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# Work in Selected Culture/Leisure Activities

Australia

Statistics

# NOTES

## ABOUT THIS PUBLICATION

This publication contains results from the survey of Work in Selected Culture/Leisure Activities conducted in March 1997. It provides numbers and basic demographic characteristics of persons working in selected culture and leisure activities during the 12 months ended March 1997. It also gives data on the types of activities undertaken, the time spent on activities, whether or not any payment was received for involvement and whether the cultural involvement was part of their main job.

Some comparison with the March 1993 survey has been provided in the Appendix (pages 26-27).

Information on the concepts and methods used in the survey and interpretation, definitions and reliability of the results are given in the Explanatory Notes (pages 23-25), Technical Notes (pages 28-30) and Glossary (pages 31-35) respectively.

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## SYMBOLS AND OTHER USAGES

RSE	relative standard error
SE	standard error
*	subject to sampling variability too high for most practical purposes (i.e. relative standard error greater than 25%).
**	subject to sampling variability too high for practical purposes (i.e. relative standard error greater than 50%).
..	not applicable

\*\*\*\*\*

## ROUNDING

Where figures have been rounded, discrepancies may occur between sums of the component items and totals. Published percentages are calculated prior to rounding of the figures and therefore some discrepancy may occur between these percentages and those that could be calculated from the rounded figures.

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## INQUIRIES

For information about other ABS statistics and services, please refer to the back of this publication.

For further information about these statistics and the availability of related unpublished statistics, contact Roger Mableson on Adelaide (08) 8237 7449.

W. McLennan  
Australian Statistician

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## MAIN FEATURES

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### 12 MONTHS ENDED MARCH 1997

- There were 2.2 million people (15.1% of the Australian population aged 15 years and over) involved in some form of work relating to the culture and leisure activities covered in the survey. Of these, there were 877,000 people (6.1% of all persons aged 15 years and over) who received some payment for this work, and 1.3 million people (9.1% of all persons aged 15 years and over) who did not receive payment.
- The 35-44 years age group had the highest participation rate in culture and leisure activities.
- Generally, females had higher participation rates than males. This trend occurred in all States and Territories, in all age groups and by labour force status.
- Of the 877,000 people involved in a paid activity during the 12 months, 756,100 were employed at the time of the survey. There were 523,400 persons (69.2% of those employed) who undertook a cultural activity as part of their main job.
- There were almost 3.8 million involvements in culture and leisure activities by Australians, with the most common activities being writing, organising fetes, teaching cultural activities, music, design and performing arts. There were 1.4 million paid involvements, 58.3% of paid involvements were part of a person's main job.
- Almost 43% of involvements were of a short-term and part-time nature, being 13 weeks or less in duration and less than 10 hours per week.

# SUMMARY OF FINDINGS

## CULTURE AND LEISURE ACTIVITIES

There were 2.2 million people (15.1% of all persons) 15 years and over who were involved in some form of work in a culture and leisure activity in the 12 months to March 1997. Hobby involvements (i.e. for the person's own or family use) are not included in this figure. Approximately 40% of those involved received some payment for their involvement (see table 1).

Many persons were involved in more than one type of activity. The total number of involvements in culture and leisure activities was 3.8 million (see tables 5, 6 and 8), with the average number of involvements of those people involved being 1.7.

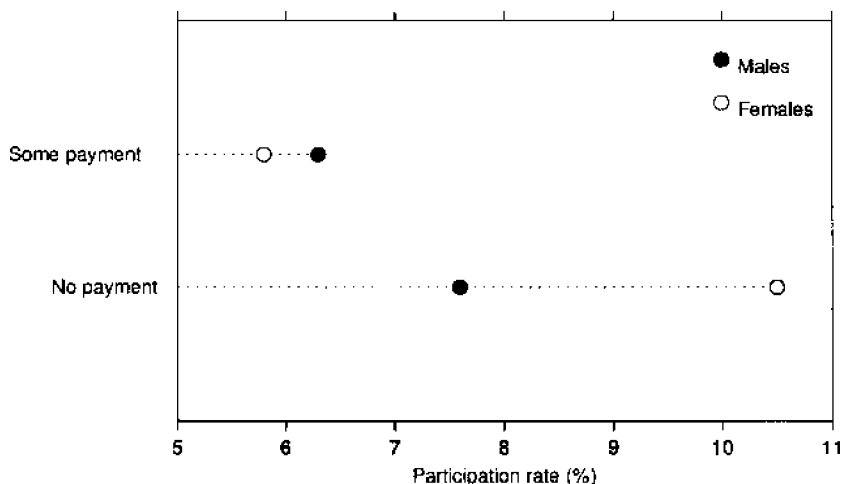
There were 756,100 people employed at the time of the survey who were involved in a paid cultural activity. Of these, 523,400 (69.2%) persons undertook a cultural activity as part of their main job (see table 4).

## CHARACTERISTICS OF PERSONS INVOLVED

### Sex

The participation rate for paid involvements was slightly higher for males than for females, 6.3% and 5.8% respectively. Females had higher unpaid involvements than males, with 767,400 (10.5%) females with unpaid involvement only, compared with 539,900 (7.6%) males (see table 2). Overall, 16.3% of females were involved in a cultural and leisure activity as compared with 13.9% of males (see table 3).

### PARTICIPATION RATE, By Payment Status



### Residence

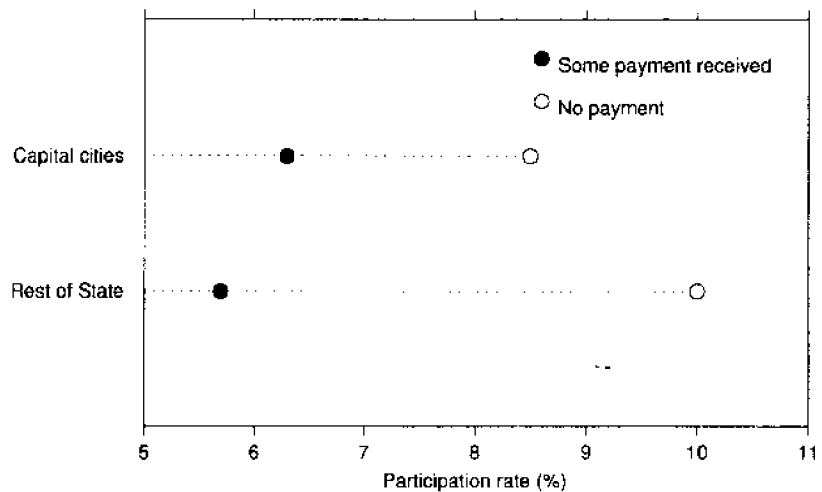
For both paid and unpaid involvements, persons living in the Australian Capital Territory had the highest participation rate of 25.8% (60,600 persons) compared with other States and Territories (see table 1). Lowest participation rates occurred in the larger states (New South Wales 14.1% and Victoria 14.5%).

# SUMMARY OF FINDINGS *continued*

## CHARACTERISTICS OF PERSONS INVOLVED *continued*

Participation rates for capital city residents and residents of the Rest of State region were 14.8% and 15.7% respectively (see table 3). For paid involvements there was a slightly higher rate for people residing in the capital city regions (6.3%) than people living outside the six State capital cities (5.7%). The rate for unpaid involvements was higher in Rest of State regions than for capital cities (10% and 8.5% respectively) (see table 2).

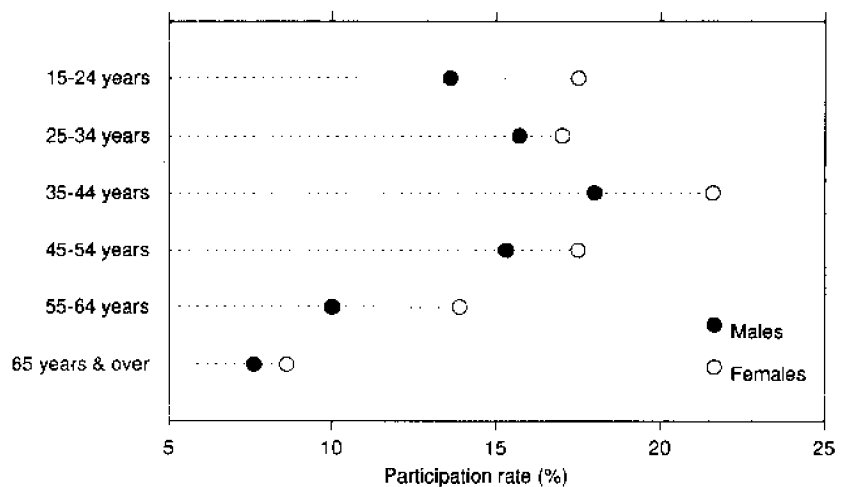
### PARTICIPATION RATE, By Region



## Age

Persons in the 35–44 year age group had a higher participation rate (19.8%) in the various culture and leisure activities than the other age groups. The lowest participation rate was with the 65 and older age group with 8.2% (see table 3). The trend was similar for all categories of payment status.

### PARTICIPATION RATE, By Age



# SUMMARY OF FINDINGS *continued*

## CHARACTERISTICS OF PERSONS INVOLVED *continued*

### Labour force status

There were 1.6 million or 18.5% of all employed persons in Australia who were involved in work in selected culture and leisure activities at some time during the 12 months ended March 1997 (see table 3) (labour force status was reported in the survey for the week prior to interview). Unemployed persons and those not in the labour force had participation rates in culture and leisure activities over the previous 12 months of 15.3% (127,600 persons) and 9.6% (493,300 persons) respectively.

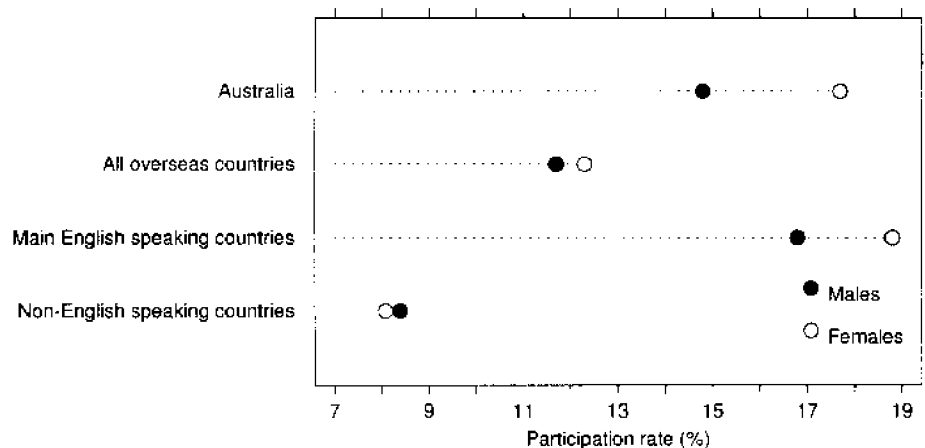
Females employed full-time in the week prior to interview had a slightly higher participation rate of 20.4% in cultural activities than males, 15.6%.

The participation rate was higher for part-time employed persons than for full-time employed persons, 22.2% and 17.2% respectively.

### Birthplace

Migrants from the main English speaking countries had a higher participation rate (17.8%) than persons born in Australia (16.3%) (see table 3). Persons born in non-English speaking overseas countries had a much lower participation rate of 8.3%.

### PARTICIPATION RATE, By Birthplace



## TYPE OF ACTIVITY

### Museums, art galleries and heritage organisations

Work in these organisations was predominantly unpaid. About 81.0% of the 46,500 persons involved in heritage organisations, 74.0% of the 39,500 persons working in museums and 63% of the 34,400 persons in art galleries had unpaid involvements.



## SUMMARY OF FINDINGS *continued*

### TYPE OF ACTIVITY *continued*

#### Botanic gardens and animal/marine parks

The number of persons working in these two activities was the lowest of all activities in the survey. There were 19,600 people involved in the operation or administration of animal or marine parks and 8,400 people involved in the operation or administration of botanic gardens. There were 12,400 involvements (44.3%) in these activities receiving some payment and 15,500 (55.4%) receiving no payment.

#### Writing

About 60.6% of the 542,800 persons involved in writing were unpaid. Of the remaining 213,600 persons involved, 120,500 had paid involvement only and the rest had both paid and unpaid involvement. There were 208,900 persons who wrote for newspapers or magazines (see table 10).

#### Publishing

Approximately 58.1% of the 113,700 persons involved with publishing received some payment.

#### Libraries or archives

About 55.0% of the 87,700 people involved in libraries or archives received some payment for their involvement.

#### Music

About 71.6% of the 260,300 persons involved in music were unpaid. There were 208,800 persons (80.2%) involved in music as a live performer and 51,500 persons (19.8%) involved in music other than as a live performer.

#### Performing arts

Some 68.5% of the 212,900 persons involved in performing arts were involved as a performer. Most involvements (82.4% or 175,400 persons) were unpaid.

#### Arts

There were 362,600 persons involved in an art activity (see table 9). Of these, 159,100 (43.9%) received some payment. Drawing and painting were the most popular art activities, with approximately 130,000 people involved in each activity.

#### Crafts

There were 327,600 persons involved in a craft activity (see table 9). Of these, 39.8% received some payment. One of the most popular craft activities was furniture-making with 88,500 persons involved.

#### Design

Approximately 67% of the 240,100 persons involved in design were paid.

#### Cinema/video and film production

Just under half (49.4 per cent) of these involvements were solely unpaid. There were 30,400 paid only involvements and 10,800 both unpaid and paid involvements.

## SUMMARY OF FINDINGS *continued*

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### TYPE OF ACTIVITY *continued*

#### Radio and television

Of the 84,600 persons involved in radio, only 22,800 (27.0%) received some payment. There were 56,700 people involved in television, of whom 64.0% received some payment for their involvement.

#### Teaching

There were 280,100 persons involved in teaching culture and leisure activities, and of these 176,700 persons (63.0%) received some payment for their involvement.

#### Art/craft show, fete and festival organising

About 91.8% of the 726,300 involvements were unpaid. There were 21,000 involvements carried out only for pay and 38,600 involving both paid and unpaid work.

#### Arts organisations or agencies

Of the 41,100 persons involved in arts organisations or agencies, 74.2% (30,500 persons) were unpaid.

### DURATION OF ACTIVITIES

Most involvements were of a short-term or part-time nature, particularly those that were unpaid, with a concentration in duration of less than 10 hours per week and 13 weeks or less (see table 8). Of the 3.8 million involvements in selected culture and leisure activities, 2.7 million or 70.3% were carried out for less than 10 hours per week. Approximately 8.9% of involvements were full-time (i.e. for 35 hours or more) for the weeks during which they were undertaken.

Most involvements in cultural activities tended to be undertaken for a few weeks only. Approximately 56.4% (2.1 million) of all involvements were carried out for 13 weeks or less, with 18.7% (707,300 involvements) for one to two weeks.

There were 42.8% of all involvements which were 13 weeks or less in duration and less than 10 hours of involvement per week.

### HOBBIES

Activities which were undertaken solely for the benefit or use of a person or their families is described as hobby involvement. It was only possible to identify persons with hobby involvement for the art/craft, writing and music activities (see Glossary page 31).

There were 2.6 million persons whose only involvement in the selected cultural and leisure activities was in a hobby capacity in one or more of the three hobby categories. In addition, there were almost 1.1 million persons with involvement in those hobby categories who also had a work involvement in at least one of the cultural and leisure activities covered in the survey (see table 11).

# 1

## PERSONS INVOLVED, Payment Status by State

<i>State and Territory</i>	<i>Paid involvement only</i>	<i>Paid and unpaid involvement</i>	<i>Unpaid involvement only</i>	<i>Total persons involved</i>	<i>Persons with no involvement</i>	<i>Total persons</i>	<i>Participation rate</i>
	'000	'000	'000	'000	'000	'000	%
<b>MALES</b>							
New South Wales	61.3	88.7	165.7	315.7	2 094.4	2 410.2	13.1
Victoria	46.4	58.9	126.2	231.5	1 541.4	1 772.9	13.1
Queensland	30.7	50.0	106.2	186.9	1 113.3	1 300.2	14.4
South Australia	14.4	25.0	57.1	96.6	482.1	578.6	16.7
Western Australia	16.0	26.4	52.2	94.6	594.1	688.8	13.7
Tasmania	3.4	9.2	15.1	27.7	153.9	181.6	15.3
Northern Territory	*1.1	2.2	4.0	7.3	44.6	51.9	14.1
Australian Capital Territory	6.2	9.9	13.3	29.3	86.0	115.3	25.4
<b>Australia</b>	<b>179.5</b>	<b>270.3</b>	<b>539.9</b>	<b>989.6</b>	<b>6 109.8</b>	<b>7 099.4</b>	<b>13.9</b>
<b>FEMALES</b>							
New South Wales	56.4	87.3	231.4	375.1	2 125.7	2 500.7	15.0
Victoria	36.5	59.1	197.1	292.7	1 558.4	1 851.1	15.8
Queensland	24.0	53.3	145.4	222.7	1 106.5	1 329.2	16.8
South Australia	10.4	28.3	74.8	113.5	485.4	598.9	18.9
Western Australia	17.3	28.6	72.8	118.7	577.6	696.3	17.0
Tasmania	2.6	6.6	20.9	30.1	157.7	187.8	16.1
Northern Territory	*0.8	3.8	6.1	10.6	40.2	50.8	20.9
Australian Capital Territory	3.9	8.4	18.9	31.3	88.2	119.4	26.2
<b>Australia</b>	<b>151.9</b>	<b>275.4</b>	<b>767.4</b>	<b>1 194.7</b>	<b>6 139.7</b>	<b>7 334.4</b>	<b>16.3</b>
<b>PERSONS</b>							
New South Wales	117.8	176.0	397.1	690.8	4 220.1	4 910.9	14.1
Victoria	82.8	118.0	323.3	524.2	3 099.8	3 624.0	14.5
Queensland	54.7	103.3	251.6	409.5	2 219.8	2 629.4	15.6
South Australia	24.8	53.3	132.0	210.1	967.5	1 177.5	17.8
Western Australia	33.3	55.1	125.0	213.4	1 171.7	1 385.1	15.4
Tasmania	6.0	15.8	36.0	57.9	311.6	369.4	15.7
Northern Territory	*1.9	5.9	10.1	17.9	84.8	102.7	17.4
Australian Capital Territory	10.1	18.3	32.2	60.6	174.1	234.7	25.8
<b>Australia</b>	<b>331.4</b>	<b>545.6</b>	<b>1 307.2</b>	<b>2 184.2</b>	<b>12 249.5</b>	<b>14 433.8</b>	<b>15.1</b>

## 2

## CHARACTERISTICS OF PERSONS INVOLVED, By Payment Status

Characteristics	PAID ONLY.....		PAID AND UNPAID.....		UNPAID ONLY.....	
	Number '000	Participation rate %	Number '000	Participation rate %	Number '000	Participation rate %
<b>Sex</b>						
Males	179.5	2.5	270.3	3.8	539.9	7.6
Females	151.9	2.1	275.4	3.8	767.4	10.5
<b>Age group (years)</b>						
15-24	42.4	1.6	91.0	3.4	276.7	10.5
25-34	104.9	3.7	141.7	5.0	217.3	7.7
35-44	84.6	3.0	157.0	5.6	312.9	11.2
45-54	73.4	3.1	99.6	4.2	214.6	9.1
55-64	21.3	1.4	38.6	2.5	126.6	8.1
65 and over	*4.8	0.2	17.7	0.8	159.1	7.1
<b>Labour force status</b>						
Employed full-time	249.7	4.0	324.3	5.2	504.6	8.0
Employed part-time	50.9	2.3	131.1	6.0	302.6	13.8
Total employed	300.7	3.5	455.4	5.4	807.2	9.5
Unemployed	12.4	1.5	30.5	3.6	84.7	10.1
Not in the labour force	18.3	0.4	59.7	1.2	415.3	8.1
<b>Region</b>						
Capital cities	238.2	2.7	329.4	3.7	757.9	8.5
Rest of State	93.2	1.7	216.2	4.0	549.3	10.0
<b>Birthplace</b>						
Australia	256.3	2.4	435.6	4.1	1 022.7	9.7
Overseas	75.0	1.9	110.0	2.8	284.5	7.3
Main English speaking countries	49.5	3.2	65.9	4.3	159.3	10.3
Non-English speaking countries	25.5	1.1	44.2	1.9	125.2	5.3
<b>Total persons</b>	<b>331.4</b>	<b>2.3</b>	<b>545.6</b>	<b>3.8</b>	<b>1 307.2</b>	<b>9.1</b>

## 3

## CHARACTERISTICS OF PERSONS INVOLVED, By Sex

Characteristics	MALES.....		FEMALES.....		PERSONS.....	
	<i>Number</i>	<i>Participation rate</i>	<i>Number</i>	<i>Participation rate</i>	<i>Number</i>	<i>Participation rate</i>
	'000	%	'000	%	'000	%
<b>Age group (years)</b>						
15-24	183.3	13.6	226.8	17.5	410.1	15.5
25-34	221.2	15.7	242.8	17.0	463.9	16.3
35-44	249.6	18.0	304.9	21.6	554.5	19.8
45-54	183.1	15.3	204.5	17.5	387.6	16.4
55-64	79.1	10.0	107.4	13.9	186.5	11.9
65 and over	73.3	7.6	108.3	8.6	181.6	8.2
<b>Labour force status</b>						
Employed full-time	660.8	15.6	417.8	20.4	1 078.7	17.2
Employed part-time	121.4	21.0	363.3	22.6	484.7	22.2
<i>Total employed</i>	<i>782.2</i>	<i>16.2</i>	<i>781.1</i>	<i>21.4</i>	<i>1 563.3</i>	<i>18.5</i>
Unemployed	64.3	13.5	63.3	17.6	127.6	15.3
Not in the labour force	143.1	7.9	350.3	10.5	493.3	9.6
<b>Region</b>						
Capital cities	616.9	14.1	708.6	15.5	1 325.5	14.8
Rest of State	372.7	13.7	486.1	17.7	858.7	15.7
<b>Birthplace</b>						
Australia	760.2	14.8	954.4	17.7	1 714.7	16.3
Overseas	229.3	11.7	240.2	12.3	469.6	12.0
Main English speaking countries	130.3	16.8	144.4	18.8	274.7	17.8
Non-English speaking countries	99.1	8.4	95.8	8.1	194.9	8.3
<b>Total persons</b>	<b>989.6</b>	<b>13.9</b>	<b>1 194.7</b>	<b>16.3</b>	<b>2 184.2</b>	<b>15.1</b>

# 4

## PERSONS WITH SOME PAID CULTURAL ACTIVITY, By Whether Part of Main Job

	MALES.....		FEMALES.....		PERSONS.....	
	<i>Number</i>	<i>Proportion</i>	<i>Number</i>	<i>Proportion</i>	<i>Number</i>	<i>Proportion</i>
<i>Labour force status for those with paid cultural activity(a)</i>	'000	%	'000	%	'000	%
<b>Employed</b>						
One job last week						
Paid cultural activity is part of this job	244.0	54.2	229.5	53.7	473.5	54.0
No paid cultural activity is part of this job	106.6	23.7	81.2	19.0	187.8	21.4
More than one job last week						
Paid cultural activity is part of main job	27.7	6.2	22.2	5.2	49.9	5.7
No paid cultural activity is part of main job	22.6	5.0	22.4	5.2	44.9	5.1
<b>Unemployed</b>						
Paid cultural activity was part of last job	9.7	2.2	8.8	2.0	18.5	2.1
No paid cultural activity was part of last job	12.4	2.8	12.0	2.8	24.4	2.8
<b>Not in the labour force</b>	26.8	6.0	51.2	12.0	78.0	8.9
<b>Total</b>	<b>449.7</b>	<b>100.0</b>	<b>427.3</b>	<b>100.0</b>	<b>877.0</b>	<b>100.0</b>

(a) Labour force status during the week prior to interview while cultural activity includes those undertaken in 12 months prior to interview.

## 5

## INVOLVEMENTS, By Type of Activity and Payment Status

Type of activity	Paid only	Paid and unpaid	Unpaid only	Total	Percentage of all cultural involvements
	'000	'000	'000	'000	%
Heritage organisations	*4.0	*4.7	37.8	46.5	1.2
Museums	7.4	*2.8	29.4	39.5	1.0
Art galleries	7.7	*4.9	21.8	34.4	0.9
Botanic gardens	*2.7	**0.9	*4.7	8.4	0.2
Animal/marine parks	*5.3	*3.5	10.8	19.6	0.5
Writing	120.5	93.1	329.2	542.8	14.4
Publishing	44.6	21.4	47.7	113.7	3.0
Libraries or archives	38.4	10.3	39.0	87.7	2.3
Music					
Live performer	9.6	50.7	148.6	208.8	5.5
No involvement as live performer	7.6	*6.0	37.8	51.5	1.4
Total	17.2	56.7	186.4	260.3	6.9
Performing arts					
Performer	9.9	16.1	119.7	145.8	3.9
No involvement as performer	7.3	*4.2	55.7	67.1	1.8
Total	17.2	20.3	175.4	212.9	5.6
Art activities					
Drawing	29.9	18.7	81.7	130.3	3.5
Painting	25.5	23.2	80.8	129.4	3.4
Sculpture	7.1	6.6	24.8	38.5	1.0
Photography	20.4	23.4	72.9	116.7	3.1
Print-making	13.7	*5.1	16.0	34.8	0.9
Electronic art	17.2	18.9	28.0	64.2	1.7
Other art	*3.1	*3.2	6.6	12.9	0.3
Craft activities					
Pottery/ceramics	11.9	11.6	45.1	68.6	1.8
Textiles	15.5	9.4	51.3	76.2	2.0
Jewellery	7.2	*4.4	10.1	21.6	0.6
Furniture-making/wood crafts	24.8	19.5	44.2	88.5	2.3
Glass crafts	*4.7	*4.3	12.2	21.2	0.6
Other crafts	14.3	16.1	65.5	95.8	2.5
Design	96.3	65.4	78.4	240.1	6.4
Film production	13.7	*5.0	20.1	38.8	1.0
Cinema/video	16.8	*5.8	20.1	42.7	1.1
Radio	15.6	7.2	61.8	84.6	2.2
Television	30.2	*6.2	20.4	56.7	1.5
Teaching cultural activities					
Secondary school teachers	33.1	25.3	13.0	71.4	1.9
Other teaching	72.2	46.1	90.4	208.7	5.5
Total	105.3	71.4	103.4	280.1	7.4
Fete organising	*2.5	6.8	369.6	378.8	10.0
Festival organising	10.5	18.3	173.9	202.7	5.4
Art/craft show organising	8.0	13.5	123.3	144.8	3.8
Arts organisations/agencies	*4.1	6.5	30.5	41.1	1.1
<b>Total involvements</b>	<b>763.1</b>	<b>589.0</b>	<b>2 422.9</b>	<b>3 775.0</b>	<b>100.0</b>

## 6

## INVOLVEMENTS, Type of Activity and State

Type of activity	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
NUMBER ('000)									
Heritage organisations	14.0	9.9	9.3	5.5	*3.3	2.7	**0.5	*1.3	46.5
Museums	12.5	*6.6	8.1	4.4	4.4	*1.7	**0.5	*1.5	39.5
Art galleries	9.9	11.9	*4.3	*2.3	*3.5	*1.2	**0.1	*1.2	34.4
Botanic gardens	**0.8	*2.0	*2.4	*1.7	**0.7	**0.2	**0.2	**0.3	8.4
Animal/marine parks	*4.4	*4.9	6.0	*2.0	*1.3	**0.2	**0.4	**0.4	19.6
Writing	154.0	134.2	106.2	56.8	54.8	12.8	5.1	18.8	542.8
Publishing	33.1	26.6	20.2	11.1	12.6	2.4	*0.6	7.1	113.7
Libraries or archives	26.3	19.3	14.3	10.1	11.6	1.8	*0.8	3.6	87.7
<b>Music</b>									
Live performer	55.3	49.5	42.6	23.0	23.4	6.4	*1.4	7.1	208.8
No involvement as live performer	20.9	12.7	7.2	4.4	*3.4	*1.3	**0.1	*1.4	51.5
Total	76.2	62.2	49.8	27.4	26.9	7.7	*1.5	8.5	260.3
<b>Performing arts</b>									
Performer	45.1	34.4	27.8	11.7	17.8	4.0	*1.1	3.7	145.8
No involvement as performer	23.5	17.1	11.9	5.6	6.3	1.8	**0.2	*0.8	67.1
Total	68.6	51.4	39.7	17.3	24.1	5.8	*1.4	4.5	212.9
<b>Art activities</b>									
Drawing	41.7	27.0	28.0	14.7	10.5	3.2	*2.0	3.3	130.3
Painting	37.6	28.0	31.0	12.4	11.4	3.2	*1.7	4.0	129.4
Sculpture	12.1	11.2	7.6	*2.3	*3.5	*0.7	*0.7	*0.5	38.5
Photography	43.9	21.3	22.3	9.5	10.6	3.5	*1.5	4.1	116.7
Print-making	12.5	7.5	6.7	4.0	*1.9	*0.7	**0.4	*1.0	34.8
Electronic art	23.7	12.9	11.8	4.8	7.6	*1.1	*0.6	*1.6	64.2
Other art	*4.8	*2.6	*3.4	**1.0	**0.5	**0.1	**0.3	**0.2	12.9
<b>Craft activities</b>									
Pottery/ceramics	20.4	18.0	14.8	6.3	6.0	*0.9	*0.9	*1.1	68.6
Textiles	23.5	18.6	12.7	11.1	5.3	*1.4	*1.3	2.2	76.2
Jewellery	*4.9	*4.6	5.4	*3.4	*2.1	*1.1	**	**0.3	21.6
Furniture-making/wood crafts	21.8	17.9	15.8	15.6	10.6	3.6	*1.3	1.8	88.5
Glass crafts	*5.9	*5.7	*4.7	*1.3	*2.8	*0.5	**0.1	**0.2	21.2
Other crafts	34.2	19.3	21.8	9.3	6.8	3.0	**0.5	*0.9	95.8
<b>Design</b>									
Film production	80.5	62.9	41.8	18.4	22.3	5.1	*1.6	7.5	240.1
Cinema/video	11.5	9.1	6.4	3.8	6.1	*1.0	*0.6	**0.4	38.8
Radio	14.1	9.8	6.9	5.7	4.4	*0.7	**0.4	*0.7	42.7
Television	26.5	23.8	14.4	7.1	7.3	*2.0	*1.3	2.2	84.6
<b>Teaching cultural activities</b>									
Secondary school teachers	22.3	9.8	10.7	*3.1	5.5	*1.6	*1.3	2.4	56.7
Other teaching	21.0	19.1	13.8	5.2	7.9	*1.7	**0.3	2.4	71.4
Total	59.3	43.7	47.9	20.5	23.7	6.0	*1.9	5.7	208.7
Total	80.3	62.9	61.6	25.7	31.6	7.7	2.2	8.1	280.1
<b>Fete organising</b>									
Festival organising	121.3	104.1	62.8	39.5	27.9	11.9	*1.9	9.4	378.8
Art/craft show organising	63.1	55.2	34.7	19.4	18.1	6.6	*1.3	4.3	202.7
Arts organisations/agencies	48.1	35.9	24.0	13.5	12.6	4.5	*1.7	4.7	144.8
	11.7	8.7	7.9	3.8	4.6	*1.3	*1.0	2.1	41.1
<b>Total involvements</b>	<b>1 166.1</b>	<b>905.7</b>	<b>717.6</b>	<b>374.6</b>	<b>363.1</b>	<b>101.8</b>	<b>35.8</b>	<b>110.3</b>	<b>3 775.0</b>



Type of activity	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
PROPORTION(a) (%)									
Heritage organisations	1.2	1.1	1.3	1.5	*0.9	2.7	**1.4	*1.1	1.2
Museums	1.1	*0.7	1.1	1.2	1.2	*1.6	**1.4	*1.3	1.0
Art galleries	0.8	1.3	*0.6	*0.6	*1.0	*1.1	**0.3	*1.1	0.9
Botanic gardens	**0.1	*0.2	*0.3	*0.5	**0.2	**0.2	**0.7	**0.2	0.2
Animal/marine parks	*0.4	*0.5	0.8	*0.5	*0.3	**0.2	**1.2	**0.3	0.5
Writing	13.2	14.8	14.8	15.2	15.1	12.6	14.4	17.0	14.4
Publishing	2.8	2.9	2.8	3.0	3.5	2.4	*1.7	6.4	3.0
Libraries or archives	2.3	2.1	2.0	2.7	3.2	1.7	*2.3	3.2	2.3
Music									
Live performer	4.7	5.5	5.9	6.1	6.4	6.3	*4.0	6.5	5.5
No involvement as live performer	1.8	1.4	1.0	1.2	*0.9	*1.3	**0.3	*1.3	1.4
Total	6.5	6.9	6.9	7.3	7.4	7.6	*4.3	7.7	6.9
Performing arts									
Performer	3.9	3.8	3.9	3.1	4.9	3.9	*3.2	3.4	3.9
No involvement as performer	2.0	1.9	1.7	1.5	1.7	1.7	**0.6	*0.7	1.8
Total	5.9	5.7	5.5	4.6	6.6	5.7	*3.8	4.1	5.6
Art activities									
Drawing	3.6	3.0	3.9	3.9	2.9	3.1	5.5	3.0	3.5
Painting	3.2	3.1	4.3	3.3	3.1	3.2	*4.8	3.7	3.4
Sculpture	1.0	1.2	1.1	*0.6	*1.0	*0.6	*1.9	*0.4	1.0
Photography	3.8	2.4	3.1	2.5	2.9	3.4	*4.2	3.7	3.1
Print-making	1.1	0.8	0.9	1.1	*0.5	*0.6	***1.2	*0.9	0.9
Electronic art	2.0	1.4	1.6	1.3	2.1	*1.1	*1.7	*1.5	1.7
Other art	*0.4	*0.3	*0.5	**0.3	**0.1	**0.1	**0.9	**0.2	0.3
Craft activities									
Pottery/ceramics	1.7	2.0	2.1	1.7	1.7	*0.9	*2.6	*1.0	1.8
Textiles	2.0	2.0	1.8	3.0	1.5	*1.4	*3.5	2.0	2.0
Jewellery	*0.4	*0.5	0.8	*0.9	*0.6	*1.1	**	**0.3	0.6
Furniture-making/wood crafts	1.9	2.0	2.2	4.2	2.9	3.6	*3.6	1.6	2.3
Glass crafts	*0.5	*0.6	*0.6	*0.4	*0.8	*0.5	**0.2	**0.2	0.6
Other crafts	2.9	2.1	3.0	2.5	1.9	3.0	**1.5	*0.8	2.5
Design	6.9	6.9	5.8	4.9	6.1	5.0	*4.3	6.8	6.4
Film production	1.0	1.0	0.9	1.0	1.7	*0.9	*1.7	**0.3	1.0
Cinema/video	1.2	1.1	1.0	1.5	1.2	*0.7	**1.0	*0.6	1.1
Radio	2.3	2.6	2.0	1.9	2.0	*1.9	*3.5	2.0	2.2
Television	1.9	1.1	1.5	*0.8	1.5	*1.6	*3.8	2.2	1.5
Teaching cultural activities									
Secondary school teachers	1.8	2.1	1.9	1.4	2.2	*1.7	**0.8	2.2	1.9
Other teaching	5.1	4.8	6.7	5.5	6.5	5.9	*5.3	5.2	5.5
Total	6.9	6.9	8.6	6.9	8.7	7.5	6.0	7.4	7.4
Fete organising	10.4	11.5	8.7	10.6	7.7	11.7	*5.3	8.5	10.0
Festival organising	5.4	6.1	4.8	5.2	5.0	6.5	*3.7	3.9	5.4
Art/craft show organising	4.1	4.0	3.3	3.6	3.5	4.4	*4.6	4.2	3.8
Arts organisations/agencies	1.0	1.0	1.1	1.0	1.3	*1.3	*2.9	1.9	1.1
<b>Total involvements</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

(a) Number of involvements in a specific activity divided by total number of culture and leisure involvements in the State and Territory.

## PAID INVOLVEMENTS, By Type of Activity and Whether Part of Main Job(a)

Type of activity	CURRENTLY IN LABOUR FORCE.....				
	Involvement part of main job '000	Involvement not part of main job '000	Not in labour force '000	Total '000	Proportion that are part of main job %
Heritage organisations	*4.8	*3.0	**0.9	8.7	*55.2
Museums	*6.3	*2.5	**1.4	10.2	*61.8
Art galleries	6.8	*5.3	*0.5	12.6	54.0
Botanic gardens	*2.4	**1.3	**	*3.7	*64.9
Animal/marine parks	*4.6	*3.1	**1.1	8.8	*52.3
Writing	127.5	70.1	16.0	213.6	59.7
Publishing	45.4	17.4	*3.2	66.0	68.8
Libraries or archives	40.1	*6.3	*2.2	48.6	82.5
<b>Music</b>					
Live performer	14.5	39.3	*6.4	60.2	24.1
No involvement as live performer	*5.9	7.6	**0.1	13.6	*43.4
Total	20.4	46.9	6.5	73.8	27.6
<b>Performing arts</b>					
Performer	7.8	15.2	*3.1	26.1	29.9
No involvement as performer	*5.6	*4.6	**1.3	11.5	*48.7
Total	13.4	19.7	*4.4	37.5	35.7
<b>Art activities</b>					
Drawing	27.4	15.6	*5.6	48.6	56.4
Painting	20.8	18.2	9.7	48.7	42.7
Sculpture	7.2	*3.1	*3.3	13.6	52.9
Photography	23.4	16.7	*3.8	43.9	53.3
Print-making	13.5	*4.7	**0.7	18.9	71.4
Electronic art	25.9	8.1	*2.1	36.1	71.7
Other art	*3.6	*2.2	**0.5	*6.3	*57.1
<b>Craft activities</b>					
Pottery/ceramics	12.0	7.7	*3.8	23.5	51.1
Textiles	12.9	7.2	*4.7	24.8	52.0
Jewellery	6.8	*2.7	*2.0	11.5	59.1
Furniture-making/wood crafts	20.5	19.4	4.3	44.2	46.4
Glass crafts	*4.0	*4.1	**0.9	9.0	*44.4
Other crafts	13.3	12.2	*4.9	30.4	43.8
<b>Design</b>	116.8	38.3	6.6	161.7	72.2
<b>Film production</b>	10.2	7.8	**0.7	18.7	54.5
<b>Cinema/video</b>	14.7	6.5	**1.4	22.6	65.0
<b>Radio</b>	12.5	8.4	*2.0	22.9	54.6
<b>Television</b>	24.0	11.3	**1.1	36.4	65.9
<b>Teaching cultural activities</b>					
Secondary school teachers	43.9	10.2	*4.3	58.4	75.2
Other teaching	66.0	46.1	*6.3	118.4	55.7
Total	109.8	56.3	10.6	176.7	62.1
<b>Fete organising</b>	*5.0	*4.2	**	9.2	*54.3
<b>Festival organising</b>	14.5	13.2	**1.2	28.9	50.2
<b>Art/craft show organising</b>	11.4	7.9	*2.2	21.5	53.0
<b>Arts organisations/agencies</b>	*6.0	*4.1	**0.5	10.6	*56.6
<b>Total Involvements(b)</b>	<b>788.0</b>	<b>455.5</b>	<b>108.7</b>	<b>1 352.2</b>	<b>58.3</b>

(a) Comprises paid only involvements and involvements where there is a paid component and an unpaid component.

(b) Refer to paragraph 11 in the Explanatory Notes.

## INVOLVEMENTS. Number of Weeks Involved and Usual Hours of Involvement

## HOURS PER WEEK.....

Number of weeks of involvement:	less than 3	3 to less than 10	10 to less than 20	20 to less than 35	35 or more	Total
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## SOME PAYMENT RECEIVED(b) ('000)

1-2	29.0	43.2	22.7	19.3	*15.3	129.5
3-4	27.9	51.8	20.1	*16.0	*10.4	126.1
5-13	63.3	93.2	46.1	24.5	29.1	256.2
14-26	38.9	66.1	37.8	*16.1	21.9	180.7
27-47	42.2	66.0	43.0	37.8	44.8	233.7
48-52	43.8	102.8	73.6	50.7	155.0	425.9
<b>Total</b>	<b>245.0</b>	<b>423.0</b>	<b>243.3</b>	<b>164.3</b>	<b>276.5</b>	<b>1 352.2</b>

## NO PAYMENT RECEIVED ('000)

1-2	187.3	240.4	84.4	37.9	27.8	577.8
3-4	152.7	175.8	48.6	*14.2	*6.2	397.5
5-13	270.8	283.3	56.1	20.0	*10.9	641.1
14-26	108.0	122.5	21.9	*8.5	**3.3	264.2
27-47	89.7	112.6	23.8	*4.7	**2.8	233.6
48-52	106.3	135.1	44.7	*14.6	*8.1	308.7
<b>Total</b>	<b>914.8</b>	<b>1 069.6</b>	<b>279.5</b>	<b>99.8</b>	<b>59.1</b>	<b>2 422.9</b>

## ALL INVOLVEMENT ('000)

1-2	216.3	283.5	107.1	57.2	43.2	707.3
3-4	180.6	227.6	68.7	30.2	16.6	523.6
5-13	334.1	376.5	102.3	44.5	40.0	897.3
14-26	146.9	188.6	59.7	24.6	25.2	444.9
27-47	131.9	178.7	66.8	42.4	47.6	467.4
48-52	150.1	237.9	118.3	65.3	163.1	734.6
<b>Total</b>	<b>1 159.8</b>	<b>1 492.6</b>	<b>522.8</b>	<b>264.1</b>	<b>335.6</b>	<b>3 775.0</b>

## SOME PAYMENT RECEIVED(b) (%)

1-2	2.1	3.2	1.7	1.4	*1.1	9.6
3-4	2.1	3.8	1.5	*1.2	*0.8	9.3
5-13	4.7	6.9	3.4	1.8	2.2	18.9
14-26	2.9	4.9	2.8	*1.2	1.6	13.4
27-47	3.1	4.9	3.2	2.8	3.3	17.3
48-52	3.2	7.6	5.4	3.8	11.5	31.5
<b>Total</b>	<b>18.1</b>	<b>31.3</b>	<b>18.0</b>	<b>12.2</b>	<b>20.5</b>	<b>100.0</b>

## NO PAYMENT RECEIVED (%)

1-2	7.7	9.9	3.5	1.6	1.1	23.8
3-4	6.3	7.3	2.0	*0.6	*0.3	16.4
5-13	11.2	11.7	2.3	0.8	*0.5	26.5
14-26	4.5	5.1	0.9	*0.4	*0.1	10.9
27-47	3.7	4.6	1.0	*0.2	**0.1	9.6
48-52	4.4	5.6	1.8	*0.6	*0.3	12.7
<b>Total</b>	<b>37.8</b>	<b>44.1</b>	<b>11.5</b>	<b>4.1</b>	<b>2.4</b>	<b>100.0</b>

## ALL INVOLVEMENT (%)

1-2	5.7	7.5	2.8	1.5	1.1	18.7
3-4	4.8	6.0	1.8	0.8	0.4	13.9
5-13	8.8	10.0	2.7	1.2	1.1	23.8
14-26	3.9	5.0	1.6	0.7	0.7	11.8
27-47	3.5	4.7	1.8	1.1	1.3	12.4
48-52	4.0	6.3	3.1	1.7	4.3	19.5
<b>Total</b>	<b>30.7</b>	<b>39.5</b>	<b>13.9</b>	<b>7.0</b>	<b>8.9</b>	<b>100.0</b>

(a) In the last 12 months.

(b) Comprises paid only involvements and involvements where there is a paid component and an unpaid component.

	Art activities(a)	Craft activities(a)
	'000	000
New South Wales	123.8	99.9
Victoria	76.4	73.4
Queensland	73.7	66.4
South Australia	31.3	41.0
Western Australia	32.6	28.5
Tasmania	9.2	9.5
Northern Territory	4.0	3.6
Australian Capital Territory	11.7	5.4
Payment status		
Some payment received (b)	159.1	130.3
No payment received	203.5	197.3
<b>Total persons(c)</b>	<b>362.6</b>	<b>327.6</b>
Total involvements	526.8	371.9

(a) See Glossary for activities included in art and craft.

(b) Comprises people with paid involvement only and people with both paid and unpaid involvement.

(c) Refer to paragraph 14 in the Explanatory notes.

Type of activity	Males '000	Females '000	Persons '000
<b>Writing</b>			
Educational books	58.3	42.1	100.4
Other books	29.3	21.4	50.8
Newspapers or magazines	108.6	100.3	208.9
Journals	87.1	50.1	137.3
Other	85.6	82.3	167.9
<i>Total persons involved</i>	<i>300.1</i>	<i>242.7</i>	<i>542.8</i>
<b>Performing arts performer</b>			
Theatre	27.1	47.3	74.4
Opera	**1.4	*2.0	*3.5
Dance	11.0	46.8	57.8
Other	13.2	15.2	28.3
<i>Total persons involved</i>	<i>46.6</i>	<i>99.2</i>	<i>145.8</i>
<b>Design</b>			
Graphic	62.8	42.9	105.8
Fashion	6.6	26.6	33.1
Multimedia	34.9	13.6	48.5
Other design	58.6	25.6	84.3
<i>Total persons involved</i>	<i>142.7</i>	<i>97.4</i>	<i>240.1</i>
<b>Teaching activities</b>			
Radio, television, film or video	24.5	17.2	41.6
Music or performing arts	44.8	68.2	113.1
Art or craft	26.8	78.1	104.9
Writing	29.2	29.2	58.4
Design	21.3	12.4	33.7
<i>Total persons involved</i>	<i>116.4</i>	<i>163.6</i>	<i>280.1</i>

(a) Sum of components do not add to totals as some people were engaged in more than one field of activity but were only counted once for estimates on total persons involved.

(b) Refer to paragraph 15 in the Explanatory notes.

	MALES.....		FEMALES.....		PERSONS.....	
	<i>Number</i>	<i>Participation rate</i>	<i>Number</i>	<i>Participation rate</i>	<i>Number</i>	<i>Participation rate</i>
<i>Culture and leisure involvement</i>	'000	%	'000	%	'000	%
.....						
Type of involvement						
Work capacity only	625.2	8.8	497.8	6.8	1 123.0	7.8
Both work and hobby capacity	364.4	5.1	696.9	9.5	1 061.2	7.4
Total	989.6	13.9	1 194.7	16.3	2 184.2	15.1
Hobby capacity only	797.1	11.2	1 754.0	23.9	2 551.1	17.7
<b>Total</b>	<b>1 786.7</b>	<b>25.2</b>	<b>2 948.7</b>	<b>40.2</b>	<b>4 735.4</b>	<b>32.8</b>

(a) Hobby activities includes only art/craft, writing and music.

# EXPLANATORY NOTES

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## INTRODUCTION

**1** This publication presents results from the supplementary survey of the March 1997 Monthly Population Survey. It contains estimates of the number of people who were involved in selected culture and leisure activities classified by type of activity. It also provides details on the characteristics of people involved and the nature of work, whether paid or unpaid and whether involvement was related to their main job.

## SCOPE

**2** The survey covered urban and rural areas across all States and Territories of Australia. Persons aged 15 years and over who were usual residents of private and non-private dwellings were included. See *Labour Force, Australia* (Cat. no. 6203.0) for more details.

**3** It excludes some 175,000 persons living in remote and sparsely settled parts of Australia. The exclusion of these persons will only have a minor impact on any aggregate estimates that are produced for individual States and Territories, with the exception of the Northern Territory where such persons account for over 20% of the population.

## COVERAGE

**4** Coverage rules were applied which aimed to ensure that each person is associated with only one dwelling, and hence has only one chance of selection. See *Labour Force, Australia* (Cat. no. 6203.0) for more details.

## DATA COLLECTION METHODOLOGY

**5** The survey was conducted on a sub-sample of the monthly population survey sample. The monthly population survey (which is described in *Labour Force, Australia* (Cat. no. 6203.0)) comprises the monthly labour force and supplementary topics. The household sample was selected using multi-stage sampling techniques and included just under 30,000 dwellings. Two randomly selected respondents per household from seven-eighths of the dwellings selected in the Labour Force Survey (i.e. approximately 45,600 persons) were asked additional questions by trained interviewers relating to work involvement in selected culture and leisure activities. The information was collected by personal interview.

## RELIABILITY OF THE ESTIMATES

### Sampling error

**6** The estimates provided in this publication are subject to two types of error.

**7** Sampling error occurs because a sample rather than the entire population is surveyed. One measure of the likely difference resulting from not including all dwellings in the survey is given by the standard error (SE). Further information together with details of the sampling error in respect of different levels of estimate is given in the Technical Notes.

### Non-sampling error

**8** Non-sampling error arises from inaccuracies in collecting, recording and processing data and comprise some of the following:

- inability to obtain comprehensive data from all people included in the sample. The errors arise because of differences which exist between the characteristics of respondents and non-respondents;

## EXPLANATORY NOTES *continued*

### RELIABILITY OF THE ESTIMATES *continued*

- errors in reporting on the part of both the respondent and the interviewer. These errors may arise due to the inappropriate wording of questions, misunderstanding of what data is required, answers that were based on memory and inability or unwillingness to provide accurate information.
  - errors arising during the processing of the survey data. These processing errors may arise through mistakes in coding and data recording.
- 9 Every effort is made to minimise these types of errors. In particular, the effects of reporting and processing errors described above were minimised by careful questionnaire design, intensive training and supervision of interviewers and extensive editing and quality control checking at all stages of data processing.

### DATA INTERPRETATION

10 Work by a person in an individual 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 month reference period. For example, a person who worked in different libraries was recorded once only as being involved in libraries. Therefore, figures shown for an individual activity represent counts of persons who worked in that activity.

11 Where a person was involved in more than one of the selected activities included in the survey, that person was counted once in each of those activities. For example, a person involved in both museums and art galleries would have been counted once against museums and once against art galleries. Therefore, for an individual activity (e.g. museums), the number of involvements and the number of persons involved in that activity (e.g. museums) will be equal. However, as a person can work in more than one activity, the summation of involvements in all cultural activities does not equate with the total number of persons involved.

12 Involvements were classified into 3 categories, namely paid only, unpaid only, and paid and unpaid. The appropriate category for an individual was determined by considering all their work undertaken in an activity. Where persons were involved in more than one of the selected activities of the survey, the nature of the payment status for all culture and leisure activities (as presented in tables 1, 2, 4 and 9) 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 paid and unpaid.

13 Paid cultural activity as presented in table 4 was classified into two categories, namely cultural activity part of main job and cultural activity not part of main job. Where persons were involved in more than one type of paid cultural activity, they were classified to cultural activity part of main job if one of their activities fulfilled this criteria.

14 Table 9 presents additional detail of the numbers associated with art and craft activities. It provides details by State and Territory and also by payment basis. The total number of involvements shown in table 9 is consistent with those of table 5. In table 5, data is provided on the number of persons involved in each of the art and craft activities.



## EXPLANATORY NOTES *continued*

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### DATA INTERPRETATION *continued*

**15** Additional information on certain activities, namely, writing, performing art performances, design and teaching has been provided in table 10. It provides a breakdown on the number of people involved in the different fields of each activity. The total presented for each activity in table 10 corresponds to the total figure of that activity in table 5.

**16** The ordering of the culture/leisure activities in tables 5, 6 and 7 correspond to the ordering of culture and leisure activities from the *National Culture-Leisure Industry Framework, Fourth Edition*.

**17** ABS publications draw extensively on information provided freely 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*.

### RELATED PUBLICATIONS

**18** Other ABS publications which include information on work in culture/leisure activities include:

*Cultural Trends in Australia : A Statistical Overview* (Cat. no. 4172.0)

*Employment in Selected Culture/Leisure Occupations, Australia, 1991*  
(Cat. no. 6273.0)

*Film and Video Production and Distribution, Australia, 1993-94*  
(Cat. no. 8679.0)

*How Australians Use Their Time, 1992* (Cat. no. 4153.0)

*Music and Performing Arts 1991, Australia* (Cat. no. 4116.0)

*Radio and Television Services, Australia, 1993-94* (Cat. no. 8680.0)

*Voluntary Work, Australia, 1994-95* (Cat. no. 4441.0)

*Work in Selected Culture/Leisure Activities, Australia, March 1993*  
(Cat. no. 6281.0)

## APPENDIX — COMPARISON WITH 1993 SURVEY

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The March 1997 survey methodology and questionnaire changed slightly from the March 1993 version. In the 1993 survey, the interview was conducted using face-to-face interviewing techniques. For the 1997 survey, the Monthly Population Survey methodology changed to include, where appropriate, personal telephone interviewing. A number of questions in 1993 involved prompt cards. In 1997, the categories shown on these prompt cards were read over the telephone. This change in technique may have affected the response to some questions.

There were also a few changes made to the questionnaire in the 1997 survey which would have had some effect on the response numbers, notably for the activities: design, writing and publishing. In 1997, the design of multimedia titles and architectural design were included as design but were not specifically included in the 1993 survey. The question relating to writing and publishing was separated and worded differently in 1997, possibly resulting in more people reporting they had some involvement in writing. For art and craft activities, a change in the questionnaire and telephone interviews may have had an effect on numbers involved.

While caution should be exercised in making comparisons between the surveys due to the changes outlined above, the following table provides summary data from both surveys.

APPENDIX — COMPARISON WITH 1993 SURVEY *continued*

COMPARISON WITH 1993 SURVEY

Type of activity	SOME PAYMENT RECEIVED(a).....		ALL INVOLVEMENTS..	
	1993 '000	1997 '000	1993 '000	1997 '000
Heritage organisations	5.9	8.7	48.1	46.5
Museums	7.1	10.2	32.6	39.5
Art galleries	7.9	12.6	28.3	34.5
Writing/publishing	133.2	250.9	273.3	597.7
Libraries or archives	50.3	48.7	85.3	87.7
Music				
Live performer	55.9	60.3	198.6	208.8
No involvement as live performer	11.8	13.6	32.5	51.5
Total	67.7	73.9	231.1	260.3
Performing arts				
Performer	20.1	26.0	134.8	145.8
No involvement as performer	14.5	11.5	80.2	67.1
Total	34.5	37.5	215.0	212.9
Art activities				
Drawing	47.3	48.6	95.4	130.3
Painting	44.7	48.7	81.1	129.4
Sculpture	9.4	13.7	18.9	38.4
Photography	33.5	43.8	76.6	116.7
Print-making	21.9	18.8	36.7	34.8
Craft activities				
Pottery or ceramics	19.4	23.5	31.2	68.6
Textiles	39.8	24.9	95.5	76.2
Jewellery	12.4	11.6	19.0	21.6
Furniture-making/wood crafts	28.0	44.3	44.6	88.5
Glass crafts	4.3	9.0	7.4	21.2
Other art/craft activities(b)	23.7	72.3	51.5	169.7
Design(c)	56.5	161.7	86.8	240.1
Cinema or video/film production	37.4	39.4	82.4	77.4
Radio	15.8	22.8	65.4	84.6
Television	23.2	36.4	38.3	56.7
Teaching	164.0	176.7	284.3	280.1
Fete/festival organising	30.4	37.3	441.8	562.9
Art/craft show organising	20.8	21.5	134.0	144.8
Arts organisation or agency	18.7	10.6	69.6	41.1

(a) Comprises people with paid involvement only and people with paid and unpaid involvement.

(b) Electronic art, other art activities and other craft activities were separately identified in the 1997 survey but not in 1993. For the purpose of this table they are combined as other art/craft activities.

(c) Design of multimedia titles and architectural design were included in the 1997 survey, but not in 1993.

# TECHNICAL NOTES

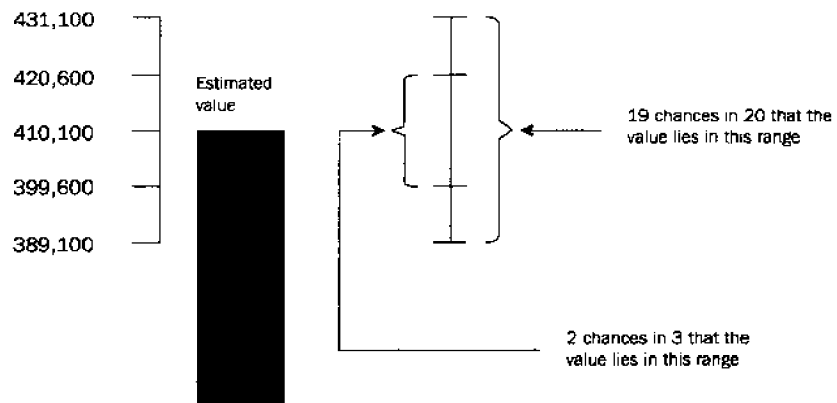
## SAMPLING VARIABILITY

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 that would have been produced if all dwellings had been included in the survey. One measure of the likely difference is given by the SE, which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings was included. There are about two chances in three (67%) that a sample estimate will vary 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.

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. The RSE is a useful measure in that it provides an immediate indication of the percentage of errors likely to have occurred due to sampling.

An example of the calculation and the use of SEs in relation to estimates of persons is as follows:

From table 3 an estimated 410,100 people aged between 15 and 24 years were involved in work in culture and leisure activities during the 12 months ended March 1997. Referring to the table of SEs, an estimate of 410,100 has a SE of approximately 10,500 people. There are about two chances in three that the number that would have been produced if all dwellings had been included in the survey was between 399,600 and 420,600 (i.e. 410,100 plus or minus 10,500). There are about 19 chances in 20 that the number lies between 389,100 and 431,100 (i.e. 410,100 plus or minus 21,000). This example is illustrated below.



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:

$$RSE(x/y) = \sqrt{[RSE(x)]^2 + [RSE(y)]^2}$$

SAMPLING VARIABILITY *continued*

From table 1, of the 115,300 males aged 15 years and over resident in the Australian Capital Territory, 29,300 (a participation rate of 25.4%) were involved in selected culture and leisure activities during the 12 months ended March 1997. The SE of 29,300 is about 1,290, so the RSE is  $1,290/29,300 \times 100 = 4.4\%$ . The RSE of 115,300 is approximately  $1,970/115,300 \times 100 = 1.7\%$ . Applying the above formula, the RSE of the participation rate 25.4% is  $\sqrt{(4.4)^2 - 1.7^2}$  or 4.1%. This then gives a SE of the proportion (25.4%) of  $(4.1/100) \times 25.4 = 1\%$ . Therefore, there are about two chances in three that the proportion of males living in the Australian Capital Territory involved in selected culture and leisure activities was between 24.4% and 26.4% and approximately 19 chances in 20 that the proportion was in the range 23.4% to 27.4%.

Particular care should be taken when comparing figures. It is not correct to assume that an apparent difference between figures is actually significant. An approximate SE of the difference between two estimates (x-y) may be calculated by the following formula:

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

While this formula will only be exact for differences between separate and uncorrelated characteristics of sub-populations it is expected to provide a good approximation for all differences likely to be of interest in this publication.

As the SEs in the following table show, the size of the SE increases with the size of the estimate. However, the smaller the estimate the higher is the RSE. Thus, large estimates will be relatively more reliable than smaller estimates. Very small estimates are subject to such high SEs (relative to the size of the estimate) as to detract seriously from their value for most reasonable uses. In the tables in this publication, only estimates with RSEs of 25% or less and percentages based on such estimates are considered sufficiently reliable for most purposes. However, estimates and percentages with larger RSEs have been included and are preceded by an asterisk (e.g. \*2.8) to indicate that they should be treated with caution and viewed as being merely indicative of the magnitude involved.

The SEs of estimates of persons are not applicable to some estimates of involvements, in particular, table 8 and the totals presented in tables 5, 6 and 7. However, those estimates of involvements having a RSE greater than 25% are preceded by single asterisk and for those estimates having a RSE greater than 50% are preceded by a double asterisk.

# TECHNICAL NOTES *continued*

## STANDARD ERRORS OF ESTIMATES

Size of estimate '000 persons	AUSTRALIA.....								Relative standard error	
	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australian Capital Territory	no.	%
0.1	..	..	..	..	..	100	110	90	..	..
0.2	..	..	..	220	..	140	160	140	..	..
0.3	..	..	300	270	280	180	190	170	320	106.7
0.5	500	460	400	340	350	230	250	230	420	84.0
0.7	590	550	470	410	410	270	290	270	500	71.4
1.0	710	660	570	480	490	320	340	320	610	61.0
1.5	870	800	700	590	590	380	410	390	760	50.7
2.0	1 010	930	810	670	670	430	470	440	880	44.0
2.5	1 120	1 040	910	740	740	480	520	490	990	39.6
3.0	1 230	1 130	990	810	800	520	560	530	1 090	36.3
4.0	1 410	1 300	1 140	920	910	590	630	600	1 260	31.5
5.0	1 570	1 450	1 270	1 010	1 010	650	690	660	1 410	28.2
7.0	1 830	1 700	1 500	1 170	1 160	760	790	760	1 670	23.9
10.0	2 160	2 010	1 770	1 370	1 350	880	910	870	1 990	19.9
15.0	2 600	2 430	2 130	1 620	1 600	1 040	1 050	1 020	2 420	16.1
20.0	2 960	2 770	2 430	1 820	1 800	1 170	1 170	1 130	2 770	13.9
30.0	3 540	3 330	2 910	2 140	2 120	1 380	1 350	1 300	3 350	11.2
50.0	4 410	4 180	3 630	2 610	2 590	1 690	1 590	1 540	4 240	8.5
70.0	5 090	4 840	4 180	2 960	2 950	1 920	1 770	1 710	4 930	7.0
100.0	5 900	5 650	4 850	3 370	3 380	2 200	1 980	1 900	5 780	5.8
150.0	6 960	6 720	5 720	3 900	3 930	2 550	2 220	2 130	6 900	4.6
200.0	7 810	7 580	6 420	4 310	4 360	2 830	..	2 300	7 810	3.9
300.0	9 160	8 970	7 530	4 950	5 040	3 270	..	2 540	9 270	3.1
500.0	11 150	11 040	9 150	5 860	6 020	3 910	..	..	11 440	2.3
1 000.0	14 420	14 540	11 800	7 280	7 600	..	..	..	15 100	1.5
2 000.0	18 470	18 990	15 060	8 940	9 510	..	..	..	19 730	1.0
5 000.0	25 230	26 700	20 440	..	..	..	..	..	27 680	0.6
10 000.0	..	..	..	..	..	..	..	..	35 350	0.4

## GLOSSARY

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**Activities** Involvements in the various cultural and leisure activities included in the survey are defined below.

*Animal/marine parks.* Includes the operation or administration of an animal or marine park. Includes the operation or administration of zoos and wildlife sanctuaries.

*Art/craft.* People were involved in the creation of art or craft works only if some or all of the products made were sold (other than to the creator's own family) or publicly displayed. Activities undertaken only for a person's own use or that of their families were classed as hobbies and not included as a culture and leisure involvement. However, an indication of hobby involvements is shown in table 14. Art or craft involvement was categorised into the following groups:

*Art activities:* drawing, painting, sculpture, photography, print-making, electronic art, and other art activities.

*Craft activities:* pottery/ceramics, textiles, jewellery, glass crafts, furniture-making/woodcrafts, and other craft activities.

*Art/craft show organising.* Relates to the organisation of art/craft shows or exhibitions irrespective of size (e.g. local, school, community, professional).

*Art galleries.* Includes involvement in the operation or administration of an art gallery, either commercial or non-commercial (i.e. State or National galleries).

*Arts organisations/agencies.* Includes the administration of a government or public body set up for the support/administration of arts activities e.g. the Australia Council, State Arts departments, Government Regulatory Authorities, Arts Centres, Trusts etc. It also includes administrators of art companies e.g. theatre and dance companies. Artists/creators who do not perform administrative roles are included in other culture and leisure activities (e.g. music, performing arts).

*Botanic gardens.* Relates to the operation or administration of a botanic garden.

*Cinema/video.* Includes involvement in any capacity in cinemas, video hire outlets and video sales. Included are administrative functions such as catering or cleaning and front of house staff e.g. ushers. Involvements in distributing or screening films are also included. Video producers and script writers are included in other culture and leisure activities (e.g. film production, writing).

*Design.* Includes involvement in any design profession (e.g. fashion, interior, graphic, architectural or multimedia design), but excludes drafting. Multimedia design is for products intended for use on a computer or cartridge games machine.

*Drawing.* Includes sketching, cartoons, calligraphy and other forms of drawing but excludes technical drawing (e.g. drafting). Architectural drawing is included under design.

*Electronic art.* Includes art works created using electronically generated images.

*Festival organising.* Relates to organising any type of festival (e.g. ethnic, music, parade). Performers at festivals are included in other culture and leisure activities (e.g. music, performing arts).

*Fete organising.* Relates to organising any type of fete. Assisting with the operation of a stall etc. was outside the scope of the survey.

*Film production.* Includes involvement in any capacity in the production/making of films or videos. Actors, producers, designers, cameramen, directors or support/administrative staff involved in the production/making of films are included in this category. Involvements in distributing or screening films are excluded from this category and included with cinema/video.

*Furniture-making/wood crafts.* Includes wood carving, woodwork, inlaid woodwork, and furniture-making of individually crafted rather than factory made products. Wood sculpture is included with sculpture.

*Glass crafts.* Includes the making of any glass objects such as lead-lighting, glass blowing, moulding etc. of individually crafted rather than factory made products.

*Heritage organisations.* Includes involvement in the recording, preservation, management or operation of Aboriginal and/or historic environments (e.g. historic sites, monuments), or in a heritage organisation or association in any capacity. Members of National Trusts were included if they had undertaken any heritage activity apart from membership. People being paid to renovate heritage buildings (e.g. carpenters, tilers) were excluded, although voluntary renovation of a heritage building or site was included.

*Jewellery.* Includes the production of articles of jewellery from any material.

*Libraries or archives.* Includes any operation or administration of a library (including school libraries) or archives.

*Museums.* Includes any involvement in the operation or administration of a commercial or non-commercial museum including science, maritime or natural history museums and historical theme parks. Includes tour guides, curators, conservators etc.

*Music.* Involvement in any music capacity including playing, singing, music arranging, composing, songwriting, sound engineering, recording or publishing music and in support roles for musicians or ensembles. Performing on stage in music theatre was excluded from this category, and included as performing arts performances. Also booking agency operation was excluded. Music as a live performer includes playing musical instruments, conducting or singing in front of an audience.

*Other art activities.* Those activities that do not fit into any of the listed art categories. Includes activities such as leather, photocopy and paper art.

*Other craft activities.* Those activities that do not fit into any of the listed craft categories. Includes activities such as metal craft and decoupage.



*Painting.* Includes painting on any material, murals, frescoes, graffiti art and china painting.

*Performing arts.* Includes any type of involvement in theatre, dance, opera and music theatre and other performing arts other than performances of music. Includes acting and performing, directing, producing, choreographing performances, backstage work on activities such as making-up actors etc., costume making, set constructing and involvement as stage hands, sound or lighting technicians and front of house personnel. Involvement in school plays and other school related performances such as rock eisteddfods has been excluded. Performing arts performances includes any involvement in performing arts as an actor or performer in front of an audience regardless of whether there was involvement also in performing arts in another capacity (e.g. backstage, directing).

*Photography.* Includes commercial, industrial, advertising, fashion, portrait and wedding photography. Excluded are photographic modelling, processing or developing of film, retailing photographic equipment or supplies, and aerial photography.

*Pottery/ceramics.* Includes the production of individually created clay works made by or under the control of an artist or craftsperson.

*Print-making.* Includes all types of print-making such as silk-screen, lithography, wood-cut etc. Fabric printing is included with textiles.

*Publishing.* This activity covers involvement in the publication of works of fiction and non-fiction. Music publishing is included with music.

*Radio.* Includes involvement in any capacity (e.g. producers, announcers, sound technicians and administrative staff of radio stations) in the production, programming and operation of radio broadcasting services. Persons script writing and making recordings to play on radio who are not employed by or working voluntarily for a radio station are excluded from this category.

*Sculpture.* Includes the formation of figures or designs by cutting marble, wood, granite etc., or by fashioning plastic material, making moulds etc.

*Teaching.* Includes involvements in the teaching of all aspects of radio, television, film, video, music, performing arts, arts, crafts, writing, publishing and design. Includes instruction of dance or drama, music teaching, lecturing, 'work shop' leading and hobby class teaching. Any involvement as a primary school teacher was outside of the scope of the survey.

*Television.* Includes involvement in any capacity in the production, programming and operation of television broadcasting services. Participation in making in-house television programs in any capacity, e.g. announcing, producing, prop making, camera operation or directing and administration of television stations, are included in this category. Persons making films or videos that will be played on television (including commercials) who are not employed by or working voluntarily for a television station, have been excluded from this category but are included with film production.

*Textiles.* Includes weaving, knitting, embroidery, sewing, patchwork, macrame, quilting, spinning, lace making and fabric painting.

*Writing.* This covers the production of works of fiction and non-fiction and includes writing novels, short stories, poetry, plays, scripts, screenplays and biographies; copy writing, journalism, editing of written material and writing articles for journals, magazines, technical writing etc. Writing for own use or that of their family was classed as a hobby.

<b>Birthplace</b>	Classified according to the <i>Australian Standard Classification of Countries for Social Statistics (ASCCSS)</i> (Cat. no. 1269.0). The group 'Main English Speaking countries' comprises United Kingdom and Ireland, New Zealand, Canada, United States of America and South Africa.
<b>Capital city</b>	Is defined as the six State capital city Statistical Divisions. The Darwin Statistical Division and the Canberra Statistical Division are excluded from this category.
<b>Duration of activities</b>	The number of weeks of involvement in an activity during the previous 12 months and the average number of hours involved each week.
<b>Employed</b>	Persons aged 15 and over who, during the week prior to interview: <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: on paid leave; on leave without pay for less than four weeks up to the end of the week prior to interview; stood down without pay because of bad weather or plant breakdown at their place of employment for less than four weeks up to the end of the week prior to interview; on strike or locked out; on workers' compensation and expected to be returning to their job; or receiving wages or salary while undertaking full-time study; or</li> <li>▪ were employers, own account workers or contributing family workers who had a job, business or farm, but were not at work.</li> </ul>
<b>Hobby</b>	Where all involvement in art/craft, writing or music was either for person's own use or for the benefit of their family.
<b>Labour force status</b>	A classification of the civilian population aged 15 and over into employed, unemployed or not in the labour force, as defined.
<b>Main job</b>	Where a person has more than one job, the main job was that in which the person worked the most hours. Includes those people who are employed at the time of the survey or during the 12 months prior to the survey. Excludes people who were not in the labour force or unemployed for more than one year.
<b>Not in labour force</b>	Persons who were not in the categories employed or unemployed, as defined. They include persons who were keeping house (unpaid), retired, voluntarily inactive, permanently unable to work, persons in institutions (hospitals, gaols, sanatoriums, etc.), trainee teachers, members of contemplative religious orders, and persons whose only activity during the week prior to interview was jury service or unpaid voluntary work for a charitable organisation.

## GLOSSARY *continued*

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<b>Number of weeks of involvement</b>	The weeks in which persons were involved, whether it was for one hour for the week or full-time each day.
<b>Paid involvement in cultural activities</b>	Includes involvement for which payment has already been received as well as involvement done where payment has not yet been received for the finished product. This can include involvement where creators have been guaranteed payment on completion of their work, exhibitors or artworks that may or may not be sold and writing that has not yet been accepted for publication.
<b>Participation rate</b>	For any group, the number of people who took part in cultural activities, expressed as a percentage of the civilian population aged 15 years and over in the same group.
<b>Some payment</b>	For persons or involvements, this classification combines paid only and paid and unpaid involvement.
<b>Unemployed</b>	Persons aged 15 and over who were not employed during the week prior to interview, 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:</li><li>▪ were available for work in the week prior to interview, or would have been available except for temporary illness (i.e. lasting for less than four weeks to the end of the week prior to interview); or</li><li>▪ were waiting to start a new job within four weeks from the end of the week prior to interview and would have started in the week prior to interview if the job had been available then; or</li><li>▪ were waiting to be called back to a full-time or part-time job from which they had been stood down without pay for less than four weeks up to the end of the week prior to interview for reasons other than bad weather or plant breakdown.</li></ul>
<b>Unpaid involvement in cultural activities</b>	Voluntary involvement in culture and leisure activities. It also includes working unpaid overtime or working beyond a person's paid position on cultural activities.
<b>Work in culture and leisure activities</b>	Any participation, paid or unpaid, in culture and leisure activities in the survey, excluding involvement only as a hobby.

## For more information . . .

The ABS publishes a wide range of statistics and other information on Australia's economic and social conditions. Details of what is available in various publications and other products can be found in the ABS Catalogue of Publications and Products available from all ABS Offices.

### ABS Products and Services

Many standard products are available from ABS bookshops located in each State and Territory. In addition to these products, information tailored to the needs of clients can be obtained on a wide range of media by contacting your nearest ABS Office. The ABS also provides a Subscription Service for standard products and some tailored information services.

### National Dial-a-Statistic Line

0055 86 400

*Steadycom P/L: premium rate 25c/20 secs.*

This number gives 24-hour access, 365 days a year, for a range of important economic statistics including the CPI.

### Internet

<http://www.abs.gov.au>

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