
THE LABOUR FORCE

NOVEMBER 1977

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AUSTRALIAN BUREAU OF STATISTICS Canberra

THE LABOUR FORCE, NOVEMBER 1977

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CONTENTS

<i>Table</i>		<i>Page</i>
..	Explanatory notes	2
..	Graphs	5
Civilian population 15 years of age and over		
1.	Employment status : Australia	6
2.	Employment status : States and Territories	7
3.	Employment status : Six State Capital Cities	8
Civilian labour force		
4.	Employment status, birthplace and period of arrival in Australia	9
5.	Seasonally adjusted series	10
6.	Age	11
7.	Participation rates by age and birthplace	11
Employed persons		
8.	Hours worked	11
9.	Average weekly hours worked	12
10.	Full-time workers who worked less than 35 hours by reason for absence	12
11.	Part-time workers by age and reason for working part time	13
12.	Married women, by industry and hours worked	13
Unemployed persons		
13.	Age : Australia	14
14.	Age : States	14
15.	Age and birthplace	15
16.	Unemployment rates, State capital cities and other areas	15
17.	Unemployment rates, industry and occupation	15
18.	Duration of unemployment, by age, etc.	16
19.	Looking for full-time work and looking for part-time work	17
20.	Industry, occupation and duration of unemployment	17
Persons not in the labour force		
21.	Major activity	18
Technical note		
	Estimation procedure	19
	Reliability of the estimates	19
	Population survey reports	21

EXPLANATORY NOTES

Introduction

This bulletin contains estimates of the civilian labour force derived from the results of the population survey, which is carried out on a sample basis throughout Australia in February, May, August and November each year.

2. A summary of results is published each quarter, in advance of this more detailed bulletin, in *The Labour Force (Preliminary)* (6202.0). The November 1977 statement was issued on 4 January. Preliminary estimates of unemployment are also published in advance of this bulletin in *Unemployment: Preliminary Estimates* (6201.0). The November 1977 estimates were published on 22 December.

3. Although emphasis in the survey is placed on the regular collection, each quarter, of data on the demographic and labour force characteristics of the population, supplementary surveys of particular aspects of the labour force or of other subjects are carried out from time to time. Statistics from supplementary surveys are published in bulletins which are available free on request. (See page 21 for a list of titles.)

The population survey

4. The survey is based on a multi-stage area sample of private dwellings (houses, flats, etc.) and non-private dwellings (hotels, motels, etc.), the information being obtained in February, May, August and November from the occupants of selected dwellings by carefully chosen and specially trained interviewers. Interviews are carried out during a period of four weeks, so that in each of the months to which the survey relates there are four survey weeks, chosen so as to fall within the limits of the calendar month or with minimum encroachment into the adjacent months.

5. A new sample based on the 1976 Census will be used in February 1978, when the surveys will become monthly; at the same time a revised questionnaire will be introduced. In order that any effects of these changes can be assessed, an additional survey was undertaken in November 1977, using the new sample and questionnaire, at the same time as the normal survey was undertaken. Data from the additional survey will be processed shortly and results analysed to assess the effects of the innovations. The population survey normally covers about two-thirds of one per cent of the population of Australia. Because of the difficulties of running two surveys concurrently, the sample size of both November surveys was reduced to one-half of one per cent of the population. This reduction in sample size has slightly increased the sampling variability of the estimates, on average by about 15 per cent. See the Technical Note, page 19 for further details.

Scope

6. The estimates relate to all persons aged fifteen years and over except members of the permanent armed forces and certain diplomatic personnel customarily excluded from census and estimated populations.

Classification of the labour force

7. The labour force classification used in the surveys conforms closely to that recommended by the Eighth International Conference of Labour Statisticians, 1954. The labour force category to which a person is assigned depends on his *actual activity* (i.e. whether working, looking for work, etc.) during a specified week, known as *survey week*, which is the week immediately preceding that in which the interview takes place. The principal categories of the labour force appearing in the tables in this bulletin are defined in the following paragraphs.

8. The labour force comprises all persons who, during the survey week, were employed or unemployed as defined in paragraphs 9 and 10.

9. Employed persons comprise all those who, during the survey week,

- (a) did any work for pay, profit, commission or payment in kind, in a job or business, or on a farm (including employees, employers and self-employed persons), or
- (b) worked fifteen hours or more without pay in a family business (or farm), or
- (c) had a job, business or farm, but were not at work because of illness, accident, leave, holiday, production hold-up due to bad weather, plant breakdown, 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 work during the week, however, before he either lost his job or was laid off, is classified as employed. A person who held more than one job is counted only once, in the job at which he worked most hours during the survey week.

10. For purposes of the survey, unemployed persons are defined as all civilians aged 15 years and over who either :

- (a) during the survey week did not work and did not have a job, but could have taken one had it been available, and had been actively looking for full-time or part-time work in the four weeks up to and including the survey week (including persons who would have been prevented from taking a job in the survey week by their own

temporary illness or injury, or by their having made arrangements to start after the survey week in a new job in which they would have preferred to start in the survey week) or

- (b) were waiting to be called back to a job from which they had been temporarily stood down without pay for four weeks or less (including the whole of the survey week).

11. **Full-time workers** are those who usually work 35 hours a week or more and others who, although usually part-time workers worked 35 hours or more during the survey week. **Part-time workers** are those who usually work less than 35 hours a week and who did so during the survey week. When recording hours of work, fractions of an hour are disregarded.

12. **Persons not in the labour force** are those who, during the survey week, were not in the categories 'employed' or 'unemployed' as defined (see paragraphs 9 and 10 above). This category therefore includes persons without a job, business or farm who were not actively looking for work, and who, during the survey week, were either keeping house (unpaid), attending an educational institution (e.g. school or university), retired or voluntarily inactive, permanently unable to work or inmates of institutions. A person who worked less than fifteen hours without pay in a family business during the survey week is also classified as not in the labour force.

Industry classification

13. As from the November 1972 issue of this bulletin industry has been classified according to the *Australian Standard Industrial Classification* (ASIC). Industry estimates appearing in earlier bulletins were based on the Classification of Industries used at the 1961 and 1966 population censuses and are therefore not directly comparable with those appearing in the November 1972 and later bulletins.

14. During the changeover to the use of ASIC, industry was classified according to both ASIC and the 1966 Population Census Classification for five consecutive surveys (August 1971 to August 1972). An indication of the relationship between the two classifications was given by Tables 8 and 9 in the combined November 1972 and February 1973 issue of this bulletin.

Occupation classification

15. Occupation has been classified according to the *Classification and Classified List of Occupations, Revised June 1971*.

Reliability of the estimates

16. Since the estimates in this bulletin are based on information obtained from the occupants of a sample of dwellings, they may differ from the figures that would have been produced if the information had been obtained from occupants of all dwellings. An indication of the likely differences is given in the Technical Note, page 19.

17. Because of the reduction in the size of the sample in November 1977, the sampling variability of the estimates is larger than usual. Further details can be found in the Technical Note, page 19.

Revision of estimates

18. The survey estimates are calculated in such a way as to conform to the independently estimated distribution of the population by age and sex. As a consequence, when the population estimates are revised it becomes necessary to revise the labour force estimates also.

19. Prior to the May 1975 issue of this bulletin, published estimates were based on population estimates derived from 1966 census results. They are now based on 1971 census population estimates. Revised estimates of the population aged 15 years and over classified by employment status from February 1964 to May 1975 were shown in Table 1 of the May 1975 issue.

20. All labour force estimates for the period from February 1973 have been calculated on the revised basis and are available on request. For the period August 1966 to November 1972 only the principal labour force categories were revised. Revisions to rates (e.g. labour force participation rates, unemployment rates), percentage distributions (e.g. by industry) and averages (e.g. average duration of unemployment, average hours worked) have been negligible.

21. Preliminary estimates of population, based on the 1976 population census, were released on 7 April 1977 in *Population and Vital Statistics (Preliminary) : December 1976* (3211.0). As explained in that publication, two major changes in the population statistics have been made :

- The definition of *net migration gain* has been changed. It now excludes the effect of short-term movements, that is, movements for periods of less than one year.
- Population Census results for 1971 and 1976 have been adjusted for estimated under-enumeration. (See *Census of Population and Housing, 30 June 1976 : Population of States and Territories adjusted for under-enumeration as shown by post-enumeration survey* (2409.0).

More information about these changes can be obtained by reference to the publication. These changes have not yet been incorporated into the population estimates used for the labour force survey. When more detailed population estimates on the new basis become available labour force survey estimates will be revised.

Differences between population census and population survey estimates

22. The results of the 1971 population census, which have been published in a series of bulletins entitled *Summary of Population* (2221.0–2229.0), show that the census labour force estimates differ substantially from the corresponding estimates derived from the population surveys of May and August 1971.

23. The definition of the labour force used in the population census is similar to that used in the survey (see paragraphs 8 to 10). However, evidence from census post-enumeration surveys indicates that the personal interview approach, as used in the quarterly survey, tends to identify a larger number of persons as being in the labour force than does the filling in of the questions on the census schedule by the householder, and that this tendency increased between the 1966 and 1971 censuses.

24. These considerations should be borne in mind if comparisons of the total labour force or of labour force participation rates are made between the 1971 census and the 1971 labour force survey estimates.

Estimates for earlier periods

25. Except for Tables 1, 5, 16 and 21, the tables in this bulletin give details only for November 1977. A wider range of detailed estimates for each quarter from February 1964 to November 1976 has been published in bulletins entitled *The Labour Force* (6204.0) covering the period 1964 to 1968 and single years thereafter (except for 1973 and 1974 which were included in the one issue). The estimates appearing in these bulletins for 1973 onwards, unlike the earlier estimates, are based on population benchmarks derived from the 1971 census.

Discontinuity of series

26. The survey periods for February in the years 1971, 1972 and 1974 were later than in other years. For details of the effect on survey estimates see the explanatory notes of the November 1975 and earlier issues of this bulletin. The survey period for February 1976 was deferred by one week. As a result, the number of persons who had returned to schools, universities, etc. by the time of the survey was greater than if the survey had been held at the normal time. The estimates are also affected by other seasonal influences. The exact effect is not known, but it is estimated that the figures for unemployed persons and persons in the labour force were reduced by between 5,000 and 10,000 (both original and seasonally adjusted), and the number of persons not in the labour force was correspondingly increased. The number of employed persons is unlikely to have been affected significantly.

27. At the 1971 population census, trainee teachers (enrolled at government teachers colleges and in some cases enrolled also at other institutions) were 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 from the labour force in August 1971 being approximately 7,000 and 17,000 respectively.

28. Because of the effects of cyclone Tracy the population survey was not conducted in Darwin in February 1975. The estimates for that period therefore exclude Darwin. It is estimated that at the time of the survey about 12,000 males and 5,000 females aged 15 years and over were living in Darwin.

Seasonally adjusted unemployed series

29. As explained in the last few issues of this and other labour force publications, the higher level of unemployment since 1974 appears to have been accompanied by shifts in the pattern of seasonal variation. In an attempt to cope with the new situation, changes in the method of seasonal adjustment were made from August 1976 onwards, but it was pointed out that it would be claiming too much to suggest that the problems had been wholly overcome.

30. It is now evident from an examination of the figures for recent quarters that they are not following a regular pattern of seasonal variation and that the effects of seasonal influences are insufficiently stable to be handled by the revised method. Seasonal adjustment in these circumstances is no longer an aid to interpretation of the figures.

31. Moreover, with the introduction of monthly labour force surveys as from February 1978, household interviews will be conducted over a period of two weeks instead of the four weeks used when the survey was conducted at quarterly intervals. This change of timing may influence the level of unemployment figures shown for any month, particularly for months such as February during which unemployment may be changing rapidly. For some time it may be difficult to judge whether seasonal adjustment factors derived from past surveys are applicable to the results of surveys for the months of February, May, August and November.

32. In these circumstances publication of seasonally adjusted figures of numbers of persons unemployed has been suspended; the matter will be kept under review.

Related Publications

33. Users may wish to refer to the Labour Force publications mentioned in paragraph 2, page 2 and in paragraph 25 above. Another publication which may be of interest is the monthly bulletin *Employment and Unemployment* (6213.0) which gives estimates of the number of employed wage and salary earners, derived from payroll tax returns and Government collections. A list of the publications produced by the ABS is contained in *Catalogue of Publications* (1101.0) and is available free of charge from any office of the Australian Bureau of Statistics.

Symbols and other usages

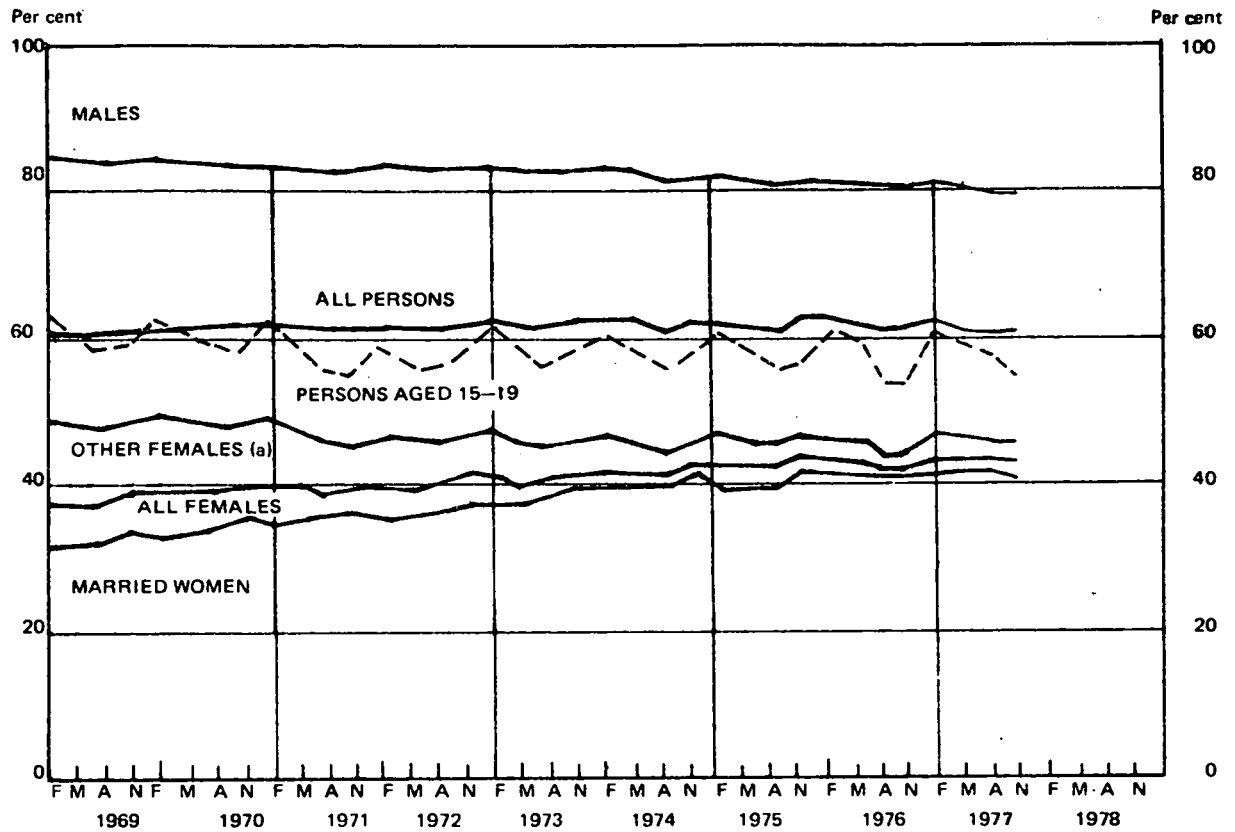
- * Subject to sampling variability too high for most practical uses. See page 19, paragraph 7.
- † Affected by industrial dispute.
- .. Not applicable.

Any discrepancies between totals and sums of components in tables are due to rounding.

R. J. CAMERON
Australian Statistician

LABOUR FORCE PARTICIPATION RATES

(THE LABOUR FORCE IN EACH GROUP AS A PERCENTAGE OF THE CIVILIAN POPULATION AGED 15 YEARS AND OVER IN THE SAME GROUP)



UNEMPLOYMENT RATES

(THE UNEMPLOYED IN EACH GROUP AS A PERCENTAGE OF THE CIVILIAN LABOUR FORCE IN THE SAME GROUP)

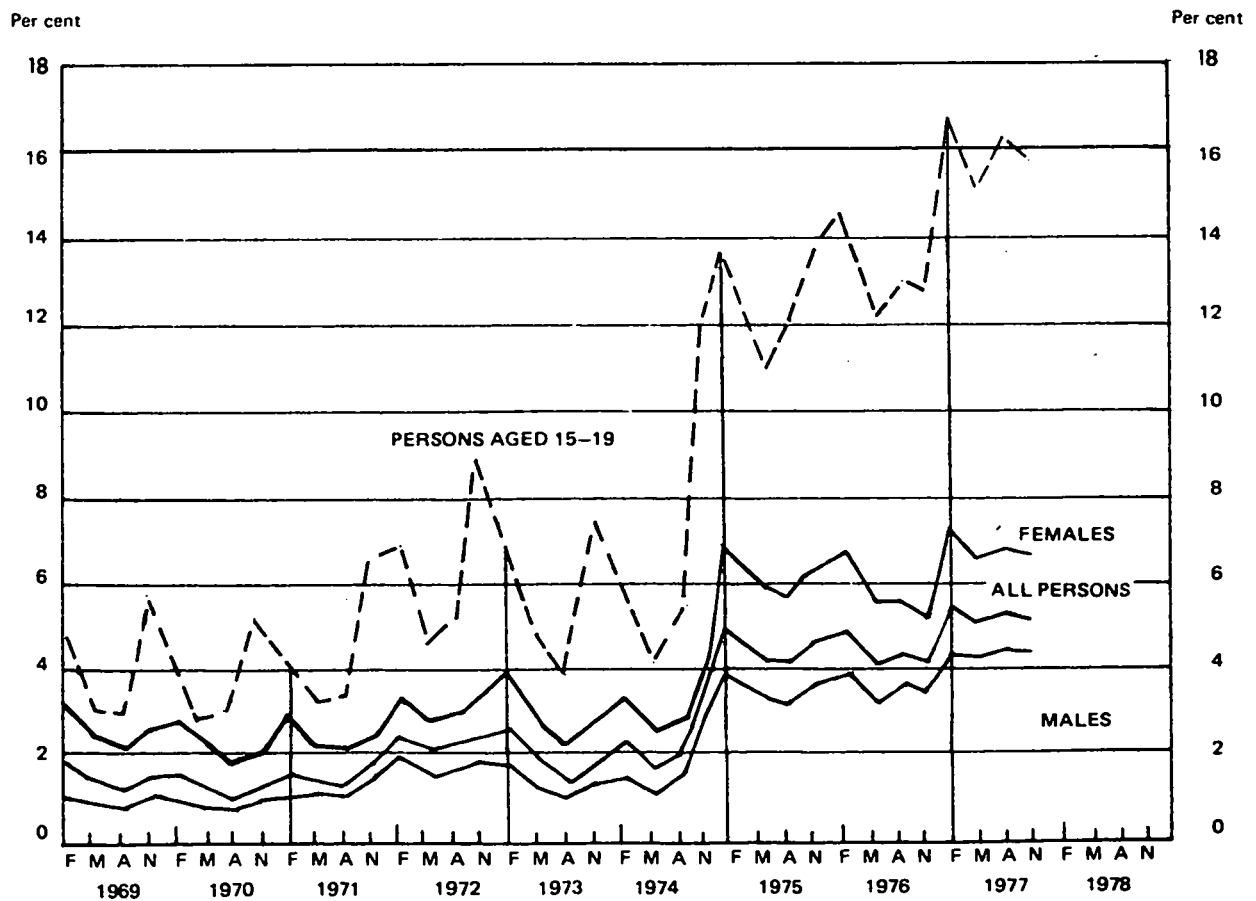


TABLE 1. CIVILIAN POPULATION 15 YEARS OF AGE AND OVER (a), BY EMPLOYMENT STATUS

Month	Employed (b)		Total ('000)	Unemployed (b)		Total labour force (b)		Not in labour force (b) ('000)	Civilian population aged 15 and over (a) ('000)
	Agriculture ('000)	Other industries ('000)		Number ('000)	Per cent of labour force (c)	Number ('000)	Per cent of population (d)		
MALES									
1976 -									
August †	282.4	3,485.0	3,767.4	146.2	3.7	3,913.6	80.0	978.6	4,892.2
November	284.4	3,526.0	3,810.4	144.2	3.6	3,954.6	80.2	974.1	4,928.7
1977 -									
February	288.6	3,552.0	3,840.6	173.6	4.3	4,014.2	81.0	944.2	4,958.4
May	285.1	3,539.4	3,824.5	170.1	4.3	3,994.6	80.6	963.8	4,958.4
August	281.4	3,525.4	3,806.9	175.6	4.4	3,982.5	79.8	1,006.6	4,989.1
November	292.7	3,507.7	3,800.3	170.9	4.3	3,971.2	79.2	1,040.1	5,011.4
MARRIED WOMEN									
1976 -									
August †	62.4	1,216.2	1,278.6	51.9	3.9	1,330.5	40.7	1,942.3	3,272.8
November	58.4	1,251.1	1,309.5	42.2	3.1	1,351.7	41.0	1,942.6	3,294.3
1977 -									
February	60.7	1,246.9	1,307.7	67.6	4.9	1,375.2	41.4	1,944.5	3,319.7
May	61.7	1,266.1	1,327.7	61.6	4.4	1,389.3	41.9	1,925.8	3,315.1
August	65.0	1,258.1	1,323.1	63.6	4.6	1,386.8	41.8	1,932.0	3,318.7
November	70.2	1,248.6	1,318.8	54.4	4.0	1,373.2	41.5	1,937.0	3,310.2
OTHER FEMALES (e)									
1976 -									
August †	9.8	691.8	701.7	66.1	8.6	767.8	44.6	955.6	1,723.4
November	8.6	701.0	709.7	68.2	8.8	777.8	44.5	969.6	1,747.4
1977 -									
February	12.3	712.7	725.0	93.6	11.4	818.6	46.6	936.3	1,754.9
May	11.5	720.1	731.6	82.4	10.1	814.1	46.1	952.1	1,766.2
August	13.3	724.5	737.7	83.1	10.1	820.9	45.6	979.1	1,799.9
November	12.5	733.3	745.8	89.0	10.7	834.7	45.6	996.8	1,831.5
ALL FEMALES									
1976 -									
August †	72.2	1,908.0	1,980.2	118.0	5.6	2,098.2	42.0	2,897.9	4,996.1
November	67.1	1,952.1	2,019.2	110.4	5.2	2,129.6	42.2	2,912.2	5,041.7
1977 -									
February	73.0	1,959.6	2,032.7	161.1	7.3	2,193.8	43.2	2,880.8	5,074.6
May	73.2	1,986.2	2,059.3	144.0	6.5	2,203.4	43.4	2,877.9	5,081.3
August	78.3	1,982.6	2,060.9	146.8	6.6	2,207.6	43.1	2,911.0	5,118.7
November	82.6	1,981.9	2,064.5	143.4	6.5	2,208.0	42.9	2,933.8	5,141.8
PERSONS									
1976 -									
August †	354.6	5,393.0	5,747.6	264.1	4.4	6,011.8	60.8	3,876.5	9,888.3
November	351.5	5,478.1	5,829.6	254.6	4.2	6,084.2	61.0	3,886.2	9,970.4
1977 -									
February	361.6	5,511.6	5,873.2	334.8	5.4	6,208.0	61.9	3,825.0	10,033.0
May	358.3	5,525.6	5,883.8	314.2	5.1	6,198.0	61.7	3,841.7	10,039.7
August	359.7	5,508.1	5,867.8	322.4	5.2	6,190.2	61.2	3,917.6	10,107.8
November	375.3	5,489.6	5,864.9	314.3	5.1	6,179.2	60.9	3,973.9	10,153.1

(a) For a note on persons excluded see page 2, paragraph 6. (b) For definitions see pages 2 and 3, paragraphs 7 to 12. (c) The number of unemployed in each group as a percentage of the labour force in the same group. (d) The labour force in each group as a percentage of the civilian population aged 15 years and over in the same group (labour force participation rate). (e) Never married, widowed and divorced.

TABLE 2. CIVILIAN POPULATION 15 YEARS OF AGE AND OVER (a), BY EMPLOYMENT STATUS, STATES AND TERRITORIES, NOVEMBER 1977

State or Territory	Employed (b)			Unemployed (b)		Total labour force (b)		Not in labour force (b) ('000)	Civilian population aged 15 and over (a) ('000)
	Agriculture ('000)	Other industries ('000)	Total ('000)	Number ('000)	Per cent of labour force (c)	Number ('000)	Per cent of population (d)		
MALES									
New South Wales	84.3	1,264.2	1,348.5	58.9	4.2	1,407.4	78.7	379.8	1,787.2
Victoria	65.9	964.1	1,030.0	44.0	4.1	1,074.0	80.0	268.6	1,342.5
Queensland	66.3	481.3	547.6	26.7	4.6	574.3	77.8	164.0	738.3
South Australia	31.2	319.1	350.3	17.4	4.7	367.7	79.8	93.2	460.9
Western Australia	35.1	292.4	327.5	13.8	4.0	341.3	79.6	87.5	428.8
Tasmania	8.7	101.0	109.6	4.7	4.1	114.3	77.4	33.5	147.8
Northern Territory	*	27.0	28.0	1.6	5.4	29.6	84.0	5.6	35.2
Australian Capital Territory	*	58.7	58.9	3.8	6.1	62.7	88.6	8.0	70.7
<i>Australia</i>	<i>292.7</i>	<i>3,507.7</i>	<i>3,800.3</i>	<i>170.9</i>	<i>4.3</i>	<i>3,971.2</i>	<i>79.2</i>	<i>1,040.1</i>	<i>5,011.4</i>
FEMALES									
New South Wales	21.5	715.0	736.5	52.0	6.6	788.5	42.7	1,059.0	1,847.5
Victoria	19.9	552.3	572.1	38.9	6.4	611.0	43.9	779.5	1,390.5
Queensland	19.2	256.3	275.5	19.5	6.6	295.1	39.3	456.1	751.1
South Australia	9.9	186.5	196.5	12.2	5.9	208.7	43.9	267.1	475.7
Western Australia	9.9	167.4	177.2	13.0	6.8	190.2	45.1	232.0	422.3
Tasmania	2.2	54.3	56.6	4.8	7.8	61.4	40.7	89.3	150.6
Northern Territory	*	14.5	14.5	*	*	15.6	50.9	15.0	30.6
Australian Capital Territory	*	35.7	35.7	1.9	4.9	37.5	51.2	35.8	73.4
<i>Australia</i>	<i>82.6</i>	<i>1,981.9</i>	<i>2,064.5</i>	<i>143.4</i>	<i>6.5</i>	<i>2,208.0</i>	<i>42.9</i>	<i>2,933.8</i>	<i>5,141.8</i>
PERSONS									
New South Wales	105.8	1,979.2	2,085.0	110.9	5.1	2,195.9	60.4	1,438.8	3,634.8
Victoria	85.7	1,516.3	1,602.1	82.9	4.9	1,685.0	61.7	1,048.0	2,733.0
Queensland	85.5	737.6	823.1	46.2	5.3	869.3	58.4	620.1	1,489.4
South Australia	41.2	505.6	546.8	29.6	5.1	576.4	61.5	360.2	936.6
Western Australia	45.0	459.8	504.7	26.8	5.0	531.5	62.5	319.5	851.0
Tasmania	10.9	155.3	166.2	9.5	5.4	175.7	58.9	122.7	298.4
Northern Territory	*	41.5	42.4	2.7	6.0	45.1	68.6	20.7	65.8
Australian Capital Territory	*	94.4	94.6	5.7	5.6	100.2	69.6	43.9	144.1
<i>Australia</i>	<i>375.3</i>	<i>5,489.6</i>	<i>5,864.9</i>	<i>314.3</i>	<i>5.1</i>	<i>6,179.2</i>	<i>60.9</i>	<i>3,973.9</i>	<i>10,153.1</i>

(a)-(d) See footnotes to Table 1.

* Subject to sampling variability too high for most practical uses. For an explanation of the standard error of the estimates see page 19.

TABLE 3. CIVILIAN POPULATION 15 YEARS OF AGE AND OVER (a),
BY EMPLOYMENT STATUS, SIX STATE CAPITAL CITIES (e), NOVEMBER 1977

City	Employed (b) ('000)	Unemployed (b)		Total labour force (b)		Not in labour force (b) ('000)	Civilian population aged 15 and over (a) ('000)
		Number ('000)	Per cent of labour force (c)	Number ('000)	Per cent of popula- tion (d)		
MALES							
Sydney	836.2	37.2	4.3	873.5	79.9	220.1	1,093.6
Melbourne	755.4	32.5	4.1	787.9	80.6	189.2	977.1
Brisbane	254.1	15.4	5.7	269.4	76.8	81.4	350.8
Adelaide	254.3	14.1	5.3	268.4	80.4	65.4	333.9
Perth	219.3	10.5	4.6	229.9	77.4	67.2	297.1
Hobart	42.5	2.0	4.5	44.5	74.0	15.6	60.1
Total	2,361.8	111.8	4.5	2,473.6	79.5	639.0	3,112.6
FEMALES							
Sydney	506.2	31.1	5.8	537.3	46.2	626.0	1,163.3
Melbourne	444.8	28.1	5.9	472.9	46.0	555.7	1,028.6
Brisbane	140.5	8.5	5.7	149.0	39.2	231.3	380.3
Adelaide	150.8	9.6	6.0	160.4	44.6	199.5	359.9
Perth	135.6	11.1	7.6	146.8	46.2	171.3	318.1
Hobart	26.7	1.9	6.5	28.6	45.0	34.9	63.4
Total	1,404.7	90.3	6.0	1,495.0	45.1	1,818.6	3,313.6
PERSONS							
Sydney	1,342.4	68.4	4.8	1,410.8	62.5	846.1	2,256.9
Melbourne	1,200.2	60.6	4.8	1,260.8	62.9	745.0	2,005.7
Brisbane	394.6	23.8	5.7	418.4	57.2	312.7	731.1
Adelaide	405.1	23.7	5.5	428.9	61.8	264.9	693.8
Perth	355.0	21.7	5.8	376.6	61.2	238.5	615.2
Hobart	69.2	3.9	5.3	73.1	59.1	50.5	123.6
Total	3,766.5	202.1	5.1	3,968.6	61.8	2,457.6	6,426.2

(a)-(d) See footnotes to Table 1. (e) The figures relate to persons residing within the boundaries of the relevant Statistical Divisions. Explanatory notes on the delimitation of urban boundaries and maps showing the boundaries of the capital city Statistical Divisions were published in *Census of Population and Housing, 30 June 1971 - Census Bulletin No. 6*.

TABLE 4. CIVILIAN LABOUR FORCE (a), BY EMPLOYMENT STATUS, BIRTHPLACE AND PERIOD OF ARRIVAL IN AUSTRALIA
NOVEMBER 1977

Birthplace and period of arrival	Employed (b) ('000)	Unemployed (b)		Total labour force (b)	
		Number (^{'000})	Per cent of labour force (c)	Number (^{'000})	Per cent of population (d)
MALES					
Born in Australia	2,797.7	122.4	4.2	2,920.0	79.1
Born outside Australia –					
Italy	134.7	11.9	4.6	138.6	88.1
Greece	57.7				
Yugoslavia	55.4				
U.K. and Ireland	366.4				
Other	388.5				
Arrived before 1955	278.9	8.7	3.0	287.6	71.2
1955 to 1961	213.6	6.4	2.9	220.0	90.2
1962 to 1968	247.7	15.5	5.9	263.2	88.5
1969 to 1975	225.2	12.9	5.4	238.1	88.5
Jan. 1976 to Nov. 1977	37.3	5.0	11.9	42.4	78.4
<i>Total born outside Australia</i>	<i>1,002.7</i>	<i>48.5</i>	<i>4.6</i>	<i>1,051.2</i>	<i>82.9</i>
MARRIED WOMEN					
Born in Australia	930.1	33.6	3.5	963.7	39.4
Born outside Australia –					
Italy	45.1	6.6	5.9	48.7	45.8
Greece	31.5				
Yugoslavia	28.7				
U.K. and Ireland	147.8				
Other	135.6				
Arrived before 1955	74.5	*	*	77.0	32.8
1955 to 1961	89.4	5.1	5.4	94.4	50.0
1962 to 1968	101.5	5.0	4.7	106.4	51.5
1969 to 1975	108.5	6.8	5.9	115.3	59.2
Jan. 1976 to Nov. 1977	14.9	*	*	16.4	51.0
<i>Total born outside Australia</i>	<i>388.7</i>	<i>20.8</i>	<i>5.1</i>	<i>409.6</i>	<i>47.8</i>
ALL FEMALES					
Born in Australia	1,544.3	108.2	6.5	1,652.5	42.5
Born outside Australia –					
Italy	54.3	7.3	5.8	58.0	45.3
Greece	34.1				
Yugoslavia	31.9				
U.K. and Ireland	205.2				
Other	194.8				
Arrived before 1955	97.0	*	*	100.2	29.1
1955 to 1961	116.3	7.1	5.7	123.3	51.8
1962 to 1968	139.7	9.2	6.2	148.9	52.9
1969 to 1975	143.4	11.4	7.4	154.8	58.4
Jan. 1976 to Nov. 1977	23.9	4.4	15.7	28.3	51.8
<i>Total born outside Australia</i>	<i>520.3</i>	<i>35.2</i>	<i>6.3</i>	<i>555.5</i>	<i>46.9</i>
PERSONS					
Born in Australia	4,342.0	230.6	5.0	4,572.5	60.4
Born outside Australia –					
Italy	189.0	7.7	3.9	196.7	68.9
Greece	91.8	7.3	7.3	99.1	69.6
Yugoslavia	87.3	4.2	4.6	91.5	75.3
U.K. and Ireland	571.6	28.8	4.8	600.4	61.4
Other	583.3	35.8	5.8	619.0	66.9
Arrived before 1955	375.9	11.8	3.0	387.7	51.8
1955 to 1961	329.9	13.4	3.9	343.3	71.2
1962 to 1968	387.4	24.7	6.0	412.1	71.2
1969 to 1975	368.6	24.3	6.2	392.9	73.6
Jan. 1976 to Nov. 1977	61.2	9.5	13.4	70.7	65.0
<i>Total born outside Australia</i>	<i>1,522.9</i>	<i>83.8</i>	<i>5.2</i>	<i>1,606.7</i>	<i>65.5</i>

(a) Aged 15 years and over. (b) For definitions see page 2, paragraphs 7 to 12. (c) The unemployed in each group as a percentage of the civilian labour force in the same group. (d) The labour force in each group as a percentage of the civilian non-institutionalised population aged 15 years and over in the same group. Persons in institutions for whom, 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 period of arrival in Australia for such persons.

* Less than or based on a figure less than 4,000. See page 19, paragraph 7.

TABLE 5. SEASONALLY ADJUSTED SERIES (a)

<i>Employed Persons (b) ('000)</i>								
<i>Month</i>	<i>Males</i>		<i>Married women</i>		<i>All females</i>		<i>Total</i>	
	<i>Original</i>	<i>Seasonally adjusted</i>	<i>Original</i>	<i>Seasonally adjusted</i>	<i>Original</i>	<i>Seasonally adjusted</i>	<i>Original</i>	<i>Seasonally adjusted</i>
1976 -								
August †	3,767.4	3,787.2	1,278.6	1,288.4	1,980.2	2,000.8	5,747.6	5,794.4
November	3,810.4	3,814.9	1,309.5	1,286.3	2,019.2	1,996.6	5,829.6	5,804.8
1977 -								
February	3,840.6	3,826.6	1,307.7	1,315.8	2,032.7	2,031.3	5,873.2	5,860.6
May	3,824.5	3,813.9	1,327.7	1,332.9	2,059.3	2,062.3	5,883.8	5,873.5
August	3,806.9	3,827.1	1,323.1	1,333.8	2,060.9	2,083.2	5,867.8	5,917.0
November	3,800.3	3,804.7	1,318.8	1,295.3	2,064.5	2,041.1	5,864.9	5,839.1

<i>Persons in the labour force (b) ('000)</i>								
<i>Month</i>	<i>Males</i>		<i>Married women</i>		<i>All females</i>		<i>Total</i>	
	<i>Original</i>	<i>Seasonally adjusted</i>	<i>Original</i>	<i>Seasonally adjusted</i>	<i>Original</i>	<i>Seasonally adjusted</i>	<i>Original</i>	<i>Seasonally adjusted</i>
1976 -								
August †	3,913.6	3,942.9	1,330.5	1,348.5	2,098.2	2,134.1	6,011.8	6,072.2
November	3,954.6	3,965.4	1,351.7	1,326.6	2,129.6	2,103.8	6,084.2	6,079.6
1977 -								
February	4,014.2	3,980.0	1,375.2	1,374.8	2,193.8	2,173.5	6,208.0	6,150.1
May	3,994.6	3,988.0	1,389.3	1,397.2	2,203.4	2,213.5	6,198.0	6,198.3
August	3,982.5	4,012.9	1,386.8	1,406.2	2,207.6	2,246.4	6,190.2	6,253.9
November	3,971.2	3,981.8	1,373.2	1,347.4	2,208.0	2,180.7	6,179.2	6,174.2

<i>Participation rate (per cent)</i>				
<i>Month</i>	<i>Males</i>		<i>Females</i>	
	<i>Original (c)</i>	<i>Seasonally adjusted</i>	<i>Original (c)</i>	<i>Seasonally adjusted</i>
1976 -				
August †	80.0	80.5	42.0	42.6
November	80.2	80.4	42.2	41.8
1977 -				
February	81.0	80.4	43.2	42.9
May	80.6	80.4	43.4	43.5
August	79.8	80.4	43.1	43.8
November	79.2	79.4	42.9	42.5

(a) The methods used in seasonally adjusting this series are explained in *Seasonally Adjusted Indicators, 1977* (1308.0). See also page 4, paragraphs 29 to 32. (b) Civilians aged 15 years and over. For definitions see page 2, paragraphs 8 to 10. (c) The labour force in each group as a percentage of the civilian population aged 15 years and over in the same group.

TABLE 6. CIVILIAN LABOUR FORCE (a), BY AGE, NOVEMBER 1977

Age group (years)	Number ('000)				Per cent of population (b)			
	Males	Married women	All females	Persons	Males	Married women	All females	Persons
15-19	367.2	19.8	335.8	703.0	57.0	51.1	53.5	55.2
20-24	531.1	179.3	399.6	930.7	89.5	57.2	68.8	79.3
25-34	1,052.5	411.7	535.5	1,588.0	96.6	45.0	49.9	73.4
35-44	781.7	372.3	422.0	1,203.7	97.0	53.4	54.5	76.1
45-54	722.8	290.9	350.0	1,072.7	93.6	45.3	46.9	70.6
55-59	279.6	70.4	105.1	384.7	85.8	27.7	31.3	58.2
60-64	168.1	22.2	41.2	209.2	62.1	11.4	14.2	37.3
65 and over	68.4	6.6	18.9	87.2	13.4	2.6	2.6	7.1
Total	3,971.2	1,373.2	2,208.0	6,179.2	79.2	41.5	42.9	60.9

(a) Civilians aged 15 years and over. For definition see page 2, paragraphs 8 to 12. (b) The labour force in each group as a percentage of the civilian population in the same group (labour force participation rate).

TABLE 7. LABOUR FORCE PARTICIPATION RATES (a), BY AGE AND BIRTHPLACE, NOVEMBER 1977
(Per cent)

Age group (years)	Born in Australia			Born outside Australia		
	Males	Females	Persons	Males	Females	Persons
15-19	57.7	53.4	55.6	55.9	55.0	55.4
20-24	90.4	68.9	79.7	90.5	70.0	80.3
25-34	97.3	48.4	72.8	97.0	54.4	76.3
35-44	97.3	52.2	74.5	97.4	60.4	80.5
45-54	94.1	44.9	69.1	93.7	52.9	75.3
55-59	85.6	30.8	57.2	88.9	33.4	62.4
60-64	60.5	13.8	35.8	70.8	16.4	44.9
65 and over	14.5	2.8	7.7	12.8	3.0	7.5
Total	79.1	42.5	60.4	82.9	46.9	65.5

(a) The labour force in each group as a percentage of the civilian non-institutionalised population aged 15 years and over in the same group. Persons in institutions for whom, 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 for such persons.

TABLE 8. EMPLOYED PERSONS (a), BY HOURS WORKED (b), NOVEMBER 1977

	Males	Married women	Other females (c)	All females	Persons
'000 PERSONS					
Hours worked -					
0 (d)	190.0	70.2	29.9	100.1	290.1
1-15	97.7	242.8	80.8	323.6	421.2
16-29	122.8	226.8	48.1	275.0	397.7
30-34	165.1	112.9	43.8	156.6	321.7
35-39	434.0	175.8	157.1	332.9	766.9
40	1,597.1	371.4	301.2	672.6	2,269.7
41-44	173.9	23.2	28.4	51.6	225.5
45-48	280.4	28.3	25.5	53.8	334.2
49 and over	739.4	67.3	31.0	98.4	837.8
Total	3,800.3	1,318.8	745.8	2,064.5	5,864.9
Full-time workers (e)	3,619.6	764.7	606.6	1,371.2	4,990.8
Part-time workers (e)	180.8	554.1	139.2	693.3	874.1
MILLION HOURS					
Aggregate weekly hours worked (f)	154.8	38.5	25.1	63.6	218.4

(a) Civilians aged 15 years and over. For definition see page 2, paragraph 9. (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 breakdown, etc. (c) Never married, widowed and divorced. (d) Excludes persons laid off without pay for the whole of survey week; these persons are classified as unemployed. (e) For definitions see page 3, paragraph 11. (f) When recording hours worked, fractions of an hour are disregarded. This procedure results in a slight lowering of the figures.

TABLE 9. AVERAGE WEEKLY HOURS WORKED (a) BY EMPLOYED PERSONS (b), NOVEMBER 1977

	Males	Married women	Other females (c)	All females	Persons
Industry division or subdivision –					
Agriculture	57.3	30.7	40.4	32.2	51.8
Forestry, fishing and hunting	41.9	*	*	*	40.4
Mining	40.7	32.7	*	33.3	40.2
Manufacturing	39.4	33.4	35.3	33.9	38.0
Food, beverages and tobacco	39.0	33.6	36.2	34.4	37.9
Metal products, machinery and equipment	38.8	34.1	35.2	34.4	38.2
Other manufacturing	39.6	33.3	35.2	33.8	38.0
Construction	39.5	22.3	36.4	24.7	38.4
Wholesale and retail trade	40.7	29.3	31.6	30.1	36.3
Transport and storage	39.4	26.4	35.4	29.9	37.9
Finance, insurance, real estate and business services	39.9	27.2	35.1	31.0	35.8
Community services (d)(e)	39.2	28.6	34.4	30.7	33.9
Entertainment, recreation, restaurants, hotels and personal services	39.8	25.6	30.2	27.3	32.6
Other industries (f)	36.0	30.6	34.8	32.5	35.1
Occupation group –					
Professional and technical (e)	39.9	29.5	35.4	32.0	36.4
Administrative, executive and managerial	46.5	41.2	43.9	42.0	46.0
Clerical	35.9	27.3	34.6	30.3	32.1
Sales	39.4	30.8	29.7	30.4	34.7
Farmers, fishermen, timber-getters, etc.	54.3	32.0	41.0	33.4	50.5
Transport and communication	40.3	30.0	36.7	32.2	39.2
Tradesmen, production-process workers and labourers, n.e.c. (g)	38.7	34.3	34.5	34.3	38.2
Metal and electrical workers	39.1	36.1	37.0	36.3	38.9
Building workers	39.0	*	*	36.6	39.0
Other tradesmen, etc.	38.2	33.8	34.1	33.9	37.2
Service, sport and recreation	37.0	25.1	29.7	26.5	30.3
Wage and salary earners	38.5	28.9	33.3	30.6	35.6
Other (h)	51.0	30.5	41.6	31.9	46.0
Full-time workers (i)	42.0	38.7	38.1	38.4	41.0
Part-time workers (i)	15.2	16.1	14.3	15.7	15.6
Total employed	40.7	29.2	33.6	30.8	37.2

(a) Persons with jobs who did not work during survey week have been included in the calculation of average weekly hours worked. When recording hours worked, fractions of an hour are disregarded. This procedure results in a slight lowering of the average hours figures. (b) Civilians aged 15 years and over. For definition see page 2, paragraph 9. (c) Never married, widowed and divorced. (d) Comprises health; education, libraries, etc.; welfare and religious institutions; and other community services. (e) In May and August each year estimates are low as average hours worked by school teachers are affected by school holidays. (f) Comprises electricity, gas and water; communication; and public administration and defence. (g) Includes miners, quarrymen and related workers. (h) Employers, self-employed and unpaid family helpers. (i) For definitions see page 3, paragraph 11.

* Based on a figure less than 4,000. See page 19, paragraph 7.

TABLE 10. FULL-TIME WORKERS (a) WHO WORKED LESS THAN 35 HOURS BY REASON, NOVEMBER 1977 ('000)

Reason for working less than 35 hours	Males	Married women	Other females (b)	All females	Persons
Leave or holiday	252.7	67.8	46.3	114.1	366.9
Own illness or injury	108.0	25.5	14.7	40.2	148.3
Bad weather, breakdown, etc.	7.5	*	*	*	7.7
Began or lost job in survey week	8.4	*	*	*	11.4
On short time	10.1	*	*	*	12.4
Other reasons (c)	8.0	*	*	*	10.1
Total	394.8	98.6	63.4	161.9	556.7

(a) Civilians aged 15 years and over. For definition see page 3, paragraph 11. (b) Never married, widowed and divorced. (c) Comprises direct or indirect involvement in industrial disputes, including disputes not at place of employment.

* Less than 4,000. See page 19, paragraph 7.

TABLE 11. PART-TIME WORKERS (a), BY REASON FOR WORKING PART TIME AND AGE, NOVEMBER 1977 ('000)

Reason	Age group (years)						Total
	15 - 19	20 - 24	25 - 34	35 - 44	45 - 54	55 and over	
MALES							
Preferred part-time work	38.9	19.6	18.8	8.7	12.9	38.4	137.3
Lack of work	5.5	6.3	8.0	*	5.2	4.0	32.3
Other reasons	*	*	*	*	*	*	11.2
Total	46.9	28.1	28.4	13.6	18.7	45.0	180.8
MARRIED WOMEN							
Preferred part-time work	*	31.7	163.9	165.2	110.7	42.8	516.9
Lack of work	*	*	5.1	6.8	5.5	*	22.5
Other reasons	*	*	8.0	*	*	*	14.7
Total	*	35.8	177.1	175.8	117.3	44.9	554.1
ALL FEMALES							
Preferred part-time work	49.9	47.8	175.8	172.0	120.1	61.7	627.3
Lack of work	10.6	8.2	6.9	8.5	7.1	*	43.6
Other reasons	*	*	9.7	5.4	*	*	22.4
Total	62.6	58.2	192.3	186.0	129.2	65.1	693.3
PERSONS							
Preferred part-time work	88.8	67.3	194.6	180.7	133.0	100.1	764.6
Lack of work	16.1	14.6	14.9	11.9	12.3	6.2	76.0
Other reasons	4.5	4.4	11.3	7.0	*	*	33.5
Total	109.4	86.3	220.8	199.6	147.9	110.1	874.1

(a) Civilians aged 15 years and over. For definition see page 3, paragraph 11.

* Less than 4,000. See page 19, paragraph 7.

TABLE 12. EMPLOYED MARRIED WOMEN (a), BY INDUSTRY AND HOURS WORKED (b), NOVEMBER 1977 ('000)

Industry division or subdivision	Part-time workers (c)				Full-time workers (c)	Total
	Hours worked (b)			Total		
	Under 16	16-29	30-34			
Agriculture	20.1	14.1	*	36.6	33.5	70.2
Manufacturing	16.8	19.4	11.9	48.2	175.8	223.9
Construction	11.8	5.8	*	18.9	10.1	29.0
Wholesale and retail trade	66.9	57.7	16.6	141.2	152.5	293.7
Transport and storage	8.4	*	*	11.6	17.6	29.3
Finance, insurance, real estate and business services	25.6	14.0	8.0	47.7	65.6	113.3
Community services (d)	64.1	61.4	25.5	151.1	198.4	349.5
Entertainment, recreation, restaurants, hotels and personal services	50.0	24.1	5.3	79.3	53.8	133.2
Other industries (e)	8.1	8.2	*	19.6	57.2	76.8
Total	271.9	206.2	76.0	554.1	764.7	1,318.8

(a) Civilians aged 15 years and over. For definition see page 2, paragraph 9. (b) See note (b) to Table 8. (c) For definitions see page 3, paragraph 11. (d) Comprises health; education, libraries, etc.; welfare and religious institutions; and other community services. (e) Comprises forestry, fishing and hunting; mining; electricity, gas and water; communication; and public administration and defence.

* Less than 4,000. See page 19, paragraph 7.

TABLE 13. UNEMPLOYED PERSONS (a), BY AGE, NOVEMBER 1977

Age group (years)	Number unemployed ('000)					Per cent of labour force (b)				
	Married males	All males	Married women	All females	Persons	Married males	All males	Married women	All females	Persons
15-19 -										
Looking for first job	*	19.9	*	19.1	39.0	..	..	..	..	..
Other	*	34.8	*	37.5	72.3	..	..	..	..	..
Total 15-19	*	54.7	*	56.6	111.3	*	14.9	*	16.8	15.8
20 and over -										
20-24	6.6	41.2	9.7	28.8	69.9	4.0	7.7	5.4	7.2	7.5
25-34	17.2	28.6	18.9	27.6	56.2	2.1	2.7	4.6	5.2	3.5
35-44	14.3	18.7	13.9	15.8	34.5	2.0	2.4	3.7	3.7	2.9
45-54	12.1	17.1	8.1	11.2	28.3	1.9	2.4	2.8	3.2	2.6
55 and over	6.9	10.6	*	*	14.1	1.6	2.1	*	*	2.1
Total 20 and over	57.0	116.2	52.2	86.8	203.0	2.1	3.2	3.9	4.6	3.7
Total	57.3	170.9	54.4	143.4	314.3	2.1	4.3	4.0	6.5	5.1

(a) Civilians aged 15 years and over. For definition see page 2, paragraph 10. (b) The unemployed in each group as a percentage of the civilian labour force in the same group.

* Less than or based on a figure less than 4,000. See page 19, paragraph 7.

TABLE 14. UNEMPLOYED PERSONS (a), BY AGE, STATES, NOVEMBER 1977 ('000)

Age group (years)	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Australia (b)
MALES							
15-19	16.4	13.5	8.9	6.0	5.6	2.0	54.7
20-34	27.1	15.6	10.1	8.0	5.1	1.5	69.8
35 and over	15.4	14.9	7.7	3.5	3.0	*	46.4
Total	58.9	44.0	26.7	17.4	13.8	4.7	170.9
FEMALES							
15-19	20.5	13.4	10.0	4.9	5.1	2.1	56.6
20-34	20.7	15.8	6.5	5.1	4.4	2.0	56.4
35 and over	10.8	9.8	3.0	*	3.5	*	30.5
Total	52.0	38.9	19.5	12.2	13.0	4.8	143.4
PERSONS							
15-19	37.0	26.9	18.9	10.9	10.7	4.1	111.3
20-34	47.8	31.3	16.7	13.1	9.6	3.5	126.1
35 and over	26.1	24.7	10.7	5.7	6.5	1.9	76.9
Total	110.9	82.9	46.2	29.6	26.8	9.5	314.3

(a) See note (a) to Table 13. (b) Includes the Northern Territory and the Australian Capital Territory.

* Subject to sampling variability too high for most practical uses. See page 19, paragraph 7.

TABLE 15. UNEMPLOYED PERSONS (a), BY AGE AND BIRTHPLACE, NOVEMBER 1977

Age group (years)	Number unemployed ('000)			Per cent of labour force (b)		
	Males	Females	Persons	Males	Females	Persons
BORN IN AUSTRALIA						
15-19	46.7	47.1	93.7	14.5	16.4	15.4
20 and over -						
20-24	31.5	23.8	55.2	7.2	7.2	7.2
25-34	18.3	17.7	36.0	2.4	4.7	3.2
35 and over	26.0	19.7	45.6	1.9	3.0	2.2
Total 20 and over	75.7	61.1	136.8	2.9	4.5	3.5
Total	122.4	108.2	230.6	4.2	6.5	5.0
BORN OUTSIDE AUSTRALIA						
15-19	8.0	9.5	17.5	17.7	19.6	18.7
20 and over -						
20-24	9.7	5.0	14.7	10.6	7.0	9.0
25-34	10.3	9.9	20.2	3.5	6.4	4.5
35 and over	20.5	10.8	31.3	3.3	3.9	3.5
Total 20 and over	40.5	25.7	66.2	4.0	5.1	4.4
Total	48.5	35.2	83.8	4.6	6.3	5.2

(a) See note (a) to Table 13. (b) The unemployed in each group as a percentage of the civilian labour force in the same group.

TABLE 16. UNEMPLOYMENT RATES (a), STATE CAPITAL CITIES AND OTHER AREAS (b)
(Per cent)

Month	State capital cities (b)			Other areas (b)		
	Males	Females	Persons	Males	Females	Persons
1976 -						
August	3.7	4.9	4.1	3.8	7.2	4.9
November	3.5	4.6	3.9	3.9	6.4	4.7
1977 -						
February	4.4	6.9	5.3	4.2	8.3	5.5
May	4.2	5.8	4.8	4.3	8.1	5.5
August	4.4	6.2	5.1	4.4	7.6	5.5
November	4.5	6.0	5.1	3.9	7.4	5.1

(a) The unemployed in each group as a percentage of the civilian labour force in the same group. See note (a) to Table 13. (b) The figures relate to persons residing within the boundaries of the relevant Statistical Divisions. Explanatory notes on the delimitation of urban boundaries and maps showing the boundaries of the capital city Statistical Divisions were published in *Census of Population and Housing, 30 June 1971 - Census Bulletin No. 6*.

TABLE 17. UNEMPLOYMENT RATES (a), BY INDUSTRY AND OCCUPATION, NOVEMBER 1977
(Per cent)

Industry division or subdivision (b)	Unemployment rate	Occupation group (c)	Unemployment rate
Agriculture	3.4	Professional and technical	1.9
Manufacturing	5.6	Administrative, executive and managerial	1.5
Food, beverages and tobacco	6.9	Clerical	3.3
Metal products	4.8	Sales	5.3
Other manufacturing	5.4	Farmers, fishermen, timber-getters, etc.	4.4
Construction	5.4	Miners and quarrymen	*
Wholesale and retail trade	5.5	Transport and communication	3.1
Transport and storage	3.2	Tradesmen, production-process workers and labourers, n.e.c.	6.1
Finance, insurance, real estate and business services	3.5	Metal and electrical workers	3.9
Community services (d)	2.3	Building workers	5.8
Entertainment, recreation, restaurants, hotels and personal services	6.4	Other tradesmen, etc.	8.1
Other industries (e)	2.7	Service, sport and recreation	5.8
Total (f)	5.1	Total (f)	5.1

(a) The unemployed in each group as a percentage of the civilian labour force in the same group. See note (a) to Table 13. (b) Based on industry of last job. (c) Based on occupation of last job. (d) See note (d) to Table 12. (e) See note (e) to Table 12. (f) Includes those looking for their first job.

* Based on a figure less than 4,000. See page 19, paragraph 7.

TABLE 18. UNEMPLOYED PERSONS (a), BY DURATION OF UNEMPLOYMENT (b), BY AGE, ETC., NOVEMBER 1977

Duration of unemployment (b)	Age (years)			Married	Not married (c)	Looking for -		Total
	15-19	20-24	25 and over			Full-time work (d)	Part-time work (e)	
MALES								
Number unemployed ('000) -								
Under 2 weeks	4.3	*	*	*	7.2	8.5	4.6	9.5
2 and under 4 weeks	10.3	7.0	11.4	8.5	20.2	25.1		
4 and under 8 weeks	9.7	8.7	12.7	11.7	19.4	29.3	4.5	31.1
8 and under 13 weeks	7.5	7.3	10.2	8.9	16.0	24.3		
13 and under 26 weeks	6.8	6.0	11.4	8.2	15.9	23.2	4.5	24.2
26 and under 39 weeks	7.6	4.1	11.2	7.4	15.5	21.9		
39 and under 52 weeks	6.2	4.4	4.1	*	6.5	9.3	*	9.6
52 and under 65 weeks			5.7	4.4	6.4	10.4	*	10.8
65 weeks and over	*	*	5.6	*	6.4	9.1	*	9.2
Total	54.7	41.2	75.0	57.3	113.6	160.9	10.0	170.9
Average duration of unemployment (f) (weeks)								
	18.7	17.1	22.6	20.0	20.0	20.5	12.7	20.0
FEMALES								
Number unemployed ('000) -								
Under 2 weeks	4.5	*	6.6	6.5	7.1	8.4	5.3	13.6
2 and under 4 weeks	9.0	4.9	9.7	8.8	14.8	17.5	6.0	23.5
4 and under 8 weeks	10.2	5.0	11.7	13.1	13.7	18.5	8.3	26.9
8 and under 13 weeks	8.6	*	8.5	7.0	12.5	12.9	6.7	19.6
13 and under 26 weeks	7.3	5.3	8.2	7.1	13.7	15.5	5.3	20.8
26 and under 39 weeks	7.1	*	6.8	6.6	10.0	12.8	4.9	16.6
39 and under 52 weeks	4.9	*	*	*	6.6	6.4		
52 and under 65 weeks	*	*	*	*	*	4.6	*	5.8
65 weeks and over	*	*	*	*	7.6	7.7	*	9.1
Total	56.6	28.8	58.1	54.4	89.0	104.4	39.1	143.4
Average duration of unemployment (f) (weeks)								
	19.3	23.2	16.5	14.8	21.5	20.8	14.1	19.0
PERSONS								
Number unemployed ('000) -								
Under 2 weeks	8.8	4.8	9.4	8.8	14.3	16.8	6.3	23.1
2 and under 4 weeks	19.3	11.8	21.0	17.3	35.0	42.6	9.6	52.2
4 and under 8 weeks	19.9	13.7	24.4	24.8	33.2	47.8	10.1	58.0
8 and under 13 weeks	16.1	9.9	18.6	16.0	28.6	37.2	7.4	44.6
13 and under 26 weeks	14.1	11.3	19.6	15.4	29.6	38.7	6.3	45.0
26 and under 39 weeks	14.7	6.7	18.1	14.0	25.5	34.7	4.8	39.5
39 and under 52 weeks	7.7	*	5.6	4.0	13.1	15.7	*	17.1
52 and under 65 weeks	5.4	*	7.9	7.2	9.4	15.0	*	16.6
65 weeks and over	5.3	4.6	8.4	4.3	14.0	16.8	*	18.3
Total	111.3	69.9	133.1	111.7	202.6	265.3	49.0	314.3
Average duration of unemployment (f) (weeks)								
	19.0	19.6	19.9	17.5	20.7	20.6	13.8	19.5

(a) See note (a) to Table 13. (b) Period from the time the person began 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. (f) Periods of unemployment are recorded only in completed weeks; this procedure results in a slight lowering of the figures shown for average duration of unemployment.

* Less than 4,000. See page 19, paragraph 7.

TABLE 19. UNEMPLOYED PERSONS (a), LOOKING FOR FULL-TIME WORK AND LOOKING FOR PART-TIME WORK, NOVEMBER 1977

	Married males	Other males (b)	All males	Married women	Other females (b)	All females	Persons
Looking for full-time work (c) –							
Number ('000)	54.9	106.0	160.9	26.6	77.7	104.4	265.3
Unemployment rate (d) (per cent)	2.0	9.7	4.3	3.4	11.4	7.1	5.0
Looking for part-time work (e) –							
Number ('000)	*	7.6	10.0	27.8	11.2	39.1	49.0
Unemployment rate (d) (per cent)	*	7.1	5.2	4.8	7.5	5.3	5.3

(a) See note (a) to Table 13. (b) Never married, widowed and divorced. (c) Includes persons laid off for the whole week from full-time jobs. (d) The unemployed in each group as a percentage of the civilian labour force in the same group. (e) Includes persons laid off for the whole week from part-time jobs.

* Less than, or based on a figure less than 4,000. See page 19, paragraph 7.

TABLE 20. UNEMPLOYED PERSONS (a), BY INDUSTRY, OCCUPATION AND DURATION OF UNEMPLOYMENT (b) NOVEMBER 1977 ('000)

Industry division or sub-division (c)	Number unemployed	Occupation group (d)	Number unemployed
Agriculture	13.3	Professional and technical	15.9
Manufacturing	72.4	Under 4 weeks	5.2
Under 2 weeks	4.8	4 and under 8 weeks	4.0
2 and under 4 weeks	11.9	Administrative, executive and managerial	5.3
4 and under 8 weeks	10.7	Clerical	35.2
8 and under 13 weeks	10.2	Under 4 weeks	10.2
13 and under 26 weeks	11.8	4 and under 8 weeks	7.5
26 and under 39 weeks	11.2	8 and under 13 weeks	4.5
39 and under 65 weeks	7.8	13 and under 26 weeks	4.2
65 weeks and over	4.1	26 and under 52 weeks	5.4
Food, beverages and tobacco	14.9	Sales	29.2
Under 4 weeks	5.0	Under 4 weeks	5.0
Metal products, machinery and equipment	10.2	4 and under 8 weeks	6.9
Other manufacturing	47.3	8 and under 13 weeks	4.5
Under 4 weeks	9.3	13 and under 26 weeks	4.6
4 and under 8 weeks	7.9	26 and under 52 weeks	4.7
8 and under 13 weeks	6.6	Farmers, fishermen, timber-getters, etc.	19.5
13 and under 26 weeks	7.8	Under 4 weeks	5.1
26 and under 39 weeks	7.5	4 and under 13 weeks	5.0
39 and under 65 weeks	5.6	13 and under 39 weeks	5.8
Construction	27.4	Miners, quarrymen and related workers	*
Under 4 weeks	6.6	Transport and communication workers	10.1
4 and under 8 weeks	5.9	Tradesmen, production-process workers and labourers, n.e.c.	119.6
8 and under 13 weeks	4.4	Under 2 weeks	5.2
13 and under 39 weeks	6.1	2 and under 4 weeks	21.0
Wholesale and retail trade	67.8	4 and under 8 weeks	20.4
Under 4 weeks	14.8	8 and under 13 weeks	19.1
4 and under 8 weeks	13.7	13 and under 26 weeks	17.6
8 and under 13 weeks	10.2	26 and under 39 weeks	17.2
13 and under 26 weeks	9.0	39 and under 52 weeks	6.2
26 and under 39 weeks	10.5	52 and under 65 weeks	6.9
39 and under 65 weeks	5.6	65 weeks and over	6.0
65 weeks and over	4.1	Metal and electrical workers	27.9
Transport and storage	10.0	Under 4 weeks	7.2
Finance, insurance, real estate and business services	16.9	4 and under 8 weeks	4.1
Under 4 weeks	4.0	8 and under 13 weeks	5.7
4 and under 8 weeks	4.3	13 and under 26 weeks	4.0
8 and under 26 weeks	4.4	26 and under 39 weeks	4.0
26 weeks and over	4.3	Building workers	20.2
Community services (e)	20.4	Under 4 weeks	4.1
Under 4 weeks	6.4	4 and under 8 weeks	4.5
4 and under 13 weeks	6.2	8 and under 26 weeks	5.1
13 and under 39 weeks	5.5	26 weeks and over	6.5
Entertainment, recreation, restaurants, hotels and personal services	25.2	Other tradesmen, etc.	71.5
Under 4 weeks	5.9	Under 4 weeks	15.0
4 and under 8 weeks	4.9	4 and under 8 weeks	11.9
8 and under 26 weeks	8.4	8 and under 13 weeks	10.2
26 weeks and over	6.0	13 and under 26 weeks	11.6
Other industries (f)	16.7	26 and under 39 weeks	10.0
Looking for first job	44.2	39 and under 65 weeks	8.3
Under 2 weeks	5.7	65 weeks and over	4.5
2 and under 4 weeks	7.0	Service, sport and recreation workers	34.1
4 and under 8 weeks	8.0	Under 4 weeks	7.2
8 and under 13 weeks	5.1	4 and under 8 weeks	6.3
13 and under 39 weeks	7.4	8 and under 26 weeks	11.2
39 and under 52 weeks	5.4	26 and under 52 weeks	5.7
		Looking for first job	44.2
Total	314.3	Total	314.3

(a) See note (a) to Table 13. (b) See footnote (b) to Table 18. Duration of unemployment is not available for all industry or occupational groups because of high standard errors of the estimates. (c) See note (b) to Table 17. (d) See note (c) to Table 17. (e) See note (d) to Table 12. (f) See note (e) to Table 12.

* Less than 4,000. See page 19, paragraph 7.

TABLE 21. PERSONS NOT IN THE LABOUR FORCE (a), BY MAJOR ACTIVITY ('000)

Month	Kept house	Went to school, etc.	Retired or voluntarily inactive	Permanently unable to work	Institutionalised (b)	Total
MALES						
1976 -						
August †	12.1	297.8	578.7	37.8	52.3	978.6
November	11.9	293.9	576.8	36.2	55.4	974.1
1977 -						
February	9.9	220.0	620.0	37.5	56.8	944.2
May	13.3	266.2	591.4	45.8	47.1	963.8
August	13.7	288.3	609.3	41.4	53.9	1,006.6
November	21.3	312.2	619.2	34.2	53.2	1,040.1
MARRIED WOMEN						
1976 -						
August †	1,878.9	10.5	34.7	5.5	12.8	1,942.3
November	1,879.6	10.0	36.7	*	12.5	1,942.6
1977 -						
February	1,890.3	7.8	30.3	4.9	11.2	1,944.5
May	1,864.4	12.5	32.6	6.1	10.2	1,925.8
August	1,870.1	12.8	32.2	4.8	12.0	1,932.0
November	1,872.8	12.8	41.0	4.0	6.4	1,937.0
OTHER FEMALES (c)						
1976 -						
August †	495.0	271.1	118.9	8.1	62.5	955.6
November	494.4	273.9	129.0	8.9	63.4	969.6
1977 -						
February	503.0	206.8	148.5	11.1	66.8	936.3
May	512.1	249.7	112.7	11.2	66.4	952.1
August	514.0	266.0	117.9	11.1	70.1	979.1
November	528.9	280.1	110.0	11.8	65.9	996.8
ALL FEMALES						
1976 -						
August †	2,373.9	281.7	153.5	13.6	75.3	2,897.9
November	2,374.0	283.9	165.7	12.6	75.9	2,912.2
1977 -						
February	2,393.4	214.6	178.9	16.0	78.0	2,880.8
May	2,376.5	262.3	145.2	17.3	76.6	2,877.9
August	2,384.1	278.7	150.1	15.9	82.1	2,911.0
November	2,401.7	292.9	150.9	15.9	72.4	2,933.8
PERSONS						
1976 -						
August †	2,385.9	579.4	732.2	51.4	127.5	3,876.5
November	2,385.9	577.8	742.5	48.8	131.3	3,886.2
1977 -						
February	2,403.2	434.6	798.9	53.6	134.8	3,825.0
May	2,389.7	528.5	736.6	63.1	123.8	3,841.7
August	2,397.7	567.1	759.4	57.4	136.0	3,917.6
November	2,423.0	605.1	770.1	50.1	125.6	3,973.9

(a) Civilians aged 15 years and over. For definition see page 3, paragraph 12. (b) Comprises inmates of gaols, patients in hospitals, sanatoria, etc., for whom, for the purposes of the survey, the institution was regarded as their dwelling. (c) Never married, widowed and divorced.

* Less than 4,000. See page 19, paragraph 7.

TECHNICAL NOTE

Estimation procedure

The estimates are derived from the quarterly population survey by use of a complex ratio estimation procedure, which ensures that the survey 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 itself.

Reliability of the estimates

2. Since the estimates in this bulletin are based on information obtained from occupants of a sample of dwellings, they may differ from the figures that would have been produced if the information had been obtained from occupants of all dwellings. One measure of the likely difference is given by the *standard error*, which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings was included in the survey. 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 if all dwellings had been included in the survey, and about nineteen chances in twenty that the difference will be less than two standard errors.

3. Because of the reduction in the sample size for November 1977 (See page 2, paragraph 5), the standard errors are higher than usual (approximately 15 per cent higher than for a full sample). Space does not allow for the separate indication of the standard errors of all estimates in this bulletin. Standard errors for general application for November 1977 are given in Table A on page 20. Standard errors of estimates for earlier quarters may be found in the August 1977 issue of this bulletin. These figures will not give a precise measure of the standard error of a particular estimate since they are averages based on calculations for a limited number of past surveys over a wide range of labour force characteristics. However, they will provide an indication of the magnitude of the standard error of any particular estimate for any particular survey. An example of the use of Table A is as follows: if the estimate for Australia for November 1977 obtained from the sample is 100,000 the standard error is 3,600; i.e. there are about two chances in three that the true figure is within the range 96,400 to 103,600 and about nineteen chances in twenty that this figure is between 92,800 and 107,200.

4. The quarter-to-quarter change in the level of an estimate is also subject to sampling variability. The standard error of the change depends on the standard error of the level of the estimate, rather than on the change itself. An indication of the magnitude of standard errors of quarter-to-quarter change in the Australian estimates is given in Table B on page 20. The estimates of standard error of quarter-to-quarter change

apply only to estimates of change between two consecutive quarters. Changes between corresponding quarters of consecutive years, or between two other non-consecutive quarters, will generally be subject to somewhat greater sampling variability than is indicated in Table B. Furthermore, changes during the period February to November 1972 will have greater standard error than indicated in Table B, because of the introduction of the revised sample. An example of the use of Table B is as follows: if the estimates for Australia for two successive quarters are 500,000 and 520,000 then from Table A it can be seen that the standard errors of these two estimates are of the order of 7,000 and from Table B that the standard error of the quarter-to-quarter change is 5,200. That is, there are about two chances in three that the quarter-to-quarter change lies between 14,800 and 25,200 and about nineteen chances in twenty that it lies between 9,600 and 30,400.

5. The standard errors of estimates relating to agricultural employment are generally somewhat higher than the standard errors of other estimates of the same magnitude. Estimates for females also tend to have higher standard errors than estimates of equivalent size for males in similar employment categories.

6. 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 per cent standard error 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.

7. As the standard errors in Table A show, *the smaller the estimate the higher is the relative standard error*. Very small estimates are thus subject to such high standard errors (relative to the size of the estimate) as to detract seriously from their value for most reasonable uses. In the tables in this bulletin, estimates below the levels shown in Table A have not been included. Although figures for these small components can in some cases be derived by subtraction, they should not be regarded as reliable.

8. 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.

TABLE A
STANDARD ERRORS OF NOVEMBER 1977 ESTIMATES

Size of estimate (persons)	N.S.W. No.	Vic. No.	Qld No.	S.A. No.	W.A. No.	Tas. No.	N.T. No.	A.C.T. No.	Australia	
									No.	Per cent of estimate
1,500						300	350	400		
2,000					450	300	400	500		
2,500				550	500	350	450	500		
3,000			700	600	550	350	500	550		
4,000	1,050	1,050	800	700	600	350	550	650	950	23.1
5,000	1,150	1,150	850	800	650	400	600	700	1,000	20.4
10,000	1,500	1,500	1,100	1,000	850	450	800	900	1,350	13.6
20,000	2,000	2,000	1,350	1,200	1,100	500	1,050	1,200	1,800	9.1
50,000	2,900	2,900	1,850	1,700	1,550	600	1,500	1,750	2,650	5.3
100,000	3,800	3,800	2,350	2,200	1,950	700		2,300	3,600	3.6
200,000	5,000	5,000	3,000	2,800	2,550				4,800	2.4
500,000	7,200	7,200	4,050	3,700	3,500				7,000	1.4
1,000,000	9,600	9,600	5,200						9,000	0.9
2,000,000	12,800	12,800							12,000	0.6

— Estimates below the levels indicated have not been published — see page 19, paragraph 7.

TABLE B
STANDARD ERRORS OF ESTIMATES OF
QUARTER-TO-QUARTER CHANGE : AUSTRALIA
(Persons)

Standard error of quarterly level	Standard error of quarter-to-quarter change	Standard error of quarterly level	Standard error of quarter-to-quarter change
1,000	1,300	5,000	4,700
2,000	2,500	6,000	5,000
3,000	3,600	7,000	5,200
4,000	4,300	8,000	5,300

POPULATION SURVEY REPORTS

Although emphasis in the population survey is placed on the regular collection, each quarter, of data on demographic and labour force characteristics, supplementary surveys of particular aspects of the labour force or of other subjects are carried out from time to time. The results of these surveys are published separately. Copies of the following publications are available free on request. Publications issued before October 1977 used a *Reference Number* system. Current *Catalogue Numbers* and Reference Numbers were cross-referenced in the August 1977 issue of this publication.

<i>Title</i>	<i>Catalogue No.</i>
Alcohol and Tobacco Consumption Patterns, February 1977 (Preliminary)	4308.0
Annual Leave, August 1974	6317.0
Assisted and Unassisted Migrants, August 1972	3406.0
Australian Ex-service Personnel, Survey of, November 1966	4403.0
Ex-service Personnel, Widows and Children, November 1971	4403.0
Child Care –	
May 1969; May 1973	4402.0
May 1977 (Preliminary)	4401.0
Chronic Illnesses, Injuries and Impairments –	
May 1968; May 1974	4305.0
Evening and Night Work, November 1976	6329.0
Family Status and Employment Status of the Population, November 1974 and November 1975	6223.0
Frequency of Pay –	
August 1974; August 1976; August 1977	6320.0
Income Distribution, 1968-69 (Consolidated and Revised Edition)	6505.0
Income Distribution, 1973-74 –	
Part 1	6502.0
Part 2	6503.0
Internal Migration –	
1969-70 to 1972-73 (annually); Twelve months ended April 1972, 1973 and 1974; December 1974; January 1977	3408.0
Job Tenure –	
February 1974; February 1975; August 1976	6211.0
Journey to Work and Journey to School –	
May 1970; August 1974	9205.0
Labour Force Experience –	
During 1968; During 1972; During 1974; During 1975; During 1976	6206.0
Labour Force Status and Other Characteristics of Families, November 1974	6224.0
Labour Mobility –	
November 1972; February 1975; February 1976	6209.0
Leavers from Schools, Universities and Other Educational Institutions, Survey of –	
February 1964, 1965, 1966 and 1967	6227.0
February 1968, 1969 and 1970; February 1971 to February 1974 (Annually); May 1975; May 1976	6227.0
Migrants in the Labour Force	6230.0
Multiple Jobholding –	
November 1965; August 1966; August 1967; May 1971; August 1973; August 1975; August 1977	6216.0
Non-School Study Courses, Survey of, August 1968	Not listed
Persons Covered by Hospital and Medical Expenditure Assistance Schemes, August 1972	4303.0
Persons Aged 15 to 64 Years: Employment Status and Period Since Leaving School, May 1976	6225.0
Persons Not in the Labour Force –	
November 1975	6220.0
May 1977 (Preliminary)	6219.0
Persons Looking for Work –	
May 1976; November 1976; May 1977	6222.0
School Leavers, 1970 to 1974 : Their Employment Status and Education Experience in May 1975	6226.0
Superannuation, Survey of –	
Victoria, May 1968	Not listed
February 1974	6319.0
The Labour Force: Country of Birth and Period of Residence, February 1972	6207.0
Trade Union Members, November 1976	6325.0
Weekly Earnings of Employees (Distribution) –	
August 1975; August 1976	6310.0
August 1977 (Preliminary)	6309.0
Work Patterns of Employees, November 1976	6328.0