2,681 | 1,222 | 769 |
| Women | 7,617 | 700 | 2,182 | 2,753 | 1,205 | 777 |
| Labour force | 8,384 a | 671 b | 2,333 b | 3,111 a | 1,394 b | 875 b |
| Men | 5,674 a | 463 b | 1,609 a | 2,069 a | 943 a | 590 b |
| Women | 2,710 b | 208 c | 724 c | 1,042 c | 451 c | 285 d |
| Employed | 7,986 a | 636 b | 2,186 b | 2,997 в | 1,350 b | 817 b |
| Men | 5,393 a | 435 b | 1,502 b | 1,994 a | 914 b | 548 b |
| Women | 2,593 b | 201 c | 684 c | 1,003 c | 436 c | 269 d |
| Agriculture | 558 d | 28 e | 111 e | 140 e | 257 d | 23 f |
| Non-agriculture | 7,428 a | 607 b | 2,075 b | 2,857 b | 1,093 c | 795 c |
| Pald workers | 6,896 a | 555 c | 1,904 b | 2,689 b | $1,020 \mathrm{~b}$ | 727 c |
| Men | 4,540 a | 372 c | 1,289 b | 1,752 b | 647 b | 479 b |
| Women | 2,355 b | 183. c | 615 c | 937 c | 372 c | 248 d |
| Unemployed | 398 d | 35 e | 147 e | 114 e | 44 e | 58 e |
| Men | 281 d | 28 e | 107 e | 75 e | 29 e | 42 e |
| Women | 117 e | 7 f | 40 f | 39 e | 15 g |  |
| Not in the labour force | 6,715 a | 717 b | 1,971 b | 2,323 b | 1,033 b | 671 c |
| Men | 1,808 b | 225 c | 513 c | 612 c | 279 c | 179 c |
| Women | 4,907 a | 492 b | 1,458 b | 1,711 b | 754 b | 492 c |
| Employed 1970, September 19 | 7,986 a | 636 b | 2,186 b | 2,997 a | 1,350 b | 817 b |
| August 22 | 8,272 | 661 | 2,237 | 3,128 | 1,407 | 839 |
| 1969, September 20 | 7,847 | 624 | 2,153 | 2,934 | 1,330 | 806 |
| August 23 | 8,171 | 651 | 2,257 | 3,056 | 1,381 | 826 |
| 1968, September 21 | 7,709 | 630 | 2,151 | 2,859 | 1,311 | 758 |
| August 24 | 7,965 | 647 | 2,203 | 2,981 | 1,346 | 788 |
| Unemployed 1970, September 19 | 398 d | 35 e | 147 e | 114 e | 44 e | 58 e |
| August 22 | 448 | 39 | 171 | 124 | 50 | 64 |
| 1969, September 20 | 279 | 32 | 124 | 68 | 22 | 33 |
| August 23 | 318 | 38 | 138 | 83 | 26 | 33 |
| 1968, September 21 | 262 | 28 | 99 | 73 | 26 | 36 |
| August 24 | 319 | 35 | 124 | 89 | 31 | 40 |

(1) "S.D." = Standard deviation. For explanation, see "Reliability of Estimates", page 8.

Note: The alphabetic symbol following each estimate in table 8 indicates its standard deviation. For explanation, see "Rellability of Eatimates", page 8.

## Sampling Etror

The estimates in this report are based on a sample of households. Somewhat different figures might have been obtained if a complete census had been taken using the same quesionnaires, interviewers, supervisors, processing, etc. as those actually used in the Labour Foree Survey. This difference is called the sampling error of the estimates. In the design and processing of the Labour Force Survey extensive efforts have been made to minimize the sampling error. The sampling error (expressed as a per cent of the estimate itrrefers tol is not the asme for all estimates; of two estimates the larger one will likely have a smaller per cent sampling error and of two estimates of the same size the one referring to a characteristic more evenly distributed across the country wlll tend to have a smaller per cent sampling variability. Also, estimates relating to age and sex are usually more rellable than ofher estimates of comparable size.

## (b) Non-sampling Errors

Errors, which are not related to asmpling, may occur at almost every phase of survey operation. Interviewers may misunderstand fnstructions, respondents may make errors in answering questions, the answers may be incorrectly entered on the questionnaires and errors may be introduced in the processing and tabulations of the data. All these errars are called non-sampling errors. Some of the non-sampling errors will uaually balance out over a large number of obser vationg but systematically occuring errori will contribute to biases. Non-sampling errors can be reduced by a careful design of questionnaires, intenaive training and supervision of interviewers and a thorough control of the processing operstion. In general, the more personal and more subjective inquiries are subject to larger errors. Also, data refering to persons with less stable labour force status will have relatively large non-sampling errors.

## (c) Alphabetic Indicators of Standard Deviation

The sampling error, as deacribed under (a) is not known. A quantity, called the standard deviation, can however be estimated from sample data itself. The standard deviation of an estimate 18 a statistical measure of its sampling error. It also partially measures the effect on non-sampling errors, but does not reflect any systematic blases in the data. The chances are about 68 out of 100 that the difference between a sample estimate and the corresponding cenas figure would be leas than the standard deviation. The chances are about 95 out of 100 that the difference would be less than twice the standard deviation and about 99 out of 100 that it would be less than $21 / 2$ eimes as large.

The standard deviations oftthe estimates, expressed as a per cent of the eatimatea, are indicated by letters. The letter "a" indicater that the atandard deviation is maller
than $0.5 \%$ of the estimate, the letter "b" indicates that the candard deviation is between $0.6 \%$ and $1.0 \%$ of che estimate and wo an shown in the table below.

Alphabetic degignation of per cent atandard deviations

| Alphabetic indicacor | Per cent beandard deviation |
| :---: | :---: |
| a | $0.0 \%-0.5 \%$ |
| $b$ | $0.6 \%-1.0 \%$ |
| c | $1.1 \%-2.5 \%$ |
| d | $2.6 \%-5.0 \%$ |
| $e$ | $5.1 \%-10.0 \%$ |
| E | $10.1 \%-15.0 \%$ |
| B | $15.1 \%-$ |

The actual standard deviation of an estimate is not the same each month. Since the standard deviations of the current estimates are not avallable at the time when this report is published, the alphabetic indicatars are based on the average standsardeviations during the last year. They should, therefore, be interpreted only as indications of the ordfr of magnitude of the standard deviations.

## (d) Standard Deviation of Month-ta-Month Changes

A rough upper limit for the standard deviation of the difference (change) between two estimates referring to two months up to a year apart may also be indicated using the table above. For most characteristics published in this report the standard deviation of the difference between two estimater ia Iikely to be somewhat smallar than the standard deviation of the amalles of the two estimates or in the im mediately preceding range.

For example, suppose that a bypothetical eatimate in May and June was $\$ 13,000$ and 625,000 respectively and the per cent standard deviation of both estimates was indicated by the letter "c", 1.e. it was between $1.1 \%$ and $2.5 \%$. The difference between the May and June estimates $(112,000)$ would, therefore, have a standard devlation which would likely be smaller than $2.5 \%$ of 513,000 , 1.e. it would likely be smaller than 12,800 .

## e) Current Estimates of Standard Deviations

Standard deviationa are computed monthly for eeveral estimates and month-to-month changes. These are avallable wually in a few weeks after the publication of chis report and can be obtained on request. Beginning with 1966, an annual report on the standard deviations during the last year will be released.


[^0]:    (1) The unemployed in an occupation group or an industry group as a percentage of the labot: forct in this group
    (2) Includes managerial, professional and technical, clerical, sales, and communication occurs:iens
    (3) Includes farming, fishing, trapping, logging, and mining occupations.
    (4) Includes labourers and unskilled workers not farming, fishing, logging; or mining.
    (5) Comprises unemployed persons who never had a full-time civilian job lasting two weeks c: mera
    (6) Includes agriculture, forestry, fishing and trapping, and mines, quarries, oil wells.
    (7) Includes transportation, storage, communication, and electric power, gas and water utilities
    (B) Includes community, business and personal service, public administration, and finance, insurance, real estate

    Note: The statistics in these tables are based on the 1961 Census Classification of Occupations and the 1960 Standard Industrial Classification.

[^1]:    (1) "S.D." = Standard deviation. For explanation, see "Reliability of Estimates", page 8.
    (2) Excludes 1 nmates of institutions, members of the armed services, Indians living on reserves and residents of the Yukon and Northwest Territories.
    (3) The labour force as a percentage of the population 14 yess of age ered avar.
    (4) The unemployed as a percentage of the labour force.

