



WORK IN SELECTED CULTURE AND LEISURE ACTIVITIES AUSTRALIA

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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 or Theo Neumann on Adelaide (08) 8237 7449.

NOTES

ABOUT THIS PUBLICATION This publication presents results from the Survey of Work in Selected Culture and Leisure Activities, conducted in April 2004. 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.

ABOUT THIS SURVEY The 2004 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 and 2001. 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. Information is not available on length of paid employment as part of the person's main job. The survey also asked about whether any training in arts or cultural fields was received. For a list of the culture and leisure activities included in the survey, refer to the Glossary.

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
MPS Monthly Population Survey
RSE relative standard error
SE standard error

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SUMMARY OF FINDINGS

INTRODUCTION

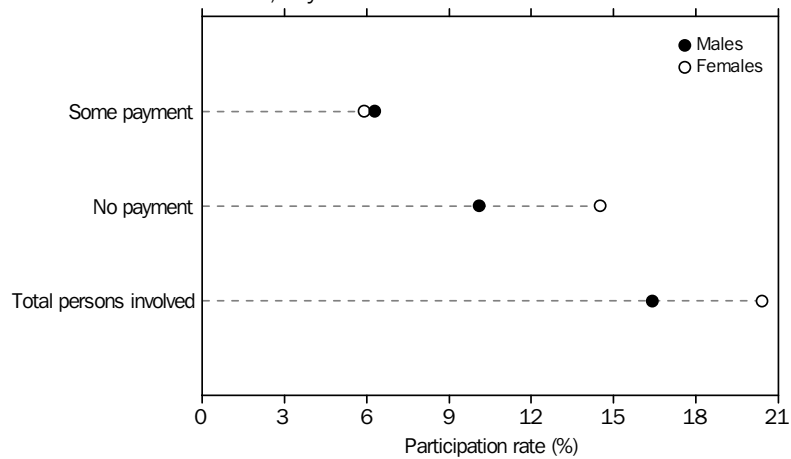
During the 12 months prior to April 2004, an estimated 2.9 million persons (a participation rate of 18% of the Australian population aged 15 years and over) were involved in some form of paid or unpaid work relating to the selected culture and leisure activities covered in the survey. Persons undertaking hobby activities only for their family or their own benefit, 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 (20%) than males (16%) aged 15 years and over worked in a culture or leisure field, the participation rates for paid involvement were similar for males (6.3%) and females (5.9%). Females had a higher rate of unpaid involvement than males, with 15% of females (1,152,100) having unpaid involvement only, compared with 10% of males (777,800).

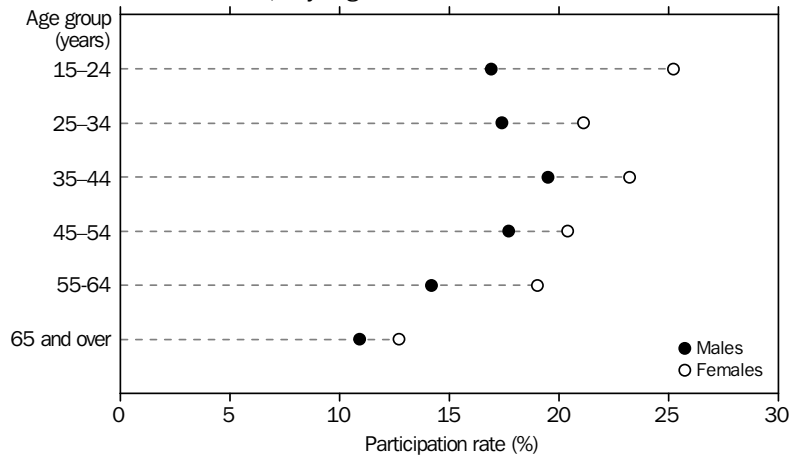
PARTICIPATION RATE, By sex



Age

Participation in culture and leisure activities was highest amongst those aged 15 to 24 years and those aged 35 to 44 years (both at 21%). Participation in culture and leisure activities was lower in the older age groups, with 17% of those aged 55 to 64 years and 12% of those aged 65 years and over participating.

PARTICIPATION RATE, By age



SUMMARY OF FINDINGS *continued*

Age continued

The participation rate for those receiving some payment for their involvement in culture and leisure activities was highest for those aged 25 to 34 years (8.7%) and 35 to 44 years (7.8%). The participation rate for those with unpaid involvement only was highest for persons aged 15 to 24 years and 35 to 44 years (15% and 14% respectively).

Across all age groups the participation rate for females was higher than for males.

Birthplace

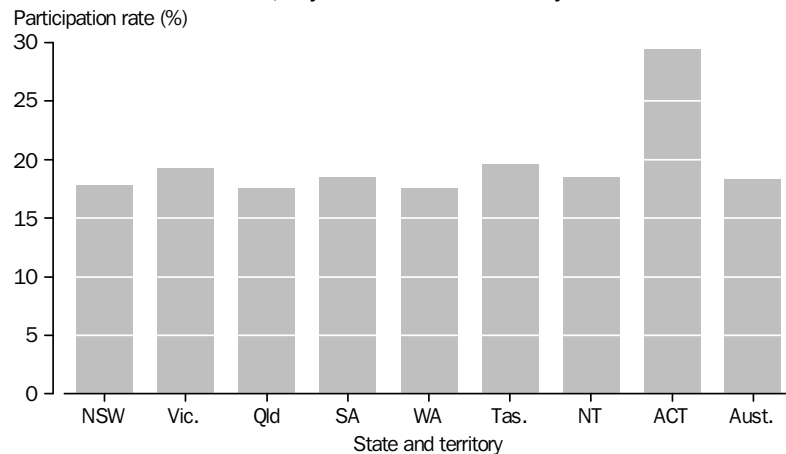
Persons born in Australia had a participation rate of 20%, compared with 15% for persons born overseas. Persons born overseas in main English speaking countries had a rate similar to that for those born in Australia (21%), while those born overseas from other than main English speaking countries had a participation rate of 12%. Of those born in Australia, 6.4% received some payment for working in a culture or leisure activity, compared with 5.3% for those born overseas.

Geographic location

All states and the Northern Territory had quite similar rates of participation in culture and leisure activities (between 18% and 20%). However, the participation rate for the Australian Capital Territory was considerably higher at 29%.

The participation rate for residents in the state capitals (18%) was similar to that for residents outside the capital cities (19%). There was however a difference in rates for paid and unpaid involvement, with 6.8% of persons in the capital cities reporting a paid involvement compared with 5.0% for those outside the capital cities. Persons outside the capital cities had a higher rate of unpaid only involvement – 14% compared with 12% for persons in the capital cities.

PARTICIPATION RATE, By state and territory



Labour force status

Of persons who were employed in the week prior to interview, 21% (or almost 2.1 million persons) were involved in a culture or leisure activity as part of their work at some time during the 12 months prior to interview. Unemployed persons and those not in the labour force had participation rates of 20% (111,000 persons) and 13% (719,000 persons), respectively. Persons employed part time (24%) had a higher participation rate than persons employed full time (20%).

SUMMARY OF FINDINGS *continued*

TYPE OF ACTIVITIES

Information was collected for 35 different culture and leisure activities in this survey (see the Glossary for a full list of activities).

In 2004, there were 789,900 persons (27% of persons with any culture and leisure involvement) who had an involvement in visual art activities in the previous 12 months. This represents an increase of 57% from 2001 when there were 503,200 persons reporting an involvement in visual art activities. In 2004, large numbers of persons reported involvement in the following visual art activities:

- 300,100 who had involvement in photography (151,600 in 2001)
- 288,700 who had involvement in drawing (124,500 in 2001)
- 286,300 who had involvement in computer art (201,900 in 2001)
- 262,400 who had involvement in painting (154,100 in 2001).

Over half a million persons (556,500), or 19% of people involved in culture and leisure activities, indicated that they had some involvement through writing in the 12 months prior to April 2004, similar levels to that reported in 1997 (542,800) and 2001 (536,900). Writing for books, magazines, newspapers, journals and newsletters and creating scripts for films, television and plays are all included under this activity.

In 2004, there were 542,700 persons (or 19% of all persons involved) who had an involvement in craft activities. This was an increase of 37% from 2001 when 396,400 persons reported an involvement in craft activities. The craft activities attracting large numbers of participants in 2004 were furniture-making and wood crafts (204,500 persons, up from 123,900 in 2001) and textiles (144,300 persons, up from 94,400 in 2001).

Other activities with large numbers of persons involved in 2004 were:

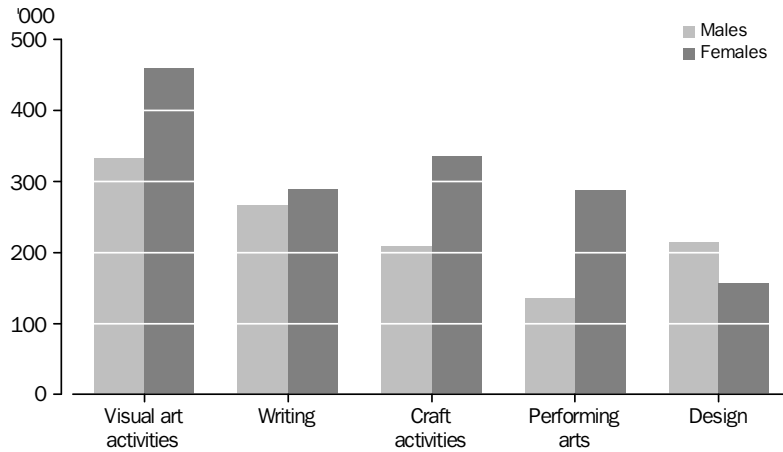
- 423,900 in performing arts, or 15% of all people involved in culture and leisure activities
- 370,200 in design, or 13% of all people involved
- 336,500 in fete organising, or 12% of all people involved
- 305,200 in music, or 11% of all people involved.

Involvement in particular culture and leisure activities was quite different between males and females. During 2004, there were more males than females involved in furniture-making and wood crafts (166,300 males compared with 38,200 females), design (213,600 and 156,500) and interactive content creation (134,900 and 79,800). Females outnumbered males by more than two to one for the activities of fete organising (243,800 females compared with 92,700 males), performing arts (288,100 and 135,800), art and craft show organising (114,000 and 39,200) and library and archive involvements (66,400 and 21,400). A noticeably higher number of females than males were also involved in craft activities (334,500 females compared with 208,200 males) and cultural teaching activities (115,600 and 67,600), which exclude primary and secondary school teaching.

SUMMARY OF FINDINGS *continued*

TYPE OF ACTIVITIES *continued*

PERSONS INVOLVED, In 5 most popular activities, By sex



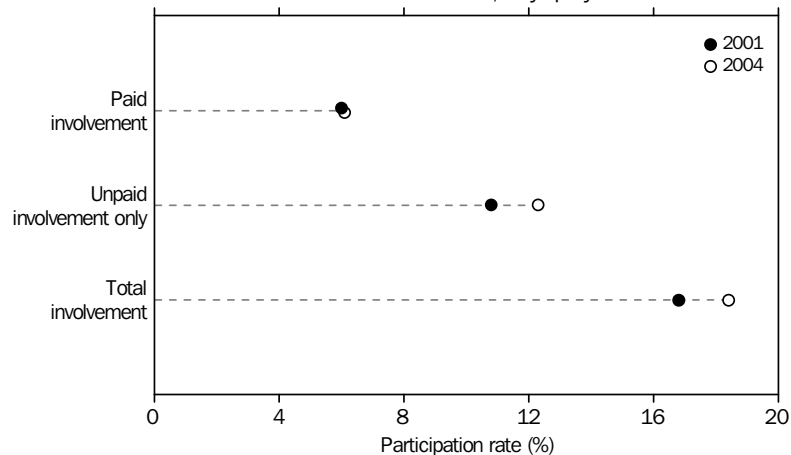
NATURE OF INVOLVEMENT *Payment status*

More persons had some paid involvement in design (239,100), writing (185,500) and visual art activities (183,100) than any other culture or leisure activity in the survey (note: paid involvement includes persons who received payment in-kind). Design was also among the activities with the highest proportion of persons involved receiving payment (65%), along with television (64%) and interactive content creation (55%).

Of the 957,500 persons who received some payment, 108,800 (11%) received payment in-kind only.

The overall participation rate for persons involved in culture and leisure activities increased from 17% in 2001 to 18% in 2004. While the rate of paid participation was unchanged (6%), unpaid involvement only increased from 11% to 12% between 2001 and 2004.

PARTICIPATION RATE 2001 AND 2004, By payment status



Duration of activities

Most persons involved in culture and leisure activities had only a short-term (up to 13 weeks of the year) or part-time (less than 10 hours per week) involvement over the 12 month period. For all activities the majority of persons were involved part-time. The activities with the highest proportion of persons involved part-time were glass crafts (97%), fete organising (90%), jewellery (89%), photography (88%) and painting (86%).

SUMMARY OF FINDINGS *continued*

Duration of activities continued

The activities that were most likely to be short term were fete organising (88%), art and craft show organising (81%), festival organising (79%) and film production (75%).

Design was one activity which tended to have involvements of a longer duration. Around 44% of persons involved in design did so for 10 hours or more per week and 57% of persons in design did so for more than 13 weeks of the year.

Income from activities

Because most people involved in culture and leisure activities had only a short-term or part-time involvement, their annual income from these activities was reasonably low. For example, of the 83,800 persons with paid involvement in music, around half of them (43,000) received an annual income from this activity of less than \$5,000. This compares with 23,500 (70%) persons who received an annual income of \$5,000 or more from their paid involvement in libraries and archives.

Involvement as part of main job

Of the 957,500 persons (33% of the total population involved in selected culture and leisure activities) who received some payment for their involvement in culture and leisure activities, 64% (612,500 persons) stated their involvement was part of their main job. The activities with high proportions of persons having paid involvement as part of their main job were libraries and archives (93%), publishing (77%), art and craft show organising (76%) and government arts organisations and agencies (75%).

TRAINING

There were almost 1.1 million persons who had completed training in an arts or cultural field. The most commonly reported areas of training were music (215,300) and design (182,800), while the least common were heritage (5,500) and librarianship (14,000).

Of all the persons who had completed training in an arts or cultural field, 73% were employed at the time of the survey, although the employment may not be in a field related to the training. The percentage of persons with training who were employed ranged from 52% for persons with training in heritage to 79% for persons with training in design.

Of the 1,094,500 persons who had completed training in an arts or cultural field, 56% had work in a related culture or leisure activity in the previous 12 months. Persons with training in librarianship were those most likely to be using that training as 60% had work involvement in a library or archive in the previous 12 months.

HOBBIES

Activities which were undertaken solely for the person's own benefit or for their families were classified as hobby activities. For this survey, data on hobby activities was only collected for art and craft, writing and music (see Glossary). Persons involved with a hobby activity only, i.e. they had no involvement in other culture and leisure activities, were excluded from the total number of persons (2,887,500) with involvement through work in culture and leisure activities.

There were almost 3.2 million persons who were involved in art and craft as a hobby activity only. Likewise, 317,200 persons were involved in writing as a hobby activity only and 158,700 persons were involved in music as a hobby activity only.

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PERSONS, By involvement and payment status and state and territory

	Some paid involvement(a)	Unpaid involvement only	Total persons involved	Persons with no involvement	Total persons	Participation rate(b)
	'000	'000	'000	'000	'000	%
MALES						
New South Wales	162.1	249.4	411.5	2 182.8	2 594.3	15.9
Victoria	129.5	202.6	332.1	1 587.1	1 919.2	17.3
Queensland	86.3	134.8	221.1	1 253.3	1 474.4	15.0
South Australia	35.2	63.5	98.6	500.2	598.8	16.5
Western Australia	43.3	80.2	123.6	640.5	764.1	16.2
Tasmania	11.2	22.4	33.6	150.9	184.5	18.2
Northern Territory(c)	**1.2	5.6	6.8	46.5	53.3	12.8
Australian Capital Territory	16.5	19.2	35.7	84.4	120.1	29.7
Australia	485.2	777.8	1 263.0	6 445.6	7 708.6	16.4
FEMALES						
New South Wales	134.2	393.2	527.4	2 150.4	2 677.8	19.7
Victoria	131.4	295.9	427.2	1 579.2	2 006.4	21.3
Queensland	100.6	204.5	305.1	1 204.0	1 509.1	20.2
South Australia	35.8	90.8	126.6	492.7	619.4	20.4
Western Australia	45.3	102.8	148.1	629.0	777.1	19.1
Tasmania	7.7	32.4	40.1	152.3	192.4	20.9
Northern Territory(c)	*3.2	9.5	12.7	39.8	52.5	24.2
Australian Capital Territory	14.1	23.0	37.1	90.8	127.9	29.0
Australia	472.3	1 152.1	1 624.4	6 338.1	7 962.5	20.4
PERSONS						
New South Wales	296.3	642.7	938.9	4 333.2	5 272.1	17.8
Victoria	260.8	498.5	759.3	3 166.3	3 925.6	19.3
Queensland	186.9	339.3	526.2	2 457.3	2 983.5	17.6
South Australia	71.0	154.3	225.2	992.9	1 218.1	18.5
Western Australia	88.6	183.1	271.7	1 269.5	1 541.1	17.6
Tasmania	18.9	54.8	73.7	303.2	376.9	19.6
Northern Territory(c)	*4.4	15.1	19.6	86.2	105.8	18.5
Australian Capital Territory	30.6	42.2	72.8	175.2	248.0	29.4
Australia	957.5	1 929.9	2 887.5	12 783.7	15 671.1	18.4

* 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) Includes persons who only received payment in-kind. Of the 957,500 people who received some payment, 108,800 (11%) only received payment in-kind.

(b) The number of persons who reported working in the selected culture or leisure activities, expressed as a percentage of the civilian population in the same group.

(c) Refers to mainly urban areas only. For further information refer to paragraph 7 in the Explanatory Notes.

PERSONS INVOLVED, SELECTED CHARACTERISTICS, By payment status and sex

	SOME PAID INVOLVEMENT		UNPAID INVOLVEMENT ONLY		TOTAL PERSONS INVOLVED	
	Number	Participation rate(a)	Number	Participation rate(a)	Number	Participation rate(a)
	'000	%	'000	%	'000	%
MALES						
Age group (years)						
15-24	85.7	6.2	147.1	10.7	232.8	16.9
25-34	112.9	8.1	128.4	9.2	241.3	17.4
35-44	119.9	8.2	164.6	11.3	284.5	19.5
45-54	97.1	7.2	140.2	10.4	237.3	17.7
55-64	52.3	5.0	94.8	9.1	147.1	14.2
65 and over	17.2	1.6	102.8	9.3	120.0	10.9
Country of birth						
Australia	372.3	6.7	602.4	10.8	974.7	17.5
Overseas	112.9	5.3	175.4	8.2	288.4	13.4
Main English speaking countries(b)	67.4	8.4	78.5	9.7	145.9	18.1
Other than main English speaking countries	45.5	3.4	97.0	7.2	142.5	10.6
Area of usual residence						
Capital city	342.8	7.2	474.8	9.9	817.6	17.1
Balance of state/territory	142.4	4.9	303.0	10.4	445.5	15.3
Labour force status						
Employed full-time	368.8	8.0	447.4	9.7	816.2	17.8
Employed part-time	65.3	8.7	108.4	14.5	173.7	23.2
Total employed	434.1	8.1	555.8	10.4	989.9	18.5
Unemployed	17.5	5.9	42.7	14.4	60.1	20.3
Not in the labour force	33.7	1.6	179.3	8.7	213.0	10.3
Total	485.2	6.3	777.8	10.1	1 263.0	16.4
FEMALES						
Age group (years)						
15-24	87.0	6.5	250.6	18.7	337.6	25.2
25-34	131.4	9.2	169.6	11.9	301.0	21.1
35-44	109.1	7.3	237.5	15.9	346.7	23.2
45-54	87.7	6.4	191.4	14.0	279.1	20.4
55-64	45.4	4.4	149.0	14.5	194.4	19.0
65 and over	*11.7	0.9	153.9	11.8	165.6	12.7
Country of birth						
Australia	353.9	6.2	889.4	15.6	1 243.3	21.8
Overseas	118.4	5.3	262.7	11.7	381.1	16.9
Main English speaking countries(b)	71.5	8.7	128.8	15.6	200.3	24.3
Other than main English speaking countries	46.9	3.3	134.0	9.4	180.8	12.7
Area of usual residence						
Capital city	321.6	6.4	652.0	13.0	973.6	19.5
Balance of state/territory	150.7	5.1	500.1	16.9	650.8	21.9
Labour Force Status						
Employed full-time	267.6	11.7	316.0	13.8	583.7	25.5
Employed part-time	145.2	7.4	338.7	17.4	483.9	24.8
Total employed	412.8	9.7	654.7	15.5	1 067.5	25.2
Unemployed	*11.6	4.5	39.2	15.3	50.9	19.8
Not in the labour force	47.9	1.4	458.1	13.2	506.0	14.6
Total	472.3	5.9	1 152.1	14.5	1 624.4	20.4

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

(a) The number of persons who reported working in the selected culture or leisure activities, expressed as a percentage of the civilian population in the same group

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

	SOME PAID INVOLVEMENT		UNPAID INVOLVEMENT ONLY		TOTAL PERSONS INVOLVED	
	Number	Participation rate(a)	Number	Participation rate(a)	Number	Participation rate(a)
	'000	%	'000	%	'000	%
PERSONS						
Age group (years)						
15-24	172.8	6.4	397.7	14.6	570.4	21.0
25-34	244.3	8.7	298.0	10.6	542.3	19.3
35-44	229.1	7.8	402.1	13.6	631.2	21.4
45-54	184.9	6.8	331.6	12.2	516.4	19.0
55-64	97.7	4.7	243.8	11.8	341.5	16.5
65 and over	28.8	1.2	256.8	10.7	285.6	11.9
Country of birth						
Australia	726.2	6.4	1 491.8	13.2	2 218.0	19.7
Overseas	231.3	5.3	438.1	10.0	669.5	15.2
Main English speaking countries(b)	139.0	8.5	207.2	12.7	346.2	21.2
Other than main English speaking countries	92.4	3.3	230.9	8.3	323.3	11.7
Area of usual residence						
Capital city	664.4	6.8	1 126.8	11.5	1 791.2	18.3
Balance of state/territory	293.1	5.0	803.1	13.7	1 096.2	18.6
Labour force status						
Employed full-time	636.4	9.2	763.5	11.1	1 399.9	20.3
Employed part-time	210.5	7.8	447.1	16.6	657.6	24.4
Total employed	846.9	8.8	1 210.6	12.6	2 057.5	21.5
Unemployed	29.1	5.3	81.9	14.8	111.0	20.0
Not in the labour force	81.6	1.5	637.4	11.5	719.0	13.0
Total	957.5	6.1	1 929.9	12.3	2 887.5	18.4

(a) The number of persons who reported working in the selected culture or leisure activities, expressed as a percentage of the civilian population in the same group

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

3

PERSONS WITH SOME PAID INVOLVEMENT, By labour force status and whether part of main job(a)

	MALES		FEMALES		PERSONS	
	'000	%	'000	%	'000	%
Employed						
Any culture or leisure activity which was part of main job						
One job last week	276.2	56.9	265.9	56.3	542.1	56.6
More than one job last week	30.9	6.4	39.3	8.3	70.2	7.3
No culture or leisure activity was part of main job						
One job last week	112.1	23.1	91.8	19.4	203.9	21.3
More than one job last week	14.9	3.1	15.8	3.3	30.7	3.2
<i>Total employed</i>	<i>434.1</i>	<i>89.5</i>	<i>412.8</i>	<i>87.4</i>	<i>846.9</i>	<i>88.4</i>
Unemployed	17.5	3.6	*11.6	*2.5	29.1	3.0
Not in the labour force	33.7	6.9	47.9	10.1	81.6	8.5
Total	485.2	100.0	472.3	100.0	957.5	100.0

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

(a) Labour force status refers to status during the week prior to interview while culture or leisure activity refers to activities undertaken in the 12 months prior to interview.

PERSONS INVOLVED, By type of activity and sex

	<i>Males</i>	<i>Females</i>	<i>Persons</i>
	'000	'000	'000
Heritage organisations	30.0	32.2	62.2
Public art galleries	*13.3	30.2	43.5
Museums	21.0	22.8	43.8
National parks and reserves	61.3	51.6	113.0
Zoos and aquaria	*11.4	*4.5	15.9
Botanic gardens	*10.3	*12.7	23.0
Libraries and archives	21.4	66.4	87.8
Writing	267.0	289.4	556.5
Publishing	74.8	87.4	162.2
Music			
Live performer	135.1	95.7	230.8
No involvement as live performer	30.5	38.5	69.1
Total(a)	166.2	139.0	305.2
Performing arts			
Performer	89.8	183.0	272.7
No involvement as performer	46.1	105.1	151.2
Total	135.8	288.1	423.9
Visual art activities			
Drawing	108.8	179.9	288.7
Painting	71.2	191.2	262.4
Sculpture	22.3	39.2	61.5
Photography	141.1	159.0	300.1
Print-making	27.7	40.7	68.4
Computer art	129.5	156.8	286.3
Other visual art activities	16.7	31.0	47.8
Total(b)	331.3	458.6	789.9
Craft activities			
Pottery and ceramics	*13.2	44.3	57.6
Textiles	*8.0	136.3	144.3
Jewellery	*8.7	54.8	63.5
Furniture-making and wood crafts	166.3	38.2	204.5
Glass crafts	*5.3	21.7	27.0
Other craft activities	23.5	98.6	122.1
Total(b)	208.2	334.5	542.7
Design	213.6	156.5	370.2
Radio	57.3	35.6	93.0
Television	46.9	29.3	76.2
Film production	41.6	33.3	74.9
Cinema and video distribution	*9.0	19.0	28.1
Interactive content creation	134.9	79.8	214.7
Teaching	67.6	115.6	183.2
Fete organising	92.7	243.8	336.5
Festival organising	99.3	152.9	252.2
Art and craft show organising	39.2	114.0	153.2
Government arts organisations and agencies	*6.9	15.2	22.0
Total(b)	1 263.0	1 624.4	2 887.5

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

(a) Total includes some persons for whom details were unavailable.

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

PERSONS INVOLVED, By type of activity and payment status

	Some paid involvement	Unpaid involvement only	Total involved(a)	Percentage with some paid involvement(b)
	'000	'000	'000	%
Heritage organisations	*12.0	48.3	62.2	*19.9
Public art galleries	15.1	27.2	43.5	35.7
Museums	*8.6	35.2	43.8	*19.6
National parks and reserves	27.7	82.0	113.0	25.3
Zoos and aquaria	*5.6	*10.3	15.9	*35.3
Botanic gardens	*11.7	*11.4	23.0	*50.6
Libraries and archives	33.7	54.1	87.8	38.4
Writing	185.5	336.8	556.5	35.5
Publishing	77.9	73.1	162.2	51.6
Music				
Live performer	64.3	158.0	230.8	28.9
No involvement as live performer	19.5	48.6	69.1	28.6
Total(c)	83.8	206.6	305.2	28.9
Performing arts				
Performer	40.4	228.3	272.7	15.0
No involvement as a performer	32.0	116.8	151.2	21.5
Total	72.4	345.1	423.9	17.3
Visual art activities				
Drawing	46.0	239.1	288.7	16.1
Painting	38.8	220.1	262.4	15.0
Sculpture	*8.7	51.8	61.5	*14.4
Photography	59.2	236.6	300.1	20.0
Print-making	20.5	44.8	68.4	31.4
Computer art	82.5	200.4	286.3	29.1
Other visual art activities	*10.0	35.4	47.8	*22.0
Total(d)	183.1	597.1	789.9	23.5
Craft activities				
Pottery and ceramics	*11.9	42.7	57.6	*21.8
Textiles	21.1	120.7	144.3	14.9
Jewellery	18.9	43.0	63.5	30.6
Furniture-making and wood crafts	51.5	151.5	204.5	25.4
Glass crafts	*5.3	20.9	27.0	*20.1
Other craft activities	17.6	97.7	122.1	15.3
Total(d)	117.0	414.9	542.7	22.0
Design	239.1	126.5	370.2	65.4
Radio	28.2	64.8	93.0	30.3
Television	48.4	27.5	76.2	63.8
Film production	32.1	40.3	74.9	44.3
Cinema and video distribution	14.4	*13.6	28.1	51.4
Interactive content creation	117.8	94.5	214.7	55.5
Teaching	81.2	85.0	183.2	48.9
Fete organising	13.8	319.5	336.5	4.1
Festival organising	41.4	207.1	252.2	16.7
Art and craft show organising	22.2	130.7	153.2	14.5
Government arts organisations and agencies	*10.7	*9.9	22.0	*51.8
Total(d)	957.5	1 929.9	2 887.5	33.2

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

(a) Includes some persons for whom payment details are not known. See paragraph 13 in the Explanatory Notes.

(b) Percentage calculated from the total of those where the payment status was known. See paragraph 13 in the Explanatory Notes.

(c) Total includes some persons for whom details are unavailable.

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

PERSONS INVOLVED, By activities and selected states

	NSW	Vic.	Qld	SA	WA	Aust. (a)
NUMBER ('000)						
Heritage organisations	23.3	17.5	*8.2	*3.1	*6.3	62.2
Public art galleries	*9.0	*12.7	*11.2	*2.5	*5.3	43.5
Museums	*15.3	*9.7	*6.4	*4.2	*4.4	43.8
National parks and reserves	45.7	27.3	*13.2	10.7	*8.9	113.0
Zoos and aquaria	*5.5	*4.3	**2.3	**1.3	*1.6	15.9
Botanic gardens	*8.2	*5.4	*5.5	**0.9	**1.5	23.0
Libraries and archives	26.6	21.3	19.1	*4.7	*10.9	87.8
Writing	154.9	143.5	113.5	38.5	64.7	556.5
Publishing	50.1	42.7	33.4	11.0	12.4	162.2
Music						
Live performer	74.4	72.0	35.1	21.1	18.6	230.8
No involvement as live performer	*17.3	25.6	13.6	*7.1	*3.4	69.1
Total(b)	92.6	99.8	49.0	28.2	23.5	305.2
Performing arts						
Performer	90.9	70.7	53.4	23.1	23.4	272.7
No involvement as performer	54.6	41.0	25.7	*7.5	14.7	151.2
Total	145.5	111.7	79.1	30.6	38.1	423.9
Visual art activities						
Drawing	109.5	55.1	54.0	23.7	28.2	288.7
Painting	90.7	46.2	58.1	22.9	27.7	262.4
Sculpture	23.2	*4.2	15.0	*4.8	*10.9	61.5
Photography	114.1	69.0	45.5	24.6	29.2	300.1
Print-making	25.8	*13.4	14.7	*5.5	*4.1	68.4
Computer art	90.3	65.9	54.7	26.4	34.0	286.3
Other visual art activities	*10.7	*10.3	*11.9	*6.2	*5.2	47.8
Total(c)	273.8	175.6	150.8	62.8	80.7	789.9
Craft activities						
Pottery and ceramics	20.1	*8.8	15.5	*4.6	*5.6	57.6
Textiles	41.0	46.3	29.6	11.5	*7.4	144.3
Jewellery	24.5	*14.9	*13.2	*2.8	*4.9	63.5
Furniture-making and wood crafts	69.0	52.1	35.8	14.5	18.9	204.5
Glass crafts	*10.0	*4.6	*4.3	*4.5	*2.2	27.0
Other craft activities	34.7	21.5	31.6	16.2	11.1	122.1
Total(c)	172.5	134.1	110.3	48.4	44.0	542.7
Design	100.2	101.3	86.8	26.8	39.2	370.2
Radio	33.4	25.1	*8.9	*6.4	11.6	93.0
Television	27.2	22.8	*12.7	*3.3	*6.9	76.2
Film production	29.3	17.5	16.9	*2.4	*5.0	74.9
Cinema and video distribution	*13.3	*5.0	*3.6	*1.8	*2.7	28.1
Interactive content creation	52.2	69.1	38.1	18.3	21.0	214.7
Teaching	61.4	49.0	32.4	12.8	18.2	183.2
Fete organising	108.5	100.9	48.8	23.8	33.1	336.5
Festival organising	80.5	76.6	50.5	17.1	18.5	252.2
Art and craft show organising	52.6	32.4	35.6	*6.6	18.7	153.2
Government arts organisations and agencies	*6.2	*5.0	*6.4	**1.1	**1.4	22.0
Total(c)	938.9	759.3	526.2	225.2	271.7	2 887.5

* 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) Australia includes data for Tasmania, Northern Territory and Australian Capital Territory. Data for these jurisdictions are not shown because of data quality concerns resulting from high relative standard errors (RSEs). For further information on RSEs see the Technical Note.

(b) Total includes some persons for whom details were unavailable.

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

PERSONS INVOLVED, By activities and selected states *continued*

	NSW	Vic.	Qld	SA	WA	Aust. (a)
.....						
INVOLVEMENT RATE PER 1,000 PERSONS (b)						
Heritage organisations	4.4	4.5	*2.8	*2.6	*4.1	4.0
Public art galleries	*1.7	*3.2	*3.7	*2.0	*3.5	2.8
Museums	*2.9	*2.5	*2.2	*3.4	*2.8	2.8
National parks and reserves	8.7	7.0	*4.4	8.8	*5.7	7.2
Zoos and aquaria	*1.0	*1.1	**0.8	**1.0	*1.1	1.0
Botanic gardens	*1.6	*1.4	*1.9	**0.8	**1.0	1.5
Libraries and archives	5.0	5.4	6.4	*3.8	*7.1	5.6
Writing	29.4	36.6	38.0	31.6	42.0	35.5
Publishing	9.5	10.9	11.2	9.1	8.0	10.3
Music						
Live performer	14.1	18.3	11.8	17.3	12.0	14.7
No involvement as live performer	*3.3	6.5	4.6	*5.8	*2.2	4.4
Total(c)	17.6	25.4	16.4	23.2	15.3	19.5
Performing arts						
Performer	17.2	18.0	17.9	19.0	15.2	17.4
No involvement as performer	10.4	10.4	8.6	*6.1	9.5	9.6
Total	27.6	28.4	26.5	25.1	24.7	27.1
Visual art activities						
Drawing	20.8	14.0	18.1	19.5	18.3	18.4
Painting	17.2	11.8	19.5	18.8	18.0	16.7
Sculpture	4.4	*1.1	5.0	*4.0	*7.1	3.9
Photography	21.6	17.6	15.3	20.2	18.9	19.2
Print-making	4.9	*3.4	4.9	*4.5	*2.7	4.4
Computer art	17.1	16.8	18.3	21.7	22.1	18.3
Other visual art activities	*2.0	*2.6	*4.0	*5.1	*3.4	3.0
Total(d)	51.9	44.7	50.6	51.6	52.4	50.4
Craft activities						
Pottery and ceramics	3.8	*2.2	5.2	*3.8	*3.6	3.7
Textiles	7.8	11.8	9.9	9.4	*4.8	9.2
Jewellery	4.6	*3.8	*4.4	*2.3	*3.2	4.1
Furniture-making and wood crafts	13.1	13.3	12.0	11.9	12.3	13.0
Glass crafts	*1.9	*1.2	*1.5	*3.7	*1.4	1.7
Other craft activities	6.6	5.5	10.6	13.3	7.2	7.8
Total(d)	32.7	34.2	37.0	39.7	28.6	34.6
Design	19.0	25.8	29.1	22.0	25.4	23.6
Radio	6.3	6.4	*3.0	*5.3	7.5	5.9
Television	5.2	5.8	*4.2	*2.7	*4.4	4.9
Film production	5.6	4.5	5.7	*2.0	*3.2	4.8
Cinema and video distribution	*2.5	*1.3	*1.2	*1.4	*1.8	1.8
Interactive content creation	9.9	17.6	12.8	15.1	13.6	13.7
Teaching	11.7	12.5	10.8	10.5	11.8	11.7
Fete organising	20.6	25.7	16.4	19.5	21.4	21.5
Festival organising	15.3	19.5	16.9	14.1	12.0	16.1
Art and craft show organising	10.0	8.3	11.9	*5.5	12.1	9.8
Government arts organisations and agencies	*1.2	*1.3	*2.1	**0.9	**0.9	1.4
Total(d)	178.1	193.4	176.4	184.9	176.3	184.3

* 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) Australia includes data for Tasmania, Northern Territory and Australian Capital Territory. Data for these jurisdictions are not shown because of data quality concerns resulting from high relative standard errors (RSEs). For further information on RSEs see the Technical Note.

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

(c) Total includes some persons for whom details were unavailable.

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

PERSONS WITH SOME PAID INVOLVEMENT, By type of activity and whether part of main job

	<i>Involvement part of main job</i>	<i>Not part of main job(a)</i>	<i>Total(b)</i>	<i>Percentage that are part of main job</i>
	'000	'000	'000	%
Heritage organisations	*7.1	*4.8	*12.0	*59.6
Public art galleries	*8.1	*7.1	15.1	*53.4
Museums	*6.4	**2.2	*8.6	*74.0
National parks and reserves	17.0	*10.7	27.7	61.4
Zoos and aquaria	**2.6	*3.0	*5.6	**46.5
Botanic gardens	*7.8	*3.9	*11.7	*66.9
Libraries and archives	31.5	**2.3	33.7	93.3
Writing	124.6	61.0	185.5	67.1
Publishing	59.8	18.1	77.9	76.8
Music				
Live performer	*12.2	52.1	64.3	*19.0
No involvement as live performer	15.1	*4.3	19.5	77.7
Total	27.4	56.4	83.8	32.7
Performing arts				
Performer	7.0	33.3	40.4	17.4
No involvement as performer	20.6	11.4	32.0	64.3
Total	27.6	44.8	72.4	38.2
Visual art activities				
Drawing	31.4	14.5	46.0	68.4
Painting	18.8	20.0	38.8	48.5
Sculpture	*4.1	*4.6	*8.7	*47.2
Photography	41.7	17.5	59.2	70.4
Print-making	*12.8	*7.7	20.5	*62.6
Computer art	57.5	25.0	82.5	69.7
Other visual art activities	*5.0	*5.0	*10.0	*50.2
Total(c)	119.3	63.9	183.1	65.1
Craft activities				
Pottery and ceramics	*6.4	*5.6	*11.9	*53.2
Textiles	*7.0	14.1	21.1	*33.3
Jewellery	*5.7	*13.2	18.9	*30.3
Furniture-making and wood crafts	24.7	26.8	51.5	47.9
Glass crafts	**0.9	*4.3	*5.3	**17.8
Other craft activities	*8.4	*9.3	17.6	*47.5
Total(c)	48.3	68.7	117.0	41.3
Design	177.7	61.4	239.1	74.3
Radio	17.6	*10.5	28.2	62.6
Television	26.5	21.9	48.4	54.7
Film production	15.4	16.7	32.1	48.0
Cinema or video distribution	*8.3	*6.1	14.4	*57.4
Interactive content creation	87.9	29.9	117.8	74.6
Teaching	38.0	43.2	81.2	46.8
Fete organising	*9.4	*4.4	13.8	*67.8
Festival organising	24.3	17.0	41.4	58.8
Art and craft show organising	17.0	*5.3	22.2	76.2
Government arts organisations and agencies	*8.1	**2.6	*10.7	*75.4
Total(c)	612.5	345.1	957.5	64.0

* 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) Includes persons who were unemployed or not in the labour force.

(b) The number of persons with some paid involvement may be an underestimate due to detailed information not being collected for some activities. See paragraph 13 in the Explanatory Notes.

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

PERSONS WITH SOME PAID INVOLVEMENT, By type of activity and annual income from activity(a)

	<i>Less than \$5,000</i>	<i>\$5,000 or more</i>	<i>Total(b)</i>
	'000	'000	'000
Heritage organisations	*4.0	*3.0	*12.0
Public art galleries	*7.3	*5.3	15.1
Museums	*5.7	**2.2	*8.6
National parks and reserves	14.6	*10.3	27.7
Zoos and aquaria	**2.2	*2.9	*5.6
Botanic gardens	*3.2	*7.4	*11.7
Libraries and archives	*5.7	23.5	33.7
Writing	75.7	60.1	185.5
Publishing	20.2	38.9	77.9
Music			
Live performer	36.3	*11.5	64.3
No involvement as live performer	*6.7	*7.4	19.5
<i>Total</i>	43.0	18.9	83.8
Performing arts			
Performer	19.0	*5.4	40.4
No involvement as performer	*10.8	15.1	32.0
<i>Total</i>	29.8	20.5	72.4
Visual art activities(a)			
Drawing	21.7	*13.4	46.0
Painting	20.7	*6.2	38.8
Sculpture	**2.5	**2.7	*8.7
Photography	32.5	*12.5	59.2
Print-making	*8.3	*4.8	20.5
Computer art	33.0	25.9	82.5
Other visual art activities	*3.2	**1.6	*10.0
Craft activities(a)			
Pottery and ceramics	*5.7	*2.8	*11.9
Textiles	*9.4	*4.8	21.1
Jewellery	*10.4	*4.3	18.9
Furniture-making and wood crafts	28.4	13.7	51.5
Glass crafts	*3.2	**0.4	*5.3
Other craft activities	*10.2	*3.0	17.6
Design	76.8	117.1	239.1
Radio	*10.3	*11.7	28.2
Television	14.6	30.4	48.4
Film production	14.6	*12.4	32.1
Cinema and video distribution	*5.0	*5.3	14.4
Interactive content creation	50.9	45.9	117.8
Teaching	49.4	23.3	81.2
Fete organising	*7.4	**1.5	13.8
Festival organising	18.7	*9.5	41.4
Art and craft show organising	*11.9	*8.3	22.2
Government arts organisations and agencies	*3.2	*5.4	*10.7

* 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) Totals are not presented because data was collected in ranges for each specific activity (see paragraph 15 in the Explanatory Notes).

(b) Includes persons who only received payment in-kind, and persons who did not state the amount of payment they received. For some activities the number of persons with some paid involvement may be an underestimate due to detailed information not being collected for some activities. See paragraph 13 in the Explanatory Notes.

PERSONS INVOLVED, By type of activity and frequency of involvement(a)(b)

	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	Persons '000
	%	%	%	%	
Heritage organisations	45.3	*12.1	33.3	*9.3	62.2
Public art galleries	49.3	*18.4	*26.4	**6.0	43.5
Museums	44.0	**2.8	41.8	*11.4	43.8
National parks and reserves	50.9	16.5	22.1	*10.5	113.0
Zoos and aquaria	*35.6	*33.9	*23.9	**6.6	15.9
Botanic gardens	*58.3	*16.6	*18.6	**6.5	23.0
Libraries and archives	27.1	*8.4	38.1	26.3	87.8
Writing	47.2	9.1	30.7	13.0	556.5
Publishing	37.0	11.9	26.4	24.7	162.2
Music					
Live performer	24.1	*1.6	60.7	13.6	230.8
No involvement as live performer	34.6	*5.4	46.9	*13.1	69.1
Total(c)	26.5	*2.5	57.5	13.5	305.2
Performing arts					
Performer	41.1	6.4	45.2	7.4	272.7
No involvement as performer	49.7	*7.5	32.2	10.5	151.2
Total	44.2	6.8	40.6	8.5	423.9
Visual art activities(a)					
Drawing	44.1	5.8	39.8	10.2	288.7
Painting	45.1	6.6	40.8	7.5	262.4
Sculpture	34.7	*13.3	39.1	*12.9	61.5
Photography	53.2	6.2	34.9	5.8	300.1
Print-making	50.8	*10.6	24.4	*14.2	68.4
Computer art	48.9	6.7	30.4	14.0	286.3
Other visual art activities	47.9	*8.0	*29.6	*14.6	47.8
Craft activities(a)					
Pottery and ceramics	53.8	*6.0	29.4	*10.8	57.6
Textiles	34.5	*5.9	41.9	17.8	144.3
Jewellery	60.9	**2.1	28.3	*8.8	63.5
Furniture-making and wood crafts	43.0	11.7	31.3	13.9	204.5
Glass crafts	61.5	**1.6	*35.4	**1.5	27.0
Other craft activities	37.8	*3.7	46.9	*11.5	122.1
Design	32.9	10.5	23.1	33.5	370.2
Radio	48.8	*4.5	31.2	15.5	93.0
Television	42.8	*14.9	*9.7	32.6	76.2
Film production	43.6	31.5	*13.5	*11.4	74.9
Cinema and video distribution	58.0	*13.7	*14.9	*13.4	28.1
Interactive content creation	44.7	13.6	23.9	17.8	214.7
Teaching	39.5	*5.8	37.6	17.1	183.2
Fete organising	78.7	9.3	10.9	*1.2	336.5
Festival organising	65.0	14.4	16.4	*4.3	252.2
Art and craft show organising	67.5	13.1	15.4	*4.0	153.2
Government arts organisations and agencies	*36.7	*22.5	*15.5	*25.3	22.0

* 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) Totals are not presented because data was collected in ranges for each specific activity. See paragraph 15 in the Explanatory Notes.

(b) Percentage calculated from the total of those where duration was known. See paragraph 13 in the Explanatory Notes.

(c) Total includes some persons for whom details were unavailable.

PERSONS INVOLVED, By selected activities and sex(a)

	Males	Females	Persons
	'000	'000	'000
Writing			
Educational books	49.6	47.8	97.4
Other books	37.8	34.4	72.2
Newspapers or magazines	101.9	97.9	199.8
Journals	65.8	55.7	121.6
Film, television or plays	20.3	17.9	38.1
Newsletters	97.4	128.9	226.3
Other	51.5	53.5	105.1
<i>Total(b)</i>	<i>267.0</i>	<i>289.4</i>	<i>556.5</i>
Music live performer			
Rock or pop	54.5	25.6	80.2
Jazz	26.2	*11.0	37.2
Folk or country	16.9	14.8	31.7
Classical	28.6	37.0	65.6
Other music	57.7	50.3	107.9
<i>Total(b)</i>	<i>135.1</i>	<i>95.7</i>	<i>230.8</i>
Singer only	28.9	56.6	85.6
Instrumentalist only	73.7	23.9	97.6
Singer and instrumentalist	32.4	15.2	47.6
<i>Total(b)</i>	<i>135.1</i>	<i>95.7</i>	<i>230.8</i>
Performs in licensed premises only	19.7	*4.5	24.2
Performs in unlicensed premises only	71.9	70.3	142.2
Performs in both licensed and unlicensed premises	43.5	20.9	64.4
<i>Total(b)</i>	<i>135.1</i>	<i>95.7</i>	<i>230.8</i>
Performing arts performer			
Theatre	55.9	66.6	122.5
Opera	50.5	62.7	113.2
Dance	46.5	175.0	221.5
Other	18.8	43.0	61.8
<i>Total(b)</i>	<i>171.7</i>	<i>347.3</i>	<i>519.1</i>
Design			
Architecture	46.9	15.0	61.9
Graphic	82.2	60.4	142.6
Fashion	*6.8	21.1	27.9
Advertising	67.2	61.6	128.8
Other	65.2	35.0	100.1
<i>Total(b)</i>	<i>213.6</i>	<i>156.5</i>	<i>370.2</i>
Teaching			
Radio, television, film or video	23.0	27.7	50.7
Music or performing arts	49.8	106.0	155.7
Art or craft	24.1	111.2	135.2
Writing or publishing	28.1	46.3	74.3
Design	18.4	18.6	37.1
<i>Total(b)</i>	<i>67.6</i>	<i>115.6</i>	<i>183.2</i>

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

(a) This table shows additional information collected for the five activities shown. See paragraph 16 in the Explanatory Notes.

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

PERSONS WITH ARTS OR CULTURE TRAINING(a), By area of training and sex

			Persons '000	Percentage employed %	Percentage involved in a related culture or leisure activity(b) %
	Males	Females			
	'000	'000			
Librarianship	*4.8	*9.2	14.0	64.9	59.8
Heritage	**1.9	*3.6	*5.5	52.1	28.3
Crafts	36.4	133.7	170.1	65.5	27.5
Drama or dance	35.7	120.9	156.6	72.4	46.4
Film, radio or television	25.6	25.8	51.4	72.3	34.4
Fine arts	57.0	112.1	169.1	71.0	39.8
Design	86.7	96.1	182.8	78.7	44.7
Music	87.8	127.5	215.3	73.4	35.4
Literature	17.8	27.9	45.7	71.9	50.1
Other	99.9	144.7	244.6	74.8	(c)—
Total(d)	396.1	698.5	1 094.5	72.7	55.7

* 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)

(a) Refer to paragraph 17 in the Explanatory Notes for a list of activities which are related to corresponding areas of training.

(b) Indicates the percentage of persons with training who were involved in a culture or leisure activity related to the training.

(c) Excludes persons with 'other' training as the related culture or leisure activity could not be determined.

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

PERSONS UNDERTAKING SELECTED ACTIVITIES, By work involvement and hobby activity(a)

	WORK(b)		HOBBY ACTIVITY ONLY(a)		PERSONS	
	Number	Percentage	Number	Percentage	Number	Percentage
	'000	%	'000	%	'000	%
Art and craft	668.7	17.4	3 183.9	82.6	3 852.6	100.0
Writing	556.5	63.7	317.2	36.3	873.6	100.0
Music	305.2	65.8	158.7	34.2	463.9	100.0

(a) For hobby activities, data were only collected for art and craft, writing and music activities. Refer to Glossary.

(b) Work includes persons whose involvement was paid or unpaid and those who undertook work as well as a hobby activity.

	1993	1997	2001	2004
	'000	'000	'000	'000
Heritage organisations	48.1	46.5	53.7	62.2
Public art galleries	28.3	34.4	40.8	43.5
Museums	32.6	39.5	48.2	43.8
National parks and reserves	na	na	76.9	113.0
Zoos and aquaria	na	19.6	14.1	15.9
Botanic gardens	na	8.4	23.8	23.0
Libraries and archives	85.8	87.7	76.0	87.8
Writing	na	542.8	536.9	556.5
Publishing	na	113.7	152.0	162.2
Music				
Live performer	198.6	208.8	234.4	230.8
No involvement as live performer	32.5	51.5	47.5	69.1
Total	231.1	260.3	281.9	(a)305.2
Performing arts				
Performer	na	na	258.3	272.7
No involvement as performer	na	na	106.3	151.2
Total	na	na	364.6	423.9
Visual art activities				
Drawing	95.4	130.3	124.5	288.7
Painting	81.1	129.4	154.1	262.4
Sculpture	18.9	38.5	41.0	61.5
Photography	76.6	116.7	151.6	300.1
Print-making	36.7	34.8	37.1	68.4
Computer art	na	na	201.9	286.3
Other visual art activities	na	na	36.8	47.8
Total(b)	na	na	503.2	789.9
Craft activities				
Pottery and ceramics	31.2	68.6	56.9	57.6
Textiles	95.5	76.2	94.4	144.3
Jewellery	19.0	21.6	25.0	63.5
Furniture-making and wood crafts	44.6	88.5	123.9	204.5
Glass crafts	7.4	21.2	21.0	27.0
Other craft activities	na	95.8	127.3	122.1
Total(b)	na	na	396.4	542.7
Design activities				
Architecture	na	na	48.5	61.9
Graphic	na	105.8	131.5	142.6
Fashion	na	33.1	32.8	27.9
Advertising	na	na	109.4	128.8
Other design activities	na	na	91.9	100.1
Total(b)	na	na	349.8	370.2
Radio	65.4	84.6	90.7	93.0
Television	38.3	56.7	83.6	76.2
Film, cinema or video	82.4	77.4	61.3	(c)94.4
Interactive content creation	na	na	233.8	214.7
Teaching	na	208.7	154.5	183.2
Fete and festival organising	441.8	562.9	491.0	(d)558.6
Art and craft show organising	134.0	144.8	122.5	153.2
Government arts organisations and agencies	69.6	41.1	28.3	22.0

na not available

(a) Total includes some persons for whom details were unavailable.

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

(c) Combines film production and cinema and video distribution. Therefore the persons involved is less than the sum of the people involved in the separate activities presented in other tables as some persons may be involved in more than one activity.

(d) Does not equal the sum of fete organising and festival organising for 2004, as some persons have been involved in both activities.

	NUMBER		PARTICIPATION RATE(a)	
	2001	2004	2001	2004
	'000	'000	%	%
.....				
SOME PAID INVOLVEMENT				
New South Wales	291.2	296.3	(b)5.7	(b)5.6
Victoria	222.2	260.8	(b)5.9	(b)6.6
Queensland	163.1	186.9	(b)5.9	(b)6.3
South Australia	74.7	71.0	(b)6.3	(b)5.8
Western Australia	91.3	88.6	(b)6.2	(b)5.7
Tasmania	20.1	18.9	(b)5.5	(b)5.0
Northern Territory(c)	8.8	*4.4	(b)7.9	*(b)4.2
Australian Capital Territory	28.5	30.6	(b)12.1	(b)12.3
<i>Australia</i>	<i>900.0</i>	<i>957.5</i>	<i>(b)6.0</i>	<i>(b)6.1</i>
.....				
UNPAID INVOLVEMENT ONLY				
New South Wales	465.6	642.7	9.2	12.2
Victoria	416.6	498.5	11.0	12.7
Queensland	334.8	339.3	(b)12.1	(b)11.4
South Australia	140.9	154.3	(b)11.9	(b)12.7
Western Australia	157.1	183.1	(b)10.7	(b)11.9
Tasmania	45.8	54.8	(b)12.6	(b)14.5
Northern Territory(c)	11.4	15.1	(b)10.3	(b)14.3
Australian Capital Territory	39.3	42.2	(b)16.7	(b)17.0
<i>Australia</i>	<i>1 611.5</i>	<i>1 929.9</i>	<i>10.8</i>	<i>12.3</i>
.....				
TOTAL				
New South Wales	756.8	938.9	14.9	17.8
Victoria	638.8	759.3	16.9	19.3
Queensland	497.9	526.2	(b)18.0	(b)17.6
South Australia	215.6	225.2	(b)18.3	(b)18.5
Western Australia	248.4	271.7	(b)16.9	(b)17.6
Tasmania	65.9	73.7	(b)18.1	(b)19.6
Northern Territory(c)	20.2	19.6	(b)18.2	(b)18.5
Australian Capital Territory	67.8	72.8	(b)28.8	(b)29.4
Australia	2 511.5	2 887.5	16.8	18.4

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

- (a) The number of persons who reported working in the selected culture or leisure activities, expressed as a percentage of the civilian population in the same group
- (b) Difference between the 2001 and 2004 proportion is not statistically significant. See Technical Note.
- (c) Refers to mainly urban areas only. For further information refer to paragraph 7 in the Explanatory Notes.

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 2004 as a supplement to the 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 monthly LFS, which also apply to supplementary surveys. It also contains definitions of demographic and labour force characteristics, and information about interviewing which are relevant to both the monthly LFS and supplementary surveys.

3 From April 2001, the LFS has been conducted using a redesigned questionnaire containing additional questions and some minor definition changes. These changes also affect the supplementary surveys. For further details, see *Information Paper: Implementing the Redesigned Labour Force Survey Questionnaire* (cat. no. 6295.0) and *Information Paper: Questionnaires used in the Labour Force Survey* (cat. no. 6232.0).

CAI IMPLEMENTATION

4 The ABS has begun the progressive implementation of computer assisted interviewing (CAI) into the LFS. Under CAI, interviewers record responses directly onto an electronic questionnaire in a laptop computer.

5 In the April 2004 survey, the CAI method was used on a random sub-sample of 40% of interviews for all states and territories. The remainder of interviews were conducted using the traditional 'pen and paper' method. The change in interviewing method is not expected to affect the published estimates in any meaningful way.

SCOPE

6 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.

7 The supplementary survey was conducted in both rural and urban areas in all states and territories, but excluded approximately 120,000 persons living in remote and sparsely settled 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 20% of the population.

COVERAGE

8 The estimates in this publication relate to persons covered by the survey in April 2004. 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

9 Information was collected through interviews conducted over a two week period in April 2004.

10 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

EXPLANATORY NOTES *continued*

DATA COLLECTION *continued*

was asked to respond on behalf of one randomly selected person aged 15 years and over in the household.

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 (as presented in tables 1, 2, 3 and 14) 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 In a few cases, detailed information (payment status, income from activity, whether involvement was part of main job and frequency of involvement) was not collected for those involved in particular activities. The method used to obtain the information was quite involved and in some cases where a person had reported involvement in a number of different activities the detailed information was incomplete, missing or incorrect for some of these activities. This has resulted in a discrepancy between the total number of persons with involvement for certain activities and the number for whom detailed information is available. Appendix 1 presents a table showing the size of the discrepancy for each activity in thousands and in percentage terms. The publication tables affected by the discrepancy are:

- Table 5 – the components "some paid involvement" and "unpaid involvement only" do not add to "total involved" for some activities; the percentage with some paid involvement was calculated using the total of those where the payment status was collected
- Tables 7 and 8 – the population of persons having some paid involvement for some activities may be slightly lower
- Table 9 – the percentage of frequency of involvement was calculated using only those where the frequency was collected.

14 Paid culture or leisure activity as presented in table 3 was classified into two categories: part of main job and not part of main job. Persons involved in more than one type of paid culture or leisure activity were classified to 'part of main job' if one of their activities fulfilled this criterion.

15 A total for all activities and sub totals for art activities and for craft activities are not presented in Tables 8 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.

16 Additional information on certain activities—namely, writing, live music performances, performing art performances, design and teaching—was collected and is presented in table 10.

17 Of the 35 activities for which data were collected, 28 could be directly related to the nine areas of training presented in table 11. The table below lists these 28 activities and their corresponding areas of training.

EXPLANATORY NOTES *continued*

DATA INTERPRETATION

continued

<i>Type of activity</i>	<i>Area of training</i>
Libraries and archives	Librarianship
Public art galleries, museums	Heritage
Crafts (pottery and ceramics, textiles, jewellery, furniture-making and wood crafts, glass crafts, other craft activities)	Craft
Performing arts (performer and non-performer)	Drama or dance
Film production, radio, television, cinema and video distribution, interactive content creation	Film, radio or TV
Visual arts (drawing, painting, sculpture, photography, print making, computer art, other visual art activities)	Fine arts
Design activities	Design
Music (live performer and non-live performer)	Music
Writing, publishing	Literature

18 The seven culture or leisure activities not shown in the above table did not directly correspond to any of the areas of training. Involvement in a related culture or leisure field for persons with 'other' training also could not be determined.

19 Several activities have data missing in table 13 for 1993 and 1997 due to conceptual differences between survey periods. The activities which may not be compared across all survey points are: zoos and aquaria; national parks and reserves; botanic gardens; writing; publishing; performing arts (performers and non-performers); some visual art activities (electronic art/computer art and other art activities); some craft activities (other craft activities); all design activities; interactive content creation; and teaching of cultural activities. The activities which were excluded from the comparison of the 1997 and 2001 surveys are: national parks and reserves; performing arts (performers and non-performers); some visual art activities (electronic art/computer art and other art activities); some design activities (architecture, advertising, other design activities); and interactive content creation. Conceptual differences between surveys are discussed in paragraphs 21 to 31.

20 The ordering of the culture and leisure activities in tables 4, 5, 6, 7, 8, 9, and 13 correspond to the ordering shown in the industry classification of the *Australian Culture and Leisure Classifications* (cat. no. 4902.0).

COMPARISON WITH PREVIOUS SURVEYS

21 The Work in Selected Culture and Leisure Activities Survey was previously conducted as part of the MPS in 1993, 1997 and 2001 and as part of the Population Survey Monitor in 1998–99. Due to changes in the methodology and the questionnaire, caution should be exercised when making comparisons between these surveys.

22 In particular, 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.

23 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.

24 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*

25 In 2001, 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.

26 The 1993, 1997, 2001 and 2004 methodology are considered sufficiently similar that some comparisons can be made.

27 There have also been changes to the questionnaires which may have had an effect on the estimates for some activities. For some art and craft activities, changes in the questions may have resulted in an increase in the numbers reporting involvement in the 2001 survey. For involvement in the performing arts, greater detail was provided to respondents in the 2001 survey on the types of activities that should be included. This may have resulted in more persons reporting involvement. Other changes to the questionnaires are listed in paragraphs 28 and 29.

28 The following activities were introduced in the 1997 survey: botanic gardens; animal and marine parks; and electronic art. The design of multimedia titles was also separately identified as a form of design. While combined in 1993, involvement in writing and publishing were separately identified in 1997 and 2001, possibly resulting in more persons reporting they had some involvement in writing in the latter years. Similarly, involvement in writing and publishing as a teacher were separately identified in 1997 and 2001 which could have increased the number of persons who reported being involved in teaching in those years.

29 The following three activities were introduced in the 2001 survey: national parks and reserves; computer art; and interactive content creation, which included design of websites, computer games and other interactive software. Further to these additional activities, in 2001, respondents were asked if they had done any work in either architecture or advertising. If they had, they were classified as having an involvement in design. Architecture and advertising were not separately identified design activities in 1993 or 1997, possibly resulting in a lower number of persons being reported as being involved in design for those years. Design of multimedia titles was not separately identified as a form of design in 2001 (while it was in 1997). Electronic art was not included in the 2001 survey, and animal and marine parks were called zoos and aquaria.

30 Data content for 2004 was essentially the same as in 2001.

31 While caution should be exercised in making comparisons between the surveys due to the changes outlined above, summary data from the 1993, 1997, 2001 and 2004 surveys can be found in table 13. Additional summary data from 2001 and 2004 only can be found in table 14.

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.

EXPLANATORY NOTES *continued*

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*.

RELATED PUBLICATIONS

34 Other ABS publications which may be of interest include:

Arts and Culture in Australia: A Statistical Overview, 2004, 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

Libraries and Museums, Australia, 1996–1997, cat. no. 8649.0

Motion Picture Exhibition, Australia, 1999–2000, cat. no. 8654.0

Museums, Australia, 1999–2000, cat. no. 8560.0

Performing Arts, Australia, 2002–2003, cat. no. 8697.0

Public Libraries, Australia, 1999–2000, 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

Selected Museums, Australia, 1997–1998, cat. no. 4145.0

Video Hire Industry, Australia, 1999–2000, cat. no. 8562.0

Voluntary Work, Australia, 2000, 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 listed in the *Catalogue of Publications and Products* (cat. no. 1101.0). The Catalogue is available from any ABS office or the ABS web site <www.abs.gov.au>. The ABS also issues a daily Release Advice on the web site 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>.

APPENDIX 1 POPULATIONS INVOLVED IN ACTIVITIES

<i>Type of activity</i>	<i>Persons involved for whom detailed information is available(a)</i>		<i>Difference</i>	
	<i>Persons involved '000</i>	<i>Persons involved '000</i>	<i>'000</i>	<i>%</i>
Heritage organisations	62.2	60.2	2.0	3.3
Public art galleries	43.5	42.4	1.1	2.6
Museums	43.8	43.8	—	—
National parks and reserves	113.0	109.7	3.3	3.0
Zoos and aquaria	15.9	15.9	—	—
Botanic gardens	23.0	23.0	—	—
Libraries and archives	87.8	87.8	—	—
Writing	556.5	522.3	34.2	6.5
Publishing	162.2	151.0	11.2	7.4
Music				
Live performer	230.8	222.3	8.5	3.8
No involvement as a live performer	69.1	68.1	1.0	1.5
<i>Total</i>	305.2	295.7	9.5	3.2
Performing arts				
Performer	272.7	268.7	4.0	1.5
No involvement as performer	151.2	148.8	2.4	1.6
<i>Total</i>	423.9	417.5	6.4	1.5
Visual art activities				
Drawing	288.7	285.1	3.6	1.3
Painting	262.4	258.9	3.5	1.4
Sculpture	61.5	60.5	1.0	1.7
Photography	300.1	295.8	4.3	1.5
Print-making	68.4	65.3	3.1	4.7
Computer art	286.3	282.9	3.4	1.2
Other visual art activities	47.8	45.4	2.4	5.3
<i>Total</i>	789.9	780.2	9.7	1.2
Craft activities				
Pottery and ceramics	57.6	54.7	2.9	5.3
Textiles	144.3	141.8	2.5	1.8
Jewellery	63.5	61.9	1.6	2.6
Furniture-making and wood crafts	204.5	202.9	1.6	0.8
Glass crafts	27.0	26.2	0.8	3.1
Other craft activities	122.1	115.3	6.8	5.9
<i>Total</i>	542.7	531.9	10.8	2.0
Design	370.2	365.6	4.6	1.3
Radio	93.0	93.0	—	—
Television	76.2	75.9	0.3	0.4
Film production	74.9	72.4	2.5	3.5
Cinema or video distribution	28.1	28.1	—	—
Interactive content creation	214.7	212.3	2.4	1.1
Teaching	183.2	166.2	17.0	10.2
Fete organising	336.5	333.3	3.2	1.0
Festival organising	252.2	248.5	3.7	1.5
Art and craft show organising	153.2	153.0	0.2	0.1
Government arts organisations and agencies	22.0	20.6	1.4	6.8
Total (b)	2 887.5	2 887.5	—	—

— nil or rounded to zero (including null cells)

(a) The number of persons involved for whom detailed information was collected as used in tables 5, 7, 8 and 9. See paragraph 13 in the Explanatory Notes.

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

APPENDIX 2 POPULATIONS AND DATA ITEMS LIST

DATA AVAILABLE ON REQUEST

The ABS has a range of data available on request from the Work in Selected Culture and Leisure Activities Survey. This section lists the data items and populations which relate to the survey. More detailed breakdowns of some data items may also be available on request.

For more information about ABS data available on request, contact Theo Neumann in Adelaide on (08) 8237 7449, or by facsimile (08) 8237 7366, or by email to <theo.neumann@abs.gov.au>.

POPULATIONS

1. All persons aged 15 years and over
2. All persons aged 15 years and over who have written items which are not for own or family use
3. All persons aged 15 years and over who are involved in selected performance based activities
4. All persons aged 15 years and over who are music performers
5. All persons aged 15 years and over involved in selected culture and leisure activities

DATA ITEMS

CHARACTERISTICS

Sex

Age (in single years)

Country of birth

State or territory of usual residence

Area of usual residence

Indigenous identifier

LABOUR FORCE

Full-time/part-time employment

Labour force status

Multiple job holder

SELECTED CULTURE AND LEISURE ACTIVITIES

Culture and leisure activities participated in

Hobby activities participated in

How writing is output

Whether a performer in selected culture activities

Type of music performer

Type of music performed

Whether performance undertaken in licensed or unlicensed premises

Whether completed any qualifications in a cultural field

Whether paid or will be paid for involvement

Annual value of payment

Number of weeks involved in selected cultural activities

Average number of hours involved each week

Whether involvement is part of job held last week

TECHNICAL NOTE DATA QUALITY

RELIABILITY OF 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 that would have been produced if all dwellings had been included in the survey. One measure of the likely difference is given by the standard error (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 2 chances in 3 (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.

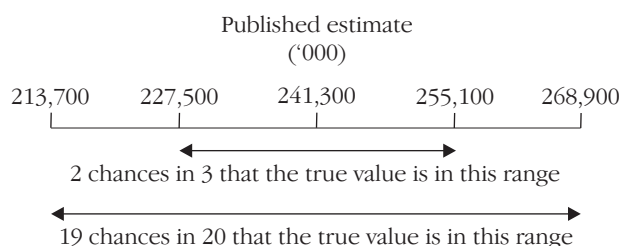
2 Due to space limitations, it is impractical to print the SE of each estimate in the publication. Instead, a table of SEs is provided to enable readers to determine the SE for an estimate from the size of that estimate (see table T1). Each SE table is derived from a mathematical model, referred to as the 'SE model', which is created using the data collected in this survey. It should be noted that the SE model only gives an approximate value for the SE for any particular estimate, since there is some minor variation among SEs for different estimates of the same size.

CALCULATION OF STANDARD ERROR

3 An example of the calculation and the use of SEs in relation to estimates of persons follows. From table 2 an estimated 241,300 males aged between 25 and 34 years were involved in a culture or leisure activity during the 12 months prior to interview. Since this estimate is between 200,000 (lower estimate) and 300,000 (higher estimate), table T1 shows that the SE for Australia will lie between 12,750 and 15,200, and can be approximated by interpolation using the following general formula:

$$\begin{aligned}
 & SE \text{ of estimate} \\
 &= \text{lower SE} + \left(\left(\frac{\text{size of estimate} - \text{lower estimate}}{\text{upper estimate} - \text{lower estimate}} \right) \times (\text{upper SE} - \text{lower SE}) \right) \\
 &= 12,750 + \left(\left(\frac{241,300 - 200,000}{300,000 - 200,000} \right) \times (15,200 - 12,750) \right) \\
 &= 13,761 \\
 &= 13,800 \text{ (rounded to the nearest 100)}
 \end{aligned}$$

4 Therefore there are about 2 chances in 3 that the number that would have been produced if all dwellings had been included in the survey will fall within the range 227,500 and 255,100, and about 19 chances in 20 that the value will fall within the range 213,700 and 268,900. This example is illustrated in the diagram below:



5 In general, the size of the SE increases as the size of the estimate increases, but at a slower rate. Therefore, the RSE decreases as the size of the estimate increases. Very small estimates are thus subject to such high RSEs that their value for most practical purposes is unreliable. In the tables in this publication, only estimates with an RSE of 25% or less are considered reliable for most purposes. Estimates with an RSE greater than 25% but less than or equal to 50% are preceded by an asterisk (e.g. *3.4) to indicate they are

CALCULATION OF STANDARD ERROR *continued*

subject to high SEs and should be used with caution. Estimates with RSEs of greater than 50%, preceded by a double asterisk (e.g. **0.3), are considered too unreliable for general use and should only be used to aggregate with other estimates to provide derived estimates with an RSE of 25% or less.

PROPORTIONS AND PERCENTAGES

6 Proportions and participation rates formed from the ratio of two estimates are also subject to sampling error. 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:

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

7 This formula is only valid when x is a subset of y.

8 Considering the example above, the 241,300 males aged between 25 and 34 years who were involved in a culture or leisure activity during the 12 months prior to interview, represent 44% of the 542,300 persons aged between 25 and 34 years who were involved in a culture or leisure activity. The SE of 542,300 may be calculated by interpolation as 19,349. To convert this to a RSE we express the SE as a percentage of the estimate, or $19,349/542,300 = 3.6\%$. The SE for 241,300 was calculated previously as 13,762, which converted to a RSE is $13,762/241,300 = 5.7\%$. Applying the above formula, the RSE of the proportion is:

$$RSE = \sqrt{(5.7)^2 + (3.6)^2} = 6.7\%$$

9 This then gives an SE of the percentage (44%) of $(6.7/100) \times 44 = 2.9\%$. Therefore, there are about 2 chances in 3 that the percentage of males aged between 25 and 35 years who were involved in selected culture and leisure activities was between 41% and 47% and approximately 19 chances in 20 that the percentage was in the range 41% to 48%.

DIFFERENCES

10 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:

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

11 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.

SIGNIFICANCE TESTING

12 Statistical significance testing has been undertaken for the comparison of proportions between 2001 and 2004 in table 14 of this publication.

13 The statistical significance test for these comparisons was performed to determine whether it is likely that there is a difference between the corresponding population characteristics, rather than the result of sampling variability in the data. The standard error of the difference between two corresponding estimates (x and y) can be calculated using the formula in paragraph 10. This standard error is then used to calculate the following test statistic:

$$\frac{[x-y]}{SE(x-y)}$$

TECHNICAL NOTE DATA QUALITY *continued*

SIGNIFICANCE TESTING

continued

14 If the value of this test statistic is greater than 1.96 then there are 19 chances in 20 that there is 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.

15 The SE of an estimated percentage or rate computed by using sample data for both numerator and denominator, depends on both the size of the numerator and the size of the denominator. However, the RSE of the estimated percentage or rate will generally be lower than the RSE of the estimate of the numerator. This means that differences on proportions may be significant while differences on estimates are not.

16 The selected tables in this publication that show the results of statistical significance testing are annotated to indicate whether or not the estimates which have been compared are statistically significantly different from each other with respect to the test statistic. In all other tables which do not show the results of significance testing, users should take account of RSEs when comparing estimates.

T1 STANDARD ERRORS OF ESTIMATES

Size of Estimate	AUST.									SE	RSE
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT			
	No.	No.	No.	No.	No.	No.	No.	No.	No.		
100	170	130	200	120	.	110	90	130	150	150.0	
200	280	230	310	200	130	180	160	200	250	125.0	
300	380	310	400	260	190	230	230	250	330	110.0	
500	540	460	540	370	300	320	340	340	470	94.0	
700	680	580	670	470	400	400	430	420	580	82.9	
1,000	860	750	820	590	540	500	540	510	730	73.0	
1,500	1 120	990	1 040	760	750	630	700	640	940	62.7	
2,000	1 350	1 190	1 220	910	930	740	820	750	1 130	56.5	
2,500	1 550	1 350	1 400	1 050	1 100	850	900	850	1 300	52.0	
3,000	1 750	1 550	1 550	1 150	1 250	950	1 000	900	1 450	48.3	
3,500	1 900	1 700	1 650	1 250	1 400	1 000	1 100	1 000	1 600	45.7	
4,000	2 050	1 850	1 800	1 350	1 500	1 100	1 150	1 050	1 700	42.5	
5,000	2 350	2 100	2 000	1 550	1 750	1 200	1 300	1 200	1 950	39.0	
7,000	2 850	2 550	2 400	1 850	2 150	1 450	1 450	1 400	2 350	33.6	
10,000	3 450	3 150	2 900	2 250	2 600	1 750	1 700	1 650	2 900	29.0	
15,000	4 300	3 900	3 550	2 800	3 200	2 100	1 900	1 950	3 600	24.0	
20,000	5 000	4 550	4 100	3 200	3 700	2 400	2 050	2 200	4 200	21.0	
30,000	6 100	5 600	5 000	3 900	4 400	2 850	2 250	2 600	5 150	17.2	
40,000	7 050	6 400	5 700	4 450	4 950	3 200	2 350	2 950	6 000	15.0	
50,000	7 850	7 100	6 300	4 900	5 350	3 550	2 450	3 200	6 700	13.4	
100,000	10 700	9 650	8 600	6 550	6 650	4 600	2 550	4 100	9 300	9.3	
150,000	12 750	11 400	10 200	7 650	7 400	5 300	2 550	4 700	11 200	7.5	
200,000	14 350	12 750	11 500	8 550	7 850	5 850	2 550	5 150	12 750	6.4	
300,000	16 850	14 800	13 500	9 850	8 400	6 650	..	5 850	15 200	5.1	
500,000	20 400	17 600	16 450	11 650	8 850	7 700	..	..	18 850	3.8
1,000,000	25 900	21 800	21 250	14 350	9 100	..	..	..	24 750	2.5
2,000,000	32 100	26 200	26 950	17 200	8 850	..	..	..	31 950	1.6
5,000,000	41 250	32 000	36 050	..	..	..	..	..	43 600	0.9
10,000,000	..	..	..	..	..	..	..	..	54 000	0.5

.. not applicable

GLOSSARY

Activities Involvement in the various culture and leisure activities included in the survey are defined below.

Art or craft. Persons were classified as being 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. Art or craft involvement was categorised into the following groups.

Visual art activities:

drawing, painting, sculpture, photography, print-making, computer art, and other art activities.

Craft activities:

pottery and ceramics, textiles, jewellery, furniture-making or woodcrafts, glass crafts, and other craft activities.

Art and craft show organising. This activity involves organising art and craft shows or exhibitions irrespective of size (e.g. local, school, community, professional).

Public art galleries. This comprises those persons involved in the operation or administration of a public art gallery (e.g. State or National galleries). It includes those persons working as support staff. Art galleries are sometimes referred to as art museums.

Botanic gardens. This comprises those persons involved in the operation or administration of a botanic garden, and includes those persons working as support staff.

Cinema and video distribution. This includes involvement in any capacity in cinemas, video hire outlets and video sales, and includes persons working as support staff.

Persons involved 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).

Computer art. This includes visual art created using a computer.

Design. This activity includes involvement in design professions (e.g. fashion, interior, graphic, architectural or advertising), but excludes industry design and drafting.

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

Festival organising. This activity 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. This activity relates to organising any type of fete (e.g. local, school, community). Assisting with the operation of a stall was outside the scope of the survey.

Film production. This includes involvement in any capacity in the production or making of films or videos. Actors, producers, designers, camera operators, directors and support staff involved in the production or making of films are included in this category. Persons involved in distributing or screening films are excluded from this category and included with cinema and video. It also excludes script writers, who would be included in writing.

Furniture-making and wood crafts. This activity 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. This activity includes all glass objects made by an artist or craftsperson such as lead-lighting, glass blowing and moulding.

Government arts organisations and agencies. This includes persons working for a government or public body set up for the support or administration of arts activities (e.g. the Australia Council, State Arts departments, Government regulatory authorities, arts centres and trusts). It includes those persons working as support staff.

GLOSSARY *continued*

Activities *continued*

Heritage organisations. This includes involvement in the recording, preservation, management or operation of Indigenous and/or historic environments (e.g. historic sites, monuments), or in a heritage organisation or association in any capacity. It includes those persons working as support staff. Members of National Trusts were included if they had undertaken any heritage activity apart from membership. Persons being paid to renovate heritage buildings (e.g. carpenters, tilers) were excluded, although voluntary renovation of a heritage building or site was included.

Interactive content creation. This activity includes designing websites and creating programs which contain film, sound and animated components for use on computers, electronic games and touch screens.

Jewellery. This activity includes all jewellery made by an artist or craftsperson from any material.

Libraries and archives. This includes any operation or administration of a library (including school libraries) or archive. It includes those persons working as support staff.

Museums. This includes any involvement in the operation or administration of a commercial or non-commercial museum including science, maritime and natural history museums and historical theme parks. It includes tour guides, curators and conservators, as well as support staff.

Music. This comprises involvement in any music capacity including playing, singing, music arranging, composing, song writing, 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. Booking agency operation was also excluded. Music as a live performer includes playing musical instruments, conducting or singing in front of an audience.

National parks and reserves. This includes involvement in fauna and flora reserves, national parks and reserves, tourist caves and wildlife sanctuaries. It includes those persons working as support staff.

Other art activities. This comprises those art activities that do not fit into any of the listed art categories. It includes activities such as performance art, leather art, photocopy art and paper art.

Other craft activities. This comprises those craft activities that do not fit into any of the listed craft categories. It includes activities such as metal craft and decoupage.

Painting. This activity includes painting on any material. It includes murals, frescoes, graffiti art and china painting.

Performing arts. This comprises any type of involvement in theatre, dance, opera and music theatre, and other performing arts other than performances of music. It includes acting and performing, directing, producing, and choreographing performances. It also includes backstage work on activities such as applying make-up, costume making and set constructing, as well as involvement as stage hands, sound and lighting technicians, front of house personnel and other support staff. Involvement in school plays and other school-related performances such as rock eisteddfods has been excluded. Performing arts performances include 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. This activity includes commercial, industrial, advertising, fashion, portrait and wedding photography. It excludes photographic modelling, processing or developing of film, retailing photographic equipment and supplies, and aerial photography.

Pottery and ceramics. This activity includes the production of individually created clay works made by or under the control of an artist or craftsperson.

GLOSSARY *continued*

Activities <i>continued</i>	<p><i>Print-making.</i> This activity includes all types of print-making such as silk-screen lithography, wood-cut, etc. Fabric printing is included with textiles.</p> <p><i>Publishing.</i> This activity includes persons involved in publishing written material, both works of fiction and non-fiction, that is, the publishing of creative writing and non-fiction articles or books are both included. It includes support staff working for publishers. It excludes printing of written material, design activities and music publishing.</p> <p><i>Radio.</i> This includes involvement in any capacity (e.g. producers, announcers, radio journalists, sound technicians, administrative and support staff of radio stations) in the production, programming and operation of radio broadcasting services. Persons involved in script writing or making recordings to play on radio who are not employed by or working voluntarily for a radio station are included under writing.</p> <p><i>Sculpture.</i> This activity includes the formation of figures or designs by cutting marble, wood, granite, etc., or by fashioning plastic material, making moulds, etc.</p> <p><i>Teaching.</i> This activity includes involvement in the teaching of any aspects of radio, television, film, video, music, performing arts, visual arts, crafts, writing, publishing and design. It includes dance and drama instruction, music teaching, lecturing, work shop leading and hobby class teaching. Any involvement as a primary or secondary school teacher was outside of the scope of the survey.</p> <p><i>Television.</i> This includes involvement in any capacity in the production, programming and operation of television broadcasting services and includes support staff. Participation in making in-house television programs in any capacity (e.g. announcers, producers, props, camera operation or directing, and support staff) 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 in the film production category.</p> <p><i>Textiles.</i> This activity includes weaving, knitting, embroidery, sewing, patchwork, macramé, quilting, spinning, lace making and fabric painting. It excludes factory made products, and those that were only undertaken for the respondent's own or family use.</p> <p><i>Writing.</i> This covers the writing of works of fiction and non-fiction and includes: writing novels, textbooks, short stories, poetry, plays, scripts, lyrics, screenplays, biographies and newsletters; copy writing, journalism and editing of written material; and writing articles for journals, magazines, technical writing, etc. Persons whose only writing involvement is letter writing (e.g. letters to the editor) are excluded from this category. Writing for own use or that of their family was classed as a hobby.</p> <p><i>Zoos and aquaria.</i> This includes the operation or administration of an animal or marine park, such as zoos, reptile parks and wildlife sanctuaries. It includes persons working as support staff.</p>
Annual income from activity	This is the gross income (i.e. income before tax and expenses are deducted) received or expected to be received from the person's involvement in the activity during the 12 months prior to interview.
Capital cities	The areas determining 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).
Country of birth	Birthplace is classified according to the <i>Standard Australian Classification of Countries (SACC)</i> (cat. no. 1269.0).
Employed	Employed persons are those aged 15 years and over who, during the week prior to interview: <ul style="list-style-type: none">■ 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)

GLOSSARY *continued*

Employed <i>continued</i>	<ul style="list-style-type: none">■ worked for one hour or more without pay in a family business or on a farm (i.e. contributing family workers)■ were employees who had a job but were not at work and were away from work for less than four weeks up to the end of the week prior to interview; away from work for more than four weeks up to the end of the week prior to interview and received pay for some or all of the four week period prior to interview; away from work as a standard work or shift arrangement; on strike or locked out; on workers' compensation and expected to return to their job■ were employers or own account workers who had a job, business or farm, but were not at work.
Hobby	Hobby activities are those where all participation in art or craft, writing or music was either for the person's own use or for the benefit of their family.
Involvement	A person is classified as having 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 benefit of their family (i.e. was not a hobby activity). Refer also to Work in culture and leisure activities and Hobby.
Labour force status	This is a classification of the civilian population aged 15 years and over into employed, unemployed or not in the labour force.
Main English speaking countries	<p>The list of main English speaking countries provided here is not an attempt to classify countries on the basis of whether or not English is the predominant or official language of each country. It is a list of the main countries from which Australia receives, or has received, significant numbers of overseas migrants who are likely to speak English. The list therefore includes South Africa. Although large numbers of South Africans do not speak English as their first language, those who migrate to Australia are likely to speak English. The list does not include country units which are statistically insignificant in the Australian context, although they are English speaking countries.</p> <p>The set of Main English Speaking Countries used in this publication consists of:</p> <ul style="list-style-type: none">AustraliaCanadaIreland, Republic ofNew ZealandSouth AfricaUnited Kingdom (consisting of England, Scotland, Wales, Northern Ireland)United States of America
Main job	Where a person has more than one job, the main job was defined as that in which the person worked the most hours. It does not apply to persons who were unemployed or not in the labour force.
Not in the labour force	Persons who were not in the categories employed or unemployed as defined.
Number of weeks of involvement	This refers to the weeks in which the person was involved in the 12 months prior to interview, whether it was for one hour during the week or full time.
Paid involvement	This includes a person's involvement for which payment had already been received, as well as a person's involvement 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 payment in-kind, such as the provision of goods and services and discounts on purchases.

GLOSSARY *continued*

Participation rate	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.
Payment in-kind	This comprises any non-monetary payment received for the person's involvement. It includes the provision of goods and services; discounts on purchases; and reductions in, or waiving of, subscriptions or membership fees.
Some paid involvement	This category includes all persons who received financial or in-kind payment for their involvement, regardless of whether or not they had some unpaid involvement.
Support staff	Support staff comprise those persons performing tasks such as administration, sales and maintenance. It includes occupations such as receptionists, clerks, salespersons, ticket sellers, ushers, cleaners, gardeners and security guards.
Training	For this survey, training was defined as a course of study in an art or culture field relevant to the activities included in the survey, regardless of the length of the course or the type of institution offering the course. However, a certificate must have been issued. The study could include attendance at workshops, training seminars, in-house training provided by employers, etc.
Unemployed	Unemployed persons are those aged 15 years and over who were not employed during the week prior to interview and: <ul style="list-style-type: none">■ had actively looked for full-time or part-time work at any time in the four weeks up to the end of the week prior to interview■ were available for work in the week prior to interview or were waiting to start a new job within four weeks from the end of the week prior to interview and could have started in the week prior to interview if the job had been available then.
Unpaid involvement in culture activities	This includes any unpaid work involvement in the selected culture and leisure activities. It also includes working unpaid overtime or working beyond a person's paid position on the selected culture activities.
Work in selected culture and leisure activities	This consists of any participation, paid or unpaid, in any of the selected culture and leisure activities included in the survey, excluding involvement only as a hobby. Refer also to Involvement and Hobby.

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