



APRIL 2007

6281.0

# **WORK IN SELECTED CULTURE AND LEISURE ACTIVITIES** AUSTRALIA

EMBARGO: 11.30AM (CANBERRA TIME) WED 19 DEC 2007

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## **I N Q U I R I E S**

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070.

# NOTES

## ABOUT THIS PUBLICATION

This publication presents results from the Survey of Work in Selected Culture and Leisure Activities, conducted in April 2007. It presents information on the number and basic demographic characteristics of persons involved in paid or unpaid work in selected culture and leisure activities over a 12 month period.

Information about hobby activities is included only in Table 12. All other information in this publication relates to persons involved in culture and leisure activities for other than their own, family's or friends' use.

## ABOUT THIS SURVEY

The 2007 Survey of Work in Selected Culture and Leisure Activities was conducted throughout Australia as part of the Australian Bureau of Statistics' (ABS) Monthly Population Survey (MPS). The survey was previously conducted in 1993, 1997, 2001 and 2004.

Data from those years are included in some tables for comparative purposes. The survey collected information on the types of activities undertaken, the time spent on activities, whether any payment was received, the amount of payment received, and whether those activities were part of the person's main job. The survey also asked about relevant qualifications for selected culture and leisure activities. For a list of the culture and leisure activities included in the survey, refer to the Glossary.

Unless otherwise specified, differences between data items highlighted in the Summary of Findings are statistically significant. See Technical Note (paragraphs 15 to 17) for further details.

## ROUNDING

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



## ABBREVIATIONS

ABS Australian Bureau of Statistics  
CAI computer assisted interviewing  
LFS Labour Force Survey (Australia)  
MPS Monthly Population Survey  
RSE relative standard error  
SE standard error

Brian Pink  
Australian Statistician

## SUMMARY OF FINDINGS

### INTRODUCTION

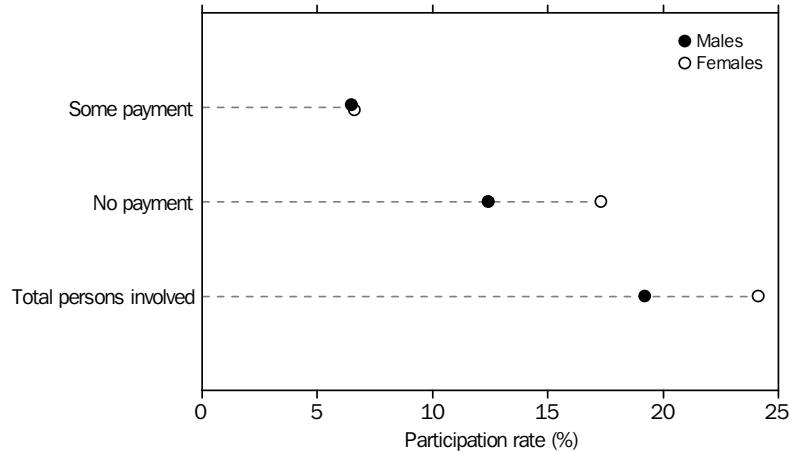
During the 12 months prior to April 2007, an estimated 3.5 million (22%) of Australians aged 15 years and over were involved in some form of paid or unpaid work relating to the selected culture and leisure activities covered in the survey. (Table 1) The overall participation rate for persons involved in culture and leisure activities increased from 17% in 2004 to 22% in 2007. (Table 14) Since 2001 the number of persons involved in culture and leisure activities increased by 52% from 2.3 million. (Table 13) Persons undertaking hobby activities for their own, family's or friends' use, or who only attended culture and leisure events, are not included in these figures.

### CHARACTERISTICS OF PERSONS INVOLVED

#### Sex

Overall, while a higher percentage of females (24%) than males (19%) aged 15 years and over worked in a culture or leisure field, the participation rates for paid involvement were similar for males and females (7%). Females had a higher rate of unpaid involvement than males, with 17% of females (1.4 million) having unpaid involvement only, compared with 12% of males (1 million). (Table 2)

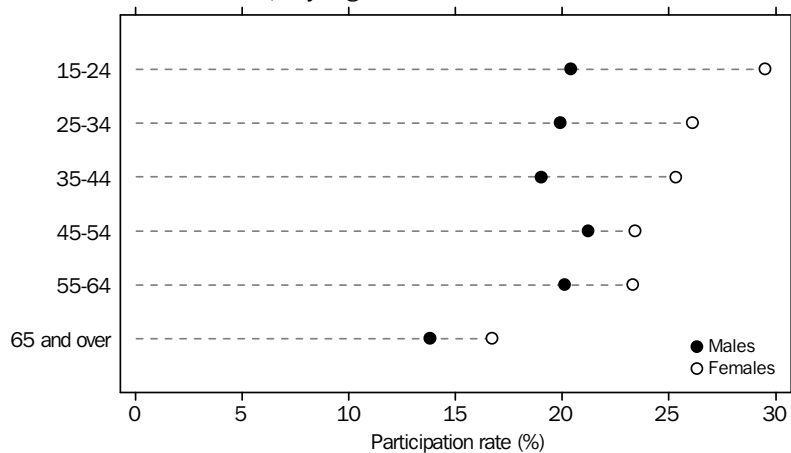
PARTICIPATION RATE, By sex



#### Age

Involvement in culture and leisure activities was lowest in the oldest age group, with 15% of those aged 65 years and over participating. In comparison, the participation rate for those aged 15 to 24 years was 25%, and for those aged 25 to 34 years was 23%. (Table 2)

PARTICIPATION RATE, By age



## SUMMARY OF FINDINGS *continued*

### *Age continued*

The proportion of people with paid involvement in culture and leisure activities was highest for those aged 25 to 34 years (9%), 35 to 44 years (8%) and 45 to 54 years (8%). Unpaid involvement only was highest for persons aged 15 to 24 years (19%). (Table 2)

### *Birthplace*

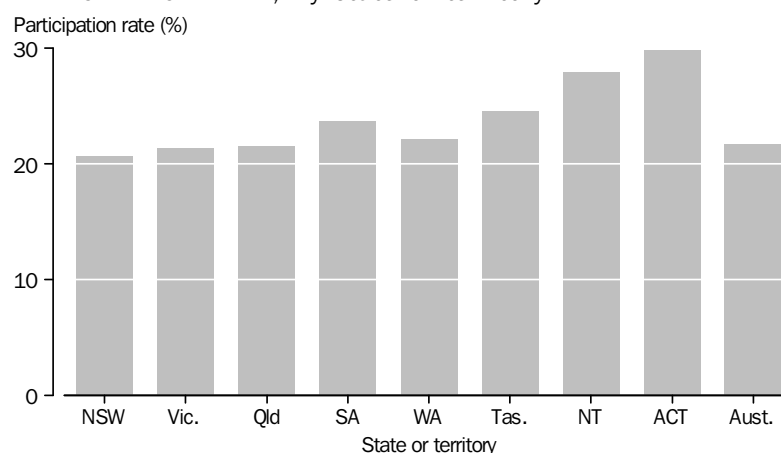
Persons born in Australia had a participation rate of 23%, compared with 18% for persons born overseas. Persons born overseas in main English speaking countries had a similar rate (25%) to that for those born in Australia, while those born overseas from other than main English speaking countries had a participation rate of 14%. Of those born in Australia, 7% received some payment for working in a culture or leisure activity, compared with 5% for those born overseas. (Table 2)

### *Geographic location*

The participation rates for the states and territories ranged from 21% for New South Wales to 30% for the Australian Capital Territory. (Table 1)

The participation rate for residents in the state capital cities (21%) was similar to that for residents outside the state capital cities (22%). However, there was a difference in rates for paid and unpaid involvement, with 7% of persons in the state capital cities reporting a paid involvement compared with 5% for those outside the state capital cities. Persons outside the state capital cities had a higher rate of unpaid only involvement – 17% compared with 14% for persons in the state capital cities. (Table 2)

### PARTICIPATION RATE, By state or territory



The participation rate increased since 2004 for all the states and territories except the Australian Capital Territory. The largest increase was observed in the Northern Territory (57%) followed by Tasmania (37%). (Table 14)

### *Labour force status*

Of persons who were employed in the week prior to interview, 24% (or 2.5 million persons) were involved in a culture or leisure activity at some time during the 12 months prior to interview. Unemployed persons and those not in the labour force had participation rates of 21% (100,700 persons) and 17% (928,200 persons), respectively. Persons employed part-time (28%) had a higher participation rate than persons employed full-time (23%). (Table 2)

### TYPE OF ACTIVITIES

Information was collected for a variety of culture and leisure activities in this survey (see the Glossary for a full list of activities).

## SUMMARY OF FINDINGS *continued*

### TYPE OF ACTIVITIES

*continued*

Some 1.4 million persons had an involvement in visual art activities in the previous 12 months. This represents an increase of 79% from 2004 when there were 789,900 persons reporting an involvement in visual art activities. (Table 13)

In 2007, large numbers of persons reported involvement in the following visual art activities:

- 638,600 in photography (300,100 in 2004)
- 558,000 in drawing (288,700 in 2004)
- 552,500 in creating artworks with a computer (286,300 in 2004)
- 463,000 in painting (262,400 in 2004). (Table 13)

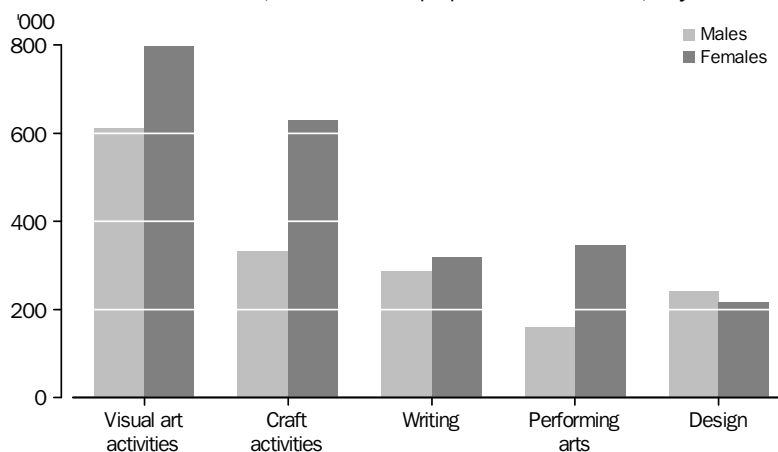
In 2007, there were 960,800 persons (or 27% of all persons involved) who had an involvement in craft activities. In comparison, there were 542,700 persons (or 20% of all persons involved) who reported an involvement in craft activities in 2004. The craft activities attracting large numbers of participants in 2007 were furniture-making and wood crafts (316,800 persons, up from 204,500 in 2004) and textiles (282,400 persons, up from 144,300 in 2004). (Table 13)

Other activities with large numbers of persons involved in 2007 were:

- 506,300 in performing arts, an increase of 19% from 2004
- 459,200 in design, an increase of 24% from 2004
- 409,800 in festival organising, an increase of 62% from 2004
- 335,100 in music, with no statistically significant change from 2004
- 606,500 in writing, with no statistically significant change from 2004. (Table 13)

Patterns of involvement in particular culture and leisure activities were quite different for males and females. During 2007, there were more males than females involved in furniture-making and wood crafts (266,000 males compared with 50,800 females), designing websites (165,000 and 89,200), and designing computer games and other interactive software (62,600 and 12,800). Females outnumbered males by more than two to one for the activities of art and craft show organising (149,600 females compared with 50,300 males), performing arts (345,000 and 161,200), painting (335,300 and 127,700) and library and archive involvements (78,200 and 30,300). A noticeably higher number of females than males were also involved in craft activities (628,800 females compared with 332,100 males) and cultural teaching activities (154,800 and 101,900), which excludes primary and secondary school teaching. (Table 3)

PERSONS INVOLVED, In 5 most popular activities, By sex



## SUMMARY OF FINDINGS *continued*

### NATURE OF INVOLVEMENT

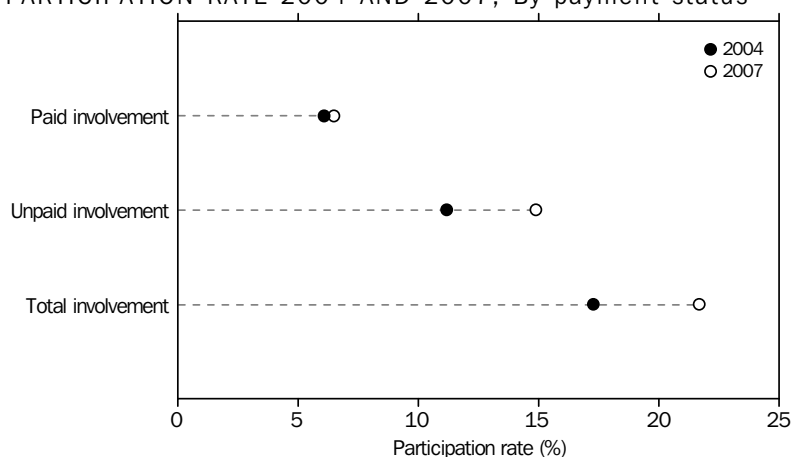
#### *Payment status*

More people had some paid involvement in visual art activities (281,900), design (279,800) and writing (240,700) than any other culture or leisure activity in the survey (note: paid involvement also includes persons who received goods and services as payment). Cinema and video distribution (64%) was among the activities with the highest proportion of persons involved receiving payment, along with zoos and aquaria (62%), design (61%), and television (56%). (Table 4)

Of the 1.1 million persons who received some payment, 39% were paid less than \$5,000 over the year, 26% were paid between \$5,000 and \$39,999 and 24% were paid \$40,000 or more. (Table 8)

The proportion of people being paid for their involvement has decreased from 35% in 2004 to 30% in 2007. (Table 14)

PARTICIPATION RATE 2004 AND 2007, By payment status



#### *Duration of activities*

Most people involved in culture and leisure activities had only a short-term involvement (up to 13 weeks of the year) or were involved for less than 10 hours per week over the 12 month period. For all activities except architecture, the majority of persons were involved for less than 10 hours per week. The activities with the highest proportion of persons involved for less than 10 hours per week were photography (91%), jewellery making (88%), painting (87%), and drawing (87%). (Table 9)

The activities that were most likely to be short-term were festival organising (81%), art and craft show organising (81%), national parks and reserves (72%) and television (72%). Architecture was one activity which tended to have involvements of a longer duration. Around 67% of persons involved in architecture did so for 10 hours or more per week and 69% of persons involved in architecture did so for more than 13 weeks of the year. (Table 9)

#### *Income from activities*

Annual income from culture and leisure activities was reasonably low because most people involved in culture and leisure activities had only a short-term or part-time involvement. For example, of the 118,800 persons with paid involvement in music, almost two-thirds (74,600 or 63%) received an annual income from this activity of less than \$5,000. Conversely, 22,500 (63%) persons received an annual income of \$5,000 or more from their paid involvement in libraries and archives. (Table 7)

## SUMMARY OF FINDINGS *continued*

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### *Involvement as part of main job*

Of the 1.1 million persons who received some payment for their involvement in culture and leisure activities, 66% (701,800 persons) stated their involvement was part of their main job they held last week. The activities with the highest proportion of persons where the activity was part of their main job held last week, were museums (8,400 persons or 86%), pottery and ceramics (14,400 or 85%), designing computer games and other interactive software (33,500 or 84%) and print-making (21,800 or 84%). (Table 6)

### QUALIFICATIONS

People involved in selected activities (visual art, craft, writing, publishing, performing arts, music, designing websites, designing computer games and design) were asked whether they had qualifications relevant to these activities. Of the 3.1 million persons involved in these activities, 30% had relevant qualifications. The most commonly reported areas where persons had relevant qualifications were design (185,800) and writing (150,200), while fewer persons had relevant qualifications for activities such as glass crafts (8,800) and pottery and ceramics (20,200). Higher proportions of persons who had relevant qualifications were paid for their involvement (53%) than those without relevant qualifications (22%). (Table 11)

### HOBBIES

Activities which were undertaken solely for the person's own use or for the use of their family or friends were classified as hobby activities. For this survey, data on hobby activities were only collected for art and craft, writing and music.

Around 2.0 million persons had a work involvement in arts and crafts, 606,500 had a work involvement in writing, and 335,100 in music. These figures include persons with both a work and hobby activity involvement. In addition, there were 2.1 million persons who were involved in art and craft as a hobby activity only, 356,900 persons were involved in writing as a hobby activity only, and 265,000 persons were involved in music as a hobby activity only. (Table 12)

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## PERSONS, Involvement and payment status by state or territory(a)

	Some paid involvement(b)	Unpaid involvement only	Total persons involved(c)	Persons with no involvement	Total persons	Participation rate
	'000	'000	'000	'000	'000	%
MALES						
New South Wales	166.4	325.7	497.9	2 181.7	2 679.7	18.6
Victoria	134.1	242.5	382.4	1 630.7	2 013.1	19.0
Queensland	102.3	188.8	296.1	1 276.7	1 572.8	18.8
South Australia	36.3	88.1	127.1	483.8	610.9	20.8
Western Australia	51.6	95.3	150.3	644.6	794.9	18.9
Tasmania	9.4	32.8	42.6	146.4	189.0	22.5
Northern Territory(d)	*6.3	8.0	14.3	44.2	58.5	24.4
Australian Capital Territory	12.9	19.2	32.5	92.9	125.4	25.9
<b>Australia</b>	<b>519.3</b>	<b>1 000.4</b>	<b>1 543.1</b>	<b>6 501.1</b>	<b>8 044.2</b>	<b>19.2</b>
FEMALES						
New South Wales	177.1	442.6	624.3	2 129.3	2 753.6	22.7
Victoria	144.7	344.5	494.9	1 593.6	2 088.5	23.7
Queensland	103.0	277.5	383.9	1 210.0	1 594.0	24.1
South Australia	38.9	126.3	167.3	462.4	629.7	26.6
Western Australia	48.5	154.3	203.6	600.9	804.6	25.3
Tasmania	10.7	41.4	52.3	144.4	196.7	26.6
Northern Territory(d)	6.6	10.9	17.5	38.0	55.5	31.5
Australian Capital Territory	13.3	30.6	44.0	87.6	131.6	33.5
<b>Australia</b>	<b>542.8</b>	<b>1 428.2</b>	<b>1 987.9</b>	<b>6 266.4</b>	<b>8 254.3</b>	<b>24.1</b>
PERSONS						
New South Wales	343.5	768.3	1 122.2	4 311.1	5 433.3	20.7
Victoria	278.8	587.1	877.3	3 224.3	4 101.6	21.4
Queensland	205.3	466.4	680.1	2 486.7	3 166.8	21.5
South Australia	75.3	214.4	294.3	946.2	1 240.5	23.7
Western Australia	100.0	249.6	353.9	1 245.5	1 599.4	22.1
Tasmania	20.1	74.2	94.9	290.8	385.7	24.6
Northern Territory(d)	12.9	18.9	31.8	82.2	114.0	27.9
Australian Capital Territory	26.2	49.8	76.5	180.5	257.0	29.8
<b>Australia</b>	<b>1 062.1</b>	<b>2 428.6</b>	<b>3 531.0</b>	<b>12 767.4</b>	<b>16 298.5</b>	<b>21.7</b>

\* estimate has a relative standard error of 25% to 50% and should be used with caution

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Includes persons who only received goods or services as payment. Of the 1,062,100 people who received some payment, 61,600 (6%) only received goods or services as payment.

(c) Includes persons who did not state whether involvement was paid.

(d) Refers to mainly urban areas only. See paragraph 5 in the Explanatory Notes.

## PERSONS INVOLVED(a), Selected characteristics by payment status and sex

	SOME PAID INVOLVEMENT(b)		UNPAID INVOLVEMENT ONLY		TOTAL PERSONS INVOLVED(c)	
	Number	Participation rate	Number	Participation rate	Number	Participation rate
	'000	%	'000	%	'000	%
MALES						
Age group (years)						
15-24	66.7	4.7	224.3	15.7	291.2	20.4
25-34	123.8	8.9	146.4	10.5	278.4	19.9
35-44	118.8	8.0	159.3	10.8	281.4	19.0
45-54	118.4	8.5	174.5	12.5	296.3	21.2
55-64	75.2	6.6	149.3	13.0	230.1	20.1
65 and over	16.4	1.4	146.6	12.2	165.8	13.8
Country of birth						
Australia	379.6	6.7	741.9	13.0	1 138.7	20.0
Overseas						
Main English speaking countries(d)	75.8	8.8	122.2	14.1	201.9	23.4
Other than main English speaking countries	63.9	4.3	136.4	9.2	202.5	13.6
Total overseas	139.7	5.9	258.5	11.0	404.4	17.2
Area of usual residence						
State Capital City	359.7	7.2	596.7	11.9	971.5	19.4
Rest of Australia	159.6	5.3	403.7	13.3	571.6	18.9
Labour force status						
Employed full-time	410.3	8.5	556.1	11.5	981.6	20.3
Employed part-time	64.3	7.4	143.3	16.4	210.2	24.1
Total employed	474.6	8.3	699.4	12.3	1 191.8	20.9
Unemployed	*10.9	*4.7	32.6	14.0	44.5	19.1
Not in the labour force	33.8	1.6	268.4	12.8	306.8	14.6
Total	519.3	6.5	1 000.4	12.4	1 543.1	19.2
FEMALES						
Age group (years)						
15-24	96.0	7.0	308.1	22.4	404.9	29.5
25-34	129.8	9.3	230.9	16.5	365.8	26.1
35-44	127.0	8.4	254.1	16.8	382.8	25.3
45-54	112.1	7.8	218.9	15.3	334.7	23.4
55-64	59.8	5.2	205.3	17.8	268.3	23.3
65 and over	18.0	1.3	210.9	15.2	231.4	16.7
Country of birth						
Australia	427.3	7.2	1 111.6	18.8	1 552.4	26.2
Overseas						
Main English speaking countries(d)	63.0	7.4	158.3	18.6	223.8	26.2
Other than main English speaking countries	52.5	3.5	158.2	10.6	211.7	14.2
Total overseas	115.5	4.9	316.6	13.5	435.5	18.6
Area of usual residence						
State Capital City	377.9	7.3	813.6	15.7	1 202.8	23.2
Rest of Australia	164.9	5.4	614.6	20.0	785.1	25.5
Labour force status						
Employed full-time	277.8	11.1	405.6	16.2	687.5	27.5
Employed part-time	197.4	9.2	421.0	19.7	622.7	29.1
Total employed	475.2	10.2	826.6	17.8	1 310.2	28.3
Unemployed	*10.1	*4.1	46.1	18.5	56.3	22.6
Not in the labour force	57.5	1.7	555.5	16.5	621.4	18.5
Total	542.8	6.6	1 428.2	17.3	1 987.9	24.1

\* estimate has a relative standard error of 25% to 50% and should be used with caution

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Includes persons who only received goods or services as payment. Of the 1,062,100 people who received some payment, 61,600 (6%) only received goods or services as payment.

(c) Includes persons who did not state whether involvement was paid.

(d) For further information refer to the Glossary for main English speaking countries.

	SOME PAID INVOLVEMENT(b)		UNPAID INVOLVEMENT ONLY		TOTAL PERSONS INVOLVED(c)	
	Number	Participation rate	Number	Participation rate	Number	Participation rate
	'000	%	'000	%	'000	%
PERSONS						
Age group (years)						
15-24	162.7	5.8	532.4	19.0	696.1	24.9
25-34	253.6	9.1	377.3	13.5	644.2	23.0
35-44	245.8	8.2	413.4	13.8	664.2	22.2
45-54	230.5	8.1	393.5	13.9	630.9	22.3
55-64	135.0	5.9	354.6	15.4	498.3	21.7
65 and over	34.4	1.3	357.5	13.8	397.2	15.4
Country of birth						
Australia	806.9	7.0	1 853.5	16.0	2 691.1	23.2
Overseas						
Main English speaking countries(d)	138.8	8.1	280.5	16.3	425.7	24.8
Other than main English speaking countries	116.3	3.9	294.6	9.9	414.2	13.9
Total overseas	255.1	5.4	575.1	12.3	840.0	17.9
Area of usual residence						
State Capital City	737.6	7.2	1 410.4	13.8	2 174.2	21.3
Rest of Australia	324.4	5.3	1 018.2	16.7	1 356.8	22.2
Labour force status						
Employed full-time	688.1	9.4	961.7	13.1	1 669.2	22.8
Employed part-time	261.6	8.7	564.3	18.7	832.9	27.6
Total employed	949.8	9.2	1 526.0	14.8	2 502.0	24.2
Unemployed	21.0	4.4	78.7	16.3	100.7	20.9
Not in the labour force	91.3	1.7	823.9	15.1	928.2	17.0
<b>Total</b>	<b>1 062.1</b>	<b>6.5</b>	<b>2 428.6</b>	<b>14.9</b>	<b>3 531.0</b>	<b>21.7</b>

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Includes persons who only received goods or services as payment. Of the 1,062,100 people who received some payment, 61,600 (6%) only received goods or services as payment.

(c) Includes persons who did not state whether involvement was paid.

(d) For further information refer to the Glossary for main English speaking countries.

## PERSONS INVOLVED(a), Type of activity by sex

	Males	Females	Persons
	'000	'000	'000
.....			
Heritage			
Museums	29.1	28.9	57.9
Public art galleries	22.8	26.4	49.2
Libraries and archives	30.3	78.2	108.5
Heritage organisations	47.9	48.1	96.0
Botanic gardens	13.5	14.6	28.2
National parks and reserves	58.7	36.2	94.9
Zoos and aquaria	*7.5	*5.6	13.1
<i>Total heritage(b)</i>	169.5	201.5	371.0
Arts			
Visual art activities			
Drawing	223.4	334.6	558.0
Painting	127.7	335.3	463.0
Sculpture	36.9	57.3	94.1
Photography	305.9	332.7	638.6
Print-making	38.0	58.8	96.7
Creating artworks with a computer	261.6	290.9	552.5
Other visual art activities	23.2	23.5	46.7
<i>Total visual art activities(b)</i>	612.1	799.7	1 411.7
Craft activities			
Pottery and ceramics	18.4	63.1	81.5
Textiles	17.3	265.1	282.4
Jewellery making	20.2	172.7	192.9
Furniture-making and wood crafts	266.0	50.8	316.8
Glass crafts	*7.1	27.0	34.1
Other craft activities	40.2	220.3	260.4
<i>Total craft activities(b)</i>	332.1	628.8	960.8
Writing	287.1	319.4	606.5
Publishing	83.4	125.1	208.4
Performing arts			
Performer	92.7	190.3	283.0
No involvement as performer	68.5	154.8	223.3
<i>Total performing arts</i>	161.2	345.0	506.3
Music			
Live performer	134.1	118.5	252.5
No involvement as live performer	39.7	42.9	82.6
<i>Total music</i>	173.8	161.3	335.1
Radio	65.0	40.9	105.9
Television	44.1	33.3	77.4
Film production	54.5	46.5	101.0
Cinema and video distribution	17.9	14.7	32.5
Designing websites	165.0	89.2	254.3
Designing computer games and other interactive software	62.6	*12.8	75.4
Design	242.3	217.0	459.2
Teaching	101.9	154.8	256.7
Festival organising	177.8	232.0	409.8
Art and craft show organising	50.3	149.6	200.0
Government arts departments and agencies	*17.4	23.7	41.1
<i>Total arts(b)</i>	1 467.7	1 919.0	3 386.7
<b>Total(b)</b>	<b>1 543.1</b>	<b>1 987.9</b>	<b>3 531.0</b>

\* estimate has a relative standard error of 25% to 50% and should be used with caution

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Components may not add to totals as some persons were involved in more than one activity.

## PERSONS INVOLVED(a), Type of activity by payment status

	Some paid involvement(b)	Unpaid involvement only	Total persons involved(c)	Percentage with some paid involvement
	'000	'000	'000	%
<b>Heritage</b>				
Museums	*9.8	48.1	57.9	*16.9
Public art galleries	14.9	34.3	49.2	30.3
Libraries and archives	35.9	72.6	108.5	33.1
Heritage organisations	*9.8	85.8	96.0	*10.3
Botanic gardens	*9.4	18.0	28.2	33.4
National parks and reserves	13.3	81.6	94.9	14.0
Zoos and aquaria	*8.1	*5.0	13.1	61.7
<i>Total heritage(d)</i>	83.7	287.3	371.0	22.6
<b>Arts</b>				
<b>Visual art activities</b>				
Drawing	92.1	458.5	558.0	16.5
Painting	58.3	396.2	463.0	12.6
Sculpture	17.9	74.5	94.1	19.1
Photography	86.6	545.4	638.6	13.6
Print-making	26.1	69.2	96.7	27.0
Creating artworks with a computer	137.1	411.5	552.5	24.8
Other visual art activities	18.0	26.2	46.7	38.5
<i>Total visual art activities(d)</i>	281.9	1 116.6	1 411.7	20.0
<b>Craft activities</b>				
Pottery and ceramics	17.0	62.9	81.5	20.9
Textiles	40.2	240.1	282.4	14.2
Jewellery making	32.6	157.1	192.9	16.9
Furniture-making and wood crafts	51.6	262.8	316.8	16.3
Glass crafts	*7.9	26.2	34.1	*23.3
Other craft activities	25.1	234.0	260.4	9.6
<i>Total craft activities(d)</i>	139.1	813.9	960.8	14.5
Writing	240.7	342.4	606.5	39.7
Publishing	106.1	92.9	208.4	50.9
<b>Performing arts</b>				
Performer	38.9	238.7	283.0	13.7
No involvement as performer	37.9	183.4	223.3	17.0
<i>Total performing arts</i>	76.8	422.1	506.3	15.2
<b>Music</b>				
Live performer	90.6	159.1	252.5	35.9
No involvement as live performer	28.3	50.8	82.6	34.3
<i>Total music</i>	118.8	209.9	335.1	35.5
Radio	24.8	80.6	105.9	23.4
Television	43.4	33.6	77.4	56.2
Film production	34.6	64.9	101.0	34.3
Cinema and video distribution	20.9	11.7	32.5	64.2
Designing websites	112.4	136.2	254.3	44.2
Designing computer games and other interactive software	39.8	33.9	75.4	52.7
Design	279.8	175.9	459.2	60.9
Teaching	111.3	142.7	256.7	43.4
Festival organising	83.4	324.2	409.8	20.3
Art and craft show organising	35.9	163.7	200.0	17.9
Government arts departments and agencies	19.9	20.7	41.1	48.4
<i>Total arts(d)</i>	1 016.4	2 329.5	3 386.7	30.0
<b>Total(d)</b>	<b>1 062.1</b>	<b>2 428.6</b>	<b>3 531.0</b>	<b>30.1</b>

\* estimate has a relative standard error of 25% to 50% and should be used with caution

(a) Involvement is for the 12 months prior to interview in April 2007.

(b) Includes persons who only received goods or services as payment. Of the 1,062,100 people who received some payment, 61,600 (6%) only received goods or services as payment.

(c) Includes persons who did not state whether involvement was paid.

(d) Components may not add to totals as some persons were involved in more than one activity.

## PERSONS INVOLVED(a), Type of activity by state or territory

	NSW	Vic.	Qld	SA	WA	Tas.	NT(b)	ACT	Aust.
NUMBER ('000)									
<b>Heritage</b>									
Museums	16.4	8.7	*11.0	8.9	8.3	*3.0	np	np	57.9
Public art galleries	*13.0	16.9	*11.3	*3.1	*3.2	*0.6	**0.5	*0.7	49.2
Libraries and archives	29.4	20.3	23.6	12.1	15.3	*3.7	*1.7	*2.3	108.5
Heritage organisations	26.4	21.8	17.7	11.8	12.6	3.5	np	np	96.0
Botanic gardens	*9.3	*9.8	**2.6	*2.9	**1.7	*1.1	np	np	28.2
National parks and reserves	24.7	30.7	*11.0	7.4	13.5	*3.7	*2.6	*1.4	94.9
Zoos and aquaria	**3.9	**2.4	**2.1	**2.3	*1.8	—	np	np	13.1
<i>Total heritage(c)</i>	99.5	91.3	66.7	40.7	48.6	12.0	5.9	6.3	371.0
<b>Arts</b>									
<b>Visual art activities</b>									
Drawing	205.2	125.2	105.4	44.1	44.5	14.3	8.7	10.7	558.0
Painting	166.6	95.1	87.9	39.7	45.6	13.6	*5.9	8.6	463.0
Sculpture	21.9	23.2	23.0	7.5	12.0	*1.6	*2.4	2.5	94.1
Photography	207.7	148.3	126.2	41.2	72.3	18.1	10.4	14.5	638.6
Print-making	38.8	*14.2	21.6	*4.6	9.9	*4.1	*0.9	*2.6	96.7
Creating artworks with a computer	181.8	138.6	105.4	44.7	45.8	14.6	8.5	13.1	552.5
Other visual art activities	21.7	*8.8	*7.0	*2.8	*3.6	*1.6	np	np	46.7
<i>Total visual art activities(c)</i>	492.8	325.3	265.1	106.6	138.2	39.3	17.5	26.9	1 411.7
<b>Craft activities</b>									
Pottery and ceramics	21.9	21.8	15.1	*6.1	9.6	*2.5	*2.5	*2.2	81.5
Textiles	86.0	81.9	51.7	18.2	27.5	8.2	*1.9	7.0	282.4
Jewellery making	68.1	38.3	36.4	14.6	25.3	5.2	*0.9	*4.2	192.9
Furniture-making and wood crafts	114.4	68.4	66.4	17.4	32.6	10.2	*2.1	5.4	316.8
Glass crafts	*18.3	*4.6	*4.3	*2.3	*2.1	*1.6	np	np	34.1
Other craft activities	75.5	66.4	50.2	22.3	31.6	7.3	*1.9	5.3	260.4
<i>Total craft activities(c)</i>	312.1	237.1	184.9	68.6	102.6	27.8	8.4	19.3	960.8
<b>Writing</b>	185.6	154.3	114.8	52.4	62.3	12.2	10.4	14.5	606.5
<b>Publishing</b>	69.3	51.4	41.7	17.0	14.6	6.3	*3.6	4.6	208.4
<b>Performing arts</b>									
Performer	95.1	64.1	54.1	29.0	24.6	6.4	*2.2	7.4	283.0
No involvement as performer	58.5	56.7	49.0	22.0	25.7	4.4	*3.0	4.0	223.3
<i>Total performing arts</i>	153.6	120.8	103.1	51.0	50.3	10.8	*5.3	11.4	506.3
<b>Music</b>									
Live performer	70.3	79.5	43.3	25.8	18.9	6.1	np	np	252.5
No involvement as live performer	20.8	25.5	*17.3	8.5	*8.1	*1.0	np	np	82.6
<i>Total music</i>	91.2	105.0	60.7	34.3	27.0	7.1	*2.1	7.7	335.1
<b>Radio</b>	35.3	26.3	20.6	10.8	*5.9	*2.5	*1.5	*3.2	105.9
<b>Television</b>	33.7	15.4	13.3	*7.1	*4.9	*1.3	**0.8	*0.8	77.4
<b>Film production</b>	33.3	31.5	*13.0	10.7	*9.1	*0.9	*1.2	*1.3	101.0
<b>Cinema and video distribution</b>	*7.9	*10.9	*5.3	*3.4	*3.3	np	**1.1	np	32.5
<b>Designing websites</b>	85.4	60.0	43.8	17.9	30.1	4.9	*4.7	7.5	254.3
<b>Designing computer games and other interactive software</b>	32.5	*13.2	*13.7	*3.5	*7.2	*3.4	**0.7	*1.2	75.4
<b>Design</b>	144.6	124.4	89.3	28.7	43.7	13.0	*5.3	10.2	459.2
<b>Teaching</b>	92.7	64.2	42.5	21.6	19.9	7.7	*3.0	5.2	256.7
<b>Festival organising</b>	124.3	114.1	79.4	29.5	36.0	11.2	*3.8	11.5	409.8
<b>Art and craft show organising</b>	66.6	47.2	33.7	17.5	21.0	5.9	*3.7	4.3	200.0
<b>Government arts departments and agencies</b>	*8.1	*6.9	*8.8	*6.5	*6.0	*2.1	**1.2	*1.4	41.1
<i>Total arts(c)</i>	1 085.8	840.8	657.1	277.0	330.5	90.3	31.1	74.0	3 386.7
<b>Total(c)</b>	<b>1 122.2</b>	<b>877.3</b>	<b>680.1</b>	<b>294.3</b>	<b>353.9</b>	<b>94.9</b>	<b>31.8</b>	<b>76.5</b>	<b>3 531.0</b>

\* estimate has a relative standard error of 25% to 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Refers to mainly urban areas only. See paragraph 5 in the Explanatory Notes.

(c) Components may not add to totals as some persons were involved in more than one activity.

	NSW	Vic.	Qld	SA	WA	Tas.	NT(b)	ACT	Aust.
INVOLVEMENT RATE PER 1,000 PERSONS (c)									
Heritage									
Museums	3.0	2.1	*3.5	7.2	5.2	*7.7	np	np	3.6
Public art galleries	*2.4	4.1	*3.6	*2.5	*2.0	*1.7	**4.0	*2.7	3.0
Libraries and archives	5.4	4.9	7.5	9.8	9.6	*9.7	*14.8	*9.1	6.7
Heritage organisations	4.9	5.3	5.6	9.5	7.9	9.2	np	np	5.9
Botanic gardens	*1.7	*2.4	**0.8	*2.3	**1.0	*2.9	np	np	1.7
National parks and reserves	4.5	7.5	*3.5	5.9	8.4	*9.5	*22.7	*5.6	5.8
Zoos and aquaria	**0.7	**0.6	**0.7	**1.9	*1.2	—	np	np	0.8
<i>Total heritage(d)</i>	18.3	22.3	21.0	32.8	30.4	31.2	52.0	24.4	22.8
Arts									
Visual art activities									
Drawing	37.8	30.5	33.3	35.5	27.8	37.1	75.9	41.7	34.2
Painting	30.7	23.2	27.7	32.0	28.5	35.2	*52.0	33.5	28.4
Sculpture	4.0	5.7	7.3	6.1	7.5	*4.3	*20.7	9.7	5.8
Photography	38.2	36.1	39.8	33.2	45.2	46.9	91.3	56.4	39.2
Print-making	7.1	*3.5	6.8	*3.7	6.2	*10.7	*7.6	*10.1	5.9
Creating artworks with a computer	33.5	33.8	33.3	36.0	28.6	37.8	74.9	51.2	33.9
Other visual art activities	4.0	*2.1	*2.2	*2.2	*2.2	*4.3	np	np	2.9
<i>Total visual art activities(d)</i>	90.7	79.3	83.7	85.9	86.4	101.9	153.6	104.8	86.6
Craft activities									
Pottery and ceramics	4.0	5.3	4.8	*4.9	6.0	*6.4	*21.5	*8.6	5.0
Textiles	15.8	20.0	16.3	14.7	17.2	21.3	*16.8	27.3	17.3
Jewellery making	12.5	9.3	11.5	11.8	15.8	13.5	*7.9	*16.3	11.8
Furniture-making and wood crafts	21.1	16.7	21.0	14.0	20.4	26.3	*18.0	21.0	19.4
Glass crafts	*3.4	*1.1	*1.4	*1.8	*1.3	*4.1	np	np	2.1
Other craft activities	13.9	16.2	15.8	17.9	19.8	18.8	*17.1	20.6	16.0
<i>Total craft activities(d)</i>	57.4	57.8	58.4	55.3	64.2	72.0	73.7	75.2	59.0
Writing	34.2	37.6	36.2	42.2	39.0	31.6	91.4	56.3	37.2
Publishing	12.7	12.5	13.2	13.7	9.1	16.3	*31.3	17.8	12.8
Performing arts									
Performer	17.5	15.6	17.1	23.4	15.4	16.7	*19.7	28.8	17.4
No involvement as performer	10.8	13.8	15.5	17.8	16.0	11.4	*26.5	15.4	13.7
<i>Total performing arts</i>	28.3	29.4	32.6	41.1	31.4	28.1	*46.2	44.2	31.1
Music									
Live performer	12.9	19.4	13.7	20.8	11.8	15.9	np	np	15.5
No involvement as live performer	3.8	6.2	*5.5	6.9	*5.1	*2.6	np	np	5.1
<i>Total music</i>	16.8	25.6	19.2	27.7	16.9	18.5	*18.4	30.0	20.6
Radio	6.5	6.4	6.5	8.7	*3.7	*6.6	*12.8	*12.3	6.5
Television	6.2	3.8	4.2	*5.7	*3.1	*3.5	*7.4	*3.1	4.7
Film production	6.1	7.7	*4.1	8.6	*5.7	*2.4	*10.3	*5.1	6.2
Cinema and video distribution	*1.5	*2.7	*1.7	*2.7	*2.1	np	*9.6	np	2.0
Designing websites	15.7	14.6	13.8	14.5	18.8	12.8	*41.6	29.2	15.6
Designing computer games and other interactive software	6.0	*3.2	*4.3	*2.9	*4.5	*8.8	*6.2	*4.6	4.6
Design	26.6	30.3	28.2	23.1	27.4	33.7	*46.1	39.8	28.2
Teaching	17.1	15.7	13.4	17.4	12.4	20.1	*26.3	20.2	15.8
Festival organising	22.9	27.8	25.1	23.8	22.5	29.0	*33.5	44.9	25.1
Art and craft show organising	12.3	11.5	10.6	14.1	13.1	15.2	*32.7	16.9	12.3
Government arts departments and agencies	*1.5	*1.7	*2.8	*5.2	*3.7	*5.6	**10.4	*5.6	2.5
<i>Total arts(d)</i>	199.8	205.0	207.5	223.3	206.7	234.1	272.6	288.1	207.8
<b>Total(d)</b>	<b>206.5</b>	<b>213.9</b>	<b>214.8</b>	<b>237.3</b>	<b>221.3</b>	<b>245.9</b>	<b>278.8</b>	<b>297.7</b>	<b>216.6</b>

\* estimate has a relative standard error of 25% to 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Refers to mainly urban areas only. See paragraph 5 in the Explanatory Notes.

(c) Number of persons involved in a specific activity per 1,000 persons aged 15 years and over residing in that state, territory or Australia.

(d) Components may not add to totals as some persons were involved in more than one activity.

## PERSONS WITH PAID INVOLVEMENT(a)(b), Type of activity by whether part of main job(c)

	Activity part of main job (c)	Activity not part of main job (c)	Total persons with some paid involvement (c)
	'000	'000	'000
<b>Heritage</b>			
Museums	*8.4	**1.4	*9.8
Public art galleries	*10.3	*4.6	14.9
Libraries and archives	29.3	*6.6	35.9
Heritage organisations	*4.1	*5.7	*9.8
Botanic gardens	*6.8	**2.6	*9.4
National parks and reserves	*8.4	*4.9	13.3
Zoos and aquaria	*5.8	**2.3	*8.1
<i>Total heritage(d)</i>	60.3	23.4	83.7
<b>Arts</b>			
<b>Visual art activities</b>			
Drawing	64.6	27.5	92.1
Painting	28.4	29.8	58.3
Sculpture	13.2	*4.8	17.9
Photography	52.8	33.9	86.6
Print-making	21.8	**4.3	26.1
Creating artworks with a computer	98.4	38.8	137.1
Other visual art activities	*11.4	*6.6	18.0
<i>Total visual art activities(d)</i>	185.3	96.6	281.9
<b>Craft activities</b>			
Pottery and ceramics	14.4	**2.5	17.0
Textiles	23.3	17.0	40.2
Jewellery making	10.0	22.5	32.6
Furniture-making and wood crafts	35.5	16.0	51.6
Glass crafts	**4.8	*3.1	*7.9
Other craft activities	*13.8	*11.3	25.1
<i>Total craft activities(d)</i>	73.7	65.4	139.1
Writing	184.3	56.4	240.7
Publishing	81.3	24.9	106.1
<b>Performing arts</b>			
Performer	13.2	25.7	38.9
No involvement as performer	22.5	15.4	37.9
<i>Total performing arts</i>	35.7	41.1	76.8
<b>Music</b>			
Live performer	24.9	65.7	90.6
No involvement as live performer	19.6	*8.7	28.3
<i>Total music</i>	44.5	74.4	118.8
Radio	10.6	14.2	24.8
Television	19.6	23.9	43.4
Film production	16.1	18.6	34.6
Cinema and video distribution	*12.1	*8.8	20.9
Designing websites	83.3	29.2	112.4
Designing computer games and other interactive software	33.5	*6.3	39.8
Design	230.7	49.1	279.8
Teaching	65.1	46.3	111.3
Festival organising	51.3	32.0	83.4
Art or craft show organising	22.9	13.0	35.9
Government arts departments and agencies	14.0	*5.8	19.9
<i>Total arts(d)</i>	669.0	347.4	1 016.4
<b>Total(d)</b>	<b>701.8</b>	<b>360.3</b>	<b>1 062.1</b>

\* estimate has a relative standard error of 25% to 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Includes persons who only received goods or services as payment. Of the 1,062,100 people who received some payment, 61,600 (6%) only received goods or services as payment.

(c) Main job held in the week prior to interview. If the person held multiple jobs during this week, it was the respondent's decision as to which was the main job.

(d) Components may not add to totals as some persons were involved in more than one activity.



## PERSONS INVOLVED(a), Type of activity by annual income from activity(b)

	SOME PAID INVOLVEMENT				
	<i>Unpaid involvement only</i>	<i>Paid less than \$5,000</i>	<i>Paid \$5,000 or more</i>	<i>Total with some paid involvement(d)(e)</i>	<i>Total persons involved(c)</i>
	'000	'000	'000	'000	'000
<b>Heritage</b>					
Museum	48.1	**1.7	*8.0	*9.8	57.9
Public art galleries	34.3	*5.6	*6.8	14.9	49.2
Libraries and archives	72.6	11.3	22.5	35.9	108.5
Heritage organisations	85.8	*4.7	*4.1	*9.8	96.0
Botanic gardens	18.0	*5.5	**3.0	*9.4	28.2
National parks and reserves	81.6	*4.4	*6.7	13.3	94.9
Zoos and aquaria	*5.0	**3.3	*4.2	*8.1	13.1
<b>Arts</b>					
<b>Visual art activities</b>					
Drawing	458.5	36.0	46.2	92.1	558.0
Painting	396.2	37.3	13.9	58.3	463.0
Sculpture	74.5	7.5	*8.5	17.9	94.1
Photography	545.4	39.6	33.3	86.6	638.6
Print-making	69.2	13.4	*10.9	26.1	96.7
Creating artworks with a computer	411.5	67.9	59.2	137.1	552.5
Other visual art activities	26.2	*9.4	*5.8	18.0	46.7
<b>Craft activities</b>					
Pottery and ceramics	62.9	*7.5	*8.1	17.0	81.5
Textiles	240.1	21.5	13.7	40.2	282.4
Jewellery making	157.1	22.1	*8.3	32.6	192.9
Furniture-making and wood crafts	262.8	19.8	24.4	51.6	316.8
Glass crafts	26.2	*5.5	**1.3	*7.9	34.1
Other craft activities	234.0	17.5	**4.5	25.1	260.4
<b>Writing</b>					
Writing	342.4	105.0	110.9	240.7	606.5
<b>Publishing</b>					
Publishing	92.9	38.0	60.2	106.1	208.4
<b>Performing arts</b>					
Performer	238.7	25.1	*9.0	38.9	283.0
No involvement as performer	183.4	20.2	10.1	37.9	223.3
<i>Total performing arts</i>	422.1	45.3	19.0	76.8	506.3
<b>Music</b>					
Live performer	159.1	61.2	22.3	90.6	252.5
No involvement as live performer	50.8	*13.4	*12.5	28.3	82.6
<i>Total music</i>	209.9	74.6	34.8	118.8	335.1
<b>Radio</b>					
Radio	80.6	12.2	*8.4	24.8	105.9
<b>Television</b>					
Television	33.6	20.9	15.1	43.4	77.4
<b>Film production</b>					
Film production	64.9	16.5	15.6	34.6	101.0
<b>Cinema and video distribution</b>					
Cinema and video distribution	11.7	*10.9	*7.0	20.9	32.5
<b>Designing websites</b>					
Designing websites	136.2	52.1	53.6	112.4	254.3
<b>Designing computer games and other interactive software</b>					
Designing computer games and other interactive software	33.9	*9.6	27.6	39.8	75.4
<b>Design</b>					
Architecture	19.3	*8.5	36.7	46.3	66.0
Graphic	83.3	43.5	49.8	100.5	184.7
Fashion	18.7	*7.3	*10.3	18.8	37.5
Advertising	69.4	46.3	60.5	121.2	192.0
Other	63.3	17.7	38.3	61.8	127.3
<b>Teaching</b>					
Teaching	142.7	45.5	53.4	111.3	256.7
<b>Festival organising</b>					
Festival organising	324.2	51.9	16.7	83.4	409.8
<b>Art and craft show organising</b>					
Art and craft show organising	163.7	21.7	*8.3	35.9	200.0
<b>Government arts departments and agencies</b>					
Government arts departments and agencies	20.7	*9.4	*8.2	19.9	41.1

\* estimate has a relative standard error of 25% to 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Totals for activity type are not presented because income data was collected in ranges for each specific activity. See paragraph 14 in the Explanatory Notes.

(c) Includes persons who did not state whether involvement was paid.

(d) Includes persons who only received goods or services as payment.

(e) Includes persons who did not state the amount of payment received.

## PERSONS INVOLVED(a), Age and sex by annual income for all activities

## SOME PAID INVOLVEMENT

	Goods and services only	Less than \$5,000	\$5,000 to less than \$40,000	\$40,000 or more	Total persons with some paid involvement(c)	Unpaid involvement only	Total persons involved(b)
	'000	'000	'000	'000	'000	'000	'000
MALES							
Age group (years)							
15-24	**2.3	30.0	22.2	np	66.7	224.3	291.2
25-34	*8.9	33.0	24.8	50.4	123.8	146.4	278.4
35-44	*9.0	33.4	21.0	45.2	118.8	159.3	281.4
45-54	*6.5	46.9	26.4	30.9	118.4	174.5	296.3
55-64	**2.2	27.4	20.7	*21.5	75.2	149.3	230.1
65 and over	**3.2	*8.1	*3.8	np	16.4	146.6	165.8
<b>Total</b>	<b>32.1</b>	<b>178.8</b>	<b>118.9</b>	<b>157.5</b>	<b>519.3</b>	<b>1 000.4</b>	<b>1 543.1</b>

## FEMALES

Age group (years)							
15-24	*7.8	47.9	27.7	np	96.0	308.1	404.9
25-34	*8.1	46.2	40.0	30.2	129.8	230.9	365.8
35-44	*3.2	49.7	44.3	24.4	127.0	254.1	382.8
45-54	*7.5	45.4	27.8	24.9	112.1	218.9	334.7
55-64	**1.1	29.7	17.3	9.3	59.8	205.3	268.3
65 and over	*1.7	12.2	*2.1	np	18.0	210.9	231.4
<b>Total</b>	<b>29.5</b>	<b>231.1</b>	<b>159.1</b>	<b>92.9</b>	<b>542.8</b>	<b>1 428.2</b>	<b>1 987.9</b>

## PERSONS

Age group (years)							
15-24	*10.2	77.9	49.9	*11.8	162.7	532.4	696.1
25-34	17.0	79.2	64.7	80.6	253.6	377.3	644.2
35-44	12.2	83.1	65.3	69.7	245.8	413.4	664.2
45-54	14.0	92.3	54.1	55.8	230.5	393.5	630.9
55-64	*3.3	57.2	38.0	30.7	135.0	354.6	498.3
65 and over	*5.0	20.3	*5.9	*1.8	34.4	357.5	397.2
<b>Total</b>	<b>61.6</b>	<b>409.9</b>	<b>278.0</b>	<b>250.3</b>	<b>1 062.1</b>	<b>2 428.6</b>	<b>3 531.0</b>

\* estimate has a relative standard error of 25% to 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Includes persons who did not state whether involvement was paid.

(c) Includes persons who did not know or did not disclose their earnings.

## PERSONS INVOLVED(a)(b), Type of activity by frequency of involvement

	1-13 weeks for less than 10 hours per week	1-13 weeks for 10 hours or more per week	More than 13 weeks for less than 10 hours per week	More than 13 weeks for 10 hours or more per week	Total persons involved(c)
	%	%	%	%	'000
<b>Heritage</b>					
Museums	46.2	*11.6	26.0	*16.3	57.9
Public art galleries	49.4	*7.1	32.9	**10.7	49.2
Libraries and archives	44.7	*6.2	29.7	19.4	108.5
Heritage organisations	51.6	12.6	29.2	*6.6	96.0
Botanic gardens	*38.8	*15.3	34.1	*11.7	28.2
National parks and reserves	59.5	12.8	18.2	*9.5	94.9
Zoos and aquaria	*47.3	**11.4	**10.7	*30.6	13.1
<b>Arts</b>					
<b>Visual art activities</b>					
Drawing	45.0	4.3	41.7	9.0	558.0
Painting	51.3	6.0	35.8	6.9	463.0
Sculpture	53.1	*6.8	32.5	*7.6	94.1
Photography	54.2	4.9	36.5	4.4	638.6
Print-making	51.4	*7.0	31.5	*9.3	96.7
Creating artworks with a computer	54.3	9.3	27.1	9.3	552.5
Other visual art activities	41.8	*15.1	34.8	*6.3	46.7
<b>Craft activities</b>					
Pottery and ceramics	52.7	*4.8	28.7	*13.6	81.5
Textiles	39.7	6.9	41.3	11.8	282.4
Jewellery making	59.2	*7.2	28.5	*5.1	192.9
Furniture-making and wood crafts	48.6	14.7	26.2	10.5	316.8
Glass crafts	50.2	*12.2	*29.0	*8.6	34.1
Other craft activities	45.0	5.2	43.4	6.4	260.4
<b>Writing</b>					
Writing	40.2	10.0	31.6	17.7	606.5
<b>Publishing</b>					
Publishing	41.3	11.0	24.1	22.0	208.4
<b>Performing arts</b>					
Performer	32.2	5.1	50.2	11.4	283.0
No involvement as performer	52.2	7.2	33.7	6.2	223.3
Total performing arts	41.0	6.1	42.9	9.1	506.3
<b>Music</b>					
Live performer	24.0	*2.5	53.0	19.9	252.5
No involvement as live performer	32.2	*6.8	42.4	15.1	82.6
Total music	26.1	*3.5	50.4	18.7	335.1
<b>Radio</b>					
Radio	61.7	*8.1	19.6	10.6	105.9
<b>Television</b>					
Television	53.9	18.1	8.8	19.2	77.4
<b>Film production</b>					
Film production	39.8	28.4	*14.0	*17.9	101.0
<b>Cinema and video distribution</b>					
Cinema and video distribution	41.0	*8.8	22.3	*27.9	32.5
<b>Designing websites</b>					
Designing websites	48.1	18.4	19.3	14.2	254.3
<b>Designing computer games and other interactive software</b>					
Designing computer games and other interactive software	32.6	15.5	19.0	32.9	75.4
<b>Design</b>					
Architecture	20.3	*11.0	*12.8	55.9	66.0
Graphic	38.3	14.4	21.5	25.8	184.7
Fashion	40.7	*9.6	*15.5	34.1	37.5
Advertising	41.8	10.0	25.6	22.6	192.0
Other design activities	37.9	13.3	24.9	23.9	127.3
<b>Teaching</b>					
Teaching	35.5	7.3	39.7	17.5	256.7
<b>Festival organising</b>					
Festival organising	60.6	20.1	14.8	4.4	409.8
<b>Art and craft show organising</b>					
Art and craft show organising	64.6	16.0	14.0	*5.4	200.0
<b>Government arts departments and agencies</b>					
Government arts departments and agencies	39.6	*19.1	23.4	*17.9	41.1

\* estimate has a relative standard error of 25% to 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Totals for activity type are not presented because frequency of involvement was collected in ranges for each specific activity. See paragraph 14 in Explanatory Notes.

(c) Includes persons who did not state their frequency of involvement.

	Males	Females	Persons
	'000	'000	'000
.....			
Writing			
Educational books	65.7	70.9	136.7
Other books	47.3	60.0	107.2
Newspapers	62.3	66.8	129.1
Magazines	67.2	70.6	137.9
Journals	71.7	61.8	133.5
Film, television or plays	21.1	17.4	38.5
Newsletters	116.5	158.9	275.4
Other	63.2	71.4	134.6
<i>Total(b)</i>	<i>287.1</i>	<i>319.4</i>	<i>606.5</i>
Music live performer			
Rock or pop	65.0	25.5	90.5
Jazz	23.5	*11.1	34.6
Folk or country	17.8	14.6	32.4
Classical	29.5	37.2	66.7
Other music	49.2	69.1	118.3
<i>Total(b)</i>	<i>134.1</i>	<i>118.5</i>	<i>252.5</i>
Singer only	24.9	51.8	76.7
Instrumentalist only	56.9	43.4	100.3
Singer and instrumentalist	52.2	23.3	75.6
<i>Total</i>	<i>134.1</i>	<i>118.5</i>	<i>252.5</i>
Performed in licensed premises only	30.9	9.6	40.5
Performed in unlicensed premises only	46.7	77.2	123.9
Performed in both licensed and unlicensed premises	56.5	31.7	88.1
<i>Total</i>	<i>134.1</i>	<i>118.5</i>	<i>252.5</i>
Performing arts performer			
Theatre	36.9	43.5	80.4
Opera	40.1	56.0	96.0
Dance	26.0	122.1	148.1
Other	28.2	36.7	64.9
<i>Total(b)</i>	<i>92.7</i>	<i>190.3</i>	<i>283.0</i>
Design			
Architecture	47.2	18.8	66.0
Graphic	99.6	85.1	184.7
Fashion	*5.3	32.2	37.5
Advertising	93.8	98.2	192.0
Other	73.8	53.6	127.3
<i>Total(b)</i>	<i>242.3</i>	<i>217.0</i>	<i>459.2</i>

\* estimate has a relative standard error of 25% to 50% and should be used with caution

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Components may not add to totals as some people were involved in more than one activity.

PERSONS INVOLVED IN SELECTED ACTIVITIES(a), Type of selected activity by whether has relevant qualification and payment status(b)

	HAS RELEVANT QUALIFICATION			DOES NOT HAVE RELEVANT QUALIFICATION			TOTAL(c)		
	Some paid involvement(d)	Unpaid involvement only	Total persons involved(e)	Some paid involvement(d)	Unpaid involvement only	Total persons involved(e)	Some paid involvement(d)	Unpaid involvement only	Total persons involved(e)
<b>Visual art activities</b>									
Drawing	44.6	90.5	141.0	47.5	367.7	416.7	92.1	458.5	558.0
Painting	25.0	58.5	86.7	33.3	337.2	375.8	58.3	396.2	463.0
Sculpture	*9.7	*12.2	23.0	*8.3	62.3	71.2	17.9	74.5	94.1
Photography	28.8	84.8	116.3	57.8	457.4	519.1	86.6	545.4	638.6
Print-making	*9.7	*10.9	21.4	16.4	58.3	74.7	26.1	69.2	96.7
Creating artworks with a computer	51.0	60.1	113.8	85.7	350.1	436.9	137.1	411.5	552.5
Other visual art activities	*4.1	**0.8	*4.9	*13.9	25.3	40.8	18.0	26.2	46.7
<b>Total visual art activities(f)</b>	<b>138.7</b>	<b>190.2</b>	<b>336.0</b>	<b>143.0</b>	<b>920.9</b>	<b>1 070.0</b>	<b>281.9</b>	<b>1 116.6</b>	<b>1 411.7</b>
<b>Craft activities</b>									
Pottery and ceramics	*7.4	12.3	20.2	*9.6	50.7	61.0	17.0	62.9	81.5
Textiles	15.7	38.1	53.8	24.5	202.0	227.9	40.2	240.1	282.4
Jewellery making	*8.7	*19.9	29.2	23.9	137.1	163.7	32.6	157.1	192.9
Furniture-making and wood crafts	21.4	37.9	60.7	30.2	223.3	254.5	51.6	262.8	316.8
Glass crafts	*3.3	*5.6	*8.8	**4.7	20.6	25.3	*7.9	26.2	34.1
Other craft activities	*5.8	27.1	33.0	19.4	207.0	227.4	25.1	234.0	260.4
<b>Total craft activities(f)</b>	<b>55.7</b>	<b>127.8</b>	<b>185.5</b>	<b>83.5</b>	<b>684.5</b>	<b>773.5</b>	<b>139.1</b>	<b>813.9</b>	<b>960.8</b>
Writing	90.0	56.1	150.2	147.3	284.2	448.4	240.7	342.4	606.5
Publishing	26.6	*11.0	37.6	78.1	79.6	163.7	106.1	92.9	208.4
<b>Performing arts</b>									
Performer	22.6	54.4	77.3	16.3	183.5	202.0	38.9	238.7	283.0
No involvement as performer	11.0	25.9	36.9	25.6	154.8	180.9	37.9	183.4	223.3
<b>Total performing arts</b>	<b>33.6</b>	<b>80.3</b>	<b>114.2</b>	<b>42.0</b>	<b>338.3</b>	<b>382.8</b>	<b>76.8</b>	<b>422.1</b>	<b>506.3</b>
<b>Music</b>									
Live performer	43.9	53.5	98.3	45.6	105.6	151.8	90.6	159.1	252.5
No involvement as live performer	*8.6	*10.7	*19.3	19.6	40.1	60.4	28.3	50.8	82.6
<b>Total music</b>	<b>52.5</b>	<b>64.2</b>	<b>117.6</b>	<b>65.3</b>	<b>145.7</b>	<b>212.3</b>	<b>118.8</b>	<b>209.9</b>	<b>335.1</b>
Designing websites	37.6	15.6	56.4	74.8	120.0	197.3	112.4	136.2	254.3
Designing computer games and other interactive software	23.7	*4.9	30.3	16.1	29.0	45.1	39.8	33.9	75.4
Design	143.4	41.3	185.8	135.2	134.5	272.3	279.8	175.9	459.2
<b>Total(f)</b>	<b>481.1</b>	<b>418.3</b>	<b>912.3</b>	<b>466.4</b>	<b>1 631.5</b>	<b>2 124.6</b>	<b>954.5</b>	<b>2 063.5</b>	<b>3 057.5</b>

\* estimate has a relative standard error of 25% to 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

(a) Involvement is for 12 months prior to interview in April 2007.

(b) It was the respondent's decision whether their course or qualification was related to a particular activity.

(c) Includes persons who did not state whether they had a relevant qualification.

(d) Includes persons who only received goods or services as payment. Of the 1,062,100 people who received some payment, 61,600 (6%) only received goods or services as payment.

(e) Includes persons who did not state whether involvement was paid.

(f) Components may not add to totals as some persons were involved in more than one activity.

PERSONS UNDERTAKING SELECTED ACTIVITIES(a), By type of involvement

	WORK INVOLVEMENT(b)		HOBBY ACTIVITY ONLY(c)		PERSONS	
	Number	Percent	Number	Percent	Number	Percent
	'000	%	'000	%	'000	%
Art and craft	2 008.5	48.4	2 140.1	51.6	4 148.6	100.0
Writing	606.5	63.0	356.9	37.0	963.4	100.0
Music	335.1	55.8	265.0	44.2	600.1	100.0

- (a) Involvement is for 12 months prior to interview in April 2007.
- (b) Work involvement includes persons whose involvement was paid or unpaid and those who had a work involvement as well as a hobby activity.
- (c) For hobby activities, data were only collected for art and craft, writing and music activities. Refer to Glossary.

	1993	1997	2001(b)	2004(b)	2007
	'000	'000	'000	'000	'000
<b>Heritage</b>					
Museums	32.6	39.5	(c)48.2	(c)43.8	57.9
Public art galleries	28.3	34.4	(c)40.8	(c)43.5	49.2
Libraries and archives	85.8	87.7	76.0	(c)87.8	108.5
Heritage organisations	48.1	46.5	53.7	62.2	96.0
Botanic gardens	na	8.4	(c)23.8	(c)23.0	28.2
National parks and reserves	na	na	(c)76.9	(c)113.0	94.9
Zoos and aquaria	na	(c)19.6	(c)14.1	(c)15.9	13.1
<i>Total heritage(d)</i>	na	na	300.0	(c)329.1	371.0
<b>Arts</b>					
<b>Visual art activities</b>					
Drawing	95.4	130.3	124.5	288.7	558.0
Painting	81.1	129.4	154.1	262.4	463.0
Sculpture	18.9	38.5	41.0	61.5	94.1
Photography	76.6	116.7	151.6	300.1	638.6
Print-making	36.7	34.8	37.1	68.4	96.7
Creating artworks with a computer	na	na	201.9	286.3	552.5
Other visual art activities	na	na	(c)36.8	(c)47.8	46.7
<i>Total visual art activities(d)</i>	na	na	503.2	789.9	1 411.7
<b>Craft activities</b>					
Pottery and ceramics	31.2	(c)68.6	56.9	57.6	81.5
Textiles	95.5	76.2	94.4	144.3	282.4
Jewellery making	19.0	21.6	25.0	63.5	192.9
Furniture-making and wood crafts	44.6	88.5	123.9	204.5	316.8
Glass crafts	7.4	21.2	21.0	(c)27.0	34.1
Other craft activities	na	95.8	127.3	122.1	260.4
<i>Total craft activities(d)</i>	na	327.6	396.4	542.7	960.8
Writing	na	542.8	536.9	(c)556.5	606.5
Publishing	na	113.7	152.0	162.2	208.4
<b>Performing arts</b>					
Performer	na	na	(c)258.3	(c)272.7	283.0
No involvement as performer	na	na	106.3	151.2	223.3
<i>Total performing arts</i>	na	na	364.6	423.9	506.3
<b>Music</b>					
Live performer	198.6	208.8	(c)234.4	(c)230.8	252.5
No involvement as live performer	32.5	51.5	47.5	(c)69.1	82.6
<i>Total music</i>	231.1	260.3	281.9	(c)305.2	335.1
Radio	65.4	84.6	(c)90.7	(c)93.0	105.9
Television	38.3	56.7	(c)83.6	(c)76.2	77.4
Film production	na	38.8	44.4	74.9	101.0
Cinema and video distribution	na	(c)42.7	20.1	(c)28.1	32.5
Designing websites	na	na	202.5	189.2	254.3
Designing computer games and other interactive software	na	na	46.4	(c)54.6	75.4
<b>Design</b>					
Architecture	na	na	48.5	(c)61.9	66.0
Graphic	na	105.8	131.5	142.6	184.7
Fashion	na	(c)33.1	(c)32.8	(c)27.9	37.5
Advertising	na	na	109.4	128.8	192.0
Other design activities	na	na	91.9	100.1	127.3
<i>Total design activities</i>	na	na	349.8	370.2	459.2
Teaching	na	208.7	164.4	183.2	256.7
Festival organising	na	202.7	193.9	252.2	409.8
Art and craft show organising	134.0	144.8	122.5	153.2	200.0
Government arts departments and agencies	69.6	(c)41.1	(c)28.3	22.0	41.1
<i>Total arts(d)</i>	na	na	2 166.1	2 548.0	3 386.7
<b>Total(d)</b>	na	na	<b>2 327.5</b>	<b>2 711.4</b>	<b>3 531.0</b>

na not available

(a) Involvement is for 12 months prior to interview.

(b) The number of persons involved in 2001 and 2004 has been revised to exclude involvement in fete organising and may not be comparable to previous publications. See paragraph 24 in the Explanatory Notes.

(c) Estimate is not statistically significantly different to

equivalent estimate for 2007. See paragraphs 15 to 17 in the Technical Notes.

(d) Components may not add to totals as some people were involved in more than one activity.

	NUMBER		PARTICIPATION RATE	
	2004(b)	2007	2004(b)	2007
	'000	'000	%	%
.....				
SOME PAID INVOLVEMENT (c)				
New South Wales	(d) 296.3	343.5	(d) 5.6	6.3
Victoria	(d) 259.8	278.8	(d) 6.6	6.8
Queensland	(d) 186.6	205.3	(d) 6.3	6.5
South Australia	(d) 70.7	75.3	(d) 5.8	6.1
Western Australia	(d) 87.9	100.0	(d) 5.7	6.3
Tasmania	(d) 18.9	20.1	(d) 5.0	5.2
Northern Territory(e)	* 4.4	12.9	* 4.2	11.3
Australian Capital Territory	(d) 30.4	26.2	(d) 12.2	10.2
<i>Australia</i>	955.0	1 062.1	(d) 6.1	6.5
.....				
UNPAID INVOLVEMENT ONLY				
New South Wales	587.5	768.3	11.1	14.1
Victoria	437.5	587.1	11.1	14.3
Queensland	317.2	466.4	10.6	14.7
South Australia	144.1	214.4	11.8	17.3
Western Australia	167.9	249.6	10.9	15.6
Tasmania	49.0	74.2	13.0	19.2
Northern Territory(e)	14.4	18.9	13.6	16.6
Australian Capital Territory	38.7	49.8	15.6	19.4
<i>Australia</i>	1 756.4	2 428.6	11.2	14.9
.....				
TOTAL PERSONS INVOLVED (f)				
New South Wales	883.8	1 122.2	16.8	20.7
Victoria	697.3	877.3	17.8	21.4
Queensland	503.8	680.1	16.9	21.5
South Australia	214.9	294.3	17.6	23.7
Western Australia	255.8	353.9	16.6	22.1
Tasmania	68.0	94.9	18.0	24.6
Northern Territory(e)	18.8	31.8	17.8	27.9
Australian Capital Territory	(d) 69.1	76.5	(d) 27.9	29.8
<b>Australia</b>	<b>2 711.4</b>	<b>3 531.0</b>	<b>17.3</b>	<b>21.7</b>

\* estimate has a relative standard error of 25% to 50% and should be used with caution

- (a) Involvement is for 12 months prior to interview.
- (b) The number of persons involved in 2004 has been revised to exclude involvement in fete organisation and may not be comparable to previous publications. See paragraph 24 in the Explanatory Notes.
- (c) Includes persons who only received goods or services as payment. Of the 1,062,100 people who received some payment, 61,600 (6%) only received goods or services as payment.
- (d) Estimate is not statistically significantly different to equivalent estimation for 2007. See paragraphs 15 to 17 in the Technical Notes.
- (e) Refers to mainly urban areas only. See paragraph 5 in the Explanatory Notes.
- (f) Includes persons who did not state whether involvement was paid.



## EXPLANATORY NOTES

### INTRODUCTION

**1** The statistics in this publication were compiled from data collected in the Work in Selected Culture and Leisure Activities Survey conducted throughout Australia in April 2007 as a supplement to the Australian Bureau of Statistics' Monthly Labour Force Survey (LFS).

**2** The publication *Labour Force, Australia* (cat. no. 6202.0) contains information about survey design, sample redesign, scope, coverage and population benchmarks relevant to the LFS, which also apply to supplementary surveys. It also contains definitions of demographic and labour force characteristics, and information about computer assisted and telephone interviewing which are relevant to both the monthly LFS and supplementary surveys.

### CONCEPTS, SOURCES AND METHODS

**3** The conceptual framework used in Australia's LFS aligns closely with the standards and guidelines set out in Resolutions of the International Conference of Labour Statisticians. Descriptions of the underlying concepts and structure of Australia's labour force statistics, and the sources and methods used in compiling these estimates are presented in *Labour Statistics: Concepts, Sources and Methods* (cat. no. 6102.0) which is available on the ABS web site <[www.abs.gov.au](http://www.abs.gov.au)> .

### SCOPE

**4** The scope of the survey included all persons aged 15 years and over who were usual residents of private dwellings except:

- members of the Australian permanent defence forces
- certain diplomatic personnel of overseas governments, customarily excluded from censuses and surveys
- overseas residents in Australia
- members of non-Australian defence forces (and their dependants) stationed in Australia.

**5** The supplementary survey was conducted in both rural and urban areas in all states and territories, but excluded persons living in very remote parts of Australia who would otherwise have been within the scope of the survey. The exclusion of these persons will only have a minor impact on any aggregate estimates that are produced for states and territories, with the exception of the Northern Territory where such persons account for approximately 23% of the population.

### COVERAGE

**6** The estimates in this publication relate to persons covered by the survey in April 2007. In the LFS, coverage rules are applied which aim to ensure that each person is associated with only one dwelling, and hence had only one chance of selection in the survey. See *Labour Force, Australia* (cat. no. 6202.0) for more details.

### DATA COLLECTION

**7** Information was collected through interviews conducted over a two week period during April 2007.

**8** The survey was conducted using a sub-sample of the Monthly Population Survey (MPS) sample. The MPS, which is described in *Labour Force, Australia* (cat. no. 6202.0), comprises the monthly labour force topic and supplementary topics. The household sample for the MPS was selected using multistage sampling techniques and included approximately 30,000 private dwellings. Information relating to work in selected culture and leisure activities was collected from seven-eighths of the private dwellings selected for the MPS. Information was obtained from any responsible adult in the household who was asked to respond on behalf of one randomly selected person aged 15 years and over in the household.

### SAMPLE SIZE

**9** Approximately 94% of selected households were fully responding to the Work in Selected Culture and Leisure Activities Survey. One randomly selected person per household was interviewed for the Work in Selected Culture and Leisure Activities Survey and a total of 26,213 complete interviews were obtained.

## EXPLANATORY NOTES *continued*

### WEIGHTING, BENCHMARKING AND ESTIMATION

**10** The estimation process for this survey ensures that estimates of persons calibrate exactly to independently produced population totals at broad levels. The known population totals, commonly referred to as 'benchmarks', are produced according to the scope of the survey.

### DATA INTERPRETATION

**11** Involvement in an activity relates to the 12 month period prior to interview. Work by a person in a particular activity was only recorded once, even if there were different periods over which that activity was undertaken or if there were several different organisations for which the person worked in that activity during the 12 months prior to interview. For example, a person who worked in different libraries was recorded only once as being involved in libraries.

**12** Payment status was classified into two categories: some paid involvement and unpaid involvement only. Where persons were involved in more than one of the selected activities of the survey, the payment status for all culture and leisure activities was determined by considering all of those activities combined. For example, the payment status of a person who was paid for their activity in libraries and unpaid for their involvement in museums would be classified as having some paid involvement in culture and leisure activities.

**13** Qualification status was classified into two categories: has relevant qualifications and does not have relevant qualifications. Refer to the Glossary for further information.

**14** Totals for all activities and sub totals for art activities and for craft activities are not presented in Tables 7 and 9 as income and duration data were collected in ranges for each specific activity and therefore cannot be accurately aggregated across more than one activity.

**15** Additional information on certain activities - namely, writing, live music performances, performing art performances and design - was collected and is presented in Table 10.

### COMPARISON WITH PREVIOUS SURVEYS

**16** The Work in Selected Culture and Leisure Activities Survey was previously conducted as part of the MPS in 1993, 1997, 2001 and 2004 and as part of the Population Survey Monitor in 1998-99. When making comparisons between these surveys it is important to be aware of the changes in the methodology and questionnaires as discussed in the following paragraphs.

**17** As the 1998-99 data were collected using a different survey methodology and scope than the data collected for this publication, the context within which the 1998-99 questions were answered differed significantly. Consequently, comparisons with the 1998-99 data are not recommended and are not presented in this publication.

**18** In 1993, information was obtained for every person aged 15 years and over in the household using face-to-face interviewing techniques. This information was obtained from a responsible adult who answered on behalf of the other members of the household. Respondents were shown a list of the selected culture and leisure activities on prompt cards, and asked to select which activities they had been involved in over the previous 12 months.

**19** In 1997, the methodology changed to include, where appropriate, telephone interviewing. Information was obtained from two persons aged 15 years and over in each household. Respondents were asked if they had been involved in any culture or leisure activities in the previous 12 months, with the interviewer reading out the selected activities over the phone as prompts.

## EXPLANATORY NOTES *continued*

### COMPARISON WITH PREVIOUS SURVEYS *continued*

**20** In 2001, 2004 and 2007, the survey was again conducted using, where appropriate, telephone interviewing. Information was obtained from a responsible adult who answered on behalf of one randomly selected person aged 15 and over in each household. Respondents were asked if they had been involved in any culture or leisure activities in the previous 12 months, with the interviewer reading out the selected activities over the phone as prompts.

**21** Prior to October 2003, all ABS interviews were conducted using a 'pen and paper' collection method. In October 2003, the ABS commenced the progressive implementation of computer assisted interviewing (CAI) into the LFS and its supplementary surveys. Under CAI, interviewers record responses directly onto an electronic questionnaire in a notebook computer. In the April 2004 survey, the CAI method was used on 40% of survey interviews. The remaining 60% of interviews were conducted using the traditional 'pen and paper' method. In the April 2007 survey, the CAI method was used for all survey interviews. The change of interviewing method is not expected to have affected the estimates in any meaningful way.

**22** There have been changes to the questionnaires between years which may have had an effect on the estimates for some activities. Changes between 2004 and 2007 are discussed below. For information on changes between surveys conducted in previous years, please see the April 2004 issue of *Work in Selected Culture and Leisure Activities, Australia* (cat. no. 6281.0).

**23** Several changes to question wording were made to the 2007 survey. These changes were made to increase respondent understanding of the question meaning and are not expected to have affected the estimates in any significant way.

**24** Several changes to the data items collected were made to the 2007 survey. The main changes between the 2004 and 2007 surveys are:

- Fete organising was asked in 2004, but was not asked in 2007.
- In 2004 respondents were asked about whether their involvement in each activity was part of any job, but in 2007 were only asked about whether their involvement in each activity was part of their main job. Refer to the Glossary for further information.
- While involvement in designing websites and designing computer games was asked separately in 2004, these activities were then grouped together in questions that asked the details of the involvement (e.g. questions about the payment status of the involvement, the length of involvement and whether the involvement was part of the respondent's job). In 2007 details about involvement in these activities was asked separately. This resulted in more detailed information being available for these activities.
- In 2004 involvement in the design activities of architecture, graphic design, fashion design, advertising and other design activities were asked separately but for the purpose of asking details of the involvement, these activities were grouped together. In 2007 the details about involvement in design activities were asked separately. This resulted in more detailed information being available for these activities.
- Income received from involvement in culture and leisure activities was collected in ranges in both surveys. In 2004, income was collected separately for each activity with the uppermost category of \$40,000 or more, while in 2007 the uppermost category was \$5,000 or more. In 2007, an additional question was added to collect the total income for all activities, with an uppermost category of \$80,000 or more.

**25** Apart from the changes mentioned above, data items collected in 2007 were essentially the same as in 2004.

## EXPLANATORY NOTES *continued*

### COMPARISON WITH PREVIOUS SURVEYS *continued*

**26** While caution should be exercised in making comparisons between the surveys due to the changes outlined above, summary data from the 1993, 1997, 2001, 2004 and 2007 surveys can be found in Table 13. Several activities have data missing in Table 13 for 1993 and 1997 due to conceptual differences between survey periods. Additional summary data from 2004 and 2007 only can be found in Table 14. Overall, the 1993, 1997, 2001, 2004 and 2007 methodology are considered sufficiently similar that the comparisons in Tables 13 and 14 can be made.

### COMPARISON WITH OTHER ABS SOURCES

**27** Since the Work in Selected Culture and Leisure Activities Survey is conducted as a supplement to the LFS, data items collected in the LFS are also available. However, there are some important differences between the two surveys. The Work in Selected Culture and Leisure Activities sample is a subset of the LFS sample (see Paragraph 8 of these Explanatory Notes) and the Work in Selected Culture and Leisure Activities Survey had a response rate of 94% which is lower than the LFS response rate for the same period of 97%. Due to these differences between the samples, the Work in Selected Culture and Leisure Activities Survey data are weighted as a separate process to the weighting of LFS data (see Paragraph 10 of these Explanatory Notes for further information on weighting). Differences may therefore be found in the estimates collected in the LFS and published as part of the Work in Selected Culture and Leisure Activities Survey, when compared with estimates published in the April 2007 issue of *Labour Force, Australia* (cat. no. 6202.0).

**28** Additionally, estimates from the Work in Selected Culture and Leisure Activities Survey may differ from the estimates produced from other ABS collections, for several reasons. The Work in Selected Culture and Leisure Activities Survey is a sample survey and its results are subject to sampling error. Results may differ from other sample surveys, which are also subject to sampling error. Users should take account of the RSEs on estimates and those of other survey estimates where comparisons are made.

**29** Differences may also exist in the scope and/or coverage of the Work in Selected Culture and Leisure Activities Survey compared to other surveys. Differences in estimates, when compared to the estimates of other surveys, may result from different reference periods reflecting seasonal variations, non-seasonal events that may have impacted on one period but not another, or because of underlying trends in the phenomena being measured.

**30** Finally, differences can occur as a result of using different collection methodologies. This is often evident in comparisons of similar data items reported from different ABS collections where, after taking account of definition and scope differences and sampling error, residual differences remain. These differences are often the result of the mode of the collections, such as whether data is collected by an interviewer or self-enumerated by the respondent, whether the data is collected from the person themselves or from a proxy respondent, and the level of experience of the interviewers. Differences may also result from the context in which questions are asked, i.e. where in the interview the questions are asked and the nature of preceding questions. The impacts on data of different collection methodologies are difficult to quantify.

**31** The following table, Comparison of Data from Work in Selected Culture and Leisure Activities Survey and Labour Force Survey, presents comparisons between some broad level data items that were collected on the LFS and reported in the April 2007 issue of *Labour Force, Australia* (cat. no. 6202.0) and the current publication. The comparison shows that Work in Selected Culture and Leisure Activities data are broadly consistent with LFS data.

## EXPLANATORY NOTES *continued*

COMPARISON WITH OTHER  
ABS SOURCES *continued*

COMPARISON OF DATA, Work in Selected Culture and Leisure  
Activities Survey and Labour Force Survey

	<i>Labour Force Survey</i>	<i>Work in Selected Culture and Leisure Activities Survey</i>
	%	%
<b>LABOUR FORCE STATUS</b>		
Employed full-time	44.1	45.0
Employed part-time	17.9	18.5
Total employed	62.0	63.5
Unemployed	2.9	3.0
Not in the labour force	35.1	33.6
<b>COUNTRY OF BIRTH</b>		
Australia	70.5	71.2
Overseas	29.5	28.8

RELIABILITY OF THE  
ESTIMATES

- 32** Estimates in this publication are subject to sampling and non-sampling error.
- Sampling error is the difference between the published estimate and the value that would have been produced if all dwellings had been included in the survey. For further information on sampling error, refer to the Technical Note.
  - Non-sampling errors are inaccuracies that occur because of imperfections in reporting by respondents and interviewers, and errors made in coding and processing data. These inaccuracies may occur in any enumeration, whether it be a full count or a sample. Every effort is made to reduce non-sampling error to a minimum by careful design of questionnaires, intensive training and supervision of interviewers and efficient processing procedures.

ACKNOWLEDGMENT

**33** ABS surveys draw extensively on information provided by individuals, businesses, governments and other organisations. Their continued cooperation is very much appreciated: without it, the wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the *Census and Statistics Act 1905*.

## EXPLANATORY NOTES *continued*

### RELATED PUBLICATIONS

**34** Other ABS publications which may be of interest include:

*Arts and Culture in Australia: A Statistical Overview, 2007*, cat. no. 4172.0

*Australian Culture and Leisure Classifications, 2001*, cat. no. 4902.0

*Botanic Gardens, Australia, 1999-2000*, cat. no. 8563.0

*Commercial Art Galleries, Australia, 1999-2000*, cat. no. 8651.0

*Employment in Culture, Australia, 2001*, cat. no. 6273.0

*Television, Film and Video Production, Australia, 2002-2003*, cat. no. 8679.0

*Motion Picture Exhibition, Australia, 1999-2000*, cat. no. 8654.0

*Museums, Australia, 2003-04*, cat. no. 8560.0

*Performing Arts, Australia, 2002-2003*, cat. no. 8697.0

*Public Libraries, Australia, 2003-04*, cat. no. 8561.0

*Television Services, Australia, 1999-2000*, cat. no. 8559.0

*Radio and Television Services, Australia, 1996-1997*, cat. no. 8680.0

*Sound Recording Studios, Australia, 1996-1997*, cat. no. 8555.0

*Video Hire Industry, Australia, 1999-2000*, cat. no. 8562.0

*Voluntary Work, Australia, 2006*, cat. no. 4441.0

*Zoos, Parks and Gardens Industry, Australia, 1996-1997*, cat. no. 8699.0

**35** Current publications and other products released by the ABS are available from the ABS web site <[www.abs.gov.au](http://www.abs.gov.au)>. The ABS also issues a daily Release Advice on the web site (Future releases) which details products to be released in the week ahead. The National Centre for Culture and Recreation Statistics theme page also contains a wealth of information and useful references. This site can be accessed through the ABS web site <[www.abs.gov.au](http://www.abs.gov.au)>.

## TECHNICAL NOTE DATA QUALITY

### RELIABILITY OF THE ESTIMATES

**1** 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 those estimates that would have been produced if all occupants of all dwellings had been included in the survey. One measure of the likely difference is given by the standard error (SE), which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings (or occupants) was included. There are about two chances in three (67%) that a sample estimate will differ by less than one SE from the number that would have been obtained if all dwellings had been included, and about 19 chances in 20 (95%) that the difference will be less than two SEs.

**2** Another measure of the likely difference is the relative standard error (RSE), which is obtained by expressing the SE as a percentage of the estimate:

$$RSE\% = \left( \frac{SE}{estimate} \right) \times 100$$

**3** RSEs for estimates from the MPS are published for the first time in 'direct' form. Previously a statistical model was produced that relates the size of estimates to their corresponding RSEs, and this information was displayed via an 'SE table'. From this point onwards, RSEs for MPS estimates have been calculated for each separate estimate and published individually. The Jackknife method of variance estimation is used for this process, which involves the calculation of 30 'replicate' estimates based on 30 different subsamples of the original sample. The variability of estimates obtained from these subsamples is used to estimate the sample variability surrounding the published estimate.

**4** Limited publication space does not allow for the separate indication of the SEs and/or RSEs of all the estimates in this publication, only those for Table 1 have been included at the end of these Technical Notes (see section 'Relative Standard Errors'). However, RSEs for all these estimates are available free-of-charge on the ABS web site <[www.abs.gov.au](http://www.abs.gov.au)>, released in spreadsheet format as an attachment to this publication, *Work in Selected Culture and Leisure Activities, Australia, April 2007* (cat. no. 6281.0).

**5** Table 13 includes information for previous surveys: 1993, 1997, 2001 and 2004. The RSEs for these surveys were calculated using the previous modelled approach and are available from the relevant issue of *Work in Selected Culture and Leisure Activities, Australia* (cat. no. 6281.0) on the ABS web site <[www.abs.gov.au](http://www.abs.gov.au)>.

**6** In the tables in this publication, only estimates (numbers, percentages, means and medians) with RSEs less than 25% are considered sufficiently reliable for most purposes. However, estimates with larger RSEs have been included and are preceded by an asterisk (e.g. \*3.4) to indicate they are subject to high SEs and should be used with caution. Estimates with RSEs greater than 50% are preceded by a double asterisk (e.g. \*\*2.1) to indicate that they are considered too unreliable for general use.

### CALCULATION OF STANDARD ERROR

**7** SEs can be calculated using the estimates (counts or means) and the corresponding RSEs. For example Table 1 shows that the estimated number of persons in South Australia involved in selected culture and leisure activities in the previous 12 months was 294,300. In the corresponding RSE table (see 'Relative Standard Errors' at the end of these Technical Notes), the RSE for this estimate is shown to be 3.4%. The SE is:

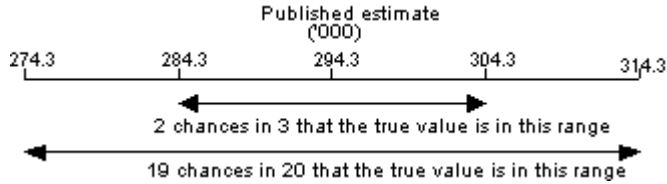
$$SE \text{ of estimate} = \left( \frac{RSE}{100} \right) \times estimate$$

$$= 0.034 * 294,300$$

$$= 10,000 \text{ (rounded to nearest 100)}$$

CALCULATION OF STANDARD ERROR *continued*

**8** 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 284,300 to 304,300 and about 19 chances in 20 that the value will fall within the range 274,300 to 314,300. This example is illustrated below.



PROPORTIONS AND PERCENTAGES

**9** Proportions and percentages formed from the ratio of two estimates are also subject to sampling errors. The size of the error depends on the accuracy of both the numerator and the denominator. A formula to approximate the RSE of a proportion is given below. This formula is only valid when x is a subset of y.

$$RSE\left(\frac{x}{y}\right) = \sqrt{[RSE(x)]^2 - [RSE(y)]^2}$$

**10** For example in Table 1, the estimate for the total number of persons in Queensland who had some involvement in selected culture or leisure activities in the previous 12 months was 680,100. The estimated number of persons in Queensland who had some paid involvement in selected culture and leisure activities in the the previous 12 months was 205,300, so of those persons involved in selected culture and leisure activities in Queensland, the proportion paid for their involvement is (205,300 / 680,100)\*100 or 30.2%.

**11** From the RSE table for Table 1 (see 'Relative Standard Errors' at the end of these Technical Notes) the RSE of the total number of persons in Queensland who worked in selected culture and leisure activities is 2.9% and the RSE of the estimated number of these persons that had some paid involvement is 6.1%.

Applying the above formula, the RSE of the proportion is

$$RSE = \sqrt{(6.1)^2 - (2.9)^2} = 5.4\%$$

**12** This then gives an SE of the percentage (30.2%) of (5.4/100)\*30.2 = 1.6 percentage points.

**13** Therefore there are about two chances in three that the proportion of persons in Queensland who worked in selected culture and leisure activities and had some paid involvement is between 28.6% and 31.8% and 19 chances in 20 that the proportion is within the ranges 27.0% and 33.4%.

DIFFERENCES

**14** Published estimates may also be used to calculate the difference between two survey estimates (of numbers or percentages). Such an estimate is subject to sampling error. The sampling error of the difference between two estimates depends on their SEs and the relationship (correlation) between them. An approximate SE of the difference between two estimates (x-y) may be calculated by the following formula:

$$SE(x-y) = \sqrt{[SE(x)]^2 + [SE(y)]^2}$$

SIGNIFICANCE TESTING

**15** The statistical significance test for any of the comparisons between estimates was performed to determine whether it is likely that there is a difference between the corresponding population characteristics. The standard error of the difference between two corresponding estimates (x and y) can be calculated using the formula in paragraph 14. This standard error is then used to calculate the following test statistic:

$$\left(\frac{x-y}{SE(x-y)}\right)$$



SIGNIFICANCE TESTING  
*continued*

**16** If the value of this test statistic is greater than 1.96 then we may say there is good evidence of a real difference in the two populations with respect to that characteristic. Otherwise, it cannot be stated with confidence that there is a real difference between the populations.

**17** The imprecision due to sampling variability, which is measured by the SE, should not be confused with inaccuracies that may occur because of imperfections in reporting by respondents and recording by interviewers, and errors made in coding and processing data. Inaccuracies of this kind are referred to as non-sampling error, and they occur in any enumeration, whether it be a full count or sample. Every effort is made to reduce non-sampling error to a minimum by careful design of questionnaires, intensive training and supervision of interviewers, and efficient operating procedures.

## TECHNICAL NOTE DATA QUALITY *continued*

### RELATIVE STANDARD ERRORS

**18** Relative Standard Errors for Table 1 are included below. However, RSEs for all tables are available free-of-charge on the ABS web site <www.abs.gov.au>, released in spreadsheet format as an attachment to this publication, *Work in Selected Culture and Leisure Activities, Australia, April 2007* (cat. no. 6281.0).

TABLE 1

PERSONS, By involvement and payment status and state and territory(a)

	Some paid involvement(b)	Unpaid involvement only	Total persons involved(c)	Persons with no involvement	Total persons	Participation rate
	RSE (%)	RSE (%)	RSE (%)	RSE (%)	RSE (%)	RSE (%)
MALES						
New South Wales	7.2	5.8	4.8	1.1	—	4.8
Victoria	8.5	4.8	3.2	0.8	—	3.2
Queensland	10.0	7.5	5.6	1.3	—	5.6
South Australia	8.0	7.2	5.0	1.3	—	5.0
Western Australia	12.2	7.7	6.5	1.5	—	6.5
Tasmania	20.4	10.7	9.5	2.8	—	9.5
Northern Territory(d)	25.9	23.7	14.3	4.6	—	14.3
Australian Capital Territory	17.2	10.8	8.9	3.1	—	8.9
<b>Australia</b>	<b>4.0</b>	<b>2.9</b>	<b>2.0</b>	<b>0.5</b>	—	<b>2.0</b>
FEMALES						
New South Wales	8.3	4.0	3.6	1.0	—	3.6
Victoria	7.8	5.0	4.1	1.3	—	4.1
Queensland	7.3	5.8	4.2	1.3	—	4.2
South Australia	10.4	4.8	4.1	1.5	—	4.1
Western Australia	12.1	5.1	4.0	1.3	—	4.0
Tasmania	11.0	7.5	5.8	2.1	—	5.8
Northern Territory(d)	22.0	19.0	13.1	6.0	—	13.1
Australian Capital Territory	12.3	7.1	5.9	3.0	—	5.9
<b>Australia</b>	<b>3.9</b>	<b>2.3</b>	<b>2.1</b>	<b>0.7</b>	—	<b>2.1</b>
PERSONS						
New South Wales	5.1	3.5	3.1	0.8	—	3.1
Victoria	5.4	3.6	2.9	0.8	—	2.9
Queensland	6.1	4.3	2.9	0.8	—	2.9
South Australia	5.7	4.3	3.4	1.0	—	3.4
Western Australia	8.9	3.9	3.1	0.9	—	3.1
Tasmania	9.0	6.7	5.5	1.8	—	5.5
Northern Territory(d)	17.8	15.9	10.6	4.1	—	10.6
Australian Capital Territory	11.0	5.9	5.3	2.3	—	5.3
<b>Australia</b>	<b>2.7</b>	<b>1.8</b>	<b>1.4</b>	<b>0.4</b>	—	<b>1.4</b>

— nil or rounded to zero (including null cells)

(a) Involvement is for 12 months prior to interview in April 2007.

(b) Includes persons who only received goods or services as payment. Of the 1,062,100 people who received some payment, 61,600 (6%) only received goods or services as payment.

(c) Includes persons who did not state whether involvement was paid.

(d) Refers to mainly urban areas only. See paragraph 5 in the Explanatory Notes.

## GLOSSARY

<b>Activities</b>	<p>Respondents were asked whether they had any involvement in each of the activities listed below in the last 12 months. It was left to the respondent to interpret what was meant by each activity.</p> <ul style="list-style-type: none"> <li>■ Art or craft</li> <li>■ Art and craft show organising</li> <li>■ Botanic gardens</li> <li>■ Cinema and video distribution</li> <li>■ Creating artworks with a computer</li> <li>■ Design (includes graphic, fashion, architecture, advertising and other design)</li> <li>■ Designing computer games and other interactive software</li> <li>■ Designing websites</li> <li>■ Drawing</li> <li>■ Festival organising</li> <li>■ Film production</li> <li>■ Furniture-making and wood crafts</li> <li>■ Glass crafts</li> <li>■ Government arts departments and agencies</li> <li>■ Heritage organisations</li> <li>■ Jewellery making</li> <li>■ Libraries and archives</li> <li>■ Museums</li> <li>■ Music</li> <li>■ National parks and reserves</li> <li>■ Other visual art activities (excluding Drawing, Painting, Sculpture, Photography, Print-making, and Creating artworks with a computer)</li> <li>■ Other craft activities (excluding Pottery and ceramics, Textiles, Jewellery making, Furniture-making and wood crafts, and Glass crafts)</li> <li>■ Painting</li> <li>■ Performing arts (excluding Music)</li> <li>■ Photography</li> <li>■ Pottery and ceramics</li> <li>■ Print-making</li> <li>■ Public art galleries</li> <li>■ Publishing</li> <li>■ Radio</li> <li>■ Sculpture</li> <li>■ Teaching (any involvement as a primary or secondary school teacher was excluded)</li> <li>■ Television</li> <li>■ Textiles</li> <li>■ Writing</li> <li>■ Zoos and aquaria</li> </ul>
<b>Annual income from activity</b>	<p>This refers to earnings, received or expected to be received from the person's involvement in the activity during the 12 months prior to interview, before income tax is taken out but after business expenses have been deducted.</p>
<b>Annual income from all activities</b>	<p>This refers to combined earnings, received or expected to be received from the person's involvement in all of the culture and leisure activities during the 12 months prior to interview, before income tax is taken out but after business expenses have been deducted.</p>
<b>Country of birth</b>	<p>Birthplace is classified according to the <i>Standard Australian Classification of Countries (SACC)</i> (cat. no. 1269.0).</p>
<b>Employed</b>	<p>All persons aged 15 years and over who, during the reference week:</p>

## GLOSSARY *continued*

<b>Employed <i>continued</i></b>	<ul style="list-style-type: none"> <li>■ worked for one hour or more for pay, profit, commission or payment in kind in a job or business, or on a farm (comprising employees, employers and own account workers); or</li> <li>■ worked for one hour or more without pay in a family business or on a farm (i.e. contributing family workers); or</li> <li>■ were employees who had a job but were not at work and were:             <ul style="list-style-type: none"> <li>■ away from work for less than four weeks up to the end of the reference week; or</li> <li>■ away from work for more than four weeks up to the end of the reference week and received pay for some or all of the four week period to the end of the reference week; or</li> <li>■ away from work as a standard work or shift arrangement; or</li> <li>■ on strike or locked out; or</li> <li>■ on workers' compensation and expected to return to their job; or</li> </ul> </li> <li>■ were employers or own account workers, who had a job, business or farm, but were not at work.</li> </ul>
<b>Employed full-time</b>	Employed persons who usually worked 35 hours or more a week (in all jobs) and those who, although usually working less than 35 hours a week, worked 35 hours or more during the reference week.
<b>Employed part-time</b>	Employed persons who usually worked less than 35 hours a week (in all jobs) and either did so during the reference week, or were not at work in the reference week.
<b>Frequency of involvement</b>	This refers to the average number of hours of involvement in the activity for the week(s) during which the person was involved in the 12 months prior to interview.
<b>Hobby activity</b>	Activities which were undertaken solely for the person's own use or for the use of their family or friends were classified as hobby activities. For this survey, data on hobby activities was only collected for art and craft, writing and music.
<b>Involvement</b>	A person is classified as having involvement (or work involvement) in a culture and leisure activity if they had any participation, paid or unpaid, in any one of the activities in the survey and some, or all, of that participation was not for the person's own use or for the use of their family or friends (i.e. was not a hobby activity).
<b>Labour force status</b>	A classification of the civilian population aged 15 years and over into employed, unemployed or not in the labour force, as defined. The definitions conform closely to the international standard definitions adopted by the International Conferences of Labour Statisticians.
<b>Main English speaking countries</b>	This refers to the main countries from which Australia receives, or has received, significant numbers of overseas settlers who are likely to speak English. These countries comprise the United Kingdom and Ireland, New Zealand, Canada, the United States of America and South Africa.
<b>Main job</b>	Where a person has more than one job, it was the respondent's decision as to which was the main job. It does not apply to persons who were unemployed or not in the labour force.
<b>Not in the labour force</b>	Persons who were not in the categories employed or unemployed as defined.
<b>Number of weeks of involvement</b>	This refers to the number of weeks during which the person was involved in the 12 months prior to interview, whether it was for one hour during the week or full-time.
<b>Paid involvement</b>	This includes involvement for which payment had already been received, or where payment had not yet been received for the finished product but was expected. This can include involvement where creators have been guaranteed payment on completion of their work, exhibits or artworks that may or may not be sold and writing that has not yet been accepted for publication. Payment also includes the provision of goods and services.

## GLOSSARY *continued*

<b>Participation rate</b>	For any group, this is the number of persons involved in the selected culture or leisure activities, expressed as a percentage of the civilian population in the same group.
<b>Rest of Australia</b>	This category includes all of the Australian Capital Territory and Northern Territory, and the six states outside of the capital cities. Refer also to State capital cities.
<b>Relevant qualification</b>	Respondents were asked whether they had ever completed a course or any other qualification related to activities they were involved in. It was the respondent's decision whether their course or qualification was related to a particular activity. Respondents were only asked about relevant qualifications for selected activities.
<b>Some paid involvement</b>	This category includes all persons who received financial payment or goods and services for their involvement, regardless of whether or not they had some unpaid involvement.
<b>State capital cities</b>	The six state capital cities are the Statistical Divisions for those capital cities as defined in <i>Australian Standard Geographical Classification (ASGC)</i> (cat. no. 1216.0).
<b>Unemployed</b>	Persons aged 15 years and over who were not employed during the reference week, and: <ul style="list-style-type: none"><li>■ had actively looked for full-time or part-time work at any time in the four weeks up to the end of the reference week and were available for work in the reference week; or</li><li>■ were waiting to start a new job within four weeks from the end of the reference week and could have started in the reference week if the job had been available then.</li></ul>
<b>Unpaid involvement</b>	This includes any unpaid involvement in the selected culture and leisure activities. It excludes involvement where goods and services were received or expected to be received (included in Paid involvement), and activities which were undertaken solely for the person's own use or for the use of their family or friends (classified as Hobby activity).
<b>Work involvement</b>	See Involvement.





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2628100013072

ISBN 9780642483461

RRP \$26.00