## 71-001

MONTHLY


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## THE LABOUR FORCE

## DECEMBER 1970

In the week ended December 12, 1970, the Canadian labour force was estimated at 8,329,000. This total included 7,791,000 persons employed for all or part of the reference week and 538,000 unemployed persons. Compared with November, the labour decreased by 71,000; with employment down by 133,000 and unemployment up by 62,000 . The declines in the labour force and employment were above average in percentage terms; the increase in unemployment was seasonal. The labour force, the employed and the unemployed were higher than in December 1969 by $234,000,79,000$, and 155,000 respectively.

Between November and December, employment decreased in all regions except British Columbia, where a slight increase was recorded. The smallest decline was in the Atlantic region (28,000); the largest in Ontario $(43,000)$. Compared to

December 1969, Ontario, Quebec, and British Columbia had higher employment; the Atlantic and Prairie regions lower. All of the regions had increases from November in unemployment, ranging from 7,000 in the Prairie region to 29,000 in Quebec, except British Columbia where unemploy ment declined. Compared to December 1969, unemfloyment was higher in all regions.

Unemployment in December was 6.5 per cent of the total labour force, compared with rates of 5.7 in November this year and 4.7 in December 1969. Seasonally-adjusted, the unemployment rate in December 1970 was 6.6 , up from 6.5 in November.
(see page 8 for a note on Seasonal Adjustment).
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## LABOUR FORCE, EMPLOYMENT AND UNEMPLOYMENT <br> IN CANADA <br> ACTUAL AND SEASONALLY ADJUSTED


8007.505

## Unemployment by Sex, Age and Marital Status

## Canada 1961-1970

The Labour Force Survey regularly collects data about the sex, age and marital status composition of the labour force and its components. From these data, unemployment rates (the ratio of the unemployed to the labour force) can be calculated. The following three tables indicate the unemployment situation by sex and age, by sex and marital status, and by sex, age and marital status for Canada from 1961 to 1970 (except for Table 3 where data are not readily avallable prior to 1966). This eleven year period corresponds to a cycle of unemployment; during this period unemployment moved from peak (1961) to trough (1965 and 1966) and back up again (1970).

TABLE 1 Unemployment by Age and Sex

Canada 1961-1970

| Sex and Age |  | 1970 | 1966 | 1961 | 1970 | 1969 | 1968 | 1967 | 1966 | 1965 | 1964 | 1963 | 1962 | 1961 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Both sexesMen | all | 495 | 267 | 466 | 5.9 | 4.7 | 4.8 | 4.1 | 3.6 | 3.9 | 4.7 | 5.5 | 5.9 | 7.1 |
|  | all | 374 | 209 | 401 | 6.6 | 5.2 | 5.5 | 4.6 | 4.0 | 4.4 | 5.3 | 6.4 | 6.9 | 8.4 |
|  | 14-19 | 74 | 42 | 58 | 15.0 | 12.3 | 12.7 | 10.9 | 9.7 | 10.2 | 12.3 | 14.0 | 14.4 | 16.4 |
|  | 20-24 | 80 | 33 | 59 | 10.5 | 7.5 | 7.7 | 6.1 | 5.3 | 5.7 | 7.9 | 9.6 | 10.0 | 11.8 |
|  | 25-34 | 69 | 35 | 94 | 5.3 | 3.9 | 4.4 | 3.7 | 3.1 | 3.5 | 4.5 | 5.6 | 6.1 | 8.1 |
|  | 35-44 | 56 | 33 | 73 | 4.6 | 3.7 | 4.1 | 3.3 | 2.7 | 3.2 | 3.8 | 4.6 | 5.2 | 6.5 |
|  | 45 plus | 94 | 67 | 117 | 4.9 | 4.2 | 4.4 | 3.9 | 3.7 | 3.9 | 4.5 | 5.3 | 6.0 | 7.1 |
| Women | al1 | 121 | 58 | 65 | 4.5 | 3.6 | 3.4 | 3.0 | 2.6 | 2.7 | 3.1 | 3.3 | 3.3 | 3.7 |
|  | 14-19 | 42 | 22 | 24 | 11.4 | 8.9 | 8.3 | 7.3 | 6.4 | 6.9 | 7.6 | 7.7 | 7.9 | 8.6 |
|  | 20-24 | 27 | 10 | 12 | 5.1 | 3.7 | 4.2 | 3.2 | 2.5 | 3.1 | 3.3 | 4.1 | 3.7 | 4.2 |
|  | 25 plus | 52 | 26 | 29 | 2.9 | 2.4 | 2.1 | 1.9 | 1.8 | 1.7 | 2.0 | 2.1 | 2.2 | 2.5 |

TABLE 2
Unemployment by Age and Marital Status
Canada 1961-1970


TABLE 3
Unemployment by Sex and Marital Status, 20-64 years
Canada 1966-1970

| Married |  |  |  |  |  |  |  |  |  |  | Other than Married |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sex and Age |  | Est. in 000 's |  |  |  | Rates |  |  | Est. in 000 's |  | Rates |  |  |  |  |
|  |  | 1970 | 1966 | 1970 | 1969 | 1968 | 1967 | 1966 | 1970 | 1966 | 1970 | 1969 | 1968 | 1967 | 1966 |
| Men | 20-64 | 176 | 101 | 4.4 | 3.5 | 3.7 | 3.2 | 2.7 | 116 | 59 | 11.7 | 8.7 | 9.3 | 7.5 | 6.1 |
|  | 20-44 | 107 | 55 | 4.3 | 3.3 | 3.7 | 3.1 | 2.4 | 98 | 46 | 12.1 | 8.8 | 9.0 | 7.3 | 6.6 |
|  | 45-64 | 68 | 46 | 4.3 | 3.7 | 3.6 | 3.3 | 3.2 | 19 | 12 | 10.7 | 7.7 | 10.0 | 8.4 | 7.1 |
| Women | 20-64 | 44 | 19 | 3.0 | 2.6 | 2.1 | 1.8 | 1.7 | 34 | 17 | 4.3 | 3.1 | 3.4 | 2.9 | 2.4 |
|  | 20-44 | 33 | 14 | 3.2 | 2.7 | 2.5 | 2.1 | 1.9 | 26 | 13 | 4.8 | 3.3 | 3.7 | 3.0 | 2.7 |
|  | 45-64 | 11 | * | 2.3 | 2.2 | * | * | * | * | * | * | * | * | * | * |

* Less than 10,000 unemployed.


## Teshnical 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 amed 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, Ottawa, 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 detas 1 on employment.
Canada, Unemployed (page 7). Table 7 contains 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 material, as it becomes available, will be either 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 pald 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 sex, 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

Labour 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.
Persons who had jobs but did not work during the rejerence week and who also looked for work are Ancluded in the unemployed as pexsons 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 ili, were on indefinite or prolonged layoff, or believed no suitable work was available in the community; or
(b) were temporarily laid off for the full week, i.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 school; keeping house; too old or otherwise unable to work; and voluntarily idle or retired. Housewives, students and others who worked part-time are classified as employed. If they looked for work they are classified as unemployed.

Note: Due to the introduction of revised wefghting 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.

| $\frac{\text { Table } 1}{\text { Summary }}$ | $\begin{aligned} & \text { S.D. } \\ & \text { (1) } \end{aligned}$ | 1970 |  | 1969 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { Dec. } \\ 12 \end{gathered}$ | Nov. 14 | Dec. 13 | $\begin{gathered} \text { Nov. } \\ 15 \end{gathered}$ | Dec. <br> 14 | Nov. 16 |
| Total |  |  |  |  |  |  |  |
| Population 14 years of age and over(2) |  | 15,186 | 15,158 | 14,809 | 14,778 | 14,435 | 14,407 |
| Labour force | a | 8,329 | 8,400 | 8,095 | 8,115 | 7,940 | 8,015 |
| Employed | a | 7,791 | 7,924 | 7,712 | 7,761 | 7,567 | 7,677 |
| Agriculture | d | 449 | 482 | 457 | 491 | 467 | 523 |
| Non-agriculture | a | 7,342 | 9,442 | 7,255 | 7,270 | 7,100 | 7,154 |
| Unemployed | d | 538 | 476 | 383 | 354 | 373 | 338 |
| Not in the labour force | a | 6,857 | 6,758 | 6,714 | 6,663 | 6,495 | 6,392 |
| Particlpation rate (3) | a | 54.8 | 55.4 | 54.7 | 54.9 | 55.0 | 55.6 |
| Unemployment rate (4) Actual | d | 6.5 | 5.7 | 4.7 | 4.4 | 4.7 | 4.2 |
| Seasonally adjusted |  | 6.6 | 6.5 | 4.8 | 5.0 | 4.8 | 4.9 |
| Men |  |  |  |  |  |  |  |
| Population 14 years of age and over(2)\| |  | 7,524 | 7,511 | 7.339 | 7,324 | 7,156 | 7,142 |
| Labour force | a | 5,631 | 5,669 | 5,488 | 5,502 | 5,401 | 5,433 |
| Employed | d | 5,219 | 5,322 | 5,192 | 5,243 | 5,107 | 5,174 |
| Agriculture | d | 400 | 422 | 407 | 429 | 412 | 451 |
| Non-agriculture | a | 4,820 | 4,900 | 4,785 | 4,814 | 4,695 | 4,723 |
| Unemployed | d | 412 | 347 |  | 259 | 294 | 259 |
| Not in the labour force | b | 1,893 | 1,842 | 1,851 | 1,822 | 1,755 | 1,709 |
| Participation rate (3) | a | 74.8 | 75.5 | 74.8 | 75.1 | 75.5 | 76.1 |
| Unemployment rate (4) | d | 7.3 | 6.1 | 5.4 | 4.7 | 5.4 | 4.8 |
| Women |  |  |  |  |  |  |  |
| Population 14 years of age and over(2) |  | 7,662 | 7,647 | 7,470 | 7,454 | 7,279 | 7,265 |
| Labour Eorce | b | 2,698 | 2,731 | 2,607 | 2,613 | 2,539 | 2,582 |
| Employed | b | 2,572 | 2,602 | 2,520 | 2,518 | 2,460 | 2,503 |
| Agriculture | e | 49 | 59 | 50 | 62 | 55 | 72 |
| Non-agriculture | b | 2,522 | 2,543 | 2,470 | 2,456 | 2,405 | 2,431 |
| Unemployed | e | 126 | 129 | 87 | 95 | 79 | 79 |
| Not in the labour force | a | 4,964 | 4,916 | 4,863 | 4,841 | 4,740 | 4,683 |
| Participation rate (3) | b | 35.2 | 35.7 | 34.9 | 35.1 | 34.9 | 35.5 |
| Unemployment rate (4) | e | 4.7 | 4.7 | 3.3 | 3.6 | 3.1 | 3.1 |

(1) "S.D." = Standard deviation. For explanation, see "Reliability of Estimates", page 8.
(2) Excludes inmates 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 yeers of 2 ge ame ouer.
(4) The unemployed as a percentage of the labour force.

Note: With the exception of Table 2, all statistics rulut to a mperithe veok, the last day of 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, $1948.1970$ | $\begin{aligned} & \text { S.D. } \\ & \text { (1) } \end{aligned}$ | 1970 | 1969 | 1968 | 1967 | 1966 | 1965 | 1964 | 1963 | 1962 | 1961 | 1960 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Population 14 years of age and over (2) |  | 15,016 | 14,638 | 14,264 | 13,874 | 13,475 | 13,128 | 12,817 | 12,536 | 12,280 | 12,053 | 11,831 |
| Labour Force | a | 8,374 | 8,162 | 7,919 | 7,694 | 7,420 | 7,141 | 6,933 | 6,748 | 6,615 | 6,521 | 6,411 |
| Employed | a | 7,879 | 7,780 | 7,537 | 7,379 | 7,152 | 6,862 | 6,609 | 6,375 | 6,225 | 6,055 | 5,965 |
| Agriculture | d | 511 | 535 | 546 | 559 | 544 | 594 | 630 | 649 | 660 | 681 | 683 |
| Non-agriculture | a | 7,368 | 7,245 | 6,992 | 6,820 | 6,609 | 6,268 | 5,979 | 5,726 | 5,565 | 5,374 | 5,282 |
| Unemployed | d | 495 | 382 | 382 | 315 | 267 | 280 | 324 | 374 | 390 | 466 | 446 |
| Not in the labour - force |  | 6,642. | 6,475 | 6,344 | 6,179 | 6,055 | 5,986 | 5,884 | 5,787 | 5,665 | 5,531 | 5,420 |
| Participation rate(3) | a | 55.8 | 55.8 | 55.5 | 55.5 | 55.1 | 54.4 | 54.1 | 53.8 | 53.9 | 54.1 | 54.2 |
| Unemployment rate (4) | d | 5.9 | 4.7 | 4.8 | 4.1 | 3.6 | 3.9 | 4.7 | 5.5 | 5.9 | 7.1 | 7.0 |
|  | 1959 | 1958 | 1957 | 1956 | 1955 | 1954 | 1953 | 1952 | 1951 | 1950 | 1949 | 1948 |
| Population 14 years of age and over (2) | 11,605 | 11,388 | 11,123 | 10,807 | 10,597 | 10,391 | 10,164 | 9,956 | 9,732 | 9,615 | 9,268 | 9,141 |
| Labour force | 6,242 | 6,137 | 6,008 | 5,782 | 5,610 | 5,493 | 5,397 | 5,324 | 5,223 | 5,163 | 5,055 | 4,988 |
| Employed | 5,870 | 5,706 | 5,731 | 5,585 | 5,364 | 5,243 | 5,235 | 5,169 | 5,097 | 4,976 | 4,913 | 4,375 |
| Agriculture | 700 | 718 | 748 | 777 | 819 | 878 | 858 | 891 | 939 | 1,018 | 1,077 | 1,096 |
| Non-agriculture | 5,170 | 4,988 | 4,983 | 4,808 | 4,546 | 4,365 | 4,377 | 4,278 | 4,158 | 3,958 | 3,837 | 3,779 |
| Unemployed | 372 | 432 | 278 | 197 | 245 | 250 | 162 | 155 | 126 | 186 | 141 | 114 |
| Not in the labour force | 5,363 | 5,250 | 5,115 | 5,025 | 4,987 | 4,898 | 4,767 | 4,632 | 4,509 | 4,453 | 4,213 | 4,153 |
| Participation rate(3) | 53.8 | 53.9 | 54.0 | 53.5 | 52.9 | 52.9 | 53.1 | 53.5 | 53.7 | 53.7 | 54.5 | 54.6 |
| Unemployment rate (4) | 6.0 | 7.0 | 4.6 | 3.4 | 4.4 | 4.6 | 3.0 | 2.9 | 2.4 | 3.6 | 2.8 | 2.3 |


| Age, sex, and marital status Week ended December 12, 1970 | Total | $\begin{gathered} 14-19 \\ \text { years } \\ \text { all } \\ \text { persons } \end{gathered}$ | 20.64 years |  |  |  | 65 years and over <br> all <br> persons |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Men |  | Women |  |  |
|  |  |  | Married | Other | Married | Ot her |  |
| Population 14 years of age and over(2) | 15,186 | 2,516 | 4,286 a | $1,226 \mathrm{~b}$ | 4,409 a | 1,161 c | 1,588 |
| Labour force | 8,329 a | 785 c | 4,072 a | 964 c | -1,516c | 790 c | 204 d |
| Employed | 7,791 a | 679 c | 3,860 a | 840 c | $\frac{1,466 \mathrm{c}}{1,5}$ | 753 c 37 | 193 d |
| Unemployed | 538 d | 106 e | 212 d | 123 e | 50 f | 37 f | 10 g |
| Not in the labour | 6,857 a | 1,731 b | 214 d | 262 d | 2,893 b | 372 d | 1,384 a |
| Participation rate (3)-1970 Dec. 12 Nov. 14 | $54.8 \mathrm{a}$ $55.4$ | $\begin{aligned} & 31.2 \mathrm{c} \\ & 32.2 \end{aligned}$ | $95.0 \mathrm{a}$ $95.2$ | $\begin{aligned} & 78.6 \mathrm{a} \\ & 79.5 \end{aligned}$ | $34.4 \mathrm{c}$ $35.1$ | $68.0 \mathrm{~b}$ $68.2$ | $\begin{aligned} & 12.8 \mathrm{~d} \\ & 13.4 \end{aligned}$ |
| Unemployment rate (4)-1970 Dec. 12 | 6.5 d | 13.5 e | 5.2 d | 12.8 e | 3.3 f | 4.7 f | 4.9 g |
| Nov. 14 | 5.7 | 13.1 | 4.1 | 10.8 | 3.0 | 5.2 | 3.8 |

(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.

|  | $\begin{aligned} & \text { S.D. } \\ & (1) \end{aligned}$ | 1970 |  | 1969 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Summary |  | $\begin{gathered} \text { Dec. } \\ 12 \end{gathered}$ | Nov. $14(2)$ | $\begin{aligned} & \text { Dec. } \\ & 13 \end{aligned}$ | Nov. $15(2)$ | $\begin{gathered} \text { Dec. } \\ 14 \end{gathered}$ | Nov. 16(2) |
| Total employed | a | 7,791 | 7,924 | 7,712 | 7,761 | 7,567 | 7,677 |
| Agriculture | d | 449 | 482 | 457 | 491 | $467$ | $523$ |
| Non-bgriculture | a | 7,342 | 7,442 | 7,255 | 7,270 | 7,100 | 7,154 |
| Eroployed, non-agriculture | a | 7,342 | 7,442 | 7,255 | 7,270 | 7,100 | $\overline{7}, 154$ |
| Usually work 35 hours or more | a | 6,418 | 6,489 | 6,347 | 6,383 | 6,248 | 6,295 |
| At work 35 hours or more | a | 5,896 | 4,751 | 5,900 | 4,706 | 5,769 | 4,732 |
| At work less than 35 hours, or not at work | $c$ | 522 | 1,738 | 447 | 1,677 | 479 | 1,563 |
| Due to economic reasons (3) | e | 83 | 75 | 73 | 76 | 80 | 79 |
| Due to other reasons (4) | c | 439 | 1,662 | 374 | 1,601 | 399 | 1,484 |
| Usually work less than 35 hours | c | 924 | 953 | 908 | 887 | 852 | 859 |


|  | $\begin{aligned} & \text { S.D. } \\ & (1) \end{aligned}$ | 1970 |  | 1969 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { Dec. } \\ 12 \end{gathered}$ | Nov. 14 | Dec. 13 | Nov. 15 | $\begin{gathered} \text { Dec. } \\ 14 \end{gathered}$ | Nov. 16 |
| Total employed | a | 7,791 | 7,924 | 7,712 | 7,761 | 7,567 | 7,677 |
| Agriculture | d | 449 | 482 | 457 | 491 | 467 | 523 |
| Other primary industries | d | 206 | 215 | 206 | 215 | 219 | 225 |
| Manufacturing | c | 1,735 | 1,765 | 1,757 | 1,796 | 1,765 | 1,782 |
| Construction | c | 446 | 476 | 461 | 489 | 466 | 500 |
| Transportation and other utilities | c | 700 | 692 | 687 | 670 | 675 | 639 |
| Trade | $c$ | 1,380 | 1,374 | 1,347 | 1,323 | 1,314 | 1,313 |
| Finance, insurance, real estate | d | 378 | 383 | 358 | 354 | 331 | 335 |
| Community, personal, other services | c | 2,006 | 2,049 | 1,971 | 1,970 | 1,873 | 1,882 |
| Public administration | c | 490 | 488 | 468 | 453 | 457 | 478 |

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 avallable on request from the Special Surveys Division.

| Table 6 <br> Class of worker, agriculture and non-agriculture, and sex Week ended December 12, 1970 | Total | Paid workers | Own account workers | Employers | Unpaid <br> family <br> workers |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total employed Agriculture Non-agriculture |  | $\begin{array}{rl} \hline 6,817 & a \\ 82 & e \\ 6,735 & a \end{array}$ | $\begin{array}{ll} 501 & c \\ 243 & d \\ 257 & d \end{array}$ |  |  |
| Men <br> Agriculture <br> Non-agriculture | $\begin{array}{r} 5,219 \mathrm{a} \\ 400 \mathrm{~d} \\ 4,820 \mathrm{a} \end{array}$ | $\begin{array}{r} 4,433 \\ 69 \\ 4,363 \end{array}$ | $\begin{array}{ll} 424 & c \\ 239 & d \\ 185 & d \end{array}$ | $\begin{array}{rr} 292 & \mathrm{c} \\ 33 & \mathrm{f} \\ 259 & \mathrm{~d} \end{array}$ |  |
| Women $\begin{aligned} & \text { Agriculture } \\ & \text { Non-agriculture } \end{aligned}$ |  | $\begin{array}{rr} 2,384 & b \\ 12 & f \\ 2,371 & b \end{array}$ |  |  |  |

(1) "S.D." = Standard deviation. For explanation, see "Reliability of Estimates", page 8. (2) in the reference weeks of November 1968,1969 and 1970 , unusually large numbers worked fewer than 35 hours due to Remembrance Day holidays. (3) Economic reasons for not working 35 hours or more inclutaz short time, layoff for part of the week and termination or start of employment during the week.
(4) Other reasons for not working 35 hours or more include illness, bad wepther, 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)

| Table 7 <br> Unemployed | $\begin{aligned} & \text { S.D. } \\ & \text { (1) } \end{aligned}$ | 1970 |  | 1969 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { Dec. } \\ 12 \end{gathered}$ | Nov. 14 | Dec. 13 | $\begin{gathered} \text { Nov. } \\ 15 \end{gathered}$ | Dec. 14 | Nov. 16 |
| Total unemployed | d | 538 | 476 | 383 | 354 | 373 | 338 |
| Without work and seeking work | d | 495 | 451 | 350 | 331 | 343 | 318 |
| Seeking full-time work | d | 470 | 419 | 328 | 306 | 320 | 298 |
| Seeking part-time work | £ | 25 | 32 | 22 | 25 | 23 | 20 |
| On temporary layoff up to 30 days | £ | 43 | 25 | 33 | 23 | 30 | 20 |
| Without work and seeking work | d | 495 | 451 | 350 | 331 | 343 | 318 |
| Seeking under 1 month | d | 124 | 130 | 106 | 111 | 110 | 118 |
| Seeking 1-3 months | d | 203 | 168 | 149 | 132 | 142 | 112 |
| Seeking 4-6 months | e | 84 | 78 | 49 | 41 | 47 | 44 |
| Seeking more than 6 months | e | 84 | 75 | 46 | 47 | 44 | 44 |


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

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

## a) <br> Sampling Error

The estimates in this report are based on a sample of households. Somewhat different figures might have been obtained if a complete census had bean taken using the same questionnafres, interviewers, supervisors, processing, etc as those actually used in the Labour Force 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 it refers tol is not the same 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 will tend to have a smaller per cent sampling variability. Also, estimates relating to age and sex are usually more reliable than other estimates of comparable size.

## b) Hon-sampling Errors

Errors, which are not related to sampling, may occur at almost every phase of a survey op ration. Interviewers may misunderstand instructions, respondents may make errors in answering questions, the answers may be incorrectly entered on the questionnaires and errors may be introduced in the procesaing and tabulations of the data. All these errors are callud nun-sampling errors. Some of the non-sampling errors will usually balance out over a large number of observalions but systematically occuring errors wilt contribute to biases. Non-sampling errors can be reduced by a careful design of questlonnaires, intensive training and supervision of interviewers at:d a thorough control of the processing operation. In general, the more personal and more subjective inouiries are subject to larger errors. Also, data referring to persons with less stable labour force status will have relatively targe non-sampling errors.

## (c) Alphabetic Indicators of Standard Deviation

The sampling error, as described under (a) is not known. A cuantity, called the standard deviation, can however be ustimated from sample data itself. The standard deviation of
 IIt also partislly messures the effect on non-sampling cerors, |but dous not reflect any systematic biases in the data. The chances are about 68 out of 100 that the difference between a sample estimate and the corresponding census figure would be Less than the standard deviation. The chances are about 95 out of 100 that the difference would be less than twice the standard duviation and about 99 out of 100 that it would be less than $21 / 2$ times as large.

The standard deviations of the estimates, expressed as a per cent of the estimates, are indicated by letters. The letter "a" indicates that the standard deviation is smaller

## Reliability of Estimater

than $0.5 \%$ of the estimate, the letter "b" indicates that the standard deviation is between $C .6 \%$ and $t .0 \%$ of the estimate and so on as shown in the table below.

Alphabetic designation of per cent standard deviations

| Alphabetic indicator | Per cent standard deviation |
| :---: | :---: |
| a | $0.0 \%-0.5 \%$ |
| $b$ | $0.6 \%-1.0 \%$ |
| $c$ | $1.1 \%-2.5 \%$ |
| $d$ | $2.6 \%-5.0 \%$ |
| $e$ | $5.1 \%-10.0 \%$ |
| f | $10.1 \%-15.0 \%$ |
| g | $15.1 \%-$ |

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

## (d) Standard Deviation of Month-to-Monch 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 estimates is likely to be somewhat smaller than the standard deviation of the smaller of the two estimates or in the immediately preceding range.

For example, suppose that a hypothetical estimate in May and June was 513,000 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 deviation which would likely be smallev than $2.5 \%$ of 513,000 , i.e. It would likely be smaller than 12,000.

## (e) Current Estimates of Standard Deviations

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

## WHAT IS SEASONAL ADJUSTMENT

Fluctuations in economic time series, such as unemployment rates, are caused by seasonal, cyclical and irregular movements. A sea-sonally-adjusted series is one from which the seasonal movements have been eliminated. Seasonal movements are defined as those which are caused by regular annual events such as climate, crop cycles, holidays and vacation periods. Thus, a seasonally-adjusted series is one which has been modified for normal annual conditions (the seasonal component), but which retains both longerterm trends (the cyclical component) and other residual movements such as strikes or unusual weather conditions (the irregular component). The annual average of a seasonally-adjusted series is equal to the annual average of an unadjusted series (within a small fraction) because over the course of a year the seasonal factor averages unity. Seasonal adjustment is an essential tool in business cycle analysis because it eliminates the seasonal element which tends to obscure the underlying trend-cycle.

