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# THE LABOUR FORCE REGIONAL ESTIMATES

WESTERN AUSTRALIA

June 1987 – August 1988

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## EXPLANATORY NOTES

1. The estimates in this bulletin are derived from the labour force survey part of the monthly population survey. In addition to State tables, information about smaller areas termed 'regions' are also presented. The bulletin is issued quarterly for the quarters ending in February, May, August and November.

2. Tables in this bulletin show data for the period June 1987 to August 1988. Equivalent data back to October 1982 can be made available on request.

### The population survey

3. The population survey is based on a multi-stage area sample of private dwellings (about 31,000 houses, flats etc) and non-private dwellings (hotels, motels, etc.), and covers about three-fifths of one per cent of the population of Australia. The information is obtained from the occupants of selected dwellings by carefully chosen and specially trained interviewers. The interviews are generally conducted during the two weeks beginning on the Monday between the 6th and the 12th of each month. The information obtained relates to the week before the interview (i.e. the survey week).

### Scope

4. The labour force survey includes all persons aged 15 and over except:

- (a) members of the permanent defence forces;
- (b) certain diplomatic personnel of overseas governments, customarily excluded from census and estimated populations;
- (c) overseas resident in Australia;
- (d) members of non-Australian defence forces (and their dependents) stationed in Australia.

### Coverage

5. In the labour force survey, coverage rules are applied which aim to ensure that each person is associated with only one

dwelling, and hence has only one chance of selection. The coverage rules are, necessarily, a balance between theoretical and operational considerations. Nevertheless, the chance of a person being enumerated at two separate dwellings in the one survey is considered to be negligible.

Persons who are away overseas from their usual residence for less than six weeks at the time of interview are generally enumerated at their usual residence when relevant information can be obtained from other usual residents present at the time of the survey. Persons who, at the time of interview, are overseas for six weeks or more but for less than twelve months are included in the estimates on the assumption that their labour force characteristics are similar to those of the persons responding in the survey.

#### Definitions

6. The labour force category to which a person is assigned depends on the actual activity undertaken during the survey week (i.e. whether working, looking for work, etc.). The following definitions, which conform closely to the international standard definitions specified by the International Labour Organisation (ILO), relate only to those persons within the scope of the survey.

7. *Employed persons* comprise all those aged 15 and over who, during the survey week:

- (a) worked for one hour or more 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 for one hour or more without pay in a family business or on a farm (i.e. unpaid family helpers); or
- (c) were employees who had a job but were not at work and were: on paid leave; on leave without pay for less than four weeks up to the end of the survey week; stood down without pay because of bad weather or plant breakdown at their place of employment for less than four weeks up to the end of the survey week; on strike or locked out; on workers' compensation and expected to be returning to their job; or receiving wages or salary while undertaking full-time study; or
- (d) were employers, self-employed persons or unpaid family helpers who had a job, business or farm, but were not at work.

8. *Unemployed persons* are those aged 15 and over who were not employed during the survey week, and

- (a) had actively looked for full-time or part-time work at any time in the four weeks up to the end of the survey week and:
  - (i) were available for work in the survey week, or would have been available except for temporary illness (i.e. lasting for less than four weeks to the end of the survey week); or
  - (ii) were waiting to start a new job within four weeks from the end of the survey week and would have started in the survey week if the job had been available then; or
- (b) were waiting to be called back to a full-time or part-time

job from which they had been stood down without pay for less than four weeks up to the end of the survey week (including the whole of the survey week) for reasons other than bad weather or plant breakdown.

9. The *unemployment rate* for any group is the number of unemployed expressed as a percentage of the labour force (i.e. employed plus unemployed) in the same group.

10. The *labour force* comprises all persons who, during the survey week, were employed or unemployed, as defined above.

11. The *labour force participation rate* for any group is the labour force expressed as a percentage of the civilian population aged 15 and over in the same group. Because it is not practicable to ascertain the information about school attendance or birthplace of persons in institutions (who are classified as not in the labour force), labour force participation rates for persons classified by school attendance or birthplace are calculated using population estimates which exclude those in institutions.

12. *Full-time workers* are those who usually work 35 hours or more a week 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.

13. *Persons not in the labour force* are those who, during the survey week, were not in the categories employed or unemployed, as defined above.

14. *Industry* is classified according to the *Australian Standard Industrial Classification (ASIC) 1983* (1201.0 and 1202.0) and *occupation* according to the *Australian Standard Classification of Occupations, (ASCO) 1986* (1221.0 and 1222.0).

#### Revision of series

15. Survey estimates are not revised for the usually small amendments of population benchmarks arising from new data on deaths and overseas and internal migration. Revisions are made, however, after each census of population and housing, and when population estimation bases are reviewed.

16. Following the change in official population estimates to a place of usual residence basis after the 1981 Census, the population benchmarks used in the estimation of labour force survey data are compiled according to place of usual residence. For an explanation of the new conceptual basis of population estimates see *Population Estimates: An outline of the New Conceptual Basis of ABS Population Estimates* (3216.0). The estimates shown in this publication are wholly according to place of usual residence.

17. A revised questionnaire was introduced for the April 1986 Labour Force survey. Following the introduction of this questionnaire, the definition of employed persons has been extended to include persons who worked without pay between 1 and 14 hours per week in a family business or on a farm (i.e. unpaid family helpers).

Further information is contained in *Information Paper: Questionnaires used in the Labour Force Survey* (6232.0), and paragraphs 37 and 38 of the Explanatory Notes to the February 1987 issue of the *Labour Force, Australia* (6203.0) issued by the Australian Statistician.

18. Occupational data classified to ASCO was introduced for the August 1986 survey, replacing the Classification and Classified List of Occupations (CCLO), Revised November 1980 used in previous surveys. The new classification relies on the level and specialisation of skill required to satisfactorily perform primary tasks as its classificatory variable and is therefore significantly different from the previous classification. For a more detailed explanation of the concepts and structure underlying the classification refer to the Appendix contained in the September 1985 – November 1986 issue of this publication.

#### Survey sample redesign

19. The Labour Force Survey (LFS) sample has been redesigned and reselected using information collected in the 1986 Population Census. The new sample was phased in over the period September to December 1987. For details, see *Information Paper : Labour Force Survey – Sample Design (6269.0)*

20. The sampling fraction differs for States and Territories. This enables estimates of reasonable accuracy to be produced for all States and Territories as well as for Australia. Sampling fractions for each State and Territory are: New South Wales and Victoria 1 in 230; Queensland 1 in 160; Western Australia, South Australia, Northern Territory and Australian Capital Territory 1 in 115; Tasmania 1 in 70.

#### Potential effects on labour force survey estimate

21. The implementation of new sample may affect estimates derived from the Labour Force Survey. Implications for estimates produced from the LFS due to the sample redesign are as follows:

- (a) There will be higher standard errors for the estimates of month-to-month movements produced over the period September 1987 to December 1987 compared with those for the corresponding series produced prior to this period and from January 1988 onwards. *These are estimated to be up to 22 per cent higher than the normal standard errors on monthly movements.*

Tables of standard errors from January 1988 onwards are on page 24. Standard errors for the months September to December 1987 are contained in the September 1986 to November 1987 issue of this publication. Standard errors for months prior to September 1987 can be found in previous issues of this publication.

- (b) Analysis at the Australian Level has shown that the unemployment rate is marginally higher (about 4 per cent) for those persons in sample for the first time. Normally, this will not affect the overall estimates of month-to-month movements because the number of persons in sample for the first time does not change significantly. However, during the transition period, there will be twice as many people as usual in sample for the first time. This may cause a small upward movement in the number of unemployed persons from August to September (about 3,500 persons at the Australian level) and a compensating decrease from December to January.

22. For further information, see *Information Paper – Labour Force Survey – Sample Design (6269.0)*.

#### Change in collection methodology

23. For the April 1988 to October 1988 surveys information is being collected by telephone interview where practicable, from approximately ten per cent of survey respondents. At the end of this

period, consideration will be given to changing to telephone interviewing as the principal method of obtaining data.

#### Reliability of the estimates

24. Estimates in this publication are subject to two sources of error:

(a) **sampling error:** since the estimates are based on information obtained from occupants of a sample of dwellings they, and the movements derived from them, may differ from the figures that would have been produced if all dwellings had been included in the survey. More information on this topic is given in the Technical note.

(b) **non-sampling error:** inaccuracies may occur because of imperfections in reporting by respondents and interviewers and errors made in the coding and processing of data. These inaccuracies may occur in any enumeration, whether it be a full count or 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.

#### Unpublished data and related publications

25. The tables shown in this publication contain summary information of general interest. Further information is available on microfiche. Inquiries about the additional information can be made by telephoning the ABS on the telephone numbers shown on page 2.

26. Users may also wish to refer to the following publications which can be purchased from any ABS Office:

AUSTRALIA	Catalogue No.
The Labour Force (Preliminary Estimates) (monthly)	6202.0
The Labour Force (monthly)	6203.0
Information Paper: Questionnaires used in the Labour Force Survey, June 1986	6232.0
Information Paper: Release of Regional Labour Force Statistics, April 1985	6262.0
Employed Wage and Salary Earners (quarterly)	6248.0

27. From 1 January 1988 most ABS products and services became chargeable. All publications produced by the ABS are listed in *Catalogue of Publications (1101.0)* which is available free of charge from any ABS Office.

#### Symbols and other usages

28. The following symbols, where shown in columns of figures or elsewhere in tables mean:

- n.a. not available
- n.e.c. not elsewhere classified
- r figure revised
- .. not applicable
- nil or rounded to zero
- \* subject to sampling variability too high for most practical uses.

29. Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

**No. 1.1 – LABOUR FORCE STATUS OF THE CIVILIAN POPULATION AGED 15 YEARS AND OVER  
WESTERN AUSTRALIA**

Period	Employed			Unemployed looking for work			Labour force ( <i>'000</i> )	Not in labour force ( <i>'000</i> )	Unem- ployment rate (a) (per cent)	Parti- cipation rate (b) (per cent)
	Full- time ( <i>'000</i> )	Part- time ( <i>'000</i> )	Total ( <i>'000</i> )	Full- time ( <i>'000</i> )	Part- time ( <i>'000</i> )	Total ( <i>'000</i> )				
<b>MALES</b>										
1987 – June	375.6	28.1	403.7	29.1	3.0	32.2	435.8	124.6	7.4	77.8
July	382.0	28.2	410.2	29.9	2.7	32.5	442.7	119.1	7.3	78.8
Aug.	375.6	31.2	406.9	29.2	3.5	32.7	439.5	123.7	7.4	78.0
Sept.	378.4	30.9	409.4	27.1	3.1	30.2	439.6	125.1	6.9	77.8
Oct.	384.2	29.7	413.8	25.8	2.9	28.7	442.5	123.5	6.5	78.2
Nov.	380.1	28.1	408.2	26.8	2.5	29.3	437.5	129.9	6.7	77.1
Dec.	384.8	28.0	412.8	30.1	2.8	32.8	445.6	123.2	7.4	78.3
1988 – Jan.	382.4	28.2	410.6	31.4	2.4	33.8	444.4	125.7	7.6	77.9
Feb.	385.2	28.2	413.4	33.2	2.2	35.4	448.7	122.9	7.9	78.5
Mar.	382.9	33.3	416.2	29.3	3.2	32.5	448.8	124.3	7.3	78.3
Apr.	386.4	30.4	416.7	29.8	4.6	34.4	451.1	124.2	7.6	78.4
May	387.8	27.4	415.2	31.0	3.0	34.0	449.3	128.4	7.6	77.8
June	392.2	28.7	420.9	29.8	2.5	32.4	453.3	126.7	7.1	78.2
July	397.4	28.6	426.0	24.2	2.6	26.8	452.8	129.3	5.9	77.8
Aug.	396.1	29.1	425.2	26.4	*	28.4	453.6	130.5	6.3	77.7
<b>FEMALES</b>										
1987 – June	149.8	112.8	262.6	16.7	6.3	23.0	285.6	275.0	8.1	50.9
July	155.0	106.5	261.5	17.5	6.1	23.6	285.1	277.1	8.3	50.7
Aug.	152.0	106.0	258.0	14.2	6.7	21.0	278.9	284.7	7.5	49.5
Sept.	153.5	113.3	268.8	15.1	6.2	21.3	290.1	275.0	7.3	51.3
Oct.	152.2	115.1	267.3	15.3	6.2	21.5	288.8	277.7	7.4	51.0
Nov.	150.6	117.1	267.7	14.6	6.4	21.0	288.6	279.3	7.3	50.8
Dec.	157.4	116.1	273.5	16.6	7.8	24.4	297.9	271.4	8.2	52.3
1988 – Jan.	153.1	109.2	262.2	20.8	6.4	27.2	289.5	281.3	9.4	50.7
Feb.	154.8	109.9	264.6	18.8	8.1	27.0	291.6	280.6	9.2	51.0
Mar.	156.6	119.9	276.5	18.6	9.9	28.5	305.0	268.7	9.3	53.2
Apr.	154.9	115.0	269.9	19.0	8.7	27.7	297.6	278.1	9.3	51.7
May	159.5	114.4	273.9	17.6	9.2	26.8	300.7	277.1	8.9	52.0
June	160.1	118.3	278.4	16.9	7.1	24.0	302.4	277.5	7.9	52.1
July	157.8	116.3	274.1	16.1	6.7	22.8	296.9	284.7	7.7	51.1
Aug.	152.0	123.8	275.8	16.2	5.4	21.6	297.4	285.9	7.3	51.0
<b>PERSONS</b>										
1987 – June	525.4	140.9	666.3	45.8	9.4	55.2	721.5	399.6	7.6	64.4
July	536.9	134.8	671.7	47.3	8.8	56.1	727.8	396.2	7.7	64.8
Aug.	527.6	137.2	664.8	43.4	10.2	53.6	718.5	408.4	7.5	63.8
Sept.	534.0	144.2	678.2	42.1	9.4	51.5	729.7	400.1	7.1	64.6
Oct.	536.4	144.7	681.1	41.1	9.1	50.2	731.3	401.2	6.9	64.6
Nov.	530.7	145.2	675.9	41.4	8.9	50.3	726.1	409.1	6.9	64.0
Dec.	542.2	144.0	686.3	46.7	10.6	57.2	743.5	394.5	7.7	65.3
1988 – Jan.	535.5	137.3	672.8	52.2	8.9	61.1	733.9	407.0	8.3	64.3
Feb.	540.0	138.0	678.0	52.0	10.3	62.3	740.3	403.5	8.4	64.7
Mar.	539.5	153.2	692.7	47.9	13.1	61.0	753.7	393.0	8.1	65.7
Apr.	541.3	145.4	686.7	48.8	13.3	62.1	748.7	402.3	8.3	65.0
May	547.3	141.8	689.1	48.6	12.1	60.8	749.9	405.5	8.1	64.9
June	552.3	147.0	699.3	46.8	9.6	56.4	755.7	404.2	7.5	65.2
July	555.2	144.9	700.2	40.3	9.2	49.6	749.7	413.9	6.6	64.4
Aug.	548.1	152.9	701.0	42.6	7.4	50.0	751.1	416.4	6.7	64.3

(a) The number unemployed in each group as a percentage of the labour force in the same group. (b) The labour force in each group as a percentage of the civilian population aged 15 and over in the same group.

**No. 1.2 – LABOUR FORCE STATUS OF THE CIVILIAN POPULATION AGED 15 YEARS AND OVER  
PERTH STATISTICAL DIVISION**

Period	Employed			Unemployed looking for work			Labour force ( <sup>'000</sup> )	Not in labour force ( <sup>'000</sup> )	Unem- ployment rate (a) (per cent)	Parti- cipation rate (b) (per cent)
	Full- time ( <sup>'000</sup> )	Part- time ( <sup>'000</sup> )	Total ( <sup>'000</sup> )	Full- time ( <sup>'000</sup> )	Part- time ( <sup>'000</sup> )	Total ( <sup>'000</sup> )				
<b>MALES</b>										
1987 – June	253.7	19.7	273.4	21.3	2.7	23.9	297.4	94.9	8.0	75.8
July	257.4	21.2	278.6	21.9	2.3	24.2	302.8	90.4	8.0	77.0
Aug.	255.4	24.3	279.7	20.0	3.3	23.3	303.1	91.2	7.7	76.9
Sept.	258.9	22.1	281.0	18.2	*	20.6	301.6	93.6	6.8	76.3
Oct.	261.3	21.0	282.3	18.4	*	20.7	303.0	93.2	6.8	76.5
Nov.	255.9	22.0	277.9	19.7	*	21.7	299.6	97.5	7.3	75.4
Dec.	261.6	20.2	281.8	22.0	*	24.3	306.1	92.0	8.0	76.9
1988 – Jan.	260.6	20.5	281.1	22.6	*	24.5	305.7	93.4	8.0	76.6
Feb.	259.2	21.5	280.7	24.4	*	26.1	306.8	93.3	8.5	76.7
Mar.	259.3	24.1	283.4	22.5	2.6	25.1	308.4	92.7	8.1	76.9
Apr.	264.0	22.7	286.8	20.6	4.0	24.6	311.4	91.3	7.9	77.3
May	262.1	21.5	283.6	22.5	*	24.7	308.3	96.1	8.0	76.2
June	264.8	22.0	286.9	21.5	*	23.1	310.0	96.0	7.5	76.4
July	269.2	21.9	291.1	17.4	*	19.1	310.1	97.3	6.1	76.1
Aug.	268.5	21.6	290.0	18.0	*	19.3	309.4	99.5	6.3	75.7
<b>FEMALES</b>										
1987 – June	112.5	81.9	194.3	12.0	5.1	17.0	211.3	204.9	8.1	50.8
July	117.4	76.2	193.6	12.9	4.5	17.4	211.0	206.3	8.2	50.6
Aug.	116.2	78.0	194.2	10.5	5.0	15.5	209.7	208.7	7.4	50.1
Sept.	120.3	77.0	197.3	10.7	4.8	15.6	212.8	206.6	7.3	50.7
Oct.	117.5	79.8	197.3	10.1	3.9	14.0	211.2	209.2	6.6	50.2
Nov.	114.3	83.9	198.1	9.6	5.4	14.9	213.1	208.4	7.0	50.5
Dec.	117.2	83.1	200.4	11.4	5.4	16.8	217.2	205.4	7.7	51.4
1988 – Jan.	116.4	78.9	195.2	14.3	4.8	19.1	214.3	209.3	8.9	50.6
Feb.	118.1	78.5	196.7	12.5	7.1	19.6	216.3	208.4	9.1	50.9
Mar.	119.4	83.3	202.8	13.4	8.2	21.5	224.3	201.5	9.6	52.7
Apr.	118.3	81.7	200.0	13.4	7.0	20.4	220.4	207.0	9.3	51.6
May	112.4	80.1	202.5	12.9	7.4	20.3	222.8	206.1	9.1	51.9
June	120.4	85.4	205.7	13.1	5.4	18.5	224.2	206.2	8.2	52.1
July	121.0	83.2	204.2	11.4	5.6	16.9	221.1	210.5	7.7	51.2
Aug.	116.8	87.6	204.4	12.1	3.8	15.9	220.4	212.6	7.2	50.9
<b>PERSONS</b>										
1987 – June	366.2	101.6	467.7	33.2	7.7	41.0	508.7	299.7	8.0	62.9
July	374.8	97.4	472.2	34.8	6.8	41.6	513.8	296.7	8.1	63.4
Aug.	371.6	102.3	473.9	30.5	8.3	38.8	512.7	299.9	7.6	63.1
Sept.	379.2	99.1	478.3	28.9	7.2	36.1	514.5	300.2	7.0	63.1
Oct.	378.8	100.8	479.6	28.5	6.2	34.7	514.3	302.4	6.7	63.0
Nov.	370.2	105.9	476.1	29.2	7.4	36.7	512.7	306.0	7.1	62.6
Dec.	378.8	103.3	482.2	33.4	7.7	41.1	523.3	297.4	7.9	63.8
1988 – Jan.	377.0	99.4	476.4	36.9	6.8	43.6	520.0	302.7	8.4	63.2
Feb.	377.3	100.1	477.4	36.9	8.7	45.7	523.1	301.8	8.7	63.4
Mar.	378.7	107.4	486.1	35.8	10.7	46.6	532.7	294.2	8.7	64.4
Apr.	382.3	104.4	486.8	34.1	10.9	45.0	531.8	298.3	8.5	64.1
May	384.5	101.6	486.0	35.4	9.6	45.0	531.0	302.2	8.5	63.7
June	385.2	107.4	492.6	34.6	7.0	41.6	534.2	302.1	7.8	63.9
July	390.2	105.1	495.3	28.8	7.2	36.0	531.3	307.8	6.8	63.3
Aug.	385.3	109.2	494.5	30.1	5.2	35.3	529.8	312.0	6.7	62.9

(a) The number unemployed in each group as a percentage of the labour force in the same group. (b) The labour force in each group as a percentage of the civilian population aged 15 and over in the same group.

**No. 13 – LABOUR FORCE STATUS OF THE CIVILIAN POPULATION AGED 15 YEARS AND OVER  
CENTRAL METROPOLITAN SUB-DIVISION**

Period	Employed			Unemployed looking for work		Labour force ( <sup>'000</sup> )	Not in labour force ( <sup>'000</sup> )	Unem- ployment rate (a) (per cent)	Parti- cipation rate (b) (per cent)
	Full- time ( <sup>'000</sup> )	Part- time ( <sup>'000</sup> )	Total ( <sup>'000</sup> )	Full- time ( <sup>'000</sup> )	Total ( <sup>'000</sup> )				
<b>MALES</b>									
1987 – June	31.5	3.7	35.2	2.0	2.4	37.7	15.3	6.5	71.1
July	30.5	4.3	34.8	*	2.7	37.5	16.7	7.2	69.2
Aug.	30.2	3.6	33.9	*	2.5	36.3	16.5	6.8	68.8
Sept.	31.1	4.0	35.1	*	*	37.2	16.4	*	69.4
Oct.	28.6	3.1	31.8	*	2.4	34.2	17.6	7.0	66.0
Nov.	30.2	4.3	34.5	3.0	3.3	37.8	18.2	8.7	67.5
Dec.	31.0	4.7	35.7	4.5	5.0	40.8	15.8	12.3	72.0
1988 – Jan.	31.3	4.2	35.5	3.2	3.6	39.1	15.6	9.3	71.4
Feb.	32.4	5.3	37.7	3.4	3.9	41.6	18.4	9.4	69.3
Mar.	33.0	4.8	37.8	2.3	2.9	40.7	19.2	7.1	67.9
Apr.	30.6	4.8	35.4	*	3.0	38.4	16.7	7.8	69.7
May	30.2	4.1	34.3	2.6	3.0	37.4	18.8	8.1	66.6
June	30.1	4.2	34.3	4.1	4.5	38.8	17.8	11.6	68.5
July	30.9	4.0	34.9	3.0	3.1	38.0	17.7	8.1	68.2
Aug.	30.2	4.1	34.4	*	2.3	36.7	20.5	6.3	64.2
<b>FEMALES</b>									
1987 – June	16.4	10.7	27.1	2.0	2.6	29.7	30.5	8.7	49.4
July	16.6	10.7	27.3	*	*	29.2	30.8	*	48.6
Aug.	17.1	9.7	26.8	*	*	28.4	32.5	*	46.6
Sept.	17.1	9.2	26.3	*	*	27.8	32.9	*	45.9
Oct.	15.4	9.2	24.5	*	*	26.3	33.6	*	43.9
Nov.	17.6	10.2	27.8	*	2.5	30.3	33.9	8.1	47.2
Dec.	19.4	9.7	29.0	*	*	31.2	29.8	*	51.1
1988 – Jan.	19.0	9.1	28.1	2.6	3.0	31.1	28.3	9.5	52.3
Feb.	19.7	9.3	29.0	2.3	3.1	32.2	28.3	9.7	53.2
Mar.	18.5	9.6	28.1	*	3.0	31.1	27.0	9.7	53.6
Apr.	19.0	9.7	28.7	*	3.0	31.7	27.8	9.3	53.3
May	18.0	8.5	26.5	*	3.5	30.0	29.4	11.6	50.4
June	17.6	8.8	26.4	2.3	3.7	30.1	29.1	12.1	50.8
July	16.5	8.9	25.4	*	2.7	28.0	30.2	9.5	48.1
Aug.	14.7	9.8	24.5	*	*	26.5	32.9	*	44.7
<b>PERSONS</b>									
1987 – June	47.9	14.4	62.3	4.0	5.0	67.4	45.8	7.5	59.5
July	47.1	15.0	62.1	3.5	4.6	66.7	47.5	6.9	58.4
Aug.	47.3	13.3	60.6	3.2	4.1	64.8	49.0	6.4	56.9
Sept.	48.1	13.2	61.3	3.0	3.7	65.0	49.2	5.7	56.9
Oct.	44.0	12.3	56.3	3.5	4.2	60.5	51.2	6.9	54.2
Nov.	47.8	14.5	62.3	5.0	5.8	68.1	52.1	8.5	56.7
Dec.	50.4	14.3	64.8	6.4	7.2	72.0	45.7	10.0	61.2
1988 – Jan.	50.3	13.3	63.6	5.8	6.6	70.2	44.0	9.4	61.5
Feb.	52.1	14.6	66.7	5.7	7.1	73.8	46.7	9.6	61.2
Mar.	51.5	14.4	65.9	4.3	5.9	71.8	46.2	8.2	60.8
Apr.	49.6	14.5	64.1	4.2	6.0	70.1	44.5	8.5	61.2
May	48.2	12.6	60.8	4.8	6.5	67.3	48.2	9.6	58.3
June	47.7	13.0	60.7	6.4	8.2	68.9	47.0	11.9	59.5
July	47.4	12.8	60.2	4.9	5.7	66.0	47.9	8.7	57.9
Aug.	44.9	13.9	58.9	3.7	4.4	63.2	53.4	6.9	54.2

(a) The number unemployed in each group as a percentage of the labour force in the same group. (b) The labour force in each group as a percentage of the civilian population aged 15 and over in the same group.

**No. 1.4 – LABOUR FORCE STATUS OF THE CIVILIAN POPULATION AGED 15 YEARS AND OVER  
EAST METROPOLITAN SUB-DIVISION**

Period	Employed			Unemployed looking for work		Labour force (‘000)	Not in labour force (‘000)	Unem- ployment rate (a) (per cent)	Parti- cipation rate (b) (per cent)
	Full- time (‘000)	Part- time (‘000)	Total (‘000)	Full- time (‘000)	Total (‘000)				
<b>MALES</b>									
1987 – June	39.6	2.5	42.1	3.7	3.8	45.9	12.7	8.3	78.4
July	41.2	3.2	44.4	2.8	3.0	47.3	11.3	6.2	80.7
Aug.	42.5	3.3	45.8	4.0	4.6	50.4	12.3	9.1	80.4
Sept.	43.9	2.6	46.5	2.8	3.3	49.7	12.8	6.5	79.6
Oct.	45.7	2.3	48.0	2.2	2.8	50.8	12.5	5.5	80.2
Nov.	44.6	2.8	47.4	1.9	2.1	49.5	13.5	4.3	78.6
Dec.	43.0	2.8	45.8	*	1.9	47.7	13.4	3.9	78.1
1988 – Jan.	43.7	2.3	46.1	1.9	2.3	48.4	14.5	4.8	77.0
Feb.	42.0	3.2	45.1	2.5	2.9	48.0	15.9	5.9	75.1
Mar.	42.2	3.2	45.4	2.3	2.7	48.1	16.5	5.6	74.5
Apr.	44.2	2.9	47.0	2.1	2.8	49.8	16.8	5.7	74.7
May	44.0	3.6	47.6	2.7	3.0	50.6	15.8	6.0	76.2
June	45.9	2.6	48.5	2.2	2.4	50.9	14.9	4.7	77.4
July	46.6	2.9	49.5	2.5	2.9	52.4	14.7	5.5	78.1
Aug.	45.7	3.0	48.7	2.3	2.5	51.2	15.0	4.9	77.3
<b>FEMALES</b>									
1987 – June	16.5	12.7	29.2	*	2.2	31.4	31.6	7.0	49.8
July	18.2	12.3	30.5	2.3	2.9	33.3	30.4	8.6	52.3
Aug.	17.1	13.0	30.2	2.1	2.7	32.9	31.5	8.3	51.1
Sept.	18.0	12.8	31.8	*	*	33.4	30.2	*	52.5
Oct.	20.5	12.9	33.4	*	2.2	35.6	30.5	6.2	53.8
Nov.	19.3	14.7	34.0	*	2.0	36.0	29.2	5.6	55.2
Dec.	19.5	14.5	34.1	*	*	35.7	28.5	*	55.6
1988 – Jan.	18.9	11.9	30.8	2.3	3.0	33.8	31.1	8.7	52.1
Feb.	19.6	12.8	32.4	*	2.3	34.6	30.1	6.6	53.5
Mar.	20.1	12.7	32.8	*	3.4	36.2	28.1	9.4	56.3
Apr.	17.8	13.5	31.3	*	3.1	34.4	29.3	8.9	54.0
May	18.2	13.9	32.1	1.9	2.8	34.9	31.1	8.0	52.8
June	18.8	14.4	33.1	*	2.2	35.4	30.8	6.3	53.4
July	18.1	14.7	32.8	*	1.8	34.6	32.3	5.2	51.7
Aug.	19.1	13.7	32.8	1.9	3.0	35.8	31.9	8.4	52.9
<b>PERSONS</b>									
1987 – June	56.2	15.2	71.3	5.4	6.0	77.4	44.3	7.8	63.6
July	59.4	15.4	74.8	5.2	5.8	80.7	41.8	7.2	65.9
Aug.	59.6	16.4	75.9	6.1	7.3	83.2	43.8	8.8	65.5
Sept.	62.9	15.4	78.3	4.3	4.9	83.2	43.0	5.9	65.9
Oct.	66.2	15.2	81.3	3.6	5.0	86.4	43.0	5.8	66.7
Nov.	64.0	17.5	81.4	2.9	4.1	85.5	42.7	4.8	66.7
Dec.	62.5	17.4	79.9	2.9	3.5	83.4	41.9	4.2	66.6
1988 – Jan.	62.6	14.2	76.9	4.1	5.3	82.1	45.5	6.4	64.3
Feb.	61.5	15.9	77.5	4.0	5.1	82.6	46.0	6.2	64.2
Mar.	62.3	15.9	78.2	3.8	6.1	84.3	44.6	7.2	65.4
Apr.	62.0	16.4	78.3	3.8	5.9	84.2	46.2	7.0	64.6
May	62.2	17.5	79.7	4.6	5.8	85.5	46.9	6.8	64.6
June	64.7	16.9	81.6	3.7	4.6	86.3	45.7	5.4	65.4
July	64.7	17.6	82.3	3.8	4.7	87.0	47.0	5.4	64.9
Aug.	64.8	16.7	81.5	4.2	5.5	87.0	46.9	6.3	65.0

(a) The number unemployed in each group as a percentage of the labour force in the same group. (b) The labour force in each group as a percentage of the civilian population aged 15 and over in the same group.



**No. 1.5 – LABOUR FORCE STATUS OF THE CIVILIAN POPULATION AGED 15 YEARS AND OVER  
NORTH METROPOLITAN SUB-DIVISION**

Period	Employed			Unemployed looking for work		Labour force (‘000)	Not in labour force (‘000)	Unem- ployment rate (a) (per cent)	Parti- cipation rate (b) (per cent)
	Full- time (‘000)	Part- time (‘000)	Total (‘000)	Full- time (‘000)	Total (‘000)				
<b>MALES</b>									
1987 – June	77.1	5.4	82.5	5.4	6.2	88.8	25.3	7.0	77.8
July	78.8	5.9	84.7	7.0	7.0	91.7	23.0	7.7	79.9
Aug.	78.3	7.6	85.9	5.5	6.5	92.3	23.8	7.0	79.5
Sept.	80.1	6.9	87.1	5.7	6.3	93.4	26.2	6.7	78.1
Oct.	79.4	6.6	86.0	5.1	5.8	91.9	27.1	6.4	77.2
Nov.	78.0	6.3	84.3	5.0	5.7	90.0	28.0	6.3	76.3
Dec.	84.5	5.1	89.6	6.7	7.1	96.7	25.0	7.3	79.4
1988 – Jan.	83.1	6.4	89.6	7.2	7.7	97.2	25.1	7.9	79.5
Feb.	84.0	5.6	89.6	7.7	7.9	97.5	23.0	8.1	80.9
Mar.	82.9	6.9	89.7	7.0	8.0	97.8	22.9	8.2	81.1
Apr.	85.2	6.0	91.2	6.8	8.4	99.6	24.6	8.4	80.2
May	82.2	5.8	87.9	8.1	8.9	96.8	25.1	9.2	79.4
June	83.0	6.3	89.3	7.3	7.8	97.1	27.5	8.0	77.9
July	85.1	5.8	90.9	5.8	6.0	96.9	28.5	6.2	77.3
Aug.	82.6	6.5	89.1	6.3	6.7	95.8	26.4	7.0	78.4
<b>FEMALES</b>									
1987 – June	33.4	25.4	58.9	2.7	5.0	63.9	57.2	7.8	52.8
July	36.5	24.1	60.5	3.4	4.3	64.8	57.9	6.6	52.8
Aug.	35.8	23.6	59.4	2.9	4.2	63.6	60.4	6.7	51.3
Sept.	36.8	23.3	60.1	2.7	4.3	64.4	58.5	6.6	52.4
Oct.	35.9	24.2	60.2	3.1	3.7	63.8	59.5	5.7	51.7
Nov.	33.9	25.4	59.3	2.9	3.8	63.1	59.8	6.0	51.4
Dec.	33.5	25.9	59.4	3.5	6.2	65.6	58.4	9.4	52.9
1988 – Jan.	34.4	25.4	59.8	3.8	5.4	65.2	60.0	8.2	52.1
Feb.	34.8	25.6	60.4	3.8	7.1	67.5	57.8	10.5	53.9
Mar.	33.5	28.3	61.8	4.3	7.0	68.8	57.5	10.2	54.5
Apr.	34.2	26.7	60.8	4.5	6.7	67.6	60.6	10.0	52.7
May	36.0	26.5	62.5	4.0	6.4	68.9	57.9	9.3	54.3
June	36.6	26.1	62.7	4.6	6.0	68.6	60.6	8.7	53.1
July	36.3	28.0	64.4	3.3	5.4	69.7	61.7	7.7	53.0
Aug.	36.1	28.2	64.3	3.9	4.2	68.5	61.0	6.1	52.9
<b>PERSONS</b>									
1987 – June	110.6	30.8	141.4	8.2	11.2	152.6	82.5	7.3	64.9
July	115.3	29.9	145.2	10.4	11.3	156.5	80.9	7.2	65.9
Aug.	114.1	31.2	145.3	8.4	10.7	156.0	84.2	6.9	64.9
Sept.	117.0	30.2	147.2	8.5	10.6	157.7	84.8	6.7	65.0
Oct.	115.3	30.8	146.2	8.3	9.5	155.7	86.6	6.1	64.3
Nov.	111.9	31.8	143.6	7.9	9.5	153.1	87.8	6.2	63.6
Dec.	118.0	31.0	149.0	10.2	13.3	162.3	83.4	8.2	66.1
1988 – Jan.	117.5	31.8	149.4	11.0	13.0	162.4	85.0	8.0	65.6
Feb.	118.8	31.2	150.0	11.5	15.0	165.0	80.8	9.1	67.1
Mar.	116.4	35.1	151.5	11.2	15.0	166.5	80.3	9.0	67.5
Apr.	119.3	32.7	152.0	11.2	15.1	167.1	85.2	9.0	66.2
May	118.2	32.3	150.5	12.1	15.3	165.8	83.0	9.2	66.6
June	119.5	32.4	151.9	11.9	13.8	165.7	88.1	8.3	65.3
July	121.5	33.8	155.3	9.1	11.3	166.6	90.2	6.8	64.9
Aug.	118.7	34.7	153.4	10.2	10.9	164.3	87.3	6.6	65.3

(a) The number unemployed in each group as a percentage of the labour force in the same group. (b) The labour force in each group as a percentage of the civilian population aged 15 and over in the same group.

**No. 1.6 – LABOUR FORCE STATUS OF THE CIVILIAN POPULATION AGED 15 YEARS AND OVER  
SOUTH-WEST METROPOLITAN SUB-DIVISION**

Period	Employed			Unemployed looking for work		Labour force ( <sup>'000</sup> )	Not in labour force ( <sup>'000</sup> )	Unem- ployment rate (a) (per cent)	Parti- cipation rate (b) (per cent)
	Full- time ( <sup>'000</sup> )	Part- time ( <sup>'000</sup> )	Total ( <sup>'000</sup> )	Full- time ( <sup>'000</sup> )	Total ( <sup>'000</sup> )				
<b>MALES</b>									
1987 – June	47.7	3.5	51.2	5.2	5.6	56.8	18.9	9.9	75.0
July	48.4	3.6	51.9	4.4	4.8	56.8	17.6	8.5	76.4
Aug.	46.1	4.3	50.4	4.9	5.5	55.9	16.9	9.9	76.8
Sept.	43.7	3.5	47.2	4.2	4.9	52.1	19.1	9.3	73.2
Oct.	46.1	4.4	50.4	4.5	5.2	55.7	17.5	9.4	76.1
Nov.	45.2	5.0	50.2	4.4	4.7	55.0	17.8	8.6	75.6
Dec.	45.1	4.8	49.8	4.0	4.1	53.9	19.4	7.6	73.6
1988 – Jan.	45.7	4.2	49.9	4.3	4.5	54.4	19.5	8.3	73.6
Feb.	44.0	3.6	47.6	4.5	4.9	52.5	17.6	9.3	74.9
Mar.	43.1	4.7	47.8	4.1	4.5	52.3	16.4	8.5	76.2
Apr.	44.6	4.5	49.1	3.9	4.3	53.4	16.4	8.1	76.5
May	45.4	4.0	49.5	3.4	3.8	53.2	18.1	7.1	74.6
June	46.0	4.8	50.8	3.1	3.4	54.2	18.2	6.2	74.8
July	46.2	4.5	50.8	2.6	3.3	54.1	18.2	6.1	74.8
Aug.	48.1	4.2	52.3	4.0	4.1	56.3	17.1	7.2	76.7
<b>FEMALES</b>									
1987 – June	20.5	15.0	35.5	2.2	2.9	38.4	39.2	7.5	49.4
July	19.2	12.2	31.4	2.7	3.5	35.0	41.5	10.1	45.7
Aug.	20.0	13.3	33.3	*	3.2	36.5	40.2	8.8	47.6
Sept.	19.6	14.0	33.6	2.2	3.8	37.4	41.3	10.2	47.6
Oct.	19.9	14.2	34.1	*	3.2	37.3	39.8	8.6	48.3
Nov.	18.8	14.6	33.4	*	3.3	36.6	40.8	9.0	47.3
Dec.	19.4	14.4	33.9	*	2.8	36.7	43.8	7.6	45.6
1988 – Jan.	18.3	14.5	32.8	2.4	3.8	36.6	45.4	10.4	44.6
Feb.	18.2	13.5	31.7	*	3.1	34.9	45.7	9.0	43.3
Mar.	17.5	16.3	33.8	2.4	3.5	37.4	43.4	9.5	46.3
Apr.	19.9	14.7	34.6	2.5	3.2	37.8	42.5	8.4	47.1
May	21.9	15.9	37.8	*	2.7	40.5	39.6	6.7	50.6
June	20.8	17.7	38.5	*	2.6	41.1	39.7	6.4	50.9
July	22.6	14.6	37.2	*	3.0	40.2	39.2	7.4	50.6
Aug.	20.3	16.9	37.2	*	3.0	40.2	39.6	7.5	50.4
<b>PERSONS</b>									
1987 – June	68.1	18.5	86.7	7.4	8.5	95.1	58.1	8.9	62.1
July	67.6	15.8	83.4	7.1	8.4	91.7	59.1	9.1	60.8
Aug.	66.1	17.6	83.7	6.7	8.7	92.5	57.1	9.4	61.8
Sept.	63.3	17.5	80.9	6.4	8.7	89.5	60.3	9.7	59.7
Oct.	65.9	18.6	84.5	6.3	8.4	93.0	57.3	9.1	61.9
Nov.	64.0	19.6	83.6	6.1	8.0	91.6	58.5	8.8	61.0
Dec.	64.5	19.2	83.7	5.9	6.9	90.6	63.1	7.6	58.9
1988 – Jan.	64.0	18.7	82.7	6.7	8.3	91.0	64.9	9.2	58.4
Feb.	62.2	17.1	79.3	6.5	8.0	87.4	63.3	9.2	58.0
Mar.	60.7	20.9	81.6	6.5	8.0	89.6	59.8	8.9	60.0
Apr.	64.5	19.2	83.7	6.4	7.5	91.2	58.9	8.2	60.8
May	67.3	19.9	87.3	5.2	6.5	93.7	57.7	6.9	61.9
June	66.8	22.5	89.3	4.7	6.0	95.3	57.9	6.3	62.2
July	68.8	19.1	88.0	4.6	6.2	94.2	57.4	6.6	62.1
Aug.	68.4	21.1	89.5	6.0	7.1	96.6	56.8	7.3	63.0

(a) The number unemployed in each group as a percentage of the labour force in the same group. (b) The labour force in each group as a percentage of the civilian population aged 15 and over in the same group.

**No. 1.7 – LABOUR FORCE STATUS OF THE CIVILIAN POPULATION AGED 15 YEARS AND OVER  
SOUTH-EAST METROPOLITAN SUB-DIVISION**

Period	Employed			Unemployed looking for work		Labour force ( <i>'000</i> )	Not in labour force ( <i>'000</i> )	Unem- ployment rate (a) (per cent)	Parti- cipation rate (b) (per cent)
	Full- time ( <i>'000</i> )	Part- time ( <i>'000</i> )	Total ( <i>'000</i> )	Full- time ( <i>'000</i> )	Total ( <i>'000</i> )				
<b>MALES</b>									
1987 – June	57.8	4.6	62.4	4.9	5.8	68.2	22.6	8.6	75.1
July	58.5	4.2	62.8	5.8	6.7	69.4	21.8	9.6	76.1
Aug.	58.3	5.5	63.8	3.6	4.3	68.1	21.7	6.3	75.9
Sept.	60.1	5.1	65.2	3.6	4.1	69.3	19.2	5.9	78.3
Oct.	61.5	4.7	66.1	4.2	4.4	70.6	18.5	6.3	79.2
Nov.	57.8	3.6	61.5	5.4	5.9	67.4	20.1	8.7	77.1
Dec.	58.0	2.9	60.8	5.2	6.2	67.1	18.4	9.3	78.5
1988 – Jan.	56.8	3.4	60.1	6.0	6.4	66.5	18.7	9.6	78.0
Feb.	56.8	3.9	60.6	6.4	6.5	67.1	18.4	9.7	78.5
Mar.	58.1	4.6	62.6	6.8	7.0	69.6	17.8	10.0	79.7
Apr.	59.5	4.5	64.1	5.7	6.1	70.1	16.8	8.6	80.7
May	60.3	4.0	64.2	5.8	6.0	70.2	18.4	8.5	79.3
June	59.9	4.2	64.0	4.7	5.1	69.1	17.6	7.3	79.7
July	60.3	4.7	65.0	3.6	3.8	68.8	18.2	5.6	79.1
Aug.	61.8	3.7	65.6	3.3	3.8	69.3	20.4	5.4	77.2
<b>FEMALES</b>									
1987 – June	25.6	18.0	43.6	3.3	4.4	48.0	46.4	9.1	50.9
July	26.9	17.0	43.9	2.9	4.8	48.7	45.6	9.8	51.6
Aug.	26.2	18.3	44.6	2.4	3.7	48.2	44.1	7.6	52.2
Sept.	27.9	17.6	45.5	3.1	4.3	49.8	43.8	8.6	53.2
Oct.	25.8	19.3	45.1	2.6	3.1	48.2	45.8	6.4	51.3
Nov.	24.7	18.9	43.6	2.0	3.4	47.0	44.8	7.2	51.2
Dec.	25.4	18.6	44.0	2.7	4.0	47.9	45.0	8.3	51.6
1988 – Jan.	25.7	18.0	43.7	3.2	4.0	47.7	44.5	8.4	51.7
Feb.	25.8	17.4	43.1	2.9	4.0	47.1	46.6	8.5	50.3
Mar.	29.8	16.5	46.3	3.2	4.6	50.8	45.5	9.0	52.8
Apr.	27.4	17.0	44.5	2.8	4.5	49.0	46.7	9.2	51.2
May	28.3	15.3	43.6	2.9	4.9	48.5	48.0	10.2	50.3
June	26.6	18.4	45.0	3.1	4.0	49.0	45.9	8.1	51.6
July	27.6	16.9	44.5	2.8	4.2	48.7	47.0	8.6	50.9
Aug.	26.6	19.0	45.6	2.7	3.7	49.3	47.2	7.4	51.1
<b>PERSONS</b>									
1987 – June	83.4	22.6	106.0	8.2	10.2	116.2	69.0	8.8	62.7
July	85.4	21.3	106.7	8.7	11.4	118.1	67.4	9.7	63.7
Aug.	84.6	23.8	108.3	6.1	8.0	116.3	65.7	6.9	63.9
Sept.	88.0	22.7	110.7	6.7	8.3	119.0	62.9	7.0	65.4
Oct.	87.3	23.9	111.2	6.8	7.5	118.8	64.3	6.3	64.9
Nov.	82.6	22.5	105.1	7.3	9.3	114.4	64.9	8.1	63.8
Dec.	83.4	21.4	104.8	7.9	10.2	115.0	63.3	8.9	64.5
1988 – Jan.	82.5	21.4	103.2	9.2	10.4	114.2	63.3	9.1	64.4
Feb.	82.6	21.2	103.8	9.3	10.5	114.3	65.0	9.2	63.7
Mar.	87.9	21.1	108.9	10.0	11.6	120.5	63.3	9.6	65.6
Apr.	87.0	21.6	108.5	8.4	10.5	119.1	63.5	8.8	65.2
May	88.6	19.2	107.8	8.7	10.9	118.8	66.4	9.2	64.2
June	86.5	22.5	109.0	7.8	9.0	118.1	63.5	7.6	65.0
July	87.8	21.7	109.5	6.4	8.0	117.5	65.2	6.8	64.3
Aug.	88.5	22.7	111.2	6.0	7.4	118.6	67.7	6.3	63.7

(a) The number unemployed in each group as a percentage of the labour force in the same group. (b) The labour force in each group as a percentage of the civilian population aged 15 and over in the same group.

**No. 1.8 – LABOUR FORCE STATUS OF THE CIVILIAN POPULATION AGED 15 YEARS AND OVER  
SOUTH-WEST, UPPER GREAT SOUTHERN AND LOWER GREAT SOUTHERN STATISTICAL DIVISIONS**

Period	Employed			Unemployed looking for work		Labour force ( <sup>'000</sup> )	Not in labour force ( <sup>'000</sup> )	Unem- ployment rate (a) (per cent)	Parti- cipation rate (b) (per cent)
	Full- time ( <sup>'000</sup> )	Part- time ( <sup>'000</sup> )	Total ( <sup>'000</sup> )	Full- time ( <sup>'000</sup> )	Total ( <sup>'000</sup> )				
<b>MALES</b>									
1987 – June	56.8	3.8	60.6	2.9	3.2	63.8	17.9	5.0	78.1
July	55.9	3.6	59.5	3.2	3.2	62.7	17.1	5.1	78.6
Aug.	52.7	3.7	56.5	4.5	4.6	61.1	19.1	7.6	76.2
Sept.	50.0	4.1	54.1	3.0	3.5	57.6	18.7	6.0	75.5
Oct.	50.0	4.5	54.5	*	2.4	56.9	17.2	4.3	76.8
Nov.	51.0	2.8	53.8	3.0	3.1	56.9	16.9	5.5	77.1
Dec.	49.5	3.3	52.8	3.9	4.2	56.9	16.7	7.3	77.3
1988 – Jan.	50.0	4.0	54.0	4.0	4.2	58.2	16.4	7.2	78.0
Feb.	51.7	3.8	55.5	4.0	4.2	59.7	16.5	7.0	78.4
Mar.	49.7	3.9	53.7	3.1	3.4	57.0	15.1	5.9	79.0
Apr.	51.3	3.5	54.8	4.2	4.6	59.4	16.5	7.7	78.2
May	54.0	2.4	56.5	5.2	5.7	62.2	18.0	9.2	77.6
June	55.1	2.8	57.9	4.8	4.8	62.7	17.6	7.6	78.1
July	55.3	3.3	58.6	3.9	4.0	62.6	21.0	6.4	74.9
Aug.	56.8	3.4	60.3	5.4	5.6	65.8	18.2	8.5	78.3
<b>FEMALES</b>									
1987 – June	16.2	15.9	32.0	*	2.3	34.4	39.2	6.8	46.7
July	17.1	14.3	31.4	*	2.2	33.6	38.6	6.6	46.5
Aug.	14.6	14.0	28.6	*	2.6	31.2	41.1	8.4	43.1
Sept.	13.8	17.3	31.1	*	3.0	34.1	36.7	8.8	48.2
Oct.	14.9	15.0	29.9	*	3.0	32.9	36.5	9.2	47.4
Nov.	16.1	12.8	28.9	*	2.6	31.5	37.8	8.1	45.5
Dec.	15.3	13.3	28.7	2.7	3.9	32.6	35.9	12.0	47.6
1988 – Jan.	15.4	14.8	30.2	3.1	4.0	34.2	34.9	11.6	49.5
Feb.	16.0	14.7	30.7	3.0	3.4	34.0	37.2	9.9	47.8
Mar.	17.6	16.2	33.8	2.5	3.6	37.4	34.2	9.7	52.3
Apr.	16.0	13.5	29.4	2.9	4.1	33.5	37.0	12.1	47.5
May	16.1	15.6	31.7	*	3.3	35.0	39.1	9.3	47.3
June	18.7	14.0	32.7	*	*	34.7	40.4	*	46.2
July	17.3	14.8	32.1	2.3	2.4	34.5	42.5	7.0	44.8
Aug.	17.9	15.5	33.4	*	*	35.4	41.8	*	45.9
<b>PERSONS</b>									
1987 – June	73.0	19.7	92.7	4.8	5.5	98.2	57.2	5.6	63.2
July	73.0	17.9	90.9	4.7	5.4	96.4	55.7	5.6	63.4
Aug.	67.3	17.7	85.1	6.2	7.2	92.3	60.3	7.8	60.5
Sept.	63.8	21.4	85.3	5.3	6.5	91.7	55.4	7.0	62.4
Oct.	64.9	19.5	84.4	4.5	5.5	89.8	53.8	6.1	62.6
Nov.	67.1	15.7	82.7	5.3	5.7	88.4	54.7	6.4	61.8
Dec.	64.8	16.6	81.5	6.5	8.1	89.5	52.6	9.0	63.0
1988 – Jan.	65.5	18.8	84.3	7.2	8.2	92.4	51.3	8.8	64.3
Feb.	67.7	18.5	86.2	6.9	7.6	93.8	53.7	8.1	63.6
Mar.	67.4	20.1	87.5	5.6	7.0	94.5	49.3	7.4	65.7
Apr.	67.3	17.0	84.3	7.1	8.6	92.9	53.5	9.3	63.5
May	70.2	18.0	88.2	7.2	8.9	97.1	57.0	9.2	63.0
June	73.7	16.8	90.6	6.0	6.8	97.3	58.0	7.0	62.6
July	72.6	18.2	90.7	6.2	6.4	97.2	63.5	6.6	60.5
Aug.	74.7	18.9	93.6	7.0	7.7	101.3	60.0	7.6	62.8

(a) The number unemployed in each group as a percentage of the labour force in the same group. (b) The labour force in each group as a percentage of the civilian population aged 15 and over in the same group.

**No. 1.9 – LABOUR FORCE STATUS OF THE CIVILIAN POPULATION AGED 15 YEARS AND OVER  
KIMBERLEY, PILBARA, CENTRAL, MIDLAND, AND SOUTH-EASTERN STATISTICAL DIVISIONS**

Period	Employed			Unemployed looking for work		Labour force ( <sup>'000</sup> )	Not in labour force ( <sup>'000</sup> )	Unem- ployment rate (a) (per cent)	Parti- cipation rate (b) (per cent)
	Full- time ( <sup>'000</sup> )	Part- time ( <sup>'000</sup> )	Total ( <sup>'000</sup> )	Full- time ( <sup>'000</sup> )	Total ( <sup>'000</sup> )				
<b>MALES</b>									
1987 – June	65.1	4.5	69.6	4.9	5.0	74.7	11.8	6.8	86.4
July	68.7	3.4	72.1	4.7	5.1	77.2	11.6	6.6	87.0
Aug.	67.5	3.2	70.7	4.7	4.7	75.4	13.4	6.3	84.9
Sept.	69.6	4.7	74.2	5.8	6.1	80.3	12.8	7.6	86.2
Oct.	72.9	4.2	77.1	5.2	5.5	82.6	13.1	6.7	86.3
Nov.	73.2	3.3	76.5	4.2	4.5	81.0	15.4	5.5	84.0
Dec.	73.7	4.5	78.2	4.2	4.3	82.5	14.5	5.2	85.1
1988 – Jan.	71.8	3.6	75.4	4.8	5.1	80.5	15.9	6.4	83.5
Feb.	74.3	2.9	77.1	4.8	5.1	82.2	13.1	6.2	86.3
Mar.	73.9	5.3	79.2	3.8	4.1	83.3	16.5	4.9	83.5
Apr.	71.0	4.1	75.1	5.0	5.2	80.3	16.4	6.5	83.1
May	71.7	3.5	75.2	3.3	3.6	78.8	14.4	4.6	84.6
June	72.3	3.9	76.2	3.6	4.5	80.6	13.1	5.6	86.0
July	72.9	3.4	76.4	2.9	3.7	80.0	11.0	4.6	87.9
Aug.	70.8	4.2	74.9	3.0	3.5	78.4	12.8	4.5	86.0
<b>FEMALES</b>									
1987 – June	21.2	15.1	36.3	2.9	3.7	39.9	30.9	9.2	56.3
July	20.5	16.0	36.4	3.1	4.0	40.4	32.2	9.9	55.7
Aug.	21.2	14.0	35.2	*	2.9	38.0	34.9	7.5	52.2
Sept.	21.4	19.0	40.4	*	2.8	43.2	31.6	6.4	57.7
Oct.	19.8	20.3	40.1	2.9	4.5	44.6	31.9	10.1	58.3
Nov.	20.2	20.4	40.6	2.7	3.5	44.0	33.0	7.9	57.1
Dec.	24.8	19.6	44.4	2.6	3.7	48.2	30.1	7.7	61.5
1988 – Jan.	21.3	15.5	36.8	3.4	4.2	41.0	37.1	10.3	52.5
Feb.	20.7	16.6	37.3	3.3	4.0	41.2	35.0	9.6	54.1
Mar.	19.5	20.4	39.9	2.6	3.3	43.2	33.0	7.7	56.7
Apr.	20.6	19.9	40.5	2.7	3.3	43.7	34.2	7.5	56.1
May	21.0	18.7	39.7	2.7	3.2	42.9	32.0	7.5	57.3
June	21.1	18.9	40.0	2.6	3.5	43.5	30.9	8.1	58.5
July	19.5	18.3	37.8	*	3.5	41.3	31.7	8.4	56.6
Aug.	17.3	20.7	38.0	*	3.6	41.6	31.6	8.5	56.8
<b>PERSONS</b>									
1987 – June	86.3	19.6	105.9	7.8	8.7	114.6	42.7	7.6	72.8
July	89.1	19.4	108.5	7.8	9.1	117.6	43.7	7.7	72.9
Aug.	88.7	17.2	105.8	6.7	7.6	113.4	48.3	6.7	70.1
Sept.	90.9	23.7	114.6	7.9	8.9	123.5	44.5	7.2	73.5
Oct.	92.7	24.5	117.2	8.1	10.0	127.2	45.0	7.9	73.9
Nov.	93.4	23.6	117.1	6.9	7.9	125.0	48.5	6.3	72.1
Dec.	98.6	24.1	122.6	6.8	8.1	130.7	44.6	6.2	74.6
1988 – Jan.	93.0	19.1	112.1	8.2	9.3	121.5	53.0	7.7	69.6
Feb.	94.9	19.5	114.4	8.1	9.1	123.5	48.1	7.3	72.0
Mar.	93.4	25.6	119.1	6.4	7.4	126.5	49.5	5.9	71.9
Apr.	91.7	23.9	115.6	7.7	8.5	124.0	50.6	6.8	71.0
May	92.7	22.2	114.9	6.0	6.9	121.8	46.3	5.6	72.4
June	93.4	22.8	116.1	6.2	8.0	124.2	44.0	6.5	73.8
July	92.5	21.7	114.2	5.3	7.1	121.3	42.7	5.9	74.0
Aug.	88.1	24.9	113.0	5.5	7.1	120.0	44.4	5.9	73.0

(a) The number unemployed in each group as a percentage of the labour force in the same group. (b) The labour force in each group as a percentage of the civilian population aged 15 and over in the same group.

**No. 2.1 – EMPLOYED PERSONS: SUMMARY OF CHARACTERISTICS  
WESTERN AUSTRALIA  
(’000)**

<i>Characteristics</i>	<i>August 1987</i>	<i>November 1987</i>	<i>February 1988</i>	<i>May 1988</i>	<i>August 1988</i>		
					<i>Males</i>	<i>Females</i>	<i>Persons</i>
<i>Marital status –</i>							
Married	427.1	440.4	442.6	451.7	282.0	174.1	456.2
Not married	237.7	235.4	235.4	237.4	143.2	101.7	244.9
<i>Age (years)</i>							
15–19	69.0	69.1	72.2	68.5	35.5	31.6	67.1
20–24	90.9	90.9	90.2	88.2	50.3	38.9	89.2
25–34	177.6	184.5	187.7	190.1	119.9	74.9	194.8
35–44	170.8	176.0	174.2	181.7	110.0	72.8	182.8
45+	156.5	155.3	153.7	160.7	109.5	57.6	167.1
<i>Full-time and part-time status –</i>							
Full-time	527.6	530.7	540.0	547.3	396.1	152.0	548.1
Part-time	137.2	145.2	138.0	141.8	29.1	123.8	152.9
<i>Industry division –</i>							
Agriculture, forestry, fishing and hunting	52.2	48.3	52.8	61.0	43.5	15.1	58.6
Mining	26.2	25.2	26.1	22.6	23.2	3.6	26.8
Manufacturing	84.5	88.5	84.2	84.0	67.1	17.7	84.8
Electricity, gas and water	9.1	10.2	11.2	9.2	8.6	*	9.9
Construction	45.5	56.2	54.1	55.1	50.1	7.8	57.9
Wholesale and retail trade	139.7	141.6	139.8	143.9	80.2	60.0	140.2
Transport and storage	30.1	34.0	33.4	34.1	27.4	7.8	35.2
Communication	12.2	9.8	10.8	9.5	7.5	2.5	10.1
Finance, property, etc.	79.4	70.9	71.2	73.2	40.0	35.5	75.5
Public admin. and defence	22.8	24.0	29.5	30.3	17.5	11.0	28.5
Community services	118.8	121.4	115.5	117.1	40.4	80.1	120.5
Recreation, personal, other services	44.2	45.7	49.5	49.2	19.6	33.4	53.0
<i>Major occupation group –</i>							
Managers & administrators	67.3	62.7	70.6	68.8	56.8	13.2	70.0
Professionals	71.9	76.1	75.8	76.2	52.0	30.0	81.9
Para-professionals	45.7	43.7	41.4	42.7	26.7	18.1	44.8
Tradespersons	111.8	115.7	113.1	113.2	108.8	11.9	120.7
Clerks	109.6	109.3	109.4	117.7	26.4	90.9	117.3
Salespersons, etc.	100.3	106.2	104.2	103.2	40.1	65.9	105.9
Plant & machinery operators, etc.	51.8	51.9	55.5	59.5	45.8	5.2	51.1
Labourers and related workers	106.3	110.2	108.1	107.8	68.7	40.7	109.4
<b>Total employed</b>	<b>664.8</b>	<b>675.9</b>	<b>678.0</b>	<b>689.1</b>	<b>425.2</b>	<b>275.8</b>	<b>701.0</b>

**No. 2.2 – EMPLOYED PERSONS: SUMMARY OF CHARACTERISTICS**  
**PERTH STATISTICAL DIVISION**  
('000)

Characteristics	August 1987	November 1987	February 1988	May 1988	August 1988		
					Males	Females	Persons
Marital status –							
Married	299.7	303.8	305.3	309.4	191.6	123.8	315.4
Not married	174.3	172.3	172.0	176.6	98.5	80.6	179.1
Age (years)							
15–19	52.0	49.7	51.5	49.0	23.8	23.2	47.0
20–24	62.9	63.9	64.3	61.2	33.2	29.6	62.7
25–34	123.1	127.1	129.2	133.1	79.8	54.1	133.9
35–44	122.7	125.1	124.5	129.2	76.4	55.7	132.1
45+	113.3	110.3	107.9	113.5	76.8	41.9	118.8
Full-time and part-time status –							
Full-time	371.6	370.2	377.3	384.5	268.5	116.8	385.3
Part-time	102.3	105.9	100.1	101.6	21.6	87.6	109.2
Industry division –							
Agriculture, forestry, fishing and hunting	7.2	5.1	6.9	7.7	5.0	*	7.4
Mining	7.4	8.2	9.1	6.7	4.9	*	6.7
Manufacturing	67.7	68.8	64.8	66.6	54.8	15.3	70.0
Electricity, gas and water	6.2	6.1	6.6	6.3	5.5	*	6.8
Construction	35.6	38.9	40.4	40.8	35.4	5.4	40.8
Wholesale and retail trade	108.4	107.8	106.0	111.1	63.9	46.5	110.4
Transport and storage	22.8	25.6	26.5	26.7	19.8	6.5	26.3
Communication	9.7	8.5	7.6	7.1	5.3	*	6.8
Finance, property, etc.	68.2	64.9	63.7	64.6	34.7	30.8	65.4
Public admin. and defence	17.9	17.1	21.3	21.6	13.6	9.7	23.3
Community services	90.5	91.1	90.1	92.8	31.7	61.9	93.6
Recreation, personal, other services	32.4	34.0	34.4	34.0	15.4	21.5	36.9
Major occupation group –							
Managers & administrators	32.2	28.4	32.4	31.0	29.8	4.2	34.0
Professionals	58.3	61.7	63.8	63.2	42.7	23.9	66.6
Para-professionals	35.4	33.6	31.4	33.1	18.1	14.3	32.3
Tradespersons	81.3	82.3	80.1	80.2	76.7	6.8	83.5
Clerks	91.6	88.7	88.7	95.9	23.1	74.1	97.3
Salespersons, etc.	77.2	82.6	83.2	80.1	32.3	50.1	82.4
Plant & machinery operators, etc.	31.6	32.2	33.2	34.2	25.6	4.3	29.9
Labourers and related workers	66.3	66.5	64.5	68.4	41.7	26.7	68.5
<b>Total employed</b>	<b>473.9</b>	<b>476.1</b>	<b>477.4</b>	<b>486.0</b>	<b>290.0</b>	<b>204.4</b>	<b>494.5</b>

**No. 2.3 – EMPLOYED PERSONS: SUMMARY OF CHARACTERISTICS**  
**CENTRAL METROPOLITAN SUB-DIVISION**  
 ('000)

Characteristics	August 1987	November 1987	February 1988	May 1988	August 1988		
					Males	Females	Persons
Marital status –							
Married	32.7	33.5	36.1	30.1	19.1	12.9	32.1
Not married	27.9	28.8	30.6	30.7	15.2	11.6	26.8
Age (years) –							
15–19	5.3	3.4	4.4	3.8	*	*	3.6
20–24	8.3	10.2	11.7	6.8	2.8	2.8	5.6
25–34	17.9	18.3	19.8	18.2	9.6	6.0	15.6
35–44	15.7	13.2	16.4	18.5	9.6	8.9	18.6
45+	13.5	17.1	14.5	13.5	10.5	4.9	15.4
Full-time and part-time status –							
Full-time	47.3	47.8	52.1	48.2	30.2	14.7	44.9
Part-time	13.3	14.5	14.6	12.6	4.1	9.8	13.9
Industry division –							
Agriculture, forestry, fishing and hunting	*	*	*	*	*	*	*
Mining	*	*	*	*	*	*	*
Manufacturing	5.7	5.5	5.5	5.1	4.3	*	6.0
Electricity, gas and water	*	*	*	*	*	*	*
Construction	2.7	3.5	3.4	3.7	2.8	*	3.1
Wholesale and retail trade	11.8	11.1	11.8	11.5	5.1	4.2	9.3
Transport and storage	*	*	*	2.4	*	*	*
Communication	*	*	*	*	*	*	*
Finance, property, etc.	10.7	12.7	13.9	10.8	7.0	2.8	9.9
Public admin. and defence	3.7	3.1	3.7	3.0	*	*	3.0
Community services	17.3	17.4	17.1	16.8	6.8	10.3	17.1
Recreation, personal, other services	4.6	4.6	5.6	5.2	4.0	*	6.3
Major occupation group –							
Managers & administrators	4.2	5.0	6.7	5.5	4.6	*	5.3
Professionals	14.1	16.1	17.1	16.1	11.0	6.7	17.7
Para-professionals	5.3	5.8	5.9	4.8	*	2.5	4.2
Tradespersons	5.7	6.3	7.2	6.4	5.0	*	5.8
Clerks	10.6	10.3	9.2	8.8	*	5.5	7.6
Salespersons, etc.	9.9	9.0	11.2	9.6	4.7	5.6	10.2
Plant & machinery operators, etc.	2.9	2.7	2.3	*	*	*	2.3
Labourers and related workers	7.8	6.9	7.1	7.7	3.6	*	5.7
<b>Total employed</b>	<b>60.6</b>	<b>62.3</b>	<b>66.7</b>	<b>60.8</b>	<b>34.4</b>	<b>24.5</b>	<b>58.9</b>



**No. 2.4 – EMPLOYED PERSONS: SUMMARY OF CHARACTERISTICS  
EAST METROPOLITAN SUB-DIVISION  
(’000)**

<i>Characteristics</i>	<i>August 1987</i>	<i>November 1987</i>	<i>February 1988</i>	<i>May 1988</i>	<i>August 1988</i>		
					<i>Males</i>	<i>Females</i>	<i>Persons</i>
<b>Marital status –</b>							
Married	52.2	56.1	54.7	54.2	33.7	21.6	55.3
Not married	23.7	25.3	22.7	25.4	15.0	11.2	26.2
<b>Age (years) –</b>							
15–19	8.9	8.9	7.5	8.3	3.5	4.0	7.5
20–24	9.1	9.7	10.6	9.5	5.5	3.6	9.1
25–34	17.7	23.5	21.7	22.3	13.8	9.3	23.1
35–44	22.7	21.8	20.2	21.1	13.8	8.6	22.3
45+	17.5	17.5	17.4	18.5	12.1	7.3	19.4
<b>Full-time and part-time status –</b>							
Full-time	59.6	64.0	61.5	62.2	45.7	19.1	64.8
Part-time	16.4	17.5	15.9	17.5	3.0	13.7	16.7
<b>Industry division –</b>							
Agriculture, forestry, fishing and hunting	*	*	*	1.9	*	*	*
Mining	*	*	*	*	*	*	*
Manufacturing	11.6	12.7	11.8	12.2	9.8	2.5	12.3
Electricity, gas and water	*	*	*	*	*	*	*
Construction	6.3	8.2	7.4	8.1	5.8	*	6.9
Wholesale and retail trade	18.3	18.9	17.9	18.1	12.4	8.3	20.7
Transport and storage	5.5	7.5	5.9	5.9	3.6	*	4.8
Communication	2.3	*	*	*	*	*	*
Finance, property, etc.	9.3	9.3	8.1	9.5	5.5	5.6	11.2
Public admin. and defence	2.3	1.9	3.8	4.4	2.8	*	4.6
Community services	12.7	14.5	12.4	12.8	3.4	8.2	11.6
Recreation, personal, other services	4.2	5.0	6.1	3.7	*	2.9	4.4
<b>Major occupation group –</b>							
Managers & administrators	4.6	3.8	5.1	5.5	5.1	*	5.9
Professionals	7.2	8.5	6.9	7.8	4.6	3.0	7.6
Para-professionals	4.4	6.0	5.4	5.3	3.2	2.2	5.4
Tradespersons	13.7	15.6	14.3	14.5	14.2	*	15.2
Clerks	16.8	16.5	16.0	15.5	3.6	11.5	15.1
Salespersons, etc.	11.6	13.1	12.3	12.3	5.0	7.8	12.8
Plant & machinery operators, etc.	5.7	6.2	6.6	7.3	5.5	*	7.0
Labourers and related workers	12.0	11.6	10.9	11.4	7.5	5.1	12.5
<b>Total employed</b>	<b>75.9</b>	<b>81.4</b>	<b>77.5</b>	<b>79.7</b>	<b>48.7</b>	<b>32.8</b>	<b>81.5</b>

**No. 2.5 – EMPLOYED PERSONS: SUMMARY OF CHARACTERISTICS  
NORTH METROPOLITAN SUB-DIVISION  
(’000)**

<i>Characteristics</i>	<i>August 1987</i>	<i>November 1987</i>	<i>February 1988</i>	<i>May 1988</i>	<i>August 1988</i>		
					<i>Males</i>	<i>Females</i>	<i>Persons</i>
Marital status –							
Married	94.8	92.2	94.9	95.7	58.2	38.7	96.9
Not married	50.5	51.4	55.1	54.8	30.9	25.6	56.5
Age (years) –							
15–19	16.5	17.5	17.9	16.7	7.7	7.7	15.4
20–24	19.3	16.6	19.1	19.2	10.4	9.9	20.3
25–34	37.2	33.3	41.5	41.4	25.5	16.7	42.2
35–44	35.4	41.3	38.6	40.0	23.0	18.4	41.4
45+	36.9	35.0	32.9	33.2	22.6	11.5	34.1
Full-time and part-time status –							
Full-time	114.1	111.9	118.8	118.2	82.6	36.1	118.7
Part-time	31.2	31.8	31.2	32.3	6.5	28.2	34.7
Industry division –							
Agriculture, forestry, fishing and hunting	*	2.1	2.0	*	*	*	*
Mining	2.6	2.2	2.9	2.2	1.9	*	2.3
Manufacturing	19.3	17.2	17.9	17.7	12.2	3.8	16.1
Electricity, gas and water	*	1.8	2.1	1.9	2.2	*	3.0
Construction	10.1	11.5	14.8	13.8	12.7	1.9	14.7
Wholesale and retail trade	33.9	34.2	35.8	37.7	21.4	15.3	36.6
Transport and storage	5.6	5.3	6.3	7.1	5.7	2.0	7.7
Communication	3.0	3.3	3.0	1.9	1.9	*	2.3
Finance, property, etc.	24.0	21.1	19.7	18.6	10.6	9.9	20.5
Public admin. and defence	5.5	6.6	6.7	6.3	4.6	3.7	8.3
Community services	27.0	27.0	27.3	29.1	9.7	18.4	28.1
Recreation, personal, other services	11.4	11.3	11.8	12.3	4.9	7.3	12.2
Major occupation group –							
Managers & administrators	12.7	8.5	9.8	10.1	10.4	*	11.6
Professionals	16.2	17.2	18.6	19.3	12.8	7.1	19.8
Para-professionals	10.4	8.8	7.9	10.2	6.7	4.6	11.3
Tradespersons	25.7	23.9	28.0	26.6	22.4	2.0	24.4
Clerks	28.6	29.4	30.7	30.0	7.4	25.2	32.7
Salespersons, etc.	25.1	28.6	27.0	27.8	12.1	15.7	27.8
Plant & machinery operators, etc.	7.4	8.4	9.4	8.2	6.2	*	7.2
Labourers and related workers	19.1	19.0	18.7	18.3	11.1	7.5	18.6
<b>Total employed</b>	<b>145.3</b>	<b>143.6</b>	<b>150.0</b>	<b>150.5</b>	<b>89.1</b>	<b>64.3</b>	<b>153.4</b>

**No. 2.6 – EMPLOYED PERSONS: SUMMARY OF CHARACTERISTICS  
SOUTH-WEST METROPOLITAN SUB-DIVISION  
(’000)**

Characteristics	August 1987	November 1987	February 1988	May 1988	August 1988		
					Males	Females	Persons
Marital status –							
Married	51.5	56.2	52.3	58.0	36.6	22.7	59.3
Not married	32.3	27.4	27.1	29.2	15.7	14.5	30.2
Age (years) –							
15–19	9.4	7.8	7.8	8.8	4.3	4.2	8.5
20–24	10.4	11.9	11.4	12.6	6.6	5.8	12.4
25–34	21.2	21.3	18.2	20.7	12.6	9.0	21.6
35–44	21.5	22.6	21.9	21.9	13.2	9.2	22.3
45+	21.3	20.0	20.1	23.2	15.6	9.1	24.7
Full-time and part-time status –							
Full-time	66.1	64.0	62.2	67.3	48.1	20.3	68.4
Part-time	17.6	19.6	17.1	19.9	4.2	16.9	21.1
Industry division –							
Agriculture, forestry, fishing and hunting	*	*	*	2.2	*	*	2.7
Mining	*	*	*	*	*	*	*
Manufacturing	14.4	17.0	13.2	14.8	12.7	2.4	15.1
Electricity, gas and water	*	*	*	*	*	*	*
Construction	7.7	7.0	6.4	5.8	6.4	*	7.0
Wholesale and retail trade	17.5	17.9	16.3	18.3	10.5	7.4	17.9
Transport and storage	4.4	4.6	5.0	4.9	3.2	*	4.6
Communication	*	*	*	*	*	*	*
Finance, property, etc.	11.0	10.5	10.8	12.5	5.4	6.5	11.9
Public admin. and defence	3.9	2.8	2.7	3.4	2.4	*	3.7
Community services	15.5	15.3	16.4	16.3	5.4	11.7	17.1
Recreation, personal, other services	3.9	4.8	3.7	5.9	*	4.7	6.6
Major occupation group –							
Managers & administrators	4.5	5.6	4.6	3.9	4.5	*	5.0
Professionals	9.3	10.6	10.6	10.8	7.1	3.8	10.9
Para-professionals	5.9	6.0	6.8	6.7	2.8	*	4.9
Tradespersons	16.8	15.2	11.9	13.0	14.2	*	15.5
Clerks	15.5	12.6	12.8	17.7	4.4	13.6	18.0
Salespersons, etc.	13.1	14.9	14.9	14.6	4.3	9.1	13.4
Plant & machinery operators, etc.	5.8	6.2	6.0	6.7	4.8	*	5.5
Labourers and related workers	13.0	12.4	11.7	13.9	10.1	6.1	16.2
<b>Total employed</b>	<b>83.7</b>	<b>83.6</b>	<b>79.3</b>	<b>87.3</b>	<b>52.3</b>	<b>37.2</b>	<b>89.5</b>

**No. 2.7 – EMPLOYED PERSONS: SUMMARY OF CHARACTERISTICS**  
**SOUTH-EAST METROPOLITAN SUB-DIVISION**  
('000)

<i>Characteristics</i>	<i>August</i> <i>1987</i>	<i>November</i> <i>1987</i>	<i>February</i> <i>1988</i>	<i>May</i> <i>1988</i>	<i>August 1988</i>		
					<i>Males</i>	<i>Females</i>	<i>Persons</i>
<b>Marital status –</b>							
Married	68.4	65.7	67.3	71.4	43.9	27.9	71.8
Not married	39.9	39.4	36.4	36.5	21.6	17.8	39.4
<b>Age (years) –</b>							
15–19	11.9	12.1	13.9	11.3	6.5	5.5	11.9
20–24	15.9	15.5	11.4	13.2	7.8	7.5	15.3
25–34	29.2	30.7	28.1	30.5	18.4	13.0	31.4
35–44	27.3	26.1	27.4	27.7	16.8	10.6	27.4
45+	24.1	20.6	23.0	25.1	16.1	9.1	25.2
<b>Full-time and part-time status –</b>							
Full-time	84.6	82.6	82.6	88.6	61.8	26.6	88.5
Part-time	23.8	22.5	21.2	19.2	3.7	19.0	22.7
<b>Industry division –</b>							
Agriculture, forestry, fishing and hunting	2.4	*	1.7	*	*	*	*
Mining	*	2.4	2.4	2.0	*	*	*
Manufacturing	16.7	16.4	16.4	16.7	15.7	4.8	20.5
Electricity, gas and water	1.7	1.8	*	*	*	*	*
Construction	8.7	8.6	8.6	9.3	7.7	*	9.2
Wholesale and retail trade	26.8	25.8	24.3	25.6	14.5	11.2	25.8
Transport and storage	5.8	6.9	7.1	6.3	5.8	*	7.2
Communication	2.7	2.4	2.3	2.9	*	*	2.1
Finance, property, etc.	13.4	11.2	11.3	13.1	6.0	5.9	11.9
Public admin. and defence	2.6	2.8	4.4	4.4	2.5	*	3.8
Community services	17.9	16.9	17.1	17.7	6.4	13.3	19.7
Recreation, personal, other services	8.3	8.2	7.3	7.0	3.2	4.3	7.5
<b>Major occupation group –</b>							
Managers & administrators	6.3	5.5	6.3	6.0	5.3	*	6.1
Professionals	11.5	9.2	10.6	9.1	7.2	3.4	10.6
Para-professionals	9.4	7.0	5.4	6.2	3.6	3.0	6.6
Tradespersons	19.4	21.3	18.8	19.7	20.9	1.7	22.6
Clerks	20.1	19.9	19.9	24.0	5.7	18.3	23.9
Salespersons, etc.	17.5	17.0	17.9	15.7	6.3	11.9	18.2
Plant & machinery operators, etc.	9.8	8.7	8.9	10.0	7.3	*	7.9
Labourers and related workers	14.4	16.6	16.0	17.2	9.5	5.9	15.4
<b>Total employed</b>	<b>108.3</b>	<b>105.1</b>	<b>103.8</b>	<b>107.8</b>	<b>65.6</b>	<b>45.6</b>	<b>111.2</b>

**No. 2.8 – EMPLOYED PERSONS: SUMMARY OF CHARACTERISTICS**  
**SOUTH-WEST, UPPER GREAT SOUTHERN AND LOWER GREAT SOUTHERN STATISTICAL DIVISIONS**  
 ('000)

<i>Characteristics</i>	<i>August</i> <i>1987</i>	<i>November</i> <i>1987</i>	<i>February</i> <i>1988</i>	<i>May</i> <i>1988</i>	<i>August 1988</i>		
					<i>Males</i>	<i>Females</i>	<i>Persons</i>
<i>Marital status –</i>							
Married	58.7	58.9	58.4	62.1	41.9	22.7	64.5
Not married	26.4	23.8	27.8	26.1	18.4	10.7	29.1
<i>Age (years) –</i>							
15–19	7.6	8.8	10.1	8.7	5.0	5.3	10.3
20–24	10.6	8.2	8.3	10.4	7.0	4.3	11.3
25–34	25.1	20.7	23.5	23.1	17.7	8.8	26.6
35–44	22.7	23.6	21.9	21.0	14.4	6.3	20.8
45+	18.9	21.5	22.4	24.9	16.0	8.7	24.7
<i>Full-time and part-time status –</i>							
Full-time	67.3	67.1	67.7	70.2	56.8	17.9	74.7
Part-time	17.7	15.7	18.5	18.0	3.4	15.5	18.9
<i>Industry division –</i>							
Agriculture, forestry, fishing and hunting	20.2	18.1	19.8	21.4	15.8	5.9	21.7
Mining	5.5	2.8	2.6	3.0	3.9	*	3.9
Manufacturing	11.9	12.4	13.1	12.0	8.2	*	9.9
Electricity, gas and water	*	2.5	2.4	*	*	*	*
Construction	3.9	6.6	5.1	4.8	6.5	*	7.7
Wholesale and retail trade	14.8	15.4	16.7	16.8	10.0	7.1	17.1
Transport and storage	*	*	*	2.7	3.5	*	3.9
Communication	*	*	*	*	0.9	*	*
Finance, property, etc.	4.4	*	2.3	3.4	*	2.7	4.7
Public admin. and defence	*	2.6	2.3	*	*	*	*
Community services	12.6	11.4	10.2	11.6	4.4	7.8	12.2
Recreation, personal, other services	5.4	6.3	8.1	7.9	*	5.8	7.8
<i>Major occupation group –</i>							
Managers & administrators	16.2	16.0	19.4	18.8	11.7	4.7	16.4
Professionals	7.7	5.0	5.0	5.7	4.2	2.3	6.6
Para-professionals	3.9	3.7	2.9	2.8	2.3	*	3.0
Tradespersons	14.2	13.3	14.5	13.7	15.4	2.3	17.7
Clerks	8.1	8.2	6.9	8.7	*	7.9	9.4
Salespersons, etc.	11.5	10.7	11.1	12.0	4.3	8.5	12.8
Plant & machinery operators, etc.	8.4	8.2	9.3	9.2	8.4	0.5	8.9
Labourers and related workers	15.1	17.6	17.2	17.2	12.4	6.4	18.8
<b>Total employed</b>	<b>85.1</b>	<b>82.7</b>	<b>86.2</b>	<b>88.2</b>	<b>60.3</b>	<b>33.4</b>	<b>93.6</b>

**No. 2.9 – EMPLOYED PERSONS: SUMMARY OF CHARACTERISTICS**  
**KIMBERLEY, PILBARA, CENTRAL, MIDLANDS AND SOUTH-EASTERN STATISTICAL DIVISIONS**  
('000)

<i>Characteristics</i>	<i>August</i> <i>1987</i>	<i>November</i> <i>1987</i>	<i>February</i> <i>1988</i>	<i>May</i> <i>1988</i>	<i>August 1988</i>		
					<i>Males</i>	<i>Females</i>	<i>Persons</i>
Marital status –							
Married	68.7	77.7	78.9	80.2	48.6	27.7	76.3
Not married	37.1	39.4	35.5	34.7	26.3	10.4	36.7
Age (years) –							
15–19	9.4	10.6	10.6	10.7	6.7	3.2	9.9
20–24	17.3	18.8	17.6	16.6	10.1	5.1	15.2
25–34	29.4	36.8	35.0	33.9	22.3	12.0	34.3
35–44	25.5	27.4	27.8	31.4	19.2	10.8	30.0
45+	24.3	23.5	23.4	22.2	16.6	7.0	23.6
Full-time and part-time status –							
Full-time	88.7	93.4	94.9	92.7	70.8	17.3	88.1
Part-time	17.2	23.6	19.5	22.2	4.2	20.7	24.9
Industry division –							
Agriculture, forestry, fishing and hunting	24.8	25.1	26.1	31.9	22.7	6.8	29.5
Mining	13.3	14.2	14.4	12.8	14.4	*	16.1
Manufacturing	4.9	7.4	6.3	5.3	4.1	*	4.9
Electricity, gas and water	*	*	*	*	*	*	*
Construction	6.0	10.6	8.6	9.5	8.2	*	9.4
Wholesale and retail trade	16.5	18.4	17.1	16.1	6.4	6.4	12.8
Transport and storage	5.6	6.3	4.7	4.7	4.1	*	5.0
Communication	*	*	*	*	*	*	*
Finance, property, etc.	6.8	4.2	5.2	5.2	3.4	*	5.5
Public admin. and defence	3.0	4.3	5.9	7.3	2.7	*	3.8
Community services	15.7	18.9	15.2	12.7	4.3	10.4	14.7
Recreation, personal, other services	6.4	5.4	6.9	7.3	*	6.1	8.2
Major occupation group –							
Managers & administrators	18.9	18.3	18.8	19.1	15.3	4.3	19.5
Professionals	5.9	9.4	7.0	7.3	5.0	3.7	8.8
Para-professionals	6.4	6.4	7.0	6.8	6.3	3.2	9.5
Tradespersons	16.2	20.1	18.6	19.3	16.6	2.7	19.4
Clerks	9.8	12.4	13.8	13.1	*	8.8	10.6
Salespersons, etc.	11.7	12.8	9.8	11.1	3.4	7.3	10.7
Plant & machinery operators, etc.	11.8	11.6	13.0	16.1	11.9	*	12.3
Labourers and related workers	24.9	26.1	26.4	22.2	14.6	7.6	22.2
<b>Total employed</b>	<b>105.8</b>	<b>117.1</b>	<b>114.4</b>	<b>114.9</b>	<b>74.9</b>	<b>38.0</b>	<b>113.0</b>

## TECHNICAL NOTE

1. For more information on sample design, estimation procedure and reliability of the estimates, for current and earlier surveys, reference should be made to the Technical Note in *The Labour Force, Australia 1978* (6204.0).

### Estimation procedure

2. The labour force estimates are derived from the 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

3. Two types of error are possible in an estimate based on a sample survey: sampling error and non-sampling error. The *sampling error* is a measure of the variability that occurs by chance because a sample, rather than the entire population, is surveyed. Since the estimates in this publication are based on information obtained from occupants of a sample of dwellings they, and the movement derived from them, are subject to sampling variability; that is, they may differ from the figures that would have been produced if all dwellings had been included in the surveys. 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. 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, and about nineteen chances in twenty that the difference will be less than two standard errors. The standard error can also be expressed as a percentage of the estimate, and this is known as the *relative standard error*.

4. Space does not allow for the separate indication of the standard errors of all estimates in this publication. Tables A and B on page 24 show standard errors of estimates and monthly movements January 1988 onwards. Standard errors for the months September to December 1987 are contained in the September 1986 to November 1987 issue of this publication. Standard errors for months prior to September 1987 are available from previous issues of this publication.

5. The size of the standard error increases with the level of the estimate, so that the larger the estimate the larger the standard error. However, it should be noted that the larger the sample estimate the smaller will be the standard error in percentage terms. Thus, larger sample estimates will be relatively more reliable than small estimates.

6. As the standard errors in the tables on page 24 show, *the smaller the estimate the higher is the relative*

*standard error*. Very small estimates are 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 publication, estimates and percentages based on such estimates have not been included but are indicated with an '\*'. Although figures for these small components can in some cases be derived by subtraction, they should not be regarded as reliable.

7. The movement in the level of an estimate is also subject to sampling variability. The standard error of the movement depends on the levels of the estimates from which the movement is obtained rather than the size of the movement. An indication of the magnitude of standard errors of monthly movements is shown in Table B on page 24. The estimates of standard error of monthly movement apply only to estimates of movements between two consecutive months. Movements between corresponding months of consecutive quarters (quarterly movements), corresponding months of consecutive years (annual movements) and other non-consecutive months, will generally be subject to somewhat greater sampling variability than is indicated in the table. Standard errors of *quarterly* movements can be obtained by multiplying the figures in Table B on page 24 by 1.5. Standard errors of all *annual* movements can be obtained by multiplying the figures in Table A on page 24 by 1.3. When using the table to calculate standard errors of movements, refer to the larger of the two estimates from which the movement is derived.

### Examples of the calculation and use of standard errors.

8. From Table A it will be seen that in the Central Metropolitan Sub-division an estimate of 4,000 unemployed males looking for full-time work has a standard error of about 750. Therefore there are about two chances in three that the number that would have been obtained if all dwellings had been included in the survey would have been within the range 3,250 to 4,750 and about nineteen chances in twenty that it would have been within the range 2,500 to 5,500.

9. Suppose that there is an increase of 800 in the number of unemployed males in the Central Metropolitan Sub-division looking for full-time work from one month to the next.

Table B relates the standard error of the monthly movement to the larger of the two estimates from which the movement is derived. In this case, if the larger of the two estimates from which the movements is derived was 4,000, from Table B it will be seen that the standard error of the monthly movement is about 530. Therefore there are about two chances in three that if all dwellings had been included in the surveys the movement would have been within the range 270 to 1,330 and about nineteen chances in twenty that it would have been within the range -260 to +1,860.

TABLE A : STANDARD ERRORS OF ESTIMATES, JANUARY 1988 ONWARDS

WESTERN AUSTRALIA, PERTH STATISTICAL DIVISION AND BALANCE OF WESTERN AUSTRALIA																
Size of estimate	2,500	3,000	3,500	4,000	4,500	5,000	6,000	10,000	20,000	50,000	100,000	200,000	300,000	500,000	1,000,000	2,000,000
Standard error	570	620	670	710	740	780	840	1,050	1,350	1,950	2,500	3,150	3,600	4,200	5,100	6,200
WESTERN AUSTRALIA DISSEMINATION REGIONS																
Size of estimate	1,800	2,000	2,500	3,000	4,000	5,000	6,000	8,000	10,000	20,000	30,000	40,000	50,000	100,000	200,000	
	Standard error															
Perth Statistical Division –																
Central Metropolitan	–	–	600	650	750	830	910	1,050	1,150	1,600	1,900	2,150	2,350	3,200	–	
East Metropolitan	450	470	530	570	660	730	800	910	1,000	1,400	1,650	1,900	2,050	2,800	–	
North Metropolitan	450	470	520	570	650	730	790	910	1,000	1,400	1,650	1,850	2,050	2,800	3,700	
South–West Metropolitan	–	–	570	620	710	790	860	980	1,100	1,500	1,800	2,050	2,250	3,000	–	
South–East Metropolitan	430	450	510	550	630	700	770	880	970	1,350	1,600	1,800	2,000	2,700	3,600	
Balance of Western Australia –																
South–West, Upper Great Southern and Lower Great Southern	–	–	590	650	740	830	900	1,050	1,150	1,550	1,850	2,150	2,350	3,150	–	
Kimberley, Pilbara, Central Midlands and South–Eastern	–	–	–	690	790	870	950	1,100	1,200	1,650	2,000	2,250	2,500	3,350	4,450	

TABLE B: STANDARD ERRORS OF ESTIMATES OF MONTH TO MONTH MOVEMENTS, JANUARY 1988 ONWARDS

WESTERN AUSTRALIA, PERTH STATISTICAL DIVISION AND BALANCE OF WESTERN AUSTRALIA																
Size of estimate	2,500	3,000	3,500	4,000	4,500	5,000	6,000	10,000	20,000	50,000	100,000	200,000	300,000	500,000	1,000,000	2,000,000
Standard error	490	520	550	580	610	630	670	810	1,050	1,500	1,900	2,450	2,850	3,450	4,450	5,800
WESTERN AUSTRALIA DISSEMINATION REGIONS																
Size of larger estimate	1,800	2,000	2,500	3,000	4,000	5,000	6,000	8,000	10,000	20,000	30,000	40,000	50,000	100,000	200,000	
	Standard error															
Perth Statistical Division –																
Central Metropolitan	–	–	440	480	530	580	630	700	760	1,000	1,200	1,300	1,450	1,900	–	
East Metropolitan	340	350	390	420	460	510	550	610	670	880	1,050	1,150	1,250	1,650	–	
North Metropolitan	350	370	400	430	480	530	570	630	690	910	1,050	1,200	1,300	1,700	2,250	
South–West Metropolitan	–	–	440	470	530	580	620	690	760	1,000	1,150	1,300	1,450	1,900	–	
South–East Metropolitan	340	350	390	410	460	510	540	610	670	870	1,050	1,150	1,250	1,650	2,150	
Balance of Western Australia –																
South–West, Upper Great Southern and Lower Great Southern	–	–	460	500	560	610	650	730	800	1,050	1,250	1,400	1,500	2,000	–	
Kimberley, Pilbara, Central Midlands and South–Eastern	–	–	–	550	610	670	720	800	880	1,150	1,350	1,500	1,650	2,150	2,850	

