EMBARGO: noon 19 December 1972

## THE LABOUR FORCE, AUGUST 1972

Reference No. 6.20

Estinates of the civilian labour force are based on the results of the quarterly population survey, which is conducted on a sample basis throughout fustralia in Pebruary, May, August and November each year. The survey information is obtained by means of personal intervievs carried out by specially trained enumerators. A now sample has been introduced. For letalls, eee page 15, paragraph 2. See also paragraph 2 belos. The estimates relate to all persons aced fifteen years and over, except aembers of the permanent armed forces, national servicemen anlisted in the legular Army Supplement and certain diplomatic parsonnel custoraarily excluded from census and cetimated populations.

## Erfect of tie new sample

2. 

4s explained on page 15 the new sample has been phased in over three surveys, May to November 1972, in order that the offect on the eample estimates can be assessed. The February 1972 estimates were based entirely on the old sarple, ard the liovembar 1972 estimates will be based entirely on the new sample. Investigation of the changes brought about by the introauction of the new sample will not be completed until after the November survey, but it appears, from information already avallable, that some diacontinuity will result, particularly in the estimates for married homen in the labour force. Until a more accurate assessment of possible discontinuity can be made, care should be taicen in interpreting changes in the estimates bẹtween February and hiay and between hay and dugust 1972.

## Birthplace and yoar of arrival in Australia

3. 

Earticulars of oirthplace and, for migranta, year of arrival in Australia were published for Febriagry 1972 in the bulleiin "The Labour Foree : Country of Birth and Period of Residence in Australia, February $1972^{\circ}$ (Reference No. 6.31). Separate particulars for the Australlan-born and the overseas-born were included in tho May 1972 bulletin "The Labour Force".
4.

Since the estimates in this bulletin are based on a sample, they are likely to differ from the figuree that would have been obtained from a complete census using the sane questionnaires and procedures. The exact differences ore unknom, $k$ it a measure of the likely magnitude is given by the standard error of the estimate. For most gurposes it is sufficient to use the approximate relationship betreen size of estimate and atandard arror given in Table $A$ on rego 16.
5. The amaller the estimate, the higher the relative standard error. Very small estimates are subject to such hien standard errors (relative to the size of the estinate) as to detract seriously from their value for most reasoncble uses. fiany of the estimates for unemployed migrants in liay 1972 were of this kind. Furthermore, during the progresaive intfeduction of the new sanple in 1972 the standard errors of changes between estimates for successive quarters are greater than usual. Por these reasons separate particulars for aigrants classified by year of arrival rere not pliblisher in the liay 1972 issue of the bulletin.
6.

Vevartheless, because of the videspread interest in these esticates a sumary of the principal etatistics of birthplace and year of arrival is eiven in Table 2 of this issue for the monthe of Pebruary, liay and Ausust 1972 . For the reasons given in paragrank 5, any very small estimates shown in Table 2 should be used with caution. It is particularly important that the lilely standard orrors of such estimates be kept in mind. For example, although the nusbec of persons aho had arrived in fustralia in the period January 1971 to furust 1972 and who uere unemployed in Aviust 1972 is given as 7,700, this is not a precise measure; the epproximate standard error of thie estimate suEfests that therc are about nineteen charices in trenty that the figurc obtained from a complete enumeration would have been :1thin the wide range of 5,700 to 9,700 . The corresponding estinated peroentage ( 5.8 ) is subject to almost the sate relative sampling variability as is the estimate of the number unemployed.
7.

Additional caution should be employed if snall esticates are used to evaluate movements between yiurters, because of the effects of the progressive introduction of the new sample indicated above. finally, it should be noted that the quarterly estimates for fersons arriving after the beginning of 1971 refer to successively lareer groups of frople, with an increasing average duration or residence.
B. Eeparate particular3 for a number of individual countries of birth were published for February 1972. Such partjcuines are not included in Table 2, because alanst all the estimatea of unemployed persons for lay and Augist $1 \leq: 72$ aice below 4,000 and are therefore subject to high sampling variability. See page 15, paragraph 11 .
9.

In the calculation of the labour force participation rates shom in Tables 2 and 5 , persons in: institutions for shom, for the purposes of the survey, the institution was regarded as their usual place of residence, have been omitted, since it is not practicable to ascertain the birthplace or the year of arrival in austialia for sitch persons.
10.
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## EXPLAAAATORY FOTSE

## Classification of the labour forea

The labour farce clabatication begod-In the ourveys conforms closely to that recomended by the Eighth International Conference of Labour:Statisticiant,ineld, in Genove in 1954. The labour forte category':to yhich a person is assigned depends on his actual activity (íes whether vorking, looking for work, etc.) durinc. a apecified reek, knom as "survey ueek", which is the weak inmediatily precedine thiat in rhich the intervieh. takes place. The interviews are carried out durine mariod of four veeks, so that there are four survey veiks in each of the months to which the survey relates. These surfey weeks generally fall yithin the linits of the caiendar nonth. The principal categories appearing in the tables in this builetin are derined in the folloring paragraphs.

The labour force comprises all persons who, during survey veek, were employed or unemployed as defined in paragraphs 3 and 4.
3. Employed persong comprise all those who, during survey veek,
(a) did any work for pay; profit, commission or payment in kind, in a,job or business, or on a farm (including exployees, employers and self-employed poprons), or
(b) worked fifteen houre or more vithout pay in a femily business (or farn), or
(c) had a job, busineas or farm, but were not at work because of illpess, accidant, leave, holiday, production hold-up due to bad veather, plant breakdom, etc., or because they were on strike.

A person who had a job but was temporarily laid off by his employer for the whole week without pay is excluded, and is classified in the tables as unemployed. A person who did some wort during the weak, however, before he either lost his job or vas laid off: is classifiad as enployed. A person who held wore than one job is counted only once, in the joh at which he worked most hours during burvey week.
4. Uncmployed persons compise all those who, during survey veek, did no vork at all, and who either
(a) did not have a job or business and vere activaly looking for full-time or part-tiaie rork (including those who stated that they would have iooied ior wori if they had: not been teriporarily. 111 or believed no vork vas available, or had not already made definite-arrangeinents to atart work in a new job after survey veek), or
(b) were laid off from their jobs without pay for the whole week.

A person who either lost his job or was laid off durfing survey weak, but did some work at his job during survey week, is classified as emiployed.
5. Full-time workess are those who usually work 35 hours a weak or more and others vho, although asually part-time workers, sorked 35 hours or more during the survey veek.

Part-time workers are those who usually work less than 35 hours a reek and who did so during the survey week. lihen recording hours of work, fractions of an hour are diaregarded.
6. Persons not in the labper force are all those who, during eurvey weel, vere not in the catacories "employed" or "unemployed" as defined. This category therefore includes persons without a job, business or farm who Here not actively looking for work, and who, during the survey veek, vere either keeping house (unpaid); attending an educational institution (e.g. school or university), retired or voluntarily idla, parmanently unable to vork or inmates of institutions. A person who vorked less than fifteen hours without pay in a family business during survey veek is also classified as not in the labour force.

At the 1971 population census, trainee teachera (enroiled at govermmont teachers colleges and in some cases enrolled also at other institations), vere for the first time classified as not in the labour force, and since then they have also been excluded from labour force estimates derived from the population survey. Exclusion of these students constitutes a break in the series between May and August 1971 , the numbers of males and females excluded fras tive labour force in AuEust 1971 being approximately seven thousand and seventeen thousend respectively.
8.

The principal items in this bulletin are shem for the six latest quarters. Greater detail is given for the latest quarter only: A wider range of detailed estivates Sor each quarter fron february 1964 to llovenber 1970 has becn publishec in julletins entitled "The Labour rorce", covering the perioc 1964 to 1968 and sinzle years thereafter (All kefcrence iio. 6.22). Particulars for the year 1971 will be publisned shortly.
9.

The survey periods for February 1971 and Sebmary 1972 vere later than in the immedietely precedine years, and us a consenuence the estimate of the froportion of the population 15 years and over who "went to school" is correspondingly higher. No exact estimate of this effect is available; howevor, it may be conjectured that had the survey period been one week earlier approxinately twenty thousard fewer persons would have been classified in the "went to school" category.
10.

In the August 1971 issue of this bulletin revised estinates of the numbers of persons employed in. agriculture and other industries were published for the peiciod from February 1968 to hiay 1971.

## Seasonally edjusted series

11. 

Seasonally adjusted estimates for selected labour force charecteristica are shown in Table 3. Details of the nethods used in seasonally adjusting these statistics ere explained in "Seasonally idjusted Indicators, 1972" (ieference No. 1.10).

NOT:. Any discrepancies between totals and sums of components in tables are due to rounding.

CIVILI: POFULATIC:', BY En PLOYET:T SMAUS : SUMMRY, AUGUST 1972 (a)

|  | Hales | Females | Persons |
| :---: | :---: | :---: | :---: |
| nusber ( ${ }^{\text {a }} 000$ ) |  |  |  |
| Civilian population aged 15 and over | 4,578.3 | 4,648.7 | 9,227.0 |
| Not in the labour force | 809.9 | 2,816.8 | 3, 525.7 |
| In the labour force | 3,768.4 | 1,831.9 | 5,600.3 |
| Employed | 3,701.0 | 1,778.0 | 5,478.9 |
| In full-time jobs | 3,578.5 | 1,305.7 | 4,884.2 |
| In part-time jobs | 122.5 | 472.3 | 594.8 |
| Unemployed | 67.4 | 53.9 | 121.3 |
| Looking for full-time work | 63.3 | 36.8 | 100.0 |
| Looking for part-time work | 4.1 | 17.2 | 21.3 |

ratas (Per cent)

| Labour force participation rate (b) | 82.3 | 39.4 | 60.7 |
| :--- | ---: | ---: | ---: |
| Unemployment rate (c) - | 1.8 | 2.9 | 2.2 |
| Original | 2.1 | 3.5 | 2.5 |

(a) For a note on persons excluded see page 1. Derinitions of the categories of the population shoun in the table are given on page 3.
(b) The labour force in each group as a percentage of the civilian population aped 15 and over in the same group.
(c) The unemployed as a percentace of the civilian labour force. NOTE. See page 1, paragraph 2, regarding offect of the new sample.


| Month |  | Employed (b) |  |  | Unemployed (b) |  | $\begin{gathered} \text { Total } \\ \text { labour force (b) } \end{gathered}$ |  | $\begin{gathered} \text { Not in the } \\ \text { labour } \\ \text { force } \\ \text { ('000) } \end{gathered}$ | Civilianpopulationased 15 andover $(\mathrm{a})$$(1000)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Agri- } \\ & \text { culture } \\ & (1000) \end{aligned}$ | $\begin{gathered} \text { Other } \\ \text { industries } \\ \text { ('000) } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & (1, \infty) \end{aligned}$ | Number $(1000)$ | $\|$Fer cent <br> of labour <br> force | Number ( $\cdot 000$ ) | Per cent of popula- tion (c) |  |  |
| males |  |  |  |  |  |  |  |  |  |  |
| 1971 | May | 341.9 | 3,342.2 | 3,684.1 | 44.0 | 1.2 | 3,728.1 | 82.9 | 767.1 | 4,495.2 |
|  | Aug. | 333.8 | 3,336.3 | 3,670.1 | 39.3 | 1.1 | $\frac{3,728.1}{3,709.4}$ | 82.3 | 799.6 | 4,509.0 |
|  | Nov. | 344.1 | 3,333.4 | 3,677.5 | 57.0 | 1.5 | 3,734.6 | 82.3 | 804.4 | $4,539.0$ |
| 1972 | Feb.(d) | 355.8 | 3,350.6 | 3,706.4 | 74.8 | 2.0 | 3,781.3 | 82.8 | 784.3 |  |
|  | May | 345.3 | 3,371.3 | 3,716.6 | 61.0 | 1.6 | 3,777.6 | 82.5 | 800.1 | 4,577.7 |
|  | Aug. | 351.4 | 3,349.6 | 3,701.0 | 67.4 | 1.8 | 3,768.4 | 82.3 | 809.9 | 4,578.3 |
| MARRIED VCTM |  |  |  |  |  |  |  |  |  |  |
| 1971 | May | 50.3 | 990.2 | $1,040.4$ | 24.1 | 2.3 | 1,064.5 | 35.2 | 1.962 .3 | 3,026.3 |
|  | Aug. | 54.5 | 991.2 | 1,045.7 | 21.4 | 2.0 | 1,067.1 | 35.3 | 1,954.3 | 3,021.4 |
|  | Nov. | 54.6 | 1,023.7 | 1,078.2 | 19.5 | 1.8 | 1,097.7 | 35.9 | 1,955.9 | 3,053.6 |
| 1972 | Feb. (d) | 58.7 | 988.5 | 1,047.2 | 33.1 | 3.1 |  |  |  |  |
|  | Muy | 51.7 | 1.012 .8 | 1,064.5 | 27.8 | 2.5 | 1,092.3 | 35.2 | 2,011.8 | 3,104.1 |
|  | sug. | 55.3 | 1,047.8 |  |  | 2.4 | 1,131.2 | 36.5 | 1,971.3 | 3,102.5 |
| OTILR FEFALES (e) |  |  |  |  |  |  |  |  |  |  |
| 1971 | Hay | 11.6 | 706.5 | 718.0 | 14.6 | 2.0 | 732.6 | 47.2 | 797.8 | 1,530.4 |
|  | Aug. | 11.8 | 677.9 | 689.7 | 14.3 | 2.0 | 704.0 | 45.4 | 847.3 | 1,551.3 |
|  |  | 12.0 | 662.3 | 674.4 | 23.2 | 3.3 | 697.5 | 44.9 | 854.3 | 1,551.9 |
| 1972 | Feb. (d) | 12.6 | 680.5 | 693.1 | 28.0 | 3.9 | 721.1 | 46.1 |  |  |
|  | Hay | 11.1 | 670.2 | 681.2 | 21.4 | 3.0 | 702.6 | 45.6 | 839.4 | 1,542.0 |
|  | Aug. | 12.2 | 662.2 | 674.3 | 26.4 | 3.8 | 700.7 | 45.3 | 845.5 | 1,546.2 |
| ALL FCMALES |  |  |  |  |  |  |  |  |  |  |
| 1971 | May | 61.8 | 1.696 .6 | 1.758 .4 |  |  |  | 39.4 |  |  |
|  | Aug. | 66.3 | 1,669.1 | 1.735 .3 | 35.8 | 2.0 | $\frac{1,771.1}{1.7}$ | 38.7 | $\frac{2,801.6}{}$ | 4,572.7 |
|  | Nov. | 66.6 | 1,686.0 | 1,752.6 | 42.7 | 2.4 | 1,795.2 | 39.0 | 2,810.3 | 4,605.5 |
| 1972 | Feb. (d) | 71.3 | 1,669.0 | 1,740.3 | 61.0 | 3.4 | 1,801.3 | 38.9 | 2,833.3 | 4,634.6 |
|  | May | 62.8 | 1,683.0 | 1,745.8 | 49.2 | 2.7 | 1,794.9 | 38.6 | $2,851.3$ $2,81.2$ | $4,634.6$ $4,646.1$ |
|  | Aug. | 68.0 | 1,710.0 | 1,778.0 | 53.9 | 2.9 | 1,831.9 | 39.4 | 2,816.8 | 4,648.7 |
| PERSCNS |  |  |  |  |  |  |  |  |  |  |
| 1971 | Hay | 403.7 | 5.038 .8 | 5,442.5 | 82.7 | 1.5 | 5,525.1 | 61.0 | 3.527 .3 | 9,052.4 |
|  | Auc. | 400.1 | 5.005 .3 | 5,405.4 | 75.1 | 1.4 | 5,430.5 | 60.3 | 3,601.2 | 9,081.7 |
|  | Nov. | 410.6 | 5,019.5 | 5,430.1 | 99.7 | 1.8 | 5,529.8 | 60.5 | 3,614.7 | 9,144.5 |
| 1972 |  | 427.2 | 5,019.6 | 5,446.8 | 135.8 | 2.4 | 5,582.6 | 60.7 | 3,617.6 | 9,200.2 |
|  | May | 408.1 | 5,054.3 | 5,462.4 | 110.2 | 2.0 | 5,572.6 | 60.4 | 3,651.2 | 9,223.8 |
|  | Aug. | 419.4 | 5,059.6 | 5,478.9 | 121.3 | 2.2 | 5,600.3 | 60.7 | 3,626.7 | 9,227.0 |

(a) For a note on persons excluded see introductory note, page 1. (b) For definitions see paze 3, paragraphs 2 to 4. (c) The labour force in each group as a percentage of the civilian population aged 15 years and cver in the sata group (labour force participation rate). (d) See page 4 , paragraph 9. (e) Hever married, vidoued and divorced.
NCTE. See page 3, paragraph 7, regarding discontinuity of the series. Sec also page 1, paragraph 2, regarding effect of the new sample.

(a) Aged 15 yoars and over. (b) For definiticns see page 3 , paragraphs 2 to 4 . (c) The labour force in each group as a percentage of the civilian noz-institutional population aged 15 years and over in the same group. See page 1, paregraph; (d) See axplanation of these figures in paragraphs 6 and 7 of page 1.
*OTE. Less than or based on a figure less than 4,000. See page 16 , paragraph 11 . r -revised.
IOTE. See page 1, paragraph 2, regarding effect of tho new sample,

TAELE 3. - SR;SOHALLY ADJUSTED SERIES (a)

| Fionth |  | N\| Persons in the labour force (b) ('000) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Males |  | Misrried wozen |  | - All females |  | Total |  |
|  |  | Original | $\begin{aligned} & \text { Seasonally } \\ & \text { adjusted } \end{aligned}$ | Original | Seasonally adjusted | Original | Seasonally edjusted | Criginal | Sicasonally adjusted |
| $\begin{aligned} & 1971 \text { Siay } \\ & \text { Aus. (c) } \\ & \text { Xov. } \end{aligned}$ |  | $\begin{aligned} & \frac{3,728.1}{3,709.4} \\ & 3,734.6 \end{aligned}$ | $\begin{aligned} & 2.726 .5 \\ & 3.725 .2 \\ & 3.745 .6 \end{aligned}$ | $\begin{aligned} & 1,064.5 \\ & 1,067.1 \\ & 1,097.7 \end{aligned}$ | $\begin{aligned} & \frac{1,069.1}{1,075.0} \\ & 1,077.6 \end{aligned}$ | $\begin{aligned} & \frac{1,797.1}{1,771.1} \\ & 1,795.2 \end{aligned}$ | $\begin{aligned} & \frac{1,799.2}{1,790.2} \\ & 1,784.1 \end{aligned}$ | $\begin{aligned} & \frac{5,525.1}{5,480.5} \\ & 5,529.8 \end{aligned}$ | $\begin{aligned} & \frac{5.526 .5}{5,516.6} \\ & 5,527.7 \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| $\begin{gathered} 1972 \text { Feb. (d) } \\ \text { May } \\ \text { Aug. } \end{gathered}$ |  | 3,781.3 | 3,755.9 | 1,080.3 | 1,087.5 | 1,801.3 | 1,791.5 | $\begin{aligned} & 5,582.6 \\ & 5,572.6 \\ & 5,600.3 \end{aligned}$ | $\begin{aligned} & 5,547.1 \\ & 5,573.8 \\ & 5,637.8 \end{aligned}$ |
|  |  | 3,777.6 | 3.775 .9 | 1,092.3 | 1,097.5 | 1,794.9 | 1,796.7 |  |  |
|  |  | 3.768 .4 | 3.784 .5 | 1,131.2 | 1,139.9 | 1,831.9 | 1,852.2 |  |  |


| Month |  | Participation rafe (per.cent) (e) |  |  |  | Unemployed nersons (1000) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Hales |  | Females |  | Fales |  | Fenales |  | Total |  |
|  |  | Original | Seasmally adjusted | Original | Seasonally adjusted | Originsil | $\begin{aligned} & \text { Seasonally } \\ & \text { adjusted } \end{aligned}$ | Oricinal | Seasonally adjusted | Original | Seasonally adjusted |
| 1971 | May | $82.2$ | 82.9 | 39.4 | 39.5 | 44.0 | 44.6 | 38.7 | 40.0 | 82.7 | 84.9 |
|  | Aug. | 82.3 | 82.5 | 38.7 | 39.1 | 39.3 | 45.2 | 35.8 | 43.0 | 75.1 | 88.2 |
|  | Nov. | 82.3 | 82.5 | 39.0 | 38.7 | 57.0 | 56.1 | 42.7 | 45.4 | 99.7 | 102.0 |
| 1972 | Feb.(d) | 82.8 | 82.4 | 38.9 | 38.7 | 74.8 | 66.4 | 61.0 | 48.3 | 135.8 | 113.3 |
|  | May | 82.582.3 | $\begin{aligned} & 82.5 \\ & 82.5 \end{aligned}$ | $\begin{aligned} & 38.6 \\ & 39.4 \end{aligned}$ | $\begin{aligned} & 38.7 \\ & 39.8 \end{aligned}$ | $\begin{aligned} & 61.0 \\ & 67.4 \end{aligned}$ | $\begin{aligned} & 61.8 \\ & 77.7 \end{aligned}$ | $\begin{aligned} & 49.2 \\ & 53.9 \end{aligned}$ | $\begin{aligned} & 50.9 \\ & 64.9 \end{aligned}$ | $\begin{aligned} & 110.2 \\ & 121.3 \end{aligned}$ | $\begin{aligned} & 113.3 \\ & 142.8 \end{aligned}$ |
|  | Aug. |  |  |  |  |  |  |  |  |  |  |

(a) For details of methods used in seasonally adjusting these series see "Seasonally Adjusted Indicators 1972" (Reference No. 1.10), issued on 6 July 1972. (b) Civilians aged 15 years and over. For definitions see page 3 , paragraphs 2 to 4. (c) Excludes trainee teachers, some of whom were classified in the labour force for earlier periods. See page 3, paragraph 7. (d) See page 4 , paragraph 9 . (e) The labour force in each eroup as a percentage of the civilian population aged 15 years and over in the same group.

NOTE. See page 3 , paragraph 7, regarding dibcontinuity of the seriea. See also page 1 , paragraph 2 , regarding
effect of the nev sample.

TABLE 4. - CIVILIAN LABOUR FORCE (a). BY AGE, AUGUST 1972

|  | Number $(1000)$ |  |  |  | - Per cent of population (b) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males | Married vomen | $\begin{gathered} \text { All } \\ \text { females } \end{gathered}$ | Persons | Hiales | Karried vomen | $\begin{gathered} \text { All } \\ \text { females } \end{gathered}$ | Persons |
| 15-19 | 326.2 | 23.9 | 307.4 | 633.6 | 56.4 | 46.1 | 54.8 | 55.6 |
| 20-24 | 495.5 | 164.7 | 326.8 | 822.3 | 91.2 | 47.3 | 60.6 | ; 75.9 |
| 25-34 | 908.9 | 290.1 | 363.1 | 1,272.0 | 97.7 | 36.5 | 41.1 | 70.1 |
| 35-44 | 752.0 | 302.2 | 351.6 | 1,103.7 | 97.6 | 45.5 | 48.3 | 73.7 |
| 45-54 | 707.2 | 253.9 | 320.5 | 1,027.7 | 95.6 | 41.4 | 44.3 | 70.3 |
| 55-59 | 276.6 | 63.6 | 95.5 | 372.1 | 90.7 | 26.8 | 30.3 | 60.0 |
| 60-64 | 198.2 | 25.4 | 44.7 | 242.9 | 77.3 | 14.4 | 16.8 | 46.5 |
| 65 and over | 103.7 | 7.4 | 22.3 | 126.0 | 22.8 | 3.4 | 3.5 | 11.6 |
| Total | 3,768.4 | 1,131.2 | 1,831.9 | 5,600.3 | 82.3 | 36.5 | 39.4 | 60.7 |

(a) Civilians aged 15 years and over. For definitions see page 3 , paragrapha 2 to 4 . (b) The labour force in each group as a percentage of the civilian population in the same group (labour force participation rate). NOTE. Sce page 1 , paragraph 2, regarding effect of the new sample.
(Per cent)

| Age eroup (years) | Born in Australia |  |  | Eorn outside Australia |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hales | Females | Persons | Nale3 | Females | Persons |
| 15-19 | 56.3 | 54.1 | 55.2 | 58.7 | 60.8 | 59.7 |
| 20-24 | 92.4 | 60.8 | 76.6 | 91.4 | 60.4 | 76.0 |
| 25-34 | 98.2 | 38.5 | 68.6 | 98.6 | 48.1 | 75.0 |
| 35-44 | 98.1 | 45.7 | 71.6 | 98.7 | 55.6 | 79.6 |
| 45-54 | 95.9 | 42.2 | 68.6 | 97.1 | 51.7 | 76.2 |
| 55-59 | 90.7 | 29.6 | 58.5 | 94.4 | 34.6 | 67.9 |
| $66^{60-64}$ | 77.6 | 16.0 | 45.1. | 79.6 | 20.6 | 53.1 |
| 65 and over | 23.7 | 3.9 | 12.0 | 24.9 | 3.7 | 13.9 |
| Total | 82.1 | 38.5 | 59.7 | 86.5 | 45.0 | 67.1 |

(a) The labour force in each group as a percentage of the civilian nor-institutional population aged 15 years and over in the same group. See page 1 , paragraph 9. 's'OTE. See pace 1, paragraph 2, regarding effect of the new sample.

TABLE 6. - WEPLOYED PERSONS (a) BY GOURS VORED (b), AUCUST 1972

|  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

(a) Civilians aged 15 years and over. For definition see page 3 , paragrapin 3 . (b) Actual hours worked during survey week, not hours paid for. The figures may be affected by public holidays, leave, absenteeism; temporary absence from work due to sickness, accidents and industrial disputes; and work stoppages due to bad weather, plant breakdorm, etc. (c) Never married, widowed and divorced. (d) Excludes persons laid off without pay for the whole of survey weck; these persons are classified as uneaployed. (e) For definitions see page 3, paragraph 5. (f) Persons vith jobs who did not work during survey week have been included in the calculation of average hours vorked. liken recording hours worked, fractions of an hour are disregarded. This procedure results in a slight lowering of the everage hours figures.
NOTE. See page 1 , paragraph 2, regarding effect of the new sample.
10.
 ( ${ }^{\circ} \infty$ )

| Reason for working less than 35 hours | Miales | Married homen | $\begin{aligned} & \text { Other } \\ & \text { fenales (c) } \end{aligned}$ | $\begin{gathered} \text { All } \\ \text { ferales } \end{gathered}$ | Fersons |
| :---: | :---: | :---: | :---: | :---: | :---: |
| USUALLY HORK 35 EOURS OR HORE |  |  |  |  |  |
| Leave or holiday | 192.6 | 51.4 | 38.6 | 90.0 | 282.5 |
| Own illness or injury | 111.0 | 28.1 | 19.2 | 47.2 | 158.2 |
| Bad weather, breakdown, etc. | 11.6 | * | * | * | 12.0 |
| Began or lost job in survey veek | 7.4 | * | * | 7.0 | 14.5 |
| On short time | 6.6 | * | * | , | 8.0 |
| Other reasons | 16.8 | * | * | * | 19.7 |
| Total | 345.9 | 86.6 | 62.5 | 149.1 | 495.0 |
| USUALLY HORK LESS TEAN 35 HOURS |  |  |  |  |  |
| Preferred part-time vork | 107.1 | 367.8 | 76.9 | 444.7 | 551.8 |
| Lack of work | 10.0 | 13.2 | 4.4 | 17.7 | 27.7 |
| Other reasons | 5.3 | 7.2 | * | 9.9 | 15.3 |
| Total | 122.5 | 388.3 | 84.0 | 472.3 | 594.8 |

(a) Civilians aged 15 years and over. For definition see page 3, paregraph 3. (b) See note (b) to. Table 6.
(c) Never married, widowed and divorced.

* Less than 4,000. See page 16 , paragraph 11.

NOTE. See page 1, paragraph 2, regarding effect of the new sample.

TABLE 8. - EUPLOYED HARRIED GOKEN ( 2 ), BY INDUSTRY AND HOURS HORKED (b), AUGUST 1972
('000)

| Industry group | Part-time workers (c) |  |  |  | ```Full- time workers (c)``` | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hours worked (b) |  |  | Total |  |  |
|  | Under 16 | 16-29 | 30-34 |  |  |  |
| Agriculture | 13.2 | 11.0 | \% | 27.7 | 28.2 | 55.8 |
| Manufacturing | 20.2 | 18.2 | 10.4 | 48.8 | 206.5 | 255.4 |
| Commerce | 42.2 | 43.6 | 9.0 | 94.8 | 166.7 | 261.5 |
| Community and business services (d) | 47.2 | 41.9 | 19.8 | 109.0 | 156.0 | 265.0 |
| Amusement, hotels, personal service | 39.7 | 26.1 | 6.6 | 72.4 | 70.2 | 142.6 |
| Other industries | 18.0 | 14.5 | * | 35.6 | 87.8 | 123.4 |
| Total | 180.6 | 155.4 | 52.3 | 388.3 | 715.4 | 1,103.6 |

(a) Civilians aged 15 years and over. For definition see page 3 , paragraph 3. (b) See note (b) to Table 6.
(c) For definitions see page 3 , paragraph 5. (d) Comprises law, order and public safety; religion and social welfare; health, hospitals, etc.; education; and other community and bysiness services (including professionsl). "less than 4,000. See page 16 , paragraph 11.
NOIS. See page 1, paragraph 2, regarding effect of the new sample,

TABLE 9. - UNEMPLOYED PERSONS (a). BY AGE, AUCUST 1972

| Age group (years | Number unemployed ( ${ }^{\text {com }}$ ) |  |  |  | Per cent of labour force (b) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hales | Married vomen | $\begin{aligned} & \text { All } \\ & \text { females } \end{aligned}$ | Persons | Males | Harried vomen | $\begin{gathered} \text { All } \\ \text { females } \end{gathered}$ | Persons |
| Total | 67.4 | 27.6 | 53.9 | 121.3 | 1.8 | 2.4 | 2.9 | 2.2 |
| 15-19 | 17.5 | * | 16.4 | 33.9 | 5.4 | * | 5.3 | 5.3 |
| 20 and over | 49.9 | 26.3 | 37.6 | 87.5 | 1.4 | 2.4 | 2.5 | 1.8 |
| 20-24 | 12.4 | 4.7 | 10.4 | 22.8 | 2.5 | 2.9 | 3.2 | 2.8 |
| 25-34 | 12.4 | 9.9 | 11.6 | 24.0 | 1.4 | 3.4 | 3.2 | 1.9 |
| 35-44 | 9.1 | 7.1 | 8.2 | 17.4 | 1.2 | 2.5 | 2.3 | 1.6 |
| 45-54 | 8.5 | * | 5.0 | 13.5 | 1.2 | * | 1.5 | 1.3 |
| 55 and over | 7.4 | - | * | 9.8 | 1.3 | * | * | 1.3 |

(a) Civilians aged 15 years and over. For definition see page 3, paragraph 4. (b) The unemployed in each group as a percentage of the civilian labour force in the same group.
${ }^{\text {A }}$ - Less than or based on a figure less than 4,000 . See page 16 , paragraph 11.
HOTE. See pace 1, paragraph 2, regarding effect of the new sample.

| $\begin{aligned} & \text { Age group } \\ & \text { years) } \end{aligned}$ | Nurber unenpl oyed ( ${ }^{(000 \text { ) }}$ |  |  | Per cont of labour force (b) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males | Pemales | Perbons | Males | Pemales | Persons |
| BORN IN AUSTRALIA |  |  |  |  |  |  |
| fotsl | 43.0 | 38.3 | 81.3 | 1.6 | 2.8 | 2.0 |
| 15-19 | 14.9 | 13.8 | $28.6{ }^{\circ}$ | 5.3 | 5.3 | 5.3 |
| 20 and over | 28.2 | 24.6 | 52.7 | 1.1 | 2.2 | 1.5 |
| 20-24 | 9.0 | 8.4 | 17.3 | 2.3 | 3.2 | 2.7 |
| 25-34 | 6.1 | 7.3 | 13.4 | 1.0 | 3.0 | 1.5 |
| 35 and over | 13.1 | 8.9 | 22.0 | 0.9 | 1.50 | 1.1 |
| BCRA OUTSIDE AUSTRALIA |  |  |  |  |  |  |
| Total | 24.3 | 15.6 | 40.0 | 2.4 | 3.3 | 2.7 |
| $15-19$ | . | * | 5.2 | * | - | 5.6 |
| 20 and over | 21.7 | 13.0 | 34.7 | 2.2 | 3.1 | 2.5 |
| 20-24 | , | * | 5.5 | - | - | 3.2 |
| 25-34 | 6.3 | 4.4 | 10.6 | 2.2 | 3.7 | 2.7 |
| 35 and over | 12.0 | 6.6 | 18.6 | 2.0 | 2.7 | 2.2 |

(a) Civilians aged 15 years and over. For definition see page 3, paragraph 4. (b) The unemployed in each group as a ercentge of the civilian labour force in the same croup.

Less than or based on a figure less than 4,000 . See page 16, paragraph 11.
MOT:. See page 1, paragraph 2, regarding effect of the new sample.

PABLE 11. - UNEPFLOMENT PATES (A) STATE CAPITAL CITIES AFD OTHMR AREAS
(Per cent)

| Month |  | . | State capital cities (b) |  |  | Other areas |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Males | Pemales | Persons | Mains | Females | Persons |
| 1971 | May |  |  | 1.2 | 1.8 | 1.4 | 1.2 | 2.9 | 1.7 |
|  | Ausust |  | 1.1 | 1.8 | 1.3 | 1.0 | 2.6 | 1.4 |
|  | November |  | 1.5 | 1.9 | 1.6 | 1.6 | 3.3 | 2.1 |
| 1972 | February |  | 2.3 | 3.2 | 2.6 | 1.4 | 3.9 | 2.1 |
|  | May |  | 1.8 | 2.4 | 2.0 | 1.4 | 3.4 | 1.9 |
|  | August |  | 1.9 | 2.7 | 2.2 | 1.6 | 3.5 | 2.2 |

(a) The unemplofed in each group as a percentage of the civilisn labour force in the same group. (b) The figures relate to fersons residing within the boundaries of the relevant Statistical Divisions. Bxplanatory notes on the deliditation of urban boundaries and maps ahoring the boundaries of the capital oity Statistical Diviaions vere published in "Census of the Commonwealth of Australia, 30 June 1966 - Yield Count Statement Ho. 4 ". YOTE. See page 1, paragraph 2, regarding offect of the new aample.

TABLE 12. - USEEFLOTRD PERSORS (A) LOOKING POP FULL-TINE LORXX AND LCOKIHC FOR PART-TDIE WCRK, ADGUST 1972

|  | Hales | Fiarried romen | $\begin{gathered} \text { Other } \\ \text { females. (b) } \end{gathered}$ | $\begin{gathered} \text { All } \\ \text { femgles } \end{gathered}$ | Persons |
| :---: | :---: | :---: | :---: | :---: | :---: |
| joking for full-time rork (c) |  |  |  |  |  |
| Funler (' 000 ) | 63.3 | 14.3 | 22.5 | 36.8 | 100.0 |
| ```Onc=ployment rate (c) (per cent)``` | 1.7 | 2.0 | 3.7 | 2.7 | 2.0 |
| poking for part-tine vork (e) Viumber ( ${ }^{\prime}, \infty$ ) | 4.1 | 13.3 | - | 17.2 | 21.3 |
| ```Unerployment rate (d) (per cent)``` | 3.2 | 3.3 | * | 3.5 | 3.5 |

Civilians aied 15 ycars and over. Por definition see pere 3, psragraph 4. (b) Fevar married, vidoued and divorced. Includes persons laid off for the whole week from full-time jobs. (d) The mumar of unemployed in each eroup as a ercentere of ti:e labour force in cach group. (e) Ircluces iarsons laid off for the shole week from part-time jobs. less than or based on a figure less than 4,000. See page 16, paragraph 11. TE. See pace 1, garagreph 2, regarding effect of the new sample.

|  | Hales | $\begin{gathered} \text { Married } \\ \text { Monen } \\ \hline \end{gathered}$ | $\begin{gathered} \text { All } \\ \text { femalcs } \\ \hline \end{gathered}$ | Fersons |
| :---: | :---: | :---: | :---: | :---: |
| Number unemployed ('000) Under 2 нeeks 2 weeks and under 4 weeks 4 " " " 8 weeks 8 " " " 13 weeks 13 weeks and over | $\begin{array}{r} 9.8 \\ 18.5 \\ 12.8 \\ 13.4 \\ 12.9 \end{array}$ | 4.6 7.2 5.1 5.1 5.6 | $\begin{aligned} & 10.0 \\ & 11.9 \\ & 10.2 \\ & 10.4 \\ & 11.5 \end{aligned}$ | $\begin{aligned} & 19.8 \\ & 30.3 \\ & 22.9 \\ & 23.8 \\ & 24.4 \end{aligned}$ |
|  | 67.4 | 27.6 | 53.9 | 121.3 |
| Averace duration of unemployment (c)(veeks) - <br> Aged 15-19 years <br> Aged 20 years and over <br> All unemployed persons | $\begin{array}{r} 6.7 \\ 10.5 \\ 9.5 \end{array}$ | $*$ 9.3 9.2 | $\begin{array}{r} 8.5 \\ 10.4 \\ 9.8 \end{array}$ | $\begin{array}{r} 7.6 \\ 10.5 \\ 9.7 \end{array}$ |

(a) Civilians ared 15 years and over. Por definition see page 3, paragraph 4. (b) Period from the time the person began looking for work, or vas laid off, to the end of survey week. (c) Periode of unemployment are recorded only in complete ueeks; the averages shown are affected accordingly.

- Based on a figure less than 4,000 . See page 16 , paragraph 11.

NOTE. See page 1, paragraph 2, regarding offect of the new sample.
 ('000)

| Duration of usicmployment (b) - (veeks) | Age (years) |  | Married | $\begin{gathered} \text { Not } \\ \text { married }(c) \end{gathered}$ | Lookine for - |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15-19 | 20 and over |  |  | work (d) | work (e) |  |
| males |  |  |  |  |  |  |  |
| Under 2 | * | 6.5 | 4.0 | 5.6 | 0.2 |  | 9.8 |
| 2 and under 4 | 6.0 | 12.5 | 6.8 | 11.7 | 17.5 | * | 18.5 |
| 4 and under 13 | 6.4 | 19.8 | 11.0 | 15.1 | 25.5 | * | 26.2 |
| 13 and over | * | 11.1 | 6.2 | 6.7 | 12.0 | - | 12.9 |
| Total | 17.5 | 49.9 | 28.0 | 39.4 | 63.3 | 4.1 | 67.4 |
| FEMALES |  |  |  |  |  |  |  |
| Under 2 | * | 6.7 | 4.6 | 5.4 | 5.6 | 4.4 | 10.0 |
| 2 end under 4 | * | 8.3 | 7.2 | 4.6 | 7.6 | 4.3 | 11.9 |
| 4. and under 13 | 6.3 | 14.3 | 10.2 | 10.4 | 15.0 | 5.6 | 20.6 |
| 13 and over. | * | 8.3 | 5.6 | 5.9 | 8.6 | * | 11.5 |
| Total | 16.4 | 37.6 | 27.6 | 26.4 | 36.8 | 17.2 | 53.9 |
| PRRSCNS |  |  |  |  |  |  |  |
| Under 2 | 6.7 | 13.2 | 8.6 | 11.2 | 13.8 | 6.0 | 19.8 |
| 2 and under 4 | 9.5 | 20.8 | 14.0 | 16.3 | 25.1 | 5.3 | 30.3 |
| 4 and under 13 | 12.7 | 34.1 | 21.2 | 25.6 | 40.5 | 6.2 | 46.8 |
| 13 and over | 5.0 | 19.4 | 11.8 | 12.6 | 20.6 | * | 24.4 |
| Total | 33.9 | 87.5 | 55.6 | 65.7 | 100.0 | 21.3 | 121.3 |

(a. Civilians aged 15 years and over. For definition see page 3, paragraph 4. (b) Period from the tine the
person bejan looking for work, or was laid off, to the end of survey week. (c) Never married, widowed and divorced. (d) Includes persons laid off for the whole week from full-time jobs. (e) Includes persons laid off for the whole week from part-time jobs.

* Less than 4,000. Sce page 16 , paracraph 11.

NOTE. See page 1, paragraph 2, regarding effect of the new sample.

| Industry. group (b) | Unemployment rate | Occupation Group (c) | Unemployment rate |
| :---: | :---: | :---: | :---: |
| Acriculture | 1.3 | Professional and technical workers | 1.1 |
| Manufacturins | 2.2 | Clerical workers | 1.4 |
| Building and construction | 2.5 | Sales vorkers | 2.5 |
| Transport and atorage | 1.5 | Farmers, fishernen, timbergetters,etc. | 1.4 |
| Commerce | 2.2 | Tranaport and communication vorkers | 1.5 |
| Community and business services (d) | 1.5 | Craftsmen, production-process workers |  |
| Anusement, hotels, personal service,etc. | 3.3 | and labourers, n.e.c. (e) | 2.5 |
| Other industries | 1.3 | Service, sport and recreation workers | 3.2 |
|  |  | Other occupations | - |
| Total | 2.2 | Total | 2.2 |

(a) The unemployed in each group as a percentage of the civilian labour force in the same group. (b) Based on industry of last job. (c) Based on occupation of last job. (d) See note (d) to Table 8. (e) Includes miners, quarrymen and related workers.
*Based on a figure less than 4,000. See page 16, paragraph 11.
NOTE. See page 1, paragraph 2, regarding effect of the net sample.
TABLE 16. - UNEMPLOYED PE:SCNS (A): ITDUSTRY, OCCUPATION AID DURATICN CP UTMMPLONESNT, AUCUST 1972
( 1000 )

| Industry group (b) | Kumber unemployed | Occupation group (c) | Euraber unemployed |
| :---: | :---: | :---: | :---: |
| Agriculture | 5.7 | Professionsl and technical workers | 6.8 |
| Manufacturing | 31.0 | Clerical workers | 12.7 |
| Under 2 weeks | 4.3 | Under 4 weaks | 6.8 |
| 2 and under 4 veeks | 7:3 | Sales workers | 12.5 |
| 4 and under 8 veeks | 5.9 | Under 4 weeks | 5.2 |
| 8 and under 13 weeks | 6.3 |  |  |
| Building and construction | 12.2 | Farmers, fishermen, timbergetters, etc. | 6.7 |
| Under 4 weeks . | 5.5 | Transport and comunication workers | 4.9 |
| Transport and storage | 4.3 | Craftamen, production-process workers and labourers, n.e.c. (e) | 48.6 |
| Commerce Under 4 weeks | 22.4 9.1 | Under 2 weeks | 6.2 |
| 4 and under 8 veeks | 4.3 | 2 and under 4 veeks | 12.0 |
| 8 and under 13 weeks | 4.5 | 4 and under 8 veeks | 9.7 |
| Cormunity and buainess services (d) | 11.1 | 8 and under 13 weeks | 10.6 |
| Under 4 weeks | 5.0 | Service, sport and recreation workers Under 4 veeks | $\begin{array}{r} 15.8 \\ 5.9 \end{array}$ |
| Amusement, hotels, personal eervice, etc. | 12.8 |  | * |
| Other industries | 9.9 | Other occupations | * |
| '̇o previous work experience | 12.0 | No previous work experience | 12.0 |
| Under 4 weeks | 6.2 | Under 4 weeks | 6.2 |
| Total | 121.3 | Tatal | 121.3 |

(a) Civilians aged 15 years and over. For definition sae page 3 , paragraph 4. (b) See note (b) to Table 15.
(c) See note (c) to Table 15. (d) See note (d) to Table 8. (e) See note (e) to Table 15.

* Less than 4,000. See page 16, paracraph 11.

HoTE. Soe page 1, paragraph 2, regarding offect of the new sample.

( 1000 )

| . | Honth | Kept house | dent to school, etc. | Retired or voluntarily idle | Permanently unable to work | Institu tionalised (b) | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HALES |  |  |  |  |  |  |  |
| $1971$ | Niay <br> August <br> November | $\begin{aligned} & 13.9 \\ & 15.7 \\ & 16.1 \end{aligned}$ | $\begin{aligned} & \frac{246.5}{273.8} \\ & 274.0 \end{aligned}$ | $\begin{aligned} & 415.1^{\circ} \\ & 421.3 \\ & 424.7 \end{aligned}$ | $\begin{aligned} & 36.5 \\ & 33.7 \\ & 35.1 \end{aligned}$ | $\begin{aligned} & 55.3 \\ & 55.1 \\ & 54.5 \end{aligned}$ | $\begin{aligned} & \frac{767.3}{799.6} \\ & 804.4 \end{aligned}$ |
| $1972$ | ```February (c) May August``` | $\begin{array}{r} 15.3 \\ 11.6 \\ 9.9 \end{array}$ | $\begin{aligned} & 228.5 \\ & 275.2 \\ & 279.5 \end{aligned}$ | $\begin{aligned} & 453.1 \\ & 424.5 \\ & 428.7 \end{aligned}$ | $\begin{aligned} & 32.6 \\ & 36.2 \\ & 38.6 \end{aligned}$ | $\begin{aligned} & 54.8 \\ & 52.6 \\ & 53.2 \end{aligned}$ | $\begin{aligned} & 784.3 \\ & 800.1 \\ & 809.9 \end{aligned}$ |
| MLRRIED YONSU |  |  |  |  |  |  |  |
| $1971^{\circ}$ | May August Novenber | $\begin{aligned} & 1.923 .8 \\ & 1,912.7 \\ & 1.917 .3 \end{aligned}$ | $\frac{4}{5.6}$ | $\begin{aligned} & 21.6 \\ & 21.9 \\ & 19.2 \end{aligned}$ | $\stackrel{+}{*}$ | $\begin{aligned} & 11.6 \\ & 19.1 \\ & 12.0 \end{aligned}$ | $\begin{aligned} & \frac{1,962.3}{1,954.3} \\ & 1,955.9 \end{aligned}$ |
| 1972 | February (c) May August | $\begin{aligned} & 1,947.3 \\ & 1,969.2 \\ & 1,929.6 \end{aligned}$ | $\begin{aligned} & 5.4 \\ & 4.4 \\ & 6.0 \end{aligned}$ | $\begin{aligned} & 23.0 \\ & 21.3 \\ & 21.9 \end{aligned}$ | * | $\begin{aligned} & 11.1 \\ & 13.1 \\ & 14.1 \end{aligned}$ | $\begin{aligned} & 1,089.8 \\ & 2,011.8 \\ & 1,971.3 \end{aligned}$ |
| OTHER FMMALES (d) |  |  |  |  |  |  |  |
| 1971 | Nay <br> August <br> November | 436.7 446.0 452.3 | 193.8 <br> 231.8 <br> 232.3 | $\begin{array}{r} 103.4 \\ 98.9 \\ 97.7 \end{array}$ | $\begin{aligned} & 13.4 \\ & 12.7 \\ & 13.5 \end{aligned}$ | $\begin{aligned} & 50.4 \\ & 58.0 \\ & 58.5 \end{aligned}$ |  |
| 1972 | February (c) May August | $\begin{aligned} & 468.6 \\ & 442.4 \\ & 429.7 \end{aligned}$ | $\begin{aligned} & 194.3 \\ & 221.9 \\ & 225.8 \end{aligned}$ | $\begin{aligned} & 111.4 \\ & 103.9 \\ & 116.6 \end{aligned}$ | $\begin{aligned} & 12.1 \\ & 13.2 \\ & 15.3 \end{aligned}$ | $\begin{aligned} & 57.1 \\ & 58.0 \\ & 58.1 \end{aligned}$ | $\begin{aligned} & 843.5 \\ & 839.4 \\ & 845.5 \end{aligned}$ |
| ALI FEHALES |  |  |  |  |  |  |  |
| 1971 | May <br> August <br> November | $\begin{aligned} & 2,360.5 \\ & 2,358.7 \\ & 2,369.5 \end{aligned}$ | $\begin{aligned} & \frac{197.1}{237.3} \\ & 236.3 \end{aligned}$ | $\begin{aligned} & 125.0 \\ & 120.8 \\ & 116.9 \end{aligned}$ | $\begin{aligned} & 15.5 \\ & 15.7 \\ & 17.0 \end{aligned}$ | $\begin{aligned} & 62.0 \\ & 69.0 \\ & 70.5 \end{aligned}$ | $\begin{aligned} & \frac{2,760.1}{2,801.6} \\ & 2,810.3 \end{aligned}$ |
| 1972 | ```February (c) Mgy Avgust``` | $\begin{aligned} & 2,415.9 \\ & 2,411.6 \\ & 2,359.3 \end{aligned}$ | $\begin{aligned} & 199.6 \\ & 226.3 \\ & 231.8 \end{aligned}$ | $\begin{aligned} & 134.4 \\ & 125.1 \\ & 138.5 \end{aligned}$ | $\begin{aligned} & 15.1 \\ & 17.0 \\ & 18.0 \end{aligned}$ | $\begin{aligned} & 68.2 \\ & 71.2 \\ & 69.2 \end{aligned}$ | $\begin{aligned} & 2,833.3 \\ & 2,851.2 \\ & 2,816.8 \end{aligned}$ |
| PERSONS |  |  |  |  |  |  |  |
| 1971 | May <br> August November | $\begin{aligned} & 2,374.5 \\ & 2,374.4 \\ & 2,385.6 \end{aligned}$ | $\begin{aligned} & \frac{443.5}{511.1} \\ & 510.3 \end{aligned}$ | $\begin{aligned} & 540.1 \\ & 542.2 \\ & 541.6 \end{aligned}$ | $\begin{aligned} & 52.0 \\ & 49.4 \\ & 52.1 \end{aligned}$ | $\begin{aligned} & 117.3 \\ & 124.1 \\ & 125.0 \end{aligned}$ | $\begin{aligned} & \frac{3,527.4}{3,601.2} \\ & 3,614.7 \end{aligned}$ |
| 1972 | February (c) Nay hugust | $\begin{aligned} & 2,431.3 \\ & 2,423.2 \\ & 2,369.2 \end{aligned}$ |  | $\begin{aligned} & 587.5 \\ & 549.6 \\ & 567.2 \end{aligned}$ | $\begin{aligned} & 47.7 \\ & 53.2 \\ & 56.7 \end{aligned}$ | $\begin{aligned} & 123.0 \\ & 123.7 \\ & 122.4 \end{aligned}$ | $\begin{aligned} & 3,617.6 \\ & 3,651.2 \\ & 3,626.7 \end{aligned}$ |

(a) Civilians aged 15 years and over. For definitions see page 3 , paragraph 6. (b) Comprises inmates of gocis, patierts in hospitals, sanatoria, etc., for whon, for the purpose of the survey, the institution was regarded as their dvelling. (c) Jee page 4, paragraph 9. (d) Never married, widowed and divorced.
*Less than 4,000. See page 16, paragraph 11.
NoTE. See page 3, paragraph 7, regarding discontinuity of the series. See also page 1, paragraph 2, regarding effect of the new sample.

## Estimation procedure

Estimates are derived fram the quarterly population survey by use of a complex ratio estimation procedure, which ensures that the eurvey estimates conform to an independently estimated distribution of the population by age and sex, rather than to the age and sex distribution within the sample itaelf.

## Redesign and reselection of the a3mple

2. The deaign of the sample on which the labour force aurvey is based has been thoroughly investigated and a more efficient sampling plan has been devised. Data obtained in the 1971 Census of Population and Housing have been used to reselect the sample in accordance with the improved design.
3. Before the redesign, a one per cent samplo throughout Australia vas used. About 40,000 private dwellings (houses, flats, etc.) as well as a sample of other dwellings (hotels, motels, etc.) were included. In the new sample the proportion of the population included varies fron State to State, but, in aggregate, about two thirds of one per cent of the population of Australia is included. The new sample will consist of about 27,000 private dwellings as well as a sample of other dwellings.
4. 

In order to appraise changes in the eatinates due to the introduction of the new aample, it has been. phased in over three surveys. In the Hay 1972 survey half of the new oample from metropolitan areas replaced half of the old metropolitan sample. In Ausust 1972 the other half of the new metropolitan sample was introduced and half of the new sample from extra-metropolitan areas replaced half of the old extra-metropolitan sample. In November 1972 the changeover was completed with the introduction of the remaining half of the new extra-metropolitan sample. In August 1972 the total sample consisted of about 29,500 dwelling3.

## Reliability of the estimatea

5. Since the estimates in this bulletin are based on a ample, they may differ irom the figures that would have been obtained from a complete consus using the same questionnaires and procedures. One measure of the likely difference is given by the stundard error, which indicates the extent to which an estimate aight have varied by chance because only a sample, and not the whole population, was enumerated. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained from a comparable complete enumeration, and about nineteen chences in trenty that the difference will be less than two standard errors.
6. Space does not allow for the aeparate indication of the atandard errors of all eatimates in this bulletin. A table of standard errors for general application is given below (Table A). These figures will not give a precise measure of standard error of a particular estimate since they are averagea based on calculations for a limited number of past aurveys over a vide range of labour force characteristics. However, they will provide an indication of the nagnitude of the standard error of any particular eatimate for any particular survey. An example of the use of Table a is as follows : if the estimate obtained from the eample is 100,000 and the standard error is 3 per cent of the estimate, $i .0 .3,000$, there are about tuo chances in three that the true figure is within the range 97,000 to 103,000 and about aineteen chances in twenty that tinis figure is botween 94,000 and 106,000 .

## 7.

Standard orrors of estimates from the new sample have not yet been calculated and therefore the standerd errors shown are, strictly speaking, applicable only to results based on the old sample. However, the decrease in sample size and the increase in eflicieccy resulting fram the redesign rould have opposite effects on the standard errors and it is considered that the standard errors in Table $A$ will atill give a reasonable indication of the sampling variability of the hugust survey results.
8. The quarter-to-quarter change in the level of an estimate ia also subject to sampling variability. The standard error of the change depends on the atandard error of the level of the eatimate, rather than on the change itself. Final eatimates of the etandard errors or movement have not yet been calculated, but an indication of the memitude of stendard errors of quarter-to-quarter change up to the February 1972 survey is given in Table $F$, below. The estimates of standard error of quarter-to-quarter change apply only to estimutes of change between two consecutive quarters. Changes betreen corresponding quarters of consecutive gears, or between two other non-consccutive quarters, will generelly be subject to somewhat greater aampling rariability than is indicated in the table belou. Furthermore, changes between Pebruary, May and August 1972 will have greater ctandard orrors than indicated in Table $B$, because of the introduction of the nev sample. An example of the use of Table $B$ if as follous: if the cstimates for two successive quarters vere 100,000 and 110,000 , then from Tablo A it can be seen that the standard errors of these two estimates would be of the order of 3,000 , and rrom Table $B$ that the $s$ tandard error of the quarter-tomuarter change would be 3,600 . That io, there are about two chances in three that the true quarter-to-quarter change lies between 6,400 and 13,600 and about nineteen chances in twonty that it lies between 2,800 and 17,200.

TABLE B

## STANDARD ERRRORS OP QUARTERLY ESTIRATES

| Size of <br> estimate <br> (persons) | Approzimate standard <br> error of estimstes |  |
| :---: | :---: | :---: |
|  | Persons | Per cent |
| of estimate |  |  |$|$| 4,000 | 750 | 19 |
| :---: | :---: | :---: |
| 5,000 | 850 | 11 |
| 10,000 | 1,100 | 7 |
| 20,000 | 1,400 | 4 |
| 50,000 | 2,000 | 3 |
| 100,000 | 3,000 | 2 |
| 200,000 | 4,000 | 1 |
| 500,000 | 5,000 | 0.6 |
| $1,000,000$ | 5,500 | 0.5 |
| $2,000,000$ | 8,000 |  |


| hidard ERRORS OF ESTIMATES $\frac{\text { QUARTER-TC-CUURTER CLINCE }}{(\text { Persons })}$ |  |
| :---: | :---: |
| Standard error of quarterly level | Standard error of quarter-to-quarter change |
| 1,000 | 1,300 |
| 2,000 | 2,500 |
| 3,000 | 3,600 |
| 4,000 | 4,300 |
| 5,000 | 4,700 |
| 6,000 | 5,000 |
| 7,000 | 5,200 |
| 8,000 | 5,300 |

9. The standard errors of estimates relating to agricultural employment are generally somerihat higher than the standard errors of other estimates of the same magnitude. Estimates for females also tend to have hicher otandard errors than estimates of equivalent size for males in similar employment categories.
10. The reliability of an estimated percentage, computed by using sample data for both numerator and denominator, depends upon both the size of the numerator and the size of the denominator. However, the percent standard erior of the estimated percentage will generally be lower than the per cent standard error of the estimate of the numerator. The per cent standard errors of the numerators can be obtained from Table A.
11. As the standard errors in table A show, the smaller the estimate the higher is the relative standard error. Very small estimates would thus be subject to such high standard errors (relative to the size cf the estimate) as to detract seriously from their value for most reasonable uses. In the tables in this bulletin, estimates less than 4,000 have not been shown. Althoufh rigures for these small components can in some cases be derived by subtraction, they should not be regarded as reliable.
12. The imprecision due to sampling variability, which is measured by the standard error, should not be confused with inaccuracies that may occur because of imperfections in reporting by interviewers and respondents. Inaccuracies of this kind are referred to as the non-sampling error, and they may occur in any enumeration, whether it be a full count or only a sample. Every effort is made to reduce the non-sampling error to a minimum by careful design of questionnaires, intensive training and supervision of interviewers and efficient operating procedures.

## CANBERRA, A.C.T. 2600

NOTE. Inquiries concerning theso statistics may be made in Canberra by telephoning 639111 extension 2347 or, in each State capital, by telephoning the office of the Burcau of Census and Statistics.

