

## WEEKLY EARNINGS OF EMPLOYEES (DISTRIBUTION), AUGUST 1978 (PRELIMINARY)

### INQUIRIES

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### MAIN FEATURES

- In August 1978, the estimated percentages of full-time employees aged 20 years and over earning less than various weekly amounts were as follows:

	Males (\$)	Females (\$)
25 per cent earned less than	164	140
50 " " " " "	200	163
75 " " " " "	251	195
90 " " " " "	321	237

- Average weekly earnings of full-time employees were:

	Males (\$)	Females (\$)
Aged 20 years and over	220	174
Aged 15 to 19 years	113	107

- 55.5 per cent of employees were paid weekly, 36.6 per cent fortnightly and 6.3 per cent monthly.

### EXPLANATORY NOTES

#### Introduction

In August 1978 a sample survey, based on the monthly population survey, was conducted throughout Australia in order to obtain information about the earnings of wage and salary earners and whether they were paid weekly, fortnightly, etc. For the sake of brevity, wage and salary earners are referred to in the tables as "employees".

2. Similar surveys relating to earnings have been conducted annually since August 1975 and results were published in *Weekly Earnings of Employees (Distribution)* (6310.0). From 1976 the surveys obtained particulars of earnings from main and other jobs separately. In this publication all tables of earnings except Table 4 contain details of earnings aggregated for all jobs; Table 4 contains details of earnings from the main job cross-classified by earnings from the second job. Surveys relating to frequency of pay were conducted in respect of the year 1968 and in August 1974, 1976 and 1977, and results were published in *Frequency of Pay* (6320.0). The particulars in Tables 6 to 8 in this bulletin relate to persons who were employees in their main job.

3. This bulletin contains a summary of results of the survey. The earnings estimates shown are preliminary and subject to revision. Further estimates of earnings will be published in *Weekly Earnings of Employees (Distribution)* (6310.0).

#### The population survey

4. The survey was based on a multi-stage area sample of private dwellings (about 30,000 houses, flats etc.) and non-private dwellings (hotels, motels, etc.) and covered about two-thirds of one per cent of the population of Australia. The information was obtained from the occupants of selected dwellings by carefully chosen and specially trained interviewers, the interviews being conducted during the two weeks beginning on Monday 7 August 1978.

#### Scope of the estimates

5. The estimates relate to all persons aged 15 years and over except:

- members of the permanent defence forces
- certain diplomatic personnel of overseas governments, customarily excluded from census and estimated populations
- non-Australians on tour or holidaying in Australia
- members of non-Australian defence forces (and their dependants) stationed in Australia, and
- patients in hospitals and sanatoria, or inmates of gaols, reformatories, etc.

#### Interpretation of results

6. Since the estimates are based on a sample, they are subject to sampling variability. (See Technical Note, page 12). In addition, they are subject to errors of response and reporting. In many cases the answer to the question on earnings was based on the knowledge of one person (generally the housewife), and it is possible that the estimates may be somewhat understated. Other errors may be due to genuine misunderstanding.

#### Definitions

7. *Weekly earnings* refers to gross weekly wages and salaries before taxation and other deductions have been made.

8. The *main job* was defined as the job at which most hours were worked during the survey week. The *second job* was defined to include all remaining jobs.

9. *Full-time employees* are those who usually worked 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 employees* are those who usually worked less than 35 hours a week and who did so during the survey week. When recording hours of work, fractions of an hour were disregarded.

10. *Median weekly earnings* is the amount which divides the distribution of individuals into two equal groups, one having earnings above that amount and the other having earnings below it. Medians were calculated from grouped data, the class intervals being finer than those published in the tables. Linear interpolation was used within the class interval in which the median fell.

11. *Mean weekly earnings* is the amount obtained by dividing the total earnings of a group by the number of units in that group.

#### Comparability of estimates with those for previous years

12. The results of this survey are based on revised population benchmarks derived from the 1976 Population Census, which have been adjusted for underenumeration. Hence, estimates of numbers of employees in this survey are not on the same basis as those from earlier surveys. Because of resource constraints it is not feasible to calculate estimates on the revised basis for earlier years. However, it is considered that the estimates of mean and median earnings would have been only slightly affected by the change.

#### Reliability of the estimates

13. 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. An indication

of the likely differences is given in the Technical Note, page 12. See also paragraph 7 of the Technical Note regarding non-sampling errors.

#### Related publications

Users may also wish to refer to the following publications which are available on request:

*Weekly Earnings of Employees (Distribution)* (6310.0) – see paragraph 3.

*Average Weekly Earnings, Quarterly, (Preliminary)* – (6301.0), and Final Bulletin – (6302.0).

*Earnings and Hours of Employees, Distribution and Composition (Preliminary)* – (6305.0), and Final Bulletin (6306.0) – sample survey conducted annually in May.

*Earnings and Hours of Employees (Preliminary)* – (6303.0), and Final Bulletin – (6304.0) – sample survey conducted annually in October.

*Income Distribution Part 1, 1973-74* (6502.0), *Part 2* (6503.0) and *Part 3* (6504.0) – sample survey conducted in respect of 1973-74.

*Wage Rates* (6312.0) – monthly.

*The Labour Force* (6203.0) – monthly.

#### Symbols and other usages

- \* Subject to sampling variability too high for most practical uses. See paragraph 13 above.
- .. Not applicable

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

R. J. CAMERON  
Australian Statistician

TABLE 1. ALL EMPLOYEES : WEEKLY EARNINGS IN ALL JOBS AND FULL-TIME OR PART-TIME STATUS, STATES AND TERRITORIES, AUGUST 1978

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia
MALE FULL-TIME EMPLOYEES (a)									
- '000 -									
Weekly earnings (\$) - Under 60	8.4	6.2	5.4	3.6	3.0	*	*	*	27.3
60 and under 80	18.1	15.2	11.4	6.2	6.0	2.8	*	*	60.0
80 " " 100	22.4	15.9	15.4	8.2	8.6	2.7			74.5
100 " " 110	19.2	15.2	9.1	5.4	5.2	2.4	2.1	2.3	57.4
110 " " 120	18.7	17.3	7.9	6.2	4.2	2.7			58.6
120 " " 130	28.5	22.1	14.4	9.0	6.5	3.4			84.6
130 " " 140	36.8	31.4	15.8	10.7	9.5	4.2	2.0		109.4
140 " " 150	44.4	36.2	25.3	16.4	12.9	3.1		2.9	140.8
150 " " 160	70.8	61.8	28.6	22.9	17.6	6.9	*		210.5
160 " " 170	76.6	59.6	33.0	21.3	15.8	6.7	3.0	3.5	215.9
170 " " 180	67.7	58.4	29.3	18.2	14.2	4.6			195.9
180 " " 190	71.7	59.5	26.0	18.7	16.9	7.7	2.7	2.6	204.3
190 " " 200	64.7	51.5	25.3	17.7	15.2	5.8		2.0	183.7
200 " " 210	78.3	55.8	35.5	18.3	18.5	6.4	2.3	3.2	218.4
210 " " 220	55.9	38.4	18.4	11.0	10.9	3.5	2.4	2.6	141.6
220 " " 230	44.1	32.1	14.7	11.0	9.6	3.0		*	117.6
230 " " 240	36.3	26.3	15.5	9.1	10.2	2.9	2.4	2.4	103.7
240 " " 250	34.6	23.3	13.5	7.2	7.2	2.7		*	91.5
250 " " 260	31.7	28.4	14.2	6.8	9.2	3.0	*	2.8	97.7
260 " " 280	48.3	31.0	13.6	9.8	10.4	4.0	2.3	3.9	123.3
280 " " 300	39.1	26.8	12.9	6.7	9.0	2.8	2.1	3.0	101.9
300 " " 320	35.8	24.2	9.5	5.7	7.1	2.7		2.8	88.5
320 " " 340	17.6	14.6	6.6	4.5	5.0	2.1		2.0	51.9
340 " " 360	14.1	12.2	3.9	2.6	3.0			2.1	38.9
360 " " 380	12.2	10.8	4.8		4.1		2.0	3.2	36.9
380 " " 400	11.1	7.3	*	4.6	3.5	2.0			30.7
400 " " 450	13.8	9.5	5.8	3.0	4.4	*		2.6	39.1
450 " " 500	7.0	5.6	*			*	2.1	*	20.1
500 " " 550	6.3	*	3.6	4.4	6.8	*		*	18.9
550 and over	17.5	8.5	7.8			*		*	41.5
<b>Total</b>	<b>1,051.6</b>	<b>809.3</b>	<b>433.7</b>	<b>269.4</b>	<b>254.6</b>	<b>89.7</b>	<b>27.5</b>	<b>49.3</b>	<b>2,985.0</b>
- dollars -									
Median earnings	197	191	188	183	195	186	221	247	193
Mean earnings	214	209	206	197	212	197	241	263	210
MALE PART-TIME EMPLOYEES									
- '000 -									
Weekly earnings (\$) - Under 20	10.5	10.8	5.4	4.5	2.9				36.0
20 and under 40	10.0	6.7					*	*	23.4
40 " " 60	4.7	4.5	6.0	5.1	5.3	1.6			13.8
60 " " 80	*	5.0							12.3
80 " " 100	4.5	*							10.6
100 " " 200	15.1	11.3	6.2	3.6	3.5	1.6	*	*	36.0
200 and over	11.3	7.0							(b) 25.2
<b>Total</b>	<b>59.6</b>	<b>48.0</b>	<b>17.7</b>	<b>13.3</b>	<b>11.7</b>	<b>3.2</b>	<b>*</b>	<b>2.4</b>	<b>157.2</b>
-dollars-									
Median earnings	85	68	54	49	60	100	*	38	69
Mean earnings	111	96	97	76	91	110	*	86	100

For footnotes see next page.

TABLE 1. ALL EMPLOYEES : WEEKLY EARNINGS IN ALL JOBS AND FULL-TIME OR PART-TIME STATUS, STATES AND TERRITORIES, AUGUST 1978 - *continued*

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia	
FEMALE FULL-TIME EMPLOYEES (a)										
- '000 -										
Weekly earnings (\$) -										
Under 60	4.8	5.2	*	*	*	*	*	*	17.5	
60 and under 80	14.4	8.3	12.7	4.9	4.3	1.5	2.4	4.2	47.2	
80 " " 100	27.7	19.5	13.7	9.1	7.3	2.3			80.7	
100 " " 110	24.9	12.7	9.4	5.6	5.8	1.8			60.7	
110 " " 120	22.8	17.8	7.7	6.6	3.1	2.0	2.3	2.1	60.6	
120 " " 130	28.6	28.7	11.0	8.6	6.6	2.4			87.1	
130 " " 140	41.9	38.9	13.0	8.7	6.4	1.8			112.9	
140 " " 150	38.5	30.6	15.8	9.3	8.4	2.4	2.3	2.5	107.9	
150 " " 160	41.5	34.0	16.7	7.6	12.2	3.1			118.1	
160 " " 170	46.9	33.5	15.2	9.9	9.0	2.8			120.3	
170 " " 180	29.3	26.5	8.4	7.1	6.4	2.0	2.6	2.0	82.1	
180 " " 190	27.9	21.6	7.5	6.6	4.6	1.5			3.5	71.9
190 " " 200	23.2	16.7	5.2	3.5	4.8					56.9
200 " " 210	18.0	15.7	6.4	4.4	4.4		53.3			
210 " " 220	12.1	8.8	4.1	3.1	3.9	1.9	*	4.8	34.5	
220 " " 230	9.3	9.5	*	*	2.5				27.4	
230 " " 240	8.3	7.5	3.6	3.1	3.3				23.0	
240 " " 250	5.6	4.5		2.8		15.1				
250 " " 260	5.4	5.4	*	2.8				17.3		
260 " " 280	7.8	6.3	4.2	3.1	*	*	*	2.7	18.5	
280 " " 300	4.9				*	*			11.8	
300 and over	14.3	9.1	5.4	2.9	2.5	*	*		36.2	
Total	458.2	360.9	166.7	110.9	99.4	29.7	8.6	26.7	1,261.0	
- dollars -										
Median earnings	156	156	148	151	155	149	169	179	155	
Mean earnings	164	162	156	160	161	149	177	186	162	
FEMALE PART-TIME EMPLOYEES										
- '000 -										
Weekly earnings (\$) -										
Under 20	15.5	18.4	15.2	7.7	8.4	1.9	*	*	68.3	
20 and under 40	25.2	22.4	12.6	8.5	8.7	2.3	*	4.7	80.9	
40 " " 60	23.5	17.0	12.3	8.0	7.3	3.4			73.3	
60 " " 80	28.3	28.1	13.7	9.1	7.5	3.0			91.7	
80 " " 100	27.6	21.8	6.9	10.9	8.0	3.4			80.1	
100 " " 110	17.5	14.0	5.4	4.9	2.9	4.1	*	4.7	47.2	
110 " " 120	12.1	5.9	*	3.1	4.7				27.1	
120 " " 130	10.1	6.9	4.1	3.5					28.4	
130 " " 140	7.9	*	3.8	*	2.6	4.1	*	4.7	19.9	
140 " " 150	5.6	4.9	4.2	2.8					15.5	
150 " " 160	8.5								15.1	
160 and over	21.9	12.9	6.6	4.5	*				(b)50.7	
Total	203.7	156.4	87.5	65.4	53.0	18.0	3.6	10.6	598.3	
- dollars -										
Median earnings	87	75	65	79	66	70	96	90	77	
Mean earnings	93	80	79	82	70	73	103	100	84	

(a) For definition, see paragraph 9. Some of the full-time employees shown in this table may not have worked, or been paid for, a full week.  
 (b) Since part-time employees are defined as those who usually work less than 35 hours and who did so in the survey week, this figure may include school teachers, academic staff in universities, aircrew, etc.

TABLE 2. ALL EMPLOYEES : WEEKLY EARNINGS IN ALL JOBS AND FULL-TIME OR PART-TIME STATUS, STATES AND TERRITORIES, CUMULATIVE PERCENTAGES, AUGUST 1978  
(Per cent)

<i>Weekly earnings (\$)</i>	<i>N.S.W.</i>	<i>Vic.</i>	<i>Qld</i>	<i>S.A.</i>	<i>W.A.</i>	<i>Tas.</i>	<i>N.T.</i>	<i>A.C.T.</i>	<i>Australia</i>
MALE FULL-TIME EMPLOYEES (a)									
Under 60	0.8	0.8	1.2	1.4	1.2	*	*	*	0.9
" 80	2.5	2.7	3.8	3.7	3.6	3.6	*	*	2.9
" 100	4.6	4.7	7.3	6.7	7.0	6.6	*	*	5.4
" 110	6.4	6.6	9.4	8.7	9.0	9.2	*	*	7.3
" 120	8.2	8.7	11.2	11.0	10.6	12.3	*	*	9.3
" 130	10.9	11.4	14.5	14.4	13.2	16.1	*	*	12.1
" 140	14.4	15.3	18.1	18.4	16.9	20.8	*	*	15.8
" 150	18.6	19.8	23.9	24.5	22.0	24.3	15.7	8.3	20.5
" 160	25.3	27.4	30.5	33.0	28.9	32.0	16.9	11.3	27.6
" 170	32.6	34.8	38.1	40.9	35.1	39.4	22.1	14.3	34.8
" 180	39.0	42.0	44.8	47.6	40.7	44.5	27.8	18.4	41.4
" 190	45.8	49.4	50.8	54.5	47.3	53.1	32.2	23.7	48.2
" 200	51.9	55.8	56.6	61.1	53.3	59.5	37.8	27.7	54.4
" 210	59.3	62.7	64.8	67.9	60.6	66.7	46.2	34.3	61.7
" 220	64.6	67.4	69.0	72.0	64.9	70.6	49.6	39.6	66.4
" 230	68.8	71.4	72.4	76.1	68.7	73.9	55.1	43.0	70.3
" 240	72.2	74.6	76.0	79.5	72.7	77.1	59.1	47.8	73.8
" 250	75.5	77.5	79.1	82.2	75.5	80.1	63.9	51.4	76.9
" 260	78.5	81.0	82.4	84.7	79.1	83.4	69.4	57.0	80.2
" 280	83.1	84.8	85.5	88.3	83.2	87.8	77.6	65.0	84.3
" 300	86.8	88.1	88.5	90.8	86.7	91.0	82.9	71.0	87.7
" 320	90.2	91.1	90.7	92.9	89.5	94.0	85.3	76.7	90.7
" 340	91.9	92.9	92.2	94.6	91.4	95.6	86.4	80.8	92.4
" 360	93.2	94.4	93.1	95.6	92.6	96.4	87.7	85.0	93.7
" 380	94.4	95.7	94.2	96.5	94.2	97.0	89.7	88.1	94.9
" 400	95.5	96.6	95.0	97.3	95.6	97.9	92.6	91.4	95.9
" 450	96.8	97.8	96.3	98.4	97.3	98.6	94.9	94.4	97.2
" 500	97.5	98.5	97.1	98.8	97.9	99.1	95.4	96.6	97.9
" 550	98.1	99.0	97.9	99.2	98.5	99.6	98.0	98.7	98.5
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
MALE PART-TIME EMPLOYEES									
Under 20	17.6	22.6	30.8	34.2	24.9	*	*	*	22.9
" 40	34.4	36.7	40.7	45.6	43.6	*	*	*	37.8
" 60	42.3	46.0	53.8	55.5	50.1	*	*	*	46.6
" 80	48.1	56.3	59.3	62.8	63.2	*	*	*	54.5
" 100	55.7	61.9	65.0	72.9	70.4	50.1	*	*	61.2
" 200	81.1	85.6	83.9	90.5	84.8	86.1	*	*	84.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

(a) See note (a) to Table 1.

TABLE 2. ALL EMPLOYEES : WEEKLY EARNINGS IN ALL JOBS AND FULL-TIME OR PART-TIME STATUS, CUMULATIVE PERCENTAGES, AUGUST 1978 —continued  
(Per cent)

<i>Weekly earnings (\$)</i>	<i>N.S.W.</i>	<i>Vic.</i>	<i>Qld</i>	<i>S.A.</i>	<i>W.A.</i>	<i>Tas.</i>	<i>N.T.</i>	<i>A.C.T.</i>	<i>Australia</i>
FEMALE FULL-TIME EMPLOYEES (a)									
Under 60	1.0	1.5	*	*	*	*	*	*	1.3
” 80	4.1	3.8	9.5	5.7	6.0	8.0	*	*	5.0
” 100	10.1	9.2	17.7	13.9	13.4	15.8	*	*	11.4
” 110	15.5	12.7	23.4	19.0	19.2	21.9	*	*	16.2
” 120	20.5	17.6	28.0	25.0	22.3	28.6	*	*	21.0
” 130	26.8	25.5	34.6	32.8	29.0	36.8	*	*	27.9
” 140	35.9	36.3	42.4	40.7	35.5	42.8	28.1	17.2	36.9
” 150	44.3	44.8	51.9	49.1	44.0	51.0	37.0	25.0	45.5
” 160	53.3	54.2	61.9	56.0	56.2	61.5	43.3	34.2	54.9
” 170	63.5	63.5	71.0	64.9	65.2	70.8	50.6	43.1	64.4
” 180	69.9	70.8	76.0	71.3	71.7	77.5	54.8	50.7	70.9
” 190	76.0	76.8	80.5	77.2	76.4	81.9	63.1	57.3	76.6
” 200	81.1	81.4	83.6	80.4	81.2	86.1	68.9	63.8	81.1
” 210	85.0	85.7	87.4	84.4	85.6	91.1	76.9	72.3	85.3
” 220	87.6	88.2	89.9	87.2	89.6	92.3	87.2	76.8	88.0
” 230	89.6	90.8	91.0	89.3	92.1	94.1	88.5	81.4	90.2
” 240	91.4	92.9	92.0	91.2	93.2	95.1	96.7	86.2	92.0
” 250	92.6	94.2	93.1	92.2	94.3	96.0	96.7	88.3	93.2
” 260	93.8	95.7	94.1	94.7	95.3	97.5	96.7	90.3	94.6
” 280	95.5	96.7	95.6	96.7	96.4	98.2	98.2	93.2	96.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
FEMALE PART-TIME EMPLOYEES									
Under 20	7.6	11.7	17.4	11.8	15.8	10.3	*	*	11.4
” 40	20.0	26.0	31.8	24.8	32.2	23.2	*	*	24.9
” 60	31.5	36.9	45.9	37.0	46.0	41.9	*	*	37.2
” 80	45.4	54.9	61.6	50.9	60.1	58.7	*	*	52.5
” 100	58.9	68.9	69.5	67.6	75.3	77.4	*	55.3	65.9
” 110	67.5	77.9	75.7	75.1	80.8	83.5	63.2	63.3	73.8
” 120	73.4	81.7	78.7	79.9	85.2	87.1	63.2	67.3	78.3
” 130	78.3	86.1	83.4	85.3	89.7	90.6	69.5	72.5	83.0
” 140	82.2	88.8	87.7	88.8	91.7	93.5	69.5	74.7	86.3
” 150	84.9	90.7	90.3	91.9	95.2	94.2	76.9	77.8	88.9
” 160	89.1	91.9	92.5	93.0	96.5	95.7	84.0	85.2	91.4
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

(a) See note (a) to Table 1.

TABLE 3. MEAN WEEKLY EARNINGS IN ALL JOBS : FULL-TIME AND PART-TIME EMPLOYEES,  
STATE CAPITAL CITIES AND OTHER AREAS, AUGUST 1978  
— \$ —

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.
MALES						
<i>Full-time (a)</i>						
Capital city	220	214	209	202	209	207
Other areas	202	192	202	(b)184	218	191
<i>Part-time</i>						
Capital city	108	89	110	77	91	*
Other areas	117	117	85	(b)72	*	77
FEMALES						
<i>Full-time (a)</i>						
Capital city	168	163	158	164	161	152
Other areas	154	159	152	147	157	145
<i>Part-time</i>						
Capital city	98	83	88	84	70	72
Other areas	84	72	70	75	70	74

(a) See note (a) to Table 1. (b) Affected by industrial disputes.

TABLE 4. EMPLOYEES WHO WORKED IN A SECOND JOB : WEEKLY EARNINGS IN MAIN JOB  
AND WEEKLY EARNINGS IN SECOND JOB, AUGUST 1978

	Males				Females			
	Weekly earnings in second job			Mean weekly earnings in second job	Weekly earnings in second job			Mean weekly earnings in second job
	Under \$30	Over \$30	Total		Under \$30	Over \$30	Total	
'000	'000	'000	\$	'000	'000	'000	\$	
Weekly earnings in main job (\$) —								
Under 140	*	7.9	12.0	52	10.3	7.4	17.7	34
140, and under 160	} 5.3 {	} * {	6.6	50	} * {	6.1	10.2	40
160 " " 180			5.9	58				
180 " " 200			6.3	54				
200 " " 220			5.6	54				
220 and over	4.7	10.9	15.6	52				
<b>Total</b>	<b>15.3</b>	<b>36.7</b>	<b>52.0</b>	<b>53</b>	<b>14.4</b>	<b>13.5</b>	<b>27.9</b>	<b>36</b>
— dollars —								
Median earnings in main job	178	185	184	..	73	126	106	..
Mean earnings in main job	185	195	192	..	92	131	111	..

TABLE 5. FULL-TIME EMPLOYEES(a) : WEEKLY EARNINGS IN ALL JOBS AND AGE, AUGUST 1978

	Age group (years)								Total 20 and over	TOTAL
	15 - 19	20 - 24	25 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 and over		
MALES										
- '000 -										
Weekly earnings (\$) - Under 100	113.1	11.3	13.0	8.6	9.4	5.6	*		48.7	161.8
100 and under 110	31.3	8.4	8.2	7.5	*		*		26.2	57.4
110 " " 120	23.3	14.5	7.2		5.0	*	5.5	5.8	35.3	58.6
120 " " 130	23.0	20.6	11.0	9.7	10.0	5.3			61.6	84.6
130 " " 140	20.1	27.1	19.9	14.3	16.8	5.2	5.7		89.2	109.4
140 " " 150	10.6	30.9	32.7	22.5	25.6	9.6	6.7		130.2	140.8
150 " " 160	12.3	47.6	44.6	33.5	41.4	18.8	10.7		198.3	210.5
160 " " 170	6.5	41.4	51.8	38.3	43.1	21.1	12.9	4.6	209.4	215.9
170 " " 180	5.4	36.8	57.4	34.7	34.4	16.3	9.5		190.4	195.9
180 " " 190	*	32.2	60.4	42.1	40.7	16.1	9.5		201.3	204.3
190 " " 200	4.7	26.2	59.4	34.2	37.5	12.2	9.2		179.0	183.7
200 " " 210		30.3	69.3	48.2	43.2	16.2	7.1		216.3	218.4
210 " " 220	5.1	19.0	53.1	32.7	21.4	8.2	5.8		140.4	141.6
220 " " 230		15.9	42.7	27.3	19.3	7.8	7.8		117.0	117.6
230 " " 240		12.0	33.6	22.3	22.6	7.9	*		102.6	103.7
240 " " 250	*	7.2	36.5	21.7	19.0	4.7	*		91.0	91.5
250 " " 260	*	7.6	38.1	23.9	19.0	6.2	5.9	4.6	97.1	97.7
260 " " 280	*	6.9	46.9	30.8	25.4	8.4			122.8	123.3
280 " " 300	*	6.3	33.5	30.5	20.7	7.1	4.6		101.7	101.9
300 " " 320			35.3	26.8	15.0	6.0			88.3	88.5
320 " " 340		5.1	17.3	16.3	10.9	*			51.5	51.9
340 " " 360			13.0	11.5	10.1	*			38.9	38.9
360 " " 380		4.5	12.0	11.3	9.1	4.9	5.7		36.2	36.9
380 " " 400			8.6	10.7	7.4				30.6	30.7
400 " " 450	*		12.4	11.0	9.5	5.6			39.1	39.1
450 " " 500	*	5.8	4.5	6.1	5.5				20.0	20.1
500 and over	*		12.0	16.8	15.0	7.1	*	*	59.8	60.4
<b>Total</b>	<b>262.3</b>	<b>417.5</b>	<b>834.3</b>	<b>593.1</b>	<b>540.2</b>	<b>207.0</b>	<b>114.5</b>	<b>16.0</b>	<b>2,722.7</b>	<b>2,985.0</b>
-dollars-										
Median earnings	106	172	207	211	201	193	184	166	200	193
Mean earnings	113	183	224	236	226	221	209	200	220	210
FEMALES										
- '000 -										
Weekly earnings (\$) - Under 100	110.8	9.7	7.1	8.8	5.1			(b)	34.5	145.3
100 and under 110	36.7	7.8	*	5.9	4.6	5.7			24.0	60.7
110 " " 120	23.5	13.4	6.9	6.4	7.1			4.5	37.0	60.6
120 " " 130	18.5	22.7	13.9	12.6	14.7	7.3			68.6	87.1
130 " " 140	13.3	31.0	21.3	23.1	17.9			4.7	99.6	112.9
140 " " 150	6.0	35.0	19.2	19.9	18.9	6.6			101.9	107.9
150 " " 160	5.4	37.8	23.9	23.7	19.7	5.6			112.7	118.1
160 " " 170		37.9	37.1	16.5	18.3	5.3	5.2		117.4	120.3
170 " " 180	6.1	22.7	26.1	13.8	13.0	*			80.6	82.1
180 " " 190		14.8	25.9	15.0	10.7	5.3			70.2	71.9
190 " " 200		13.2	19.7	10.4	9.2	*			55.8	56.9
200 " " 210	5.0	14.4	18.7	10.1	8.6		5.7		53.1	53.3
210 and over		35.5	69.1	35.8	30.1	6.2			180.1	183.8
<b>Total</b>	<b>225.5</b>	<b>295.9</b>	<b>292.9</b>	<b>202.1</b>	<b>177.8</b>	<b>46.8</b>	<b>20.0</b>		<b>1,035.6</b>	<b>1,261.0</b>
-dollars-										
Median earnings	101	158	175	160	161	157	154		163	155
Mean earnings	107	166	185	173	173	171	164		174	162

(a) For definition, see paragraph 9. Some of the full-time employees shown in this table may not have worked, or been paid for, a full week.  
(b) Aged 60 years and over.



TABLE 6. ALL EMPLOYEES : INDUSTRY AND FREQUENCY OF PAY, AUSTRALIA, AUGUST 1978

Industry	Frequency of pay							
	Weekly		Fortnightly		Monthly		Total (a)	
	'000	Per cent	'000	Per cent	'000	Per cent	'000	Per cent
MALES								
Agriculture, forestry, fishing, etc.	32.4	32.9	27.8	28.2	21.7	22.0	98.5	100.0
Mining and quarrying	34.3	50.3	24.5	35.9	8.5	12.5	68.2	100.0
Manufacturing	655.7	78.2	104.3	12.4	74.9	8.9	838.3	100.0
Electricity, gas and water	54.7	51.6	50.3	47.4	*	*	106.2	100.0
Construction	215.4	68.9	81.9	26.2	11.4	3.6	312.5	100.0
Wholesale and retail trade	455.5	79.5	43.6	7.6	67.1	11.7	572.6	100.0
Transport and storage	99.3	43.6	113.3	49.8	10.0	4.4	227.6	100.0
Communication	*	*	99.4	98.1	*	*	101.3	100.0
Finance, insurance, real estate and business services	51.2	26.0	116.9	59.3	26.0	13.2	197.0	100.0
Public administration and defence (b)	40.1	20.7	151.0	77.8	*	*	193.9	100.0
Community services	41.7	12.9	258.9	79.9	21.2	6.5	324.0	100.0
Entertainment, recreation, restaurants, hotels and personal services	83.5	77.3	14.2	13.2	5.3	4.9	108.0	100.0
<i>Total</i>	<i>1,764.7</i>	<i>56.1</i>	<i>1,086.0</i>	<i>34.5</i>	<i>249.6</i>	<i>7.9</i>	<i>3,148.1</i>	<i>100.0</i>
FEMALES								
Agriculture, forestry, fishing, etc.	7.3	45.1	*	*	*	*	16.2	100.0
Mining and quarrying	*	*	*	*	*	*	4.4	100.0
Manufacturing	270.1	90.8	15.9	5.4	8.5	2.9	297.5	100.0
Electricity, gas and water	*	*	4.6	59.7	*	*	7.7	100.0
Construction	17.5	64.1	6.3	23.3	*	*	27.2	100.0
Wholesale and retail trade	374.4	90.9	20.4	4.9	11.6	2.8	411.9	100.0
Transport and storage	18.9	53.1	14.2	39.9	*	*	35.7	100.0
Communication	*	*	27.7	95.7	*	*	28.9	100.0
Finance, insurance, real estate and business services	83.9	40.6	107.3	52.0	11.1	5.4	206.5	100.0
Public administration and defence (b)	8.2	9.2	78.5	88.5	*	*	88.6	100.0
Community services	81.9	14.7	447.4	80.2	19.7	3.2	558.0	100.0
Entertainment, recreation, restaurants, hotels and personal services	146.8	82.7	18.1	10.2	*	*	177.5	100.0
<i>Total</i>	<i>1,013.5</i>	<i>54.5</i>	<i>746.1</i>	<i>40.1</i>	<i>65.9</i>	<i>3.5</i>	<i>1,860.1</i>	<i>100.0</i>
PERSONS								
Agriculture, forestry, fishing, etc.	39.7	34.6	31.4	27.4	25.4	22.1	114.7	100.0
Mining and quarrying	35.5	48.9	26.6	36.6	9.3	12.8	72.7	100.0
Manufacturing	925.8	81.5	120.2	10.6	83.4	7.3	1,135.8	100.0
Electricity, gas and water	57.9	50.8	54.9	48.2	*	*	113.9	100.0
Construction	232.9	68.6	88.2	26.0	14.0	4.1	339.7	100.0
Wholesale and retail trade	829.9	84.3	64.0	6.5	78.7	8.0	984.5	100.0
Transport and storage	118.2	44.9	127.5	48.4	12.3	4.7	263.3	100.0
Communication	*	*	127.1	97.6	*	*	130.2	100.0
Finance, insurance, real estate and business services	135.1	33.5	224.2	55.6	37.2	9.2	403.5	100.0
Public administration and defence (b)	48.3	17.1	229.4	81.2	*	*	282.6	100.0
Community services	123.6	14.0	706.3	80.1	40.9	4.6	882.0	100.0
Entertainment, recreation, restaurants, hotels and personal services	230.3	80.7	32.3	11.3	8.6	3.0	285.5	100.0
<i>Total</i>	<i>2,778.2</i>	<i>55.5</i>	<i>1,832.1</i>	<i>36.6</i>	<i>315.5</i>	<i>6.3</i>	<i>5,008.3</i>	<i>100.0</i>

(a) Includes 47,800 males (1.5 per cent) and 34,700 females (1.9 per cent) paid at other intervals. (b) Excludes permanent defence forces.

TABLE 7. ALL EMPLOYEES : OCCUPATION AND FREQUENCY OF PAY, AUSTRALIA, AUGUST 1978

Occupation	Frequency of pay							
	Weekly		Fortnightly		Monthly		Total (a)	
	'000	Per cent	'000	Per cent	'000	Per cent	'000	Per cent
MALES								
Professional and technical	63.4	16.1	257.1	65.6	66.4	16.9	391.7	100.0
Administrative, executive and managerial	96.6	41.5	57.8	24.8	76.0	32.7	232.6	100.0
Clerical	86.3	27.9	201.6	65.1	19.4	6.3	309.5	100.0
Sales	139.3	69.5	28.3	14.1	28.8	14.4	200.4	100.0
Farmers, fishermen, timber-getters etc.	51.8	38.9	43.9	32.9	21.0	15.8	133.2	100.0
Transport and communication	114.2	50.1	101.8	44.7	6.1	2.7	227.7	100.0
Tradesmen, production-process workers and labourers n.e.c. (including miners, quarrymen and related workers)	1,119.0	76.1	313.6	21.3	28.4	1.9	1,470.9	100.0
Service, sport and recreation	94.2	51.8	81.9	45.0	*	*	182.1	100.0
<i>Total</i>	<i>1,764.7</i>	<i>56.1</i>	<i>1,086.0</i>	<i>34.5</i>	<i>249.6</i>	<i>7.9</i>	<i>3,148.1</i>	<i>100.0</i>
FEMALES								
Professional and technical	41.9	11.9	287.0	81.2	17.6	5.0	353.5	100.0
Administrative, executive and managerial	15.1	68.7	*	*	*	*	22.0	100.0
Clerical	349.4	53.3	266.8	40.7	30.9	4.7	656.0	100.0
Sales	198.6	93.1	7.1	3.3	*	*	213.3	100.0
Farmers, etc.	6.6	54.8	*	*	*	*	12.1	100.0
Transport and communication	14.9	37.4	22.5	56.3	*	*	39.9	100.0
Tradeswomen, production-process workers and labourers n.e.c.	211.4	94.1	9.4	4.2	*	*	224.7	100.0
Service, sport and recreation	175.5	51.8	147.5	43.6	5.3	1.6	338.6	100.0
<i>Total</i>	<i>1,013.5</i>	<i>54.5</i>	<i>746.1</i>	<i>40.1</i>	<i>65.9</i>	<i>3.5</i>	<i>1,860.1</i>	<i>100.0</i>
PERSONS								
Professional and technical	105.3	14.1	544.0	73.0	84.0	11.3	745.2	100.0
Administrative, executive and managerial	111.7	43.9	61.4	24.1	78.8	31.0	254.6	100.0
Clerical	435.7	45.1	468.4	48.5	50.4	5.2	965.4	100.0
Sales	337.9	81.7	35.4	8.5	32.0	7.7	413.7	100.0
Farmers, fishermen, timber-getters etc.	58.4	40.2	46.2	31.8	22.9	15.7	145.3	100.0
Transport and communication	129.1	48.2	124.3	46.5	8.4	3.1	267.6	100.0
Tradesmen, production-process workers and labourers n.e.c. (including miners, quarrymen and related workers)	1,330.4	78.5	322.9	19.0	30.2	1.8	1,695.7	100.0
Service, sport and recreation	269.7	51.8	229.5	44.1	8.9	1.7	520.7	100.0
<i>Total</i>	<i>2,778.2</i>	<i>55.5</i>	<i>1,832.1</i>	<i>36.6</i>	<i>315.5</i>	<i>6.3</i>	<i>5,008.3</i>	<i>100.0</i>

(a) Includes 47,800 males (1.5 per cent) and 34,700 females (1.9 per cent) paid at other intervals.

TABLE 8. ALL EMPLOYEES : FREQUENCY OF PAY, AUGUST 1978

State or Territory	Frequency of pay							
	Weekly		Fortnightly		Monthly		Total (a)	
	'000	Per cent	'000	Per cent	'000	Per cent	'000	Per cent
MALES								
New South Wales	648.7	58.3	354.4	31.8	93.8	8.4	1,113.1	100.0
Victoria	524.9	61.1	248.0	28.9	74.3	8.6	858.6	100.0
Queensland	248.4	54.9	160.7	35.5	34.7	7.7	452.8	100.0
South Australia	143.2	50.5	119.5	42.2	17.3	6.1	283.4	100.0
Western Australia	132.1	49.6	107.8	40.4	20.9	7.8	266.5	100.0
Tasmania	39.7	42.7	46.3	49.8	6.0	6.4	93.0	100.0
Northern Territory	12.2	42.0	15.7	54.0	*	*	29.1	100.0
Australian Capital Territory	15.5	30.0	33.6	65.1	*	*	51.7	100.0
<i>Australia</i>	<i>1,764.7</i>	<i>56.1</i>	<i>1,086.0</i>	<i>34.5</i>	<i>249.6</i>	<i>7.9</i>	<i>3,148.1</i>	<i>100.0</i>
FEMALES								
New South Wales	386.6	58.4	244.5	36.9	21.6	3.3	662.5	100.0
Victoria	303.5	58.7	180.4	34.9	21.5	4.2	517.3	100.0
Queensland	130.9	51.5	109.2	43.0	8.8	3.5	254.2	100.0
South Australia	84.6	48.0	82.7	46.9	5.8	3.3	176.3	100.0
Western Australia	72.2	47.3	72.8	47.7	4.7	3.1	152.6	100.0
Tasmania	20.9	43.7	23.9	50.1	2.2	4.6	47.7	100.0
Northern Territory	5.0	40.6	6.9	56.3	*	*	12.2	100.0
Australian Capital Territory	9.8	26.3	25.7	68.9	*	*	37.3	100.0
<i>Australia</i>	<i>1,013.5</i>	<i>54.5</i>	<i>746.1</i>	<i>40.1</i>	<i>65.9</i>	<i>3.5</i>	<i>1,860.1</i>	<i>100.0</i>
PERSONS								
New South Wales	1,035.4	58.3	598.9	33.7	115.4	6.5	1,775.6	100.0
Victoria	828.4	60.2	428.4	31.1	95.7	7.0	1,375.9	100.0
Queensland	379.3	53.7	269.9	38.2	43.5	6.2	706.9	100.0
South Australia	227.8	49.5	202.2	44.0	23.1	5.0	459.8	100.0
Western Australia	204.3	48.7	180.5	43.1	25.6	6.1	419.0	100.0
Tasmania	60.6	43.0	70.2	50.0	8.2	5.8	140.8	100.0
Northern Territory	17.2	41.6	22.6	54.7	*	*	41.3	100.0
Australian Capital Territory	25.3	28.5	59.3	66.7	2.8	3.1	89.0	100.0
<i>Australia</i>	<i>2,778.2</i>	<i>55.5</i>	<i>1,832.1</i>	<i>36.6</i>	<i>315.5</i>	<i>6.3</i>	<i>5,008.3</i>	<i>100.0</i>

(a) Includes 47,800 males and 34,700 females paid at other intervals.

## TECHNICAL NOTE

**Estimation procedure**

The 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**

2. Since the estimates in this publication are based on information obtained from occupants of a sample of dwellings they 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 survey. 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.

3. Space does not allow for the separate indication of the standard errors of all estimates in this bulletin. A table of standard errors for general application is given below. 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 labour force surveys over a wide range of labour force characteristics. However, they will provide an indication of the magnitude of the standard error. An example of the calculation and use of standard errors is as follows:

The estimated number of male full-time employees in the weekly earnings range \$280-300 in Australia is 101,900. From the table below it will be seen that the estimate has a standard error of about 3,900 and therefore there are about two chances in three that the value that would have been produced if all dwellings had been included in the survey will fall within the range 98,000 to 105,800 and about nineteen chances in twenty that the value will fall within the range 94,100 to 109,700.

4. 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 numerator can be obtained from the table below.

5. Means and medians published in this bulletin are also subject to sampling variability. Standard errors vary depending on the size and distribution of the population for which the mean or median has been obtained. Standard errors on means in this publication could generally be expected to be below 7% and for medians below 8%. For populations of 100,000 the standard errors of the mean and median would both be about 1.5%.

6. As the standard errors in the table below 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 less than the lowest levels shown in the table below 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.

7. 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.

## STANDARD ERRORS OF ESTIMATES

Size of estimate	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia	
									Per cent of estimate	
- number -										
1,500						300				
2,000						340	470	440		
2,500				510	510	380	510	480		
3,000				550	560	410	550	510		
3,500			740	590	590	430	590	540		
4,000			780	620	630	460	620	560		
4,500	1,000	1,000	820	650	660	480	650	590	970	21.6
5,000	1,100	1,100	860	680	690	500	680	610	1,000	20.0
6,000	1,200	1,200	930	730	750	530	740	650	1,100	18.0
10,000	1,500	1,400	1,200	900	920	640	910	750	1,400	14.0
20,000	2,000	1,900	1,500	1,200	1,200	810	1,200	910	2,000	10.0
50,000	3,000	2,700	2,200	1,600	1,700	1,100	1,700	1,100	2,900	5.8
100,000	3,900	3,500	2,800	2,100	2,100	1,300		1,300	3,900	3.9
200,000	5,000	4,400	3,600	2,600	2,600	1,500			5,100	2.6
300,000	5,800	5,000	4,100	2,900	2,900				6,000	2.0
500,000	6,900	5,800	4,800	3,300	3,300				7,200	1.4
1,000,000	8,500	7,000	5,900						9,100	0.9
2,000,000	10,000	8,400							11,000	0.6
5,000,000									15,000	0.3