



INVOLVEMENT IN ORGANISED SPORT AND PHYSICAL ACTIVITY

AUSTRALIA

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CONTENTS

	<i>page</i>
Notes	2
Summary of findings	3

TABLES

1 Characteristics of persons involved, by payment status	10
2 Persons, by involvement and payment status, State and Territory .	11
3 Characteristics of persons involved, by playing status	12
4 Number of roles, by playing status	15
5 Type of involvement, by payment status, State and Territory	16
6 Type of paid involvement, by payment amount	19
7 Type of involvement, by number of weeks	20
8 Type of involvement, by number of hours per week	22
9 Type of non-playing involvement, by qualifications	24
10 Type of non-playing involvement, in school or junior sport	25
11 Characteristics of persons involved in non-playing roles, 1993, 1997 and 2001	26
12 Type of non-playing involvement, 1993, 1997 and 2001	29

ADDITIONAL INFORMATION

Explanatory notes	30
Technical note: Sampling variability	35
Glossary	39

- For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Lisa Conolly on Adelaide 08 8237 7402.

NOTES

ABOUT THIS PUBLICATION

This publication presents information on the number of persons aged 15 years and over who were involved in organised sport and organised physical activity over a 12-month period. These data were collected as part of the April 2001 Monthly Population Survey.

Data are presented in this publication for players and participants in organised sport and physical activity and for persons involved in non-playing roles. A description of the characteristics of each group is provided, as well as information about whether any payment was received and the amount of time spent on each type of involvement. Further information is provided about the types of non-playing roles undertaken, whether a course or qualification had been completed for these roles, and whether any involvement was with school or junior sport. For non-playing roles, comparisons are also presented using data from the 1993 and 1997 Involvement in Sport surveys.

ROUNDING

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

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ABBREVIATIONS

ABS	Australian Bureau of Statistics
ACT	Australian Capital Territory
e.g.	for example
i.e.	that is
NSW	New South Wales
NT	Northern Territory
Qld	Queensland
RSE	Relative standard error
SA	South Australia
SE	Standard error
Tas.	Tasmania
Vic.	Victoria
WA	Western Australia

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SUMMARY OF FINDINGS

SUMMARY

In the 12 months to April 2001, an estimated 4.1 million persons aged 15 years and over were involved in sport and physical activity that was organised by a club, association or other organisation. This represents a participation rate of 27.1%. This involvement includes players or participants and those involved in non-playing roles that support, arrange and/or run organised sport and physical activity.

A total of 3.5 million persons (23.5%) were players or participants in at least one organised sport or physical activity. This group is referred to as 'players' throughout this publication.

Just over 1.4 million persons (9.5%) were involved in at least one of the following non-playing roles: coach, instructor or teacher; referee or umpire; committee member or administrator; scorer or timekeeper; medical support; or other role.

Of the 4.1 million persons involved in organised sport and physical activity, 0.9 million (5.9% of all persons or 21.6% of those involved) were both a player and involved in at least one non-playing role.

One-third (33.8%) of those who were involved in a non-playing role were involved in more than one non-playing role. In total, there were 2.1 million non-playing involvements among the 1.4 million persons involved in at least one non-playing role.

Other key findings are:

- men were more likely than women to be involved in organised sport and physical activity, both as players (27.3% of men and 19.7% of women) and in non-playing roles (10.9% of men and 8.1% of women);
- 39.5% of persons aged between 15 to 24 years were players, and player participation rates decreased with age;
- of the 1.4 million persons who were involved in a non-playing role, 33.6% had undertaken a course or held a qualification related to their role;
- of the 3.5 million players involved in organised sport and physical activity, 88,100 (2.5%) received some payment (either in dollars and/or goods and services) for their involvement;
- of the 2.1 million non-playing involvements, 233,500 (11.0%) attracted some payment; and
- the non-player participation rate of 9.5% for 2001 is lower than the rates recorded in both 1993 (10.4%) and 1997 (11.5%); this was reflected in the data for both males and females.

INVOLVEMENT IN ORGANISED SPORT AND PHYSICAL ACTIVITY

There were an estimated 4.1 million persons (27.1%) aged 15 years and over who were involved in organised sport and physical activity in the 12 months to April 2001 (table 1). Involvement in organised sport and physical activity includes persons involved as players or participants, as well as those involved in the following non-playing roles: coach, instructor or teacher; referee or umpire; committee member or administrator; scorer or timekeeper; medical support; or other role. Persons involved only as a spectator or club member are excluded.

The participation rate was higher for males (31.1%) than females (23.2%) (table 1).

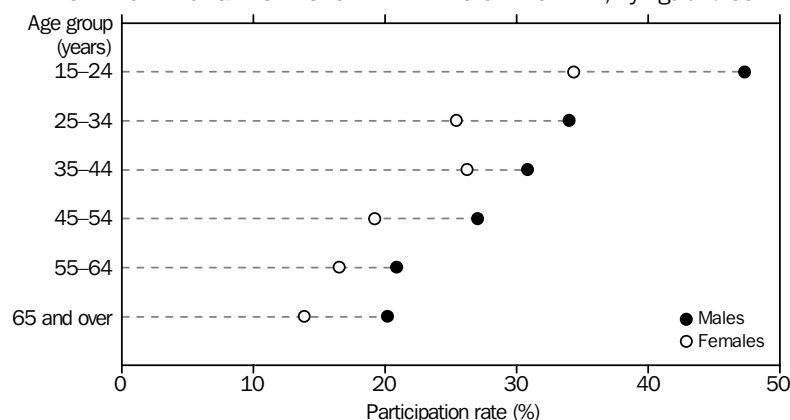
SUMMARY OF FINDINGS *continued*

INVOLVEMENT IN ORGANISED SPORT AND PHYSICAL ACTIVITY

continued

The 15 to 24 year age group had the highest participation rate (40.9%), with rates declining consistently with age to 16.8% for those aged 65 years and over. Males had higher participation rates than females across all age groups (table 3).

PARTICIPATION IN ORGANISED SPORT AND PHYSICAL ACTIVITY, By Age and Sex



Geographic comparisons

The participation rate for persons residing in the six State capital cities (25.0%) was lower than that for persons residing outside of these areas (30.7%) (table 1). Across Australia, the participation rate ranged from 26.1% for Queensland to 32.3% for the Australian Capital Territory (table 2).

As participation appears to be related to age and sex, differences in age and sex profiles of the States and Territories should be considered when making comparisons. For example, the Northern Territory and the Australian Capital Territory have higher proportions of younger adults than the Australian average, while the populations of South Australia and Tasmania have a greater than average percentage of older persons.

The following table shows the participation rates for each State and Territory recorded from the survey, as well as standardised rates which take account of the differing age and sex profiles of the States and Territories. The standardised rate presented is based on the age and sex profile of the Australian estimated population at 31 March 2001.

SUMMARY OF FINDINGS *continued*

Geographic comparisons *continued*

PARTICIPATION IN ORGANISED SPORT AND PHYSICAL ACTIVITY, By State and Territory

	<i>Unstandardised participation rate</i>	<i>Standardised participation rate</i>
	%	%
New South Wales	26.2	26.3
Victoria	26.6	26.6
Queensland	26.1	26.0
South Australia	29.4	30.0
Western Australia	29.7	29.4
Tasmania	30.7	31.4
Northern Territory(a)	26.4	25.5
Australian Capital Territory	32.3	31.5
Australia	27.1	27.1

(a) Refers to mainly urban areas only.

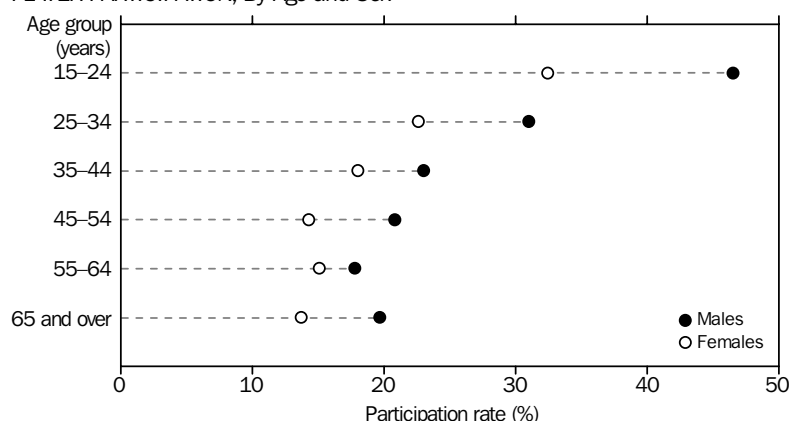
The standardised results indicate that the age and sex profiles of the States and Territories have a minimal impact on the participation rates recorded, with all changes less than one percentage point.

CHARACTERISTICS OF PLAYERS

In the 12 months to April 2001, there were 3.5 million persons aged 15 years and over who were involved in organised sport and physical activity as a player or participant. This is a participation rate of 23.5%. The rate was higher for males (27.3%) than for females (19.7%) (table 3).

The 15 to 24 year age group had the highest player participation rate (39.5%), while the 65 years and over age group had the lowest rate (16.4%). For both males and females the highest player participation rate was for the 15 to 24 year age group: 46.5% for males and 32.4% for females (table 3).

PLAYER PARTICIPATION, By Age and Sex



The player participation rate for employed persons (27.2%) was higher than the rate recorded for those who were unemployed (19.1%) or not in the labour force (17.5%) (table 3).

SUMMARY OF FINDINGS *continued*

CHARACTERISTICS OF PLAYERS *continued*

Persons residing in the six State capital cities (21.6%) had a lower player participation rate than persons residing outside of these regions (26.6%) (table 3). Across Australia, the participation rate for players ranged from 22.8% for Queensland to 27.2% for the Australian Capital Territory (table 5).

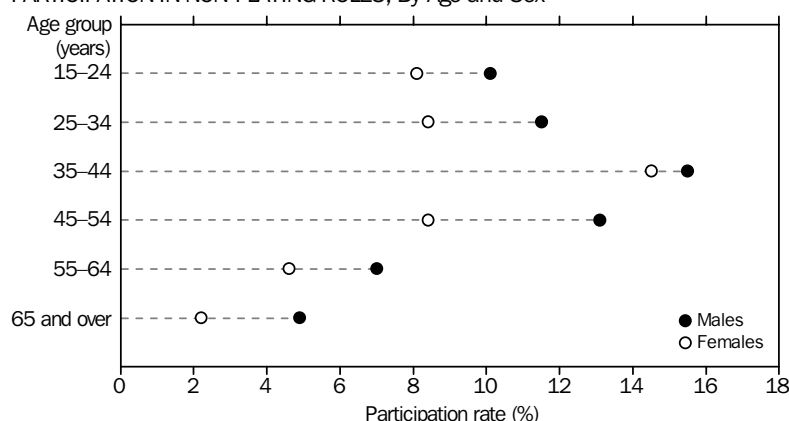
Persons who were born in Australia had a higher player participation rate (26.8%) than those who were born overseas in the main English speaking countries (22.0%). Both of these rates were higher than the player participation rate for those born in other countries (10.3%) (table 3).

CHARACTERISTICS OF PERSONS INVOLVED IN NON-PLAYING ROLES

In the 12 months to April 2001, 1.4 million persons were involved in organised sport and physical activity in one or more non-playing roles, such as: coach, instructor or teacher; referee or umpire; committee member or administrator; scorer or timekeeper; medical support; and other non-playing role. This is a non-player participation rate of 9.5% of all persons aged 15 years and over. The participation rate was higher for males (10.9%) than females (8.1%) (table 3).

The 35 to 44 year age group had the highest participation rate (15.0%) for non-playing roles, while those aged 65 years and over had the lowest rate (3.5%). Males consistently had higher participation rates in non-playing roles than females for all age groups (table 3).

PARTICIPATION IN NON-PLAYING ROLES, By Age and Sex



More employed persons were involved in non-playing roles (12.3%) compared with those who were unemployed (9.2%) or not in the labour force (4.6%) (table 3). Females who were employed full time had a lower non-player participation rate (9.7%) than those employed part time (13.0%) (table 3).

The non-player participation rate for persons residing in the six State capital cities (8.1%) was lower than for persons residing outside of the six capital cities (11.9%) (table 3).

Persons who were born in Australia had a higher non-player participation rate (11.1%) than those who were born overseas (5.3%) (table 3).

NON-PLAYING ROLES

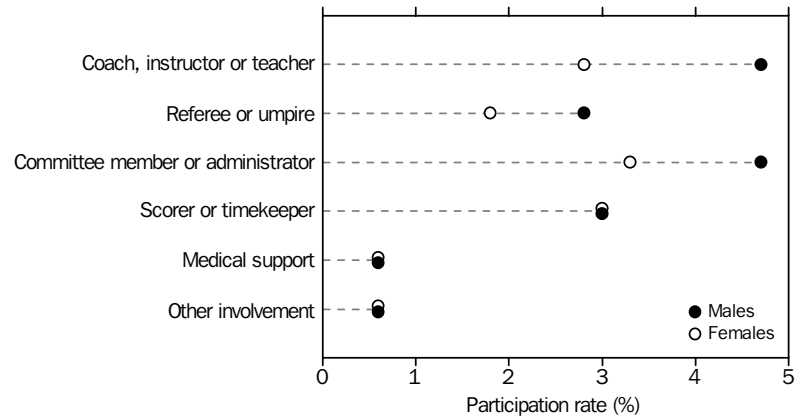
Of the 1.4 million persons with non-playing involvement, 66.2% participated in one non-playing role, 22.2% had two non-playing roles and 11.6% were involved in three or

SUMMARY OF FINDINGS *continued*

NON-PLAYING ROLES
continued

more non-playing roles (table 4). These 1.4 million persons had 2.1 million involvements in non-playing roles in the 12 months prior to interview (table 5).

PARTICIPATION IN NON-PLAYING ROLES, By Role and Sex



A greater percentage of males than females participated in the roles of: coach, instructor or teacher (4.7% of males and 2.8% of females); referee or umpire (2.8% of males and 1.8% of females); and committee member or administrator (4.7% of males and 3.3% of females) (table 12).

School and junior sport

Of the 1.4 million persons involved in non-playing roles, 760,600 (53.6%) were associated with school or junior sport for at least some of their non-player involvement (table 10). Of those involved as a coach, instructor or teacher, 68.1% had some association with school or junior sport. A lower percentage of those involved as a committee member or administrator had some association with school or junior sport (40.8%).

Qualifications for non-playing roles

One-third (33.6%) of all persons involved in non-playing roles (477,500 persons) had completed a course or qualification relevant to their role (table 9). For most non-playing roles, the proportion of males and females who held qualifications were similar. However, the percentage of female referees and umpires who held qualifications (54.7%) was higher than the percentage of male referees and umpires who did so (36.4%).

The role with the highest proportion of participants who held a qualification was medical support; 85.5% or 77,100 of the 90,100 persons who provided medical support had completed a course or qualification relevant to the role.

PAYMENT FOR INVOLVEMENT

Only 6.5% (264,000 persons) of the 4.1 million persons involved in organised sport and physical activity received some type of payment for their involvement (table 1). The number of involvements for which these 264,000 persons were paid totalled 321,600 (table 6).

Payment may have been only in the form of goods or services (16.1% of paid involvements), or payment may have included an amount in dollars (73.6% of paid involvements). Where payment was in dollars there may also have been some payment in goods and services. Of all paid involvements, 61.6% (198,200 involvements) were for cash payments of less than \$5,000 in the previous 12 months, and 12.0% (38,600 involvements) were for \$5,000 or more (table 6).

SUMMARY OF FINDINGS *continued*

PAYMENT FOR INVOLVEMENT *continued*

Of the 2.1 million non-playing involvements, 11.0% (233,500) attracted some kind of payment. In contrast, 2.5% of the 3.5 million players (88,100 persons) received some payment for their playing role.

Some non-playing roles were more likely to attract payment than others. For example, 20.4% of persons involved in a referee or umpire role received some payment: 19.0% of those in a coach, instructor or teacher role did so, and 13.2% of persons in a medical support role were paid. In contrast, 4.1% of persons involved as a committee member or administrator and 3.2% of persons involved in scoring or timekeeping were paid (table 5).

TIME INVOLVED

More than half (56.3%) of involvements in organised sport and physical activity were for 26 weeks or less in the previous year, one in ten (10.7%) were for 27 to 39 weeks and one-third (33.1%) lasted throughout most of the year (40 to 52 weeks) (table 7). This involvement may have related to more than one type of organised sport or physical activity.

In terms of hours spent involved in organised sport and physical activity, almost half (47.9%) of involvements were for less than 3 hours per week on average over those weeks when participation took place. A further 44.9% of involvements were for an average of 3 hours to less than 10 hours per week (table 8).

Persons involved in non-playing roles were involved for fewer weeks in the year and spent fewer hours per week involved in these roles compared with those who were involved as players or participants. Of the 2.1 million non-playing involvements, 41.1% were for 1 to 13 weeks (table 7) and 62.0% were for less than 3 hours a week (table 8). In contrast, of the 3.5 million player involvements, 23.9% participated for 1 to 13 weeks and 39.4% participated for less than 3 hours a week.

There was some variation in the amount of time involved across the non-playing roles. For example, 37.2% of committee members or administrators were involved for 40 to 52 weeks of the year, whereas 14.2% of referees or umpires and 12.3% of scorers or timekeepers were involved for this length of time (table 7).

COMPARISON OF 1993, 1997 AND 2001 DATA

In 1993 and 1997, similar surveys were conducted by the ABS. Due to some differences in the questions asked and survey methodologies, caution should be exercised when making comparisons between the surveys. Comparisons have only been made for persons in non-playing roles. For information about the differences between the surveys, see paragraphs 16 to 26 in the Explanatory Notes.

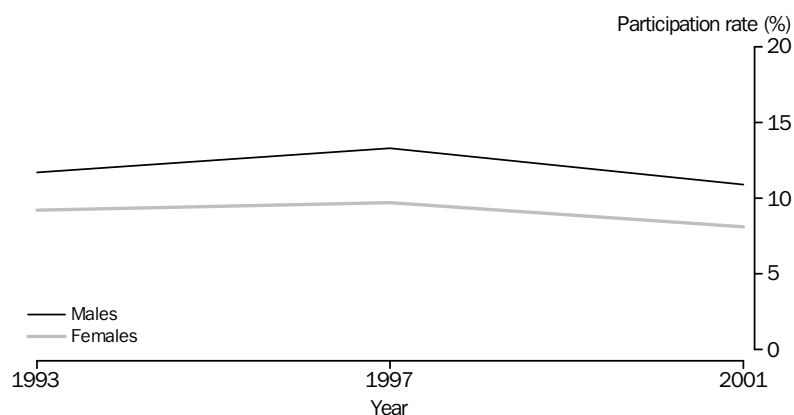
In the 12 months to March 1993 there were an estimated 10.4% of all persons aged 15 years and over (1.4 million persons) who were involved in sport in a non-playing capacity. The non-player participation rate had increased to 11.5% (1.7 million persons) in 1997 and had declined to 9.5% (1.4 million persons) in 2001 (table 11).

The increase in non-player participation from 1993 to 1997 was statistically significant for males (from 11.7% to 13.3%). The decline in participation from 1997 to 2001 was significant for both males (from 13.3% to 10.9%) and females (from 9.7% to 8.1%) (table 11).

SUMMARY OF FINDINGS *continued*

COMPARISON OF 1993,
1997 AND 2001 DATA
continued

PARTICIPATION IN NON-PLAYING ROLES—1993, 1997 AND 2001



A comparison of participation rates across 1993, 1997 and 2001 can be made for the three non-playing roles of: coach, instructor or teacher; referee or umpire; and scorer or timekeeper (table 12). Between 1993 and 1997, there was no significant change in participation rates for the role of referee or umpire, while there had been an increase for the roles of coach, instructor or teacher (from 3.9% to 4.4%) and committee member or administrator (from 4.6% to 5.1%). There was a significant decrease in participation rates for each of these roles from 1997 to 2001 (from 4.4% to 3.7% for the coach, instructor or teacher role; from 3.2% to 2.3% for referees or umpires; and from 5.1% to 4.0% for committee members or administrators).

CHARACTERISTICS OF PERSONS INVOLVED, By Payment Status

Characteristics	SOME PAID INVOLVEMENT(a)		UNPAID INVOLVEMENT ONLY		TOTAL PERSONS INVOLVED	
	Participation rate		Participation rate		Participation rate	
	Number	%	Number	%	Number	%
	'000	%	'000	%	'000	%
Sex						
Males	162.2	2.2	2 139.0	28.9	2 301.2	31.1
Females	101.8	1.3	1 656.2	21.8	1 758.0	23.2
Age group (years)						
15–24	98.2	3.7	979.7	37.2	1 077.9	40.9
25–34	65.7	2.3	784.2	27.4	849.9	29.7
35–44	46.6	1.6	782.9	26.9	829.5	28.5
45–54	34.9	1.3	568.4	21.8	603.3	23.1
55–64	*13.0	*0.7	318.2	18.0	331.2	18.7
65 and over	*5.6	*0.3	361.6	16.5	367.2	16.8
Labour force status						
Employed full time	144.0	2.2	1 930.5	29.5	2 074.5	31.7
Employed part time	83.5	3.3	759.8	29.7	843.3	33.0
Total employed	227.5	2.5	2 690.3	29.5	2 917.8	32.0
Unemployed	*9.0	*1.4	137.3	21.2	146.3	22.5
Not in the labour force	27.5	0.5	967.6	18.5	995.1	19.0
Region						
Capital cities	146.6	1.6	2 206.2	23.4	2 352.9	25.0
Rest of State	117.3	2.1	1 588.9	28.6	1 706.3	30.7
Birthplace						
Australia	230.3	2.1	3 100.5	28.8	3 330.9	30.9
Overseas						
Main English speaking countries	22.9	1.4	405.9	24.6	428.8	26.0
Other countries	*10.7	*0.4	288.7	11.3	299.4	11.8
Total overseas	33.6	0.8	694.6	16.6	728.3	17.4
Total	264.0	1.8	3 795.2	25.3	4 059.1	27.1

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

(a) Includes those who were paid for all or some of their involvement. Payment includes payment in dollars and/or goods and services.

PERSONS, By Involvement and Payment Status—State and Territory

<i>State and Territory</i>	<i>Some paid involvement</i>	<i>Unpaid involvement only</i>	<i>Total persons involved</i>	<i>Persons with no involvement</i>	<i>Total persons</i>	<i>Participation rate</i>
	'000	'000	'000	'000	'000	%
MALES						
New South Wales	39.9	718.3	758.2	1 745.3	2 503.5	30.3
Victoria	35.5	542.3	577.8	1 281.8	1 859.6	31.1
Queensland	34.9	373.3	408.2	964.5	1 372.7	29.7
South Australia	20.7	180.8	201.4	379.2	580.7	34.7
Western Australia	19.2	214.2	233.4	499.4	732.7	31.8
Tasmania	6.4	56.2	62.6	115.1	177.6	35.2
Northern Territory(a)	**0.8	14.2	15.0	41.7	56.7	26.4
Australian Capital Territory	*4.9	39.7	44.6	70.3	115.0	38.8
Australia	162.2	2 139.0	2 301.2	5 097.3	7 398.5	31.1
FEMALES						
New South Wales	31.9	538.2	570.0	1 994.8	2 564.9	22.2
Victoria	26.8	401.4	428.2	1 492.7	1 920.9	22.3
Queensland	16.7	299.3	316.0	1 081.9	1 398.0	22.6
South Australia	*7.5	138.4	145.9	454.6	600.5	24.3
Western Australia	11.6	191.2	202.8	533.6	736.5	27.5
Tasmania	*3.1	46.1	49.1	136.9	186.0	26.4
Northern Territory(a)	**1.0	13.3	14.3	39.9	54.2	26.4
Australian Capital Territory	*3.1	28.3	31.4	89.3	120.7	26.0
Australia	101.8	1 656.2	1 758.0	5 823.8	7 581.7	23.2
PERSONS						
New South Wales	71.7	1 256.5	1 328.2	3 740.1	5 068.4	26.2
Victoria	62.3	943.7	1 006.0	2 774.5	3 780.5	26.6
Queensland	51.6	672.6	724.2	2 046.5	2 770.7	26.1
South Australia	28.2	319.1	347.4	833.8	1 181.2	29.4
Western Australia	30.8	405.4	436.2	1 033.0	1 469.2	29.7
Tasmania	9.5	102.3	111.7	251.9	363.7	30.7
Northern Territory(a)	*1.8	27.5	29.3	81.6	110.9	26.4
Australian Capital Territory	8.0	68.0	76.1	159.6	235.7	32.3
Australia	264.0	3 795.2	4 059.1	10 921.1	14 980.2	27.1

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

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

(a) Refers to mainly urban areas only.

CHARACTERISTICS OF PERSONS INVOLVED, By Playing Status

<i>Characteristics</i>	<i>Players only (A)</i>	<i>Players with non-playing involvement (B)</i>	<i>Involved in non-playing roles only (C)</i>	<i>All players (A+B)</i>	<i>All non-playing involvement (B+C)</i>	<i>Total persons involved (A+B+C)</i>
MALES ('000)						
Age group (years)						
15-24	497.1	124.4	11.3	621.5	135.7	632.8
25-34	320.1	121.6	41.8	441.6	163.3	483.4
35-44	220.2	112.6	111.6	332.8	224.2	444.5
45-54	182.1	90.0	80.8	272.1	170.9	353.0
55-64	124.2	34.2	28.3	158.4	62.5	186.6
65 and over	151.9	44.2	*4.9	196.1	49.1	201.0
Labour force status						
Employed full time	911.8	357.9	218.0	1 269.7	575.9	1 487.7
Employed part time	180.9	63.8	27.3	244.7	91.1	272.0
<i>Total employed</i>	<i>1 092.7</i>	<i>421.7</i>	<i>245.4</i>	<i>1 514.4</i>	<i>667.1</i>	<i>1 759.8</i>
Unemployed	52.0	24.6	10.7	76.6	35.4	87.4
Not in the labour force	350.8	80.6	22.6	431.4	103.2	454.1
Region						
Capital cities	903.7	270.2	157.9	1 173.9	428.1	1 331.8
Rest of State	591.8	256.8	120.8	848.6	377.6	969.3
Birthplace						
Australia	1 196.7	448.5	220.4	1 645.2	669.0	1 865.6
Overseas						
Main English speaking countries	170.3	53.3	38.2	223.6	91.5	261.8
Other countries	128.5	25.1	20.1	153.6	45.2	173.7
<i>Total overseas</i>	<i>298.8</i>	<i>78.4</i>	<i>58.3</i>	<i>377.3</i>	<i>136.7</i>	<i>435.5</i>
<i>Total</i>	<i>1 495.5</i>	<i>527.0</i>	<i>278.7</i>	<i>2 022.5</i>	<i>805.7</i>	<i>2 301.2</i>

MALE PARTICIPATION RATE (%)

Age group (years)						
15-24	37.2	9.3	0.8	46.5	10.1	47.3
25-34	22.5	8.5	2.9	31.0	11.5	34.0
35-44	15.2	7.8	7.7	23.0	15.5	30.8
45-54	13.9	6.9	6.2	20.8	13.1	27.0
55-64	13.9	3.8	3.2	17.8	7.0	20.9
65 and over	15.3	4.4	*0.5	19.7	4.9	20.2
Labour force status						
Employed full time	20.8	8.2	5.0	28.9	13.1	33.9
Employed part time	26.1	9.2	3.9	35.3	13.1	39.2
<i>Total employed</i>	<i>21.5</i>	<i>8.3</i>	<i>4.8</i>	<i>29.8</i>	<i>13.1</i>	<i>34.6</i>
Unemployed	14.2	6.7	2.9	20.9	9.7	23.9
Not in the labour force	18.0	4.1	1.2	22.1	5.3	23.3
Region						
Capital cities	19.5	5.8	3.4	25.3	9.2	28.7
Rest of State	21.4	9.3	4.4	30.7	13.7	35.1
Birthplace						
Australia	22.6	8.5	4.2	31.1	12.6	35.2
Overseas						
Main English speaking countries	20.0	6.2	4.5	26.2	10.7	30.7
Other countries	10.3	2.0	1.6	12.3	3.6	13.9
<i>Total overseas</i>	<i>14.2</i>	<i>3.7</i>	<i>2.8</i>	<i>17.9</i>	<i>6.5</i>	<i>20.7</i>
<i>Total</i>	<i>20.2</i>	<i>7.1</i>	<i>3.8</i>	<i>27.3</i>	<i>10.9</i>	<i>31.1</i>

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

CHARACTERISTICS OF PERSONS INVOLVED, By Playing Status *continued*

<i>Characteristics</i>	<i>Players only (A)</i>	<i>Players with non-playing involvement (B)</i>	<i>Involved in non-playing roles only (C)</i>	<i>All players (A+B)</i>	<i>All non-playing involvement (B+C)</i>	<i>Total persons involved (A+B+C)</i>
FEMALES ('000)						
Age group (years)						
15-24	340.6	79.9	24.7	420.5	104.6	445.2
25-34	245.1	81.1	40.3	326.2	121.4	366.5
35-44	172.3	92.6	120.1	264.9	212.8	385.1
45-54	141.1	45.1	64.1	186.3	109.2	250.3
55-64	104.6	28.1	11.9	132.7	40.0	144.6
65 and over	139.8	23.6	*2.8	163.4	26.5	166.2
Labour force status						
Employed full time	377.8	115.4	93.6	493.2	209.0	586.7
Employed part time	328.3	139.8	103.1	468.1	242.9	571.2
Total employed	706.1	255.2	196.7	961.3	451.9	1 158.0
Unemployed	34.3	12.8	11.8	47.1	24.6	58.9
Not in the labour force	403.1	82.5	55.5	485.6	138.0	541.1
Region						
Capital cities	688.7	177.4	154.9	866.1	332.3	1 021.0
Rest of State	454.7	173.1	109.0	627.9	282.2	736.9
Birthplace						
Australia	936.6	310.3	218.4	1 246.9	528.7	1 465.2
Overseas						
Main English speaking countries	111.3	27.2	28.5	138.5	55.7	167.0
Other countries	95.6	13.0	17.1	108.7	30.1	125.7
Total overseas	206.9	40.2	45.6	247.1	85.8	292.7
Total	1 143.5	350.5	264.0	1 494.0	614.5	1 758.0

FEMALE PARTICIPATION RATE ('000)

Age group (years)						
15-24	26.2	6.2	1.9	32.4	8.1	34.3
25-34	17.0	5.6	2.8	22.6	8.4	25.4
35-44	11.7	6.3	8.2	18.0	14.5	26.2
45-54	10.8	3.5	4.9	14.3	8.4	19.2
55-64	11.9	3.2	1.4	15.1	4.6	16.5
65 and over	11.7	2.0	*0.2	13.7	2.2	13.9
Labour force status						
Employed full time	17.5	5.3	4.3	22.8	9.7	27.2
Employed part time	17.6	7.5	5.5	25.1	13.0	30.6
Total employed	17.5	6.3	4.9	23.9	11.2	28.8
Unemployed	12.1	4.5	4.2	16.7	8.7	20.9
Not in the labour force	12.3	2.5	1.7	14.8	4.2	16.5
Region						
Capital cities	14.4	3.7	3.2	18.1	6.9	21.3
Rest of State	16.3	6.2	3.9	22.5	10.1	26.5
Birthplace						
Australia	17.1	5.6	4.0	22.7	9.6	26.7
Overseas						
Main English speaking countries	14.0	3.4	3.6	17.4	7.0	21.0
Other countries	7.4	1.0	1.3	8.4	2.3	9.7
Total overseas	9.9	1.9	2.2	11.8	4.1	14.0
Total	15.1	4.6	3.5	19.7	8.1	23.2

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

CHARACTERISTICS OF PERSONS INVOLVED, By Playing Status *continued*

<i>Characteristics</i>	<i>Players only (A)</i>	<i>Players with non-playing involvement (B)</i>	<i>Involved in non-playing roles only (C)</i>	<i>All players (A+B)</i>	<i>All non-playing involvement (B+C)</i>	<i>Total persons involved (A+B+C)</i>
PERSONS ('000)						
Age group (years)						
15–24	837.6	204.3	36.0	1 041.9	240.3	1 077.9
25–34	565.2	202.6	82.1	767.8	284.7	849.9
35–44	392.5	205.2	231.8	597.7	437.0	829.5
45–54	323.2	135.2	144.9	458.4	280.1	603.3
55–64	228.8	62.3	40.1	291.1	102.5	331.2
65 and over	291.6	67.8	*7.7	359.5	75.6	367.2
Labour force status						
Employed full time	1 289.6	473.3	311.6	1 762.9	784.9	2 074.5
Employed part time	509.2	203.6	130.5	712.8	334.1	843.3
<i>Total employed</i>	<i>1 798.8</i>	<i>676.9</i>	<i>442.1</i>	<i>2 475.7</i>	<i>1 119.0</i>	<i>2 917.8</i>
Unemployed	86.3	37.4	22.5	123.8	59.9	146.3
Not in the labour force	753.9	163.1	78.1	917.0	241.2	995.1
Region						
Capital cities	1 592.5	447.5	312.9	2 040.0	760.4	2 352.9
Rest of State	1 046.5	429.9	229.8	1 476.4	659.7	1 706.3
Birthplace						
Australia	2 133.2	758.8	438.8	2 892.1	1 197.6	3 330.9
Overseas						
Main English speaking countries	281.6	80.5	66.8	362.1	147.2	428.8
Other countries	224.1	38.2	37.1	262.3	75.3	299.4
<i>Total overseas</i>	<i>505.7</i>	<i>118.6</i>	<i>103.9</i>	<i>624.4</i>	<i>222.5</i>	<i>728.3</i>
Total	2 639.0	877.5	542.7	3 516.4	1 420.2	4 059.1

PERSON PARTICIPATION RATE (%)

Age group (years)						
15–24	31.8	7.7	1.4	39.5	9.1	40.9
25–34	19.7	7.1	2.9	26.8	9.9	29.7
35–44	13.5	7.0	8.0	20.5	15.0	28.5
45–54	12.4	5.2	5.6	17.6	10.7	23.1
55–64	12.9	3.5	2.3	16.5	5.8	18.7
65 and over	13.3	3.1	*0.4	16.4	3.5	16.8
Labour force status						
Employed full time	19.7	7.2	4.8	26.9	12.0	31.7
Employed part time	19.9	8.0	5.1	27.9	13.1	33.0
<i>Total employed</i>	<i>19.8</i>	<i>7.4</i>	<i>4.9</i>	<i>27.2</i>	<i>12.3</i>	<i>32.0</i>
Unemployed	13.3	5.8	3.5	19.1	9.2	22.5
Not in the labour force	14.4	3.1	1.5	17.5	4.6	19.0
Region						
Capital cities	16.9	4.7	3.3	21.6	8.1	25.0
Rest of State	18.9	7.7	4.1	26.6	11.9	30.7
Birthplace						
Australia	19.8	7.0	4.1	26.8	11.1	30.9
Overseas						
Main English speaking countries	17.1	4.9	4.1	22.0	8.9	26.0
Other countries	8.8	1.5	1.5	10.3	3.0	11.8
<i>Total overseas</i>	<i>12.1</i>	<i>2.8</i>	<i>2.5</i>	<i>14.9</i>	<i>5.3</i>	<i>17.4</i>
Total	17.6	5.9	3.6	23.5	9.5	27.1

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

NUMBER OF ROLES, By Playing Status

	<i>Total persons involved</i>	<i>Participation rate</i>
	'000	%
.....		
MALES		
Playing	2 022.5	27.3
Non-playing roles		
1 role	527.8	7.1
2 roles	184.4	2.5
3 roles	65.2	0.9
4 roles	25.6	0.3
5 roles	*2.8	*—
Total with non-playing roles	805.7	10.9
Total(a)	2 301.2	31.1
.....		
FEMALES		
Playing	1 494.0	19.7
Non-playing roles		
1 role	412.1	5.4
2 roles	131.1	1.7
3 roles	48.1	0.6
4 roles	18.3	0.2
5 roles	*4.9	*0.1
Total with non-playing roles	614.5	8.1
Total(a)	1 758.0	23.2
.....		
PERSONS		
Playing	3 516.4	23.5
Non-playing roles		
1 role	939.9	6.3
2 roles	315.4	2.1
3 roles	113.4	0.8
4 roles	43.9	0.3
5 roles	*7.6	*0.1
Total with non-playing roles	1 420.2	9.5
Total(a)	4 059.1	27.1

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

— nil or rounded to zero (including null cells)

(a) Components may not add to totals as some persons were involved in both playing and non-playing roles.

TYPE OF INVOLVEMENT, By Payment Status—State and Territory

<i>Type of involvement</i>	<i>Some paid involvement</i> '000	<i>Unpaid involvement only</i> '000	<i>Total involvements</i> '000	<i>Participation rate</i> %
NEW SOUTH WALES				
Playing	26.2	1 145.0	1 171.2	23.1
Non-playing roles				
Coach, instructor or teacher	28.8	135.0	163.9	3.2
Referee or umpire	*15.8	71.7	87.5	1.7
Committee member or administrator	**4.2	175.4	179.6	3.5
Scorer or timekeeper	*5.5	115.5	121.0	2.4
Medical support	**1.7	23.0	24.8	0.5
Other involvement	**1.2	19.1	20.3	0.4
Total non-playing involvements	57.1	539.8	596.9	..
Total involvements	83.4	1 684.8	1 768.1	..
VICTORIA				
Playing	18.9	853.6	872.5	23.1
Non-playing roles				
Coach, instructor or teacher	26.2	98.4	124.6	3.3
Referee or umpire	*17.0	52.9	69.9	1.8
Committee member or administrator	*6.0	149.9	155.9	4.1
Scorer or timekeeper	**2.8	106.6	109.5	2.9
Medical support	**1.8	16.1	17.9	0.5
Other involvement	**2.5	25.2	27.7	0.7
Total non-playing involvements	56.4	449.1	505.5	..
Total involvements	75.4	1 302.7	1 378.0	..
QUEENSLAND				
Playing	20.9	609.8	630.7	22.8
Non-playing roles				
Coach, instructor or teacher	20.1	89.6	109.7	4.0
Referee or umpire	14.9	61.4	76.3	2.8
Committee member or administrator	*5.3	99.7	105.0	3.8
Scorer or timekeeper	**2.0	78.9	81.0	2.9
Medical support	*3.7	13.4	17.2	0.6
Other involvement	**0.3	18.0	18.3	0.7
Total non-playing involvements	46.4	361.0	407.4	..
Total involvements	67.4	970.8	1 038.2	..
* estimate has a relative standard error of between 25% and 50% and should be used with caution ** estimate has a relative standard error greater than 50% and is considered too unreliable for general use .. not applicable				

TYPE OF INVOLVEMENT, By Payment Status—State and Territory *continued*

<i>Type of involvement</i>	<i>Some paid involvement</i> '000	<i>Unpaid involvement only</i> '000	<i>Total involvements</i> '000	<i>Participation rate</i> %
SOUTH AUSTRALIA				
Playing	*8.8	277.5	286.3	24.2
Non-playing roles				
Coach, instructor or teacher	*9.2	39.5	48.7	4.1
Referee or umpire	*5.3	25.3	30.6	2.6
Committee member or administrator	*2.9	51.7	54.6	4.6
Scorer or timekeeper	**1.1	49.9	51.0	4.3
Medical support	*3.2	10.6	13.8	1.2
Other involvement	**1.4	6.6	8.0	0.7
<i>Total non-playing involvements</i>	23.1	183.5	206.6	..
<i>Total involvements</i>	31.9	461.0	492.9	..
WESTERN AUSTRALIA				
Playing	*8.0	363.8	371.7	25.3
Non-playing roles				
Coach, instructor or teacher	15.1	58.7	73.7	5.0
Referee or umpire	*10.0	42.5	52.5	3.6
Committee member or administrator	*3.0	63.1	66.2	4.5
Scorer or timekeeper	**2.2	61.1	63.3	4.3
Medical support	**0.4	9.6	10.1	0.7
Other involvement	**0.7	*5.7	*6.4	*0.4
<i>Total non-playing involvements</i>	31.5	240.7	272.1	..
<i>Total involvements</i>	39.4	604.4	643.9	..
TASMANIA				
Playing	*2.8	91.5	94.3	25.9
Non-playing roles				
Coach, instructor or teacher	*2.6	16.2	18.8	5.2
Referee or umpire	*3.4	10.7	14.1	3.9
Committee member or administrator	**1.2	18.3	19.5	5.4
Scorer or timekeeper	**0.3	16.2	16.5	4.5
Medical support	**0.6	3.4	4.0	1.1
Other involvement	**0.4	3.3	3.7	1.0
<i>Total non-playing involvements</i>	8.4	68.0	76.5	..
<i>Total involvements</i>	11.2	159.5	170.7	..
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TYPE OF INVOLVEMENT, By Payment Status—State and Territory *continued*

<i>Type of involvement</i>	<i>Some paid involvement</i> '000	<i>Unpaid involvement only</i> '000	<i>Total involvements</i> '000	<i>Participation rate</i> %
.....				
NORTHERN TERRITORY (a)				
Playing	**0.3	25.2	25.5	23.0
Non-playing roles				
Coach, instructor or teacher	**0.7	*2.9	*3.6	*3.3
Referee or umpire	**0.8	*1.0	*1.8	*1.6
Committee member or administrator	**—	*4.3	*4.3	*3.9
Scorer or timekeeper	**—	*2.2	*2.2	*2.0
Medical support	**—	**0.1	**0.1	**0.1
Other involvement	**—	**0.4	**0.4	**0.4
Total non-playing involvements	**1.5	10.9	12.4	..
Total involvements	*1.8	36.1	37.9	..
.....				
AUSTRALIAN CAPITAL TERRITORY				
Playing	*2.2	62.0	64.2	27.2
Non-playing roles				
Coach, instructor or teacher	*3.1	12.3	15.4	6.6
Referee or umpire	*2.4	5.0	7.3	3.1
Committee member or administrator	*1.7	8.4	10.1	4.3
Scorer or timekeeper	**0.6	8.7	9.3	3.9
Medical support	**0.4	*2.0	*2.4	*1.0
Other involvement	**0.8	*1.6	*2.3	*1.0
Total non-playing involvements	9.0	37.9	46.9	..
Total involvements	11.2	99.8	111.1	..
.....				
AUSTRALIA				
Playing	88.1	3 428.3	3 516.4	23.5
Non-playing roles				
Coach, instructor or teacher	105.8	452.6	558.4	3.7
Referee or umpire	69.5	270.5	340.0	2.3
Committee member or administrator	24.3	570.7	595.0	4.0
Scorer or timekeeper	*14.6	439.1	453.7	3.0
Medical support	*11.9	78.2	90.1	0.6
Other involvement	*7.3	79.8	87.1	0.6
Total non-playing involvements	233.5	1 890.9	2 124.3	..
Total involvements	321.6	5 319.2	5 640.8	..

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

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

— nil or rounded to zero (including null cells)

.. not applicable

(a) Refers to mainly urban areas only.

TYPE OF PAID INVOLVEMENT, By Payment Amount

<i>Type of involvement</i>	<i>Payment in goods and services only</i> '000	<i>Less than \$5,000(a)</i> '000	<i>\$5,000 to \$19,999(a)</i> '000	<i>\$20,000 or more(a)</i> '000	<i>Total paid involvements(b)</i> '000
Playing	30.0	44.9	*7.3	**1.9	88.1
Non-playing roles					
Coach, instructor or teacher	*9.1	62.3	*12.4	*8.3	105.8
Referee or umpire	**3.2	57.4	**1.5	**2.0	69.5
Committee member or administrator	*5.0	*13.4	**0.8	**1.9	24.3
Scorer or timekeeper	**0.9	*8.1	**0.9	**—	*14.6
Medical support	**0.4	*8.3	**0.8	**0.4	*11.9
Other involvement	**3.2	*3.7	**0.3	**—	*7.3
<i>Total non-playing involvements</i>	21.7	153.2	16.7	*12.7	233.5
Total involvements	51.8	198.2	24.0	*14.6	321.6

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** 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) Goods and services payments may also have been received.

(b) Includes involvements where the person did not state the amount of payment received or expected.

TYPE OF INVOLVEMENT, By Number of Weeks

	1 to 13 weeks	14 to 26 weeks	27 to 39 weeks	40 to 52 weeks	Total involvements	Participation rate
Type of involvement	'000	'000	'000	'000	'000	%
MALES						
Playing	472.7	540.9	229.1	779.7	2 022.5	27.3
Non-playing roles						
Coach, instructor or teacher	118.5	116.5	39.1	71.9	346.0	4.7
Referee or umpire	107.6	55.7	16.8	25.2	205.2	2.8
Committee member or administrator	103.4	75.1	30.4	138.8	347.7	4.7
Scorer or timekeeper	124.4	61.4	10.2	28.3	224.3	3.0
Medical support	14.2	12.9	*5.7	*9.4	42.1	0.6
Other involvement	22.9	14.3	**1.2	*4.4	42.8	0.6
Total non-playing involvements	491.0	335.8	103.4	278.1	1 208.2	..
Total involvements	963.7	876.7	332.5	1 057.8	3 230.7	..
FEMALES						
Playing	368.4	340.6	187.8	597.1	1 494.0	19.7
Non-playing roles						
Coach, instructor or teacher	71.5	64.0	18.8	58.1	212.4	2.8
Referee or umpire	61.4	38.6	11.7	23.0	134.8	1.8
Committee member or administrator	74.9	61.6	28.3	82.5	247.3	3.3
Scorer or timekeeper	133.2	54.8	14.1	27.3	229.4	3.0
Medical support	17.4	13.2	*4.8	12.6	48.0	0.6
Other involvement	24.2	*9.3	*4.6	*6.2	44.3	0.6
Total non-playing involvements	382.6	241.6	82.3	209.7	916.1	..
Total involvements	751.0	582.2	270.1	806.8	2 410.1	..
PERSONS						
Playing	841.2	881.6	416.9	1 376.8	3 516.4	23.5
Non-playing roles						
Coach, instructor or teacher	190.0	180.6	57.9	130.0	558.4	3.7
Referee or umpire	168.9	94.3	28.5	48.2	340.0	2.3
Committee member or administrator	178.3	136.7	58.7	221.3	595.0	4.0
Scorer or timekeeper	257.7	116.1	24.3	55.6	453.7	3.0
Medical support	31.6	26.1	10.5	22.0	90.1	0.6
Other involvement	47.1	23.6	*5.8	10.6	87.1	0.6
Total non-playing involvements	873.6	577.3	185.7	487.8	2 124.3	..
Total involvements	1 714.7	1 458.9	602.6	1 864.6	5 640.8	..

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

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

.. not applicable

TYPE OF INVOLVEMENT, By Number of Weeks *continued*

	1 to 13 weeks	14 to 26 weeks	27 to 39 weeks	40 to 52 weeks	Total involvements
Type of involvement	%	%	%	%	%
MALES					
Playing	23.4	26.7	11.3	38.6	100.0
Non-playing roles					
Coach, instructor or teacher	34.3	33.7	11.3	20.8	100.0
Referee or umpire	52.4	27.1	8.2	12.3	100.0
Committee member or administrator	29.7	21.6	8.8	39.9	100.0
Scorer or timekeeper	55.5	27.4	4.6	12.6	100.0
Medical support	33.7	30.5	*13.5	*22.3	100.0
Other involvement	53.4	33.4	**2.8	*10.3	100.0
Total non-playing involvements	40.6	27.8	8.6	23.0	100.0
Total involvements	29.8	27.1	10.3	32.7	100.0
FEMALES					
Playing	24.7	22.8	12.6	40.0	100.0
Non-playing roles					
Coach, instructor or teacher	33.6	30.1	8.9	27.4	100.0
Referee or umpire	45.5	28.7	8.7	17.1	100.0
Committee member or administrator	30.3	24.9	11.4	33.4	100.0
Scorer or timekeeper	58.1	23.9	6.1	11.9	100.0
Medical support	36.2	27.5	*10.0	26.2	100.0
Other involvement	54.8	*20.9	*10.4	*13.9	100.0
Total non-playing involvements	41.8	26.4	9.0	22.9	100.0
Total involvements	31.2	24.2	11.2	33.5	100.0
PERSONS					
Playing	23.9	25.1	11.9	39.2	100.0
Non-playing roles					
Coach, instructor or teacher	34.0	32.3	10.4	23.3	100.0
Referee or umpire	49.7	27.7	8.4	14.2	100.0
Committee member or administrator	30.0	23.0	9.9	37.2	100.0
Scorer or timekeeper	56.8	25.6	5.4	12.3	100.0
Medical support	35.0	28.9	11.6	24.4	100.0
Other involvement	54.1	27.1	*6.7	12.2	100.0
Total non-playing involvements	41.1	27.2	8.7	23.0	100.0
Total involvements	30.4	25.9	10.7	33.1	100.0

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

TYPE OF INVOLVEMENT, By Number of Hours per Week(a)

	<i>Less than 3 hours</i>	<i>3 to 9 hours</i>	<i>10 to 19 hours</i>	<i>20 hours or more</i>	<i>Total involvements</i>	<i>Participation rate</i>
<i>Type of involvement</i>	'000	'000	'000	'000	'000	%
MALES						
Playing	635.9	1 195.6	161.2	29.8	2 022.5	27.3
Non-playing roles						
Coach, instructor or teacher	141.8	171.6	24.5	*8.1	346.0	4.7
Referee or umpire	144.6	52.3	*7.4	**0.9	205.2	2.8
Committee member or administrator	195.7	118.3	27.3	*6.3	347.7	4.7
Scorer or timekeeper	163.6	52.6	*8.1	**—	224.3	3.0
Medical support	24.5	13.4	*3.0	**1.3	42.1	0.6
Other involvement	22.6	16.5	*2.7	**1.0	42.8	0.6
<i>Total non-playing involvements</i>	692.9	424.6	73.1	17.6	1 208.2	..
<i>Total involvements</i>	1 328.8	1 620.2	234.3	47.4	3 230.7	..
FEMALES						
Playing	749.8	670.1	65.8	*8.3	1 494.0	19.7
Non-playing roles						
Coach, instructor or teacher	121.4	75.7	*8.9	*6.4	212.4	2.8
Referee or umpire	107.8	22.3	*4.6	**—	134.8	1.8
Committee member or administrator	158.7	73.4	10.0	*5.2	247.3	3.3
Scorer or timekeeper	186.0	38.3	*4.8	**0.3	229.4	3.0
Medical support	31.1	12.3	*2.8	**1.8	48.0	0.6
Other involvement	18.6	17.8	*5.1	*2.7	44.3	0.6
<i>Total non-playing involvements</i>	623.5	239.8	36.3	16.4	916.1	..
<i>Total involvements</i>	1 373.3	909.9	102.1	24.7	2 410.1	..
PERSONS						
Playing	1 385.7	1 865.7	227.0	38.1	3 516.4	23.5
Non-playing roles						
Coach, instructor or teacher	263.2	247.3	33.4	14.5	558.4	3.7
Referee or umpire	252.4	74.6	12.1	**0.9	340.0	2.3
Committee member or administrator	354.4	191.7	37.4	11.5	595.0	4.0
Scorer or timekeeper	349.6	90.9	12.9	**0.3	453.7	3.0
Medical support	55.6	25.7	*5.8	*3.1	90.1	0.6
Other involvement	41.2	34.3	*7.9	*3.7	87.1	0.6
<i>Total non-playing involvements</i>	1 316.4	664.5	109.4	34.0	2 124.3	..
Total involvements	2 702.1	2 530.2	336.4	72.1	5 640.8	..

* estimate has a relative standard error of between 25% and 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)

.. not applicable

(a) During the weeks when involved.

TYPE OF INVOLVEMENT, By Number of Hours per Week(a) *continued*

	<i>Less than 3 hours</i>	<i>3 to 9 hours</i>	<i>10 to 19 hours</i>	<i>20 hours or more</i>	<i>Total involvements</i>
<i>Type of involvement</i>	%	%	%	%	%
MALES					
Playing	31.4	59.1	8.0	1.5	100.0
Non-playing roles					
Coach, instructor or teacher	41.0	49.6	7.1	*2.3	100.0
Referee or umpire	70.5	25.5	*3.6	**0.4	100.0
Committee member or administrator	56.3	34.0	7.9	*1.8	100.0
Scorer or timekeeper	72.9	23.4	*3.6	**—	100.0
Medical support	58.2	31.8	*7.0	**3.1	100.0
Other involvement	52.8	38.4	*6.4	**2.4	100.0
<i>Total non-playing involvements</i>	57.3	35.1	6.0	1.5	100.0
<i>Total involvements</i>	41.1	50.2	7.3	1.5	100.0
FEMALES					
Playing	50.2	44.9	4.4	*0.6	100.0
Non-playing roles					
Coach, instructor or teacher	57.1	35.6	*4.2	*3.0	100.0
Referee or umpire	80.0	16.6	*3.4	**—	100.0
Committee member or administrator	64.2	29.7	4.1	*2.1	100.0
Scorer or timekeeper	81.1	16.7	*2.1	**0.1	100.0
Medical support	64.7	25.6	*5.9	**3.7	100.0
Other involvement	42.0	40.3	*11.6	*6.2	100.0
<i>Total non-playing involvements</i>	68.1	26.2	4.0	1.8	100.0
<i>Total involvements</i>	57.0	37.8	4.2	1.0	100.0
PERSONS					
Playing	39.4	53.1	6.5	1.1	100.0
Non-playing roles					
Coach, instructor or teacher	47.1	44.3	6.0	2.6	100.0
Referee or umpire	74.2	21.9	3.5	**0.3	100.0
Committee member or administrator	59.6	32.2	6.3	1.9	100.0
Scorer or timekeeper	77.1	20.0	2.8	**0.1	100.0
Medical support	61.7	28.5	*6.4	*3.4	100.0
Other involvement	47.3	39.4	*9.0	*4.3	100.0
<i>Total non-playing involvements</i>	62.0	31.3	5.2	1.6	100.0
Total involvements	47.9	44.9	6.0	1.3	100.0

* estimate has a relative standard error of between 25% and 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) During the weeks when involved.

TYPE OF NON-PLAYING INVOLVEMENT, By Qualifications(a)

	QUALIFICATIONS		TOTAL PERSONS INVOLVED
<i>Type of involvement</i>	'000	%	'000
.....			
MALES			
Coach, instructor or teacher	166.4	48.1	346.0
Referee or umpire	74.7	36.4	205.2
Committee member or administrator	40.4	11.6	347.7
Scorer or timekeeper	16.6	7.4	224.3
Medical support	36.4	86.3	42.1
Other involvement	*6.1	*14.2	42.8
Total(b)	266.9	33.1	805.7
.....			
FEMALES			
Coach, instructor or teacher	105.5	49.7	212.4
Referee or umpire	73.7	54.7	134.8
Committee member or administrator	23.4	9.5	247.3
Scorer or timekeeper	15.8	6.9	229.4
Medical support	40.7	84.7	48.0
Other involvement	*6.7	*15.2	44.3
Total(b)	210.6	34.3	614.5
.....			
PERSONS			
Coach, instructor or teacher	272.0	48.7	558.4
Referee or umpire	148.4	43.7	340.0
Committee member or administrator	63.8	10.7	595.0
Scorer or timekeeper	32.4	7.1	453.7
Medical support	77.1	85.5	90.1
Other involvement	12.8	14.7	87.1
Total(b)	477.5	33.6	1 420.2

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

(a) This includes completion of a course or qualification that is relevant to the role being undertaken.

(b) Components may not add to totals as some persons may have had qualifications in more than one role.

TYPE OF NON-PLAYING INVOLVEMENT, In School or Junior Sport(a)

	SCHOOL OR JUNIOR SPORT		TOTAL PERSONS INVOLVED
<i>Type of involvement</i>	'000	%	'000
.....			
MALES			
Coach, instructor or teacher	238.6	69.0	346.0
Referee or umpire	112.6	54.9	205.2
Committee member or administrator	134.0	38.5	347.7
Scorer or timekeeper	109.1	48.6	224.3
Medical support	23.0	54.5	42.1
Other involvement	21.2	49.4	42.8
Total(b)	416.3	51.7	805.7
.....			
FEMALES			
Coach, instructor or teacher	141.7	66.7	212.4
Referee or umpire	76.8	57.0	134.8
Committee member or administrator	109.0	44.1	247.3
Scorer or timekeeper	133.0	58.0	229.4
Medical support	27.9	58.0	48.0
Other involvement	24.8	56.1	44.3
Total(b)	344.3	56.0	614.5
.....			
PERSONS			
Coach, instructor or teacher	380.4	68.1	558.4
Referee or umpire	189.4	55.7	340.0
Committee member or administrator	243.0	40.8	595.0
Scorer or timekeeper	242.0	53.3	453.7
Medical support	50.8	56.4	90.1
Other involvement	46.0	52.8	87.1
Total(b)	760.6	53.6	1 420.2

(a) Persons may also have had involvement not related to junior or school sport.

(b) Components may not add to totals as some persons may have had junior or school involvement in more than one role.

CHARACTERISTICS OF NON-PLAYERS—1993, 1997 and 2001(a)

<i>Characteristics</i>	NUMBER			PARTICIPATION RATE		
	1993	1997	2001	1993	1997	2001
	'000	'000	'000	%	%	%
MALES						
State and Territory						
New South Wales	225.0	281.2	224.8	9.8	11.7	9.0
Victoria	195.2	249.6	197.8	11.4	14.1	10.6
Queensland	140.0	164.0	156.2	11.9	12.6	11.4
South Australia	81.0	97.7	82.6	14.2	16.9	14.2
Western Australia	95.6	96.5	95.2	14.7	14.0	13.0
Tasmania	25.5	29.4	28.7	14.6	16.2	16.2
Northern Territory(b)	9.7	9.4	*4.2	16.7	18.2	*7.3
Australian Capital Territory	17.4	19.6	16.2	15.4	17.0	14.1
Age group (years)						
15–24	139.7	197.9	135.7	10.1	14.7	10.1
25–34	177.4	184.4	163.3	12.6	13.1	11.5
35–44	242.4	269.0	224.2	18.2	19.4	15.5
45–54	139.6	171.2	170.9	13.3	14.3	13.1
55–64	56.4	65.4	62.5	7.7	8.3	7.0
65 and over	33.9	59.6	49.1	4.1	6.1	4.9
Labour force status						
Employed full time	592.2	679.4	575.9	14.8	16.0	13.1
Employed part time	57.2	91.5	91.1	12.5	15.9	13.1
Total employed	649.4	770.9	667.1	14.5	16.0	13.1
Unemployed	47.7	46.7	35.4	8.0	9.8	9.7
Not in the labour force	92.2	130.0	103.2	5.5	7.2	5.3
Region						
Capital cities	429.8	516.2	428.1	10.0	11.8	9.2
Rest of State	359.6	431.3	377.6	14.7	15.8	13.7
Birthplace						
Australia	659.4	775.6	669.0	13.5	15.1	12.6
Overseas						
Main English speaking countries	81.2	98.8	91.5	10.7	12.7	10.7
Other countries	48.8	73.2	45.2	4.4	6.2	3.6
Total overseas	130.0	172.0	136.7	7.0	8.8	6.5
Total	789.4	947.6	805.7	11.7	13.3	10.9

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

(a) See paragraphs 16 to 26 of the Explanatory Notes for information on differences between the surveys.

(b) Refers to mainly urban areas only.

	NUMBER			PARTICIPATION RATE		
	1993	1997	2001	1993	1997	2001
<i>Characteristics</i>	'000	'000	'000	%	%	%
FEMALES						
State and Territory						
New South Wales	169.1	201.6	182.8	7.3	8.1	7.1
Victoria	164.0	177.7	155.6	9.3	9.6	8.1
Queensland	111.7	123.1	103.9	9.4	9.3	7.4
South Australia	67.2	81.2	56.0	11.5	13.6	9.3
Western Australia	76.0	81.8	76.5	11.7	11.8	10.4
Tasmania	19.9	20.7	20.4	11.1	11.0	11.0
Northern Territory(b)	7.0	6.7	5.1	12.7	13.3	9.5
Australian Capital Territory	15.4	15.5	14.2	13.4	13.0	11.7
Age group (years)						
15–24	132.6	168.0	104.6	9.9	12.9	8.1
25–34	158.8	131.6	121.4	11.3	9.2	8.4
35–44	207.8	221.9	212.8	15.6	15.7	14.5
45–54	80.0	109.7	109.2	8.0	9.4	8.4
55–64	25.9	41.6	40.0	3.6	5.4	4.6
65 and over	25.3	35.5	26.5	2.4	2.8	2.2
Labour force status						
Employed full time	215.5	241.3	209.0	11.3	11.8	9.7
Employed part time	208.6	241.2	242.9	15.2	15.0	13.0
Total employed	424.1	482.4	451.9	12.9	13.2	11.2
Unemployed	39.6	32.5	24.6	10.0	9.1	8.7
Not in the labour force	166.7	193.4	138.0	5.2	5.8	4.2
Region						
Capital cities	343.1	359.5	332.3	7.7	7.8	6.9
Rest of State	287.2	348.8	282.2	11.9	12.7	10.1
Birthplace						
Australia	549.6	617.3	528.7	10.9	11.5	9.6
Overseas						
Main English speaking countries	55.9	66.0	55.7	7.5	8.6	7.0
Other countries	24.9	25.0	30.1	2.3	2.1	2.3
Total overseas	80.8	91.0	85.8	4.4	4.7	4.1
Total	630.4	708.3	614.5	9.2	9.7	8.1

(a) See paragraphs 16 to 26 of the Explanatory Notes for information on differences between the surveys.

(b) Refers to mainly urban areas only.

Characteristics	NUMBER			PARTICIPATION RATE		
	1993	1997	2001	1993	1997	2001
	'000	'000	'000	%	%	%
PERSONS						
State and Territory						
New South Wales	394.1	482.8	407.6	8.5	9.8	8.0
Victoria	359.2	427.3	353.4	10.3	11.8	9.3
Queensland	251.7	287.1	260.1	10.7	10.9	9.4
South Australia	148.3	178.9	138.7	12.9	15.2	11.7
Western Australia	171.5	178.4	171.6	13.2	12.9	11.7
Tasmania	45.4	50.1	49.1	12.8	13.6	13.5
Northern Territory(b)	16.7	16.2	9.3	14.8	15.7	8.4
Australian Capital Territory	32.8	35.2	30.4	14.4	15.0	12.9
Age group (years)						
15–24	272.2	365.9	240.3	10.0	13.8	9.1
25–34	336.2	316.0	284.7	11.9	11.1	9.9
35–44	450.1	490.9	437.0	16.9	17.5	15.0
45–54	219.7	280.9	280.1	10.7	11.9	10.7
55–64	82.3	107.0	102.5	5.6	6.9	5.8
65 and over	59.2	95.2	75.6	3.2	4.3	3.5
Labour force status						
Employed full time	807.8	920.7	784.9	13.6	14.6	12.0
Employed part time	265.8	332.6	334.1	14.5	15.2	13.1
Total employed	1 073.5	1 253.4	1 119.0	13.8	14.8	12.3
Unemployed	87.3	79.2	59.9	8.8	9.5	9.2
Not in the labour force	258.9	323.4	241.2	5.3	6.3	4.6
Region						
Capital cities	772.9	875.7	760.4	8.8	9.8	8.1
Rest of State	646.9	780.2	659.7	13.3	14.3	11.9
Birthplace						
Australia	1 208.9	1 392.9	1 197.6	12.2	13.2	11.1
Overseas						
Main English speaking countries	137.1	164.8	147.2	9.1	10.7	8.9
Other countries	73.7	98.1	75.3	3.4	4.2	3.0
Total overseas	210.8	263.0	222.5	5.7	6.7	5.3
Total	1 419.7	1 655.9	1 420.2	10.4	11.5	9.5

(a) See paragraphs 16 to 26 of the Explanatory Notes for information on differences between the surveys.

(b) Refers to mainly urban areas only.

TYPE OF NON-PLAYING INVOLVEMENT—1993, 1997 and 2001(a)

	NUMBER			PARTICIPATION RATE		
	1993	1997	2001	1993	1997	2001
	'000	'000	'000	'000	'000	'000
MALES						
Coach, instructor or teacher	312.3	391.8	346.0	4.6	5.5	4.7
Referee or umpire	242.5	262.0	205.2	3.6	3.7	2.8
Committee member or administrator	360.2	418.0	347.7	5.3	5.9	4.7
Scorer or timekeeper	na	222.4	224.3	na	3.1	3.0
Medical support	na	13.4	42.1	na	0.2	0.6
Other involvement	na	53.4	42.8	na	0.8	0.6
Total(b)	(c)789.4	947.6	805.7	(c)11.7	13.3	10.9
FEMALES						
Coach, instructor or teacher	219.2	236.5	212.4	3.2	3.2	2.8
Referee or umpire	183.4	194.9	134.8	2.7	2.7	1.8
Committee member or administrator	270.7	311.3	247.3	3.9	4.2	3.3
Scorer or timekeeper	na	239.5	229.4	na	3.3	3.0
Medical support	na	13.1	48.0	na	0.2	0.6
Other involvement	na	49.3	44.3	na	0.7	0.6
Total(b)	(c)630.4	708.3	614.5	(c)9.2	9.7	8.1
PERSONS						
Coach, instructor or teacher	531.5	628.3	558.4	3.9	4.4	3.7
Referee or umpire	425.8	456.8	340.0	3.1	3.2	2.3
Committee member or administrator	630.9	729.4	595.0	4.6	5.1	4.0
Scorer or timekeeper	na	462.0	453.7	na	3.2	3.0
Medical support	na	26.5	90.1	na	0.2	0.6
Other involvement	na	102.7	87.1	na	0.7	0.6
Total(b)	(c)1 419.7	1 655.9	1 420.2	(c)10.4	11.5	9.5

na not available

(a) See paragraphs 16 to 26 of the Explanatory Notes for information on differences between the surveys.

(b) Components may not add to totals as some persons may have had involvement in more than one role.

(c) Includes persons involved in the roles of scorer or timekeeper; medical support; and other involvement.

EXPLANATORY NOTES

INTRODUCTION

1 This publication presents results from the Survey of Involvement in Organised Sport and Physical Activity, which was conducted as part of the April 2001 Monthly Population Survey. It contains estimates of the number of persons who were involved in either playing or non-playing roles. This excludes persons who were involved only as a spectator or only as a club member. It also provides details of the characteristics of persons involved, the nature of involvement (whether paid or unpaid) and, for persons involved in non-playing roles, whether they were involved in school or junior sport and whether they had completed a course or held qualifications for the role they performed.

Geographical areas

2 The survey was conducted in both rural and urban areas in all States and Territories of Australia.

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

Dwellings

4 The survey covered only private dwellings (e.g. houses, flats and home units). Excluded were non-private dwellings such as hotels, motels, hostels, hospitals, boarding schools, educational and religious institutions, reformatories and caravan parks.

Persons

5 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; and
- members of non-Australian defence forces (and their dependants) stationed in Australia.

COVERAGE

6 In the Monthly Population Survey, coverage rules were applied which aimed to ensure that each person was associated with only one dwelling, and hence had only one chance of selection. See *Labour Force, Australia* (Cat. no. 6203.0) for more details.

METHODOLOGY

7 The survey was conducted using a sub-sample of the Monthly Population Survey sample. The Monthly Population Survey, which is described in *Labour Force, Australia* (Cat. no. 6203.0), comprises the monthly labour force topic and supplementary topics. The household sample for the Monthly Population Survey was selected using multi-stage sampling techniques and included approximately 30,000 private dwellings. Information relating to involvement in organised sport and physical activity was collected from seven-eighths of the private dwellings selected for the Monthly Population Survey. Information was obtained from any responsible adult in the household who was asked to respond on behalf of one randomly selected person aged 15 years and over in the household. About 80% of the interviews were conducted by telephone with the remainder being face-to-face interviews.

RELIABILITY OF THE ESTIMATES

8 The estimates provided in this publication are subject to two types of error: sampling error and non-sampling error.

Sampling error

9 Sampling error occurs because a sample rather than the entire population is surveyed. One measure of the likely difference resulting from not including all

EXPLANATORY NOTES *continued*

Sampling error continued

dwelling in the survey is given by the standard error (SE). Further information together with details of the sampling error in respect of different levels of estimate is given in the Technical Note.

Non-sampling error

10 Non-sampling error arises from inaccuracies in collecting, recording and processing data. These errors arise regardless of whether a collection is a survey or a census. They include:

- inability to obtain comprehensive data from all persons included in the sample (i.e. non-response). These errors arise because differences may exist between the characteristics of respondents and non-respondents;
- errors in reporting on the part of both the respondent and the interviewer. These errors may arise due to the inappropriate wording of questions, misunderstanding of what data are required, inability or unwillingness to provide accurate information and answers that are based on memory; and
- errors arising during the processing of the survey data. These processing errors may arise through mistakes in coding and data recording.

11 Every effort is made to minimise non-sampling errors. In particular, the effects of reporting and processing errors described above were minimised by careful questionnaire design, intensive training and supervision of interviewers, and extensive editing and quality control checking at all stages of data processing.

DATA INTERPRETATION

12 Each person could have been involved in one or more of the following six categories of non-playing roles: coach, instructor or teacher; committee member or administrator; referee or umpire; scorer or timekeeper; medical support; and other role. Participation in each category was recorded only once, even if a person was involved in that role for a number of different sports or activities during the 12-month reference period. For example, a person on the committees of a tennis club and a netball club would be recorded only once as being involved as a committee member or administrator. Therefore, figures shown for each non-playing role represent counts of persons involved in that type of role across all organised sport and physical activities.

13 Each person could have been involved as a player or participant, as well as undertaking one or more non-playing roles. For example, a person who coached and played sport would have been counted once in the 'coach, instructor or teacher' category and once as a 'player'.

14 Payment status was classified into two categories, namely, some paid involvement and unpaid involvement only. Where persons were involved in more than one of type of role (e.g. player, coach, etc.) the payment status for all involvement (as presented in tables 1 and 2) and for all non-playing involvement (as presented in tables 5 and 6) was determined by considering all of the involvement combined. For example, if a person was unpaid for their involvement as a player but received some payment in dollars or goods and services for their involvement as a coach, they would be classified as having 'some paid involvement' (as presented in tables 1 and 2). Another example would be if a person received some payment for their involvement as a coach but no payment for their involvement as a scorer or timekeeper, they would be classified as having 'some paid involvement' for all their non-playing involvements (tables 5 and 6).

15 The reference period for this survey (12 months prior to April 2001) includes the Sydney Olympic and Paralympic Games which were held in September 2000. Persons whose only involvement in sport and physical activity was as a spectator for this event would not be included among those recorded as being involved. Many of those who were involved as players, participants or

EXPLANATORY NOTES *continued*

DATA INTERPRETATION

continued

volunteers (e.g. scorers, timekeepers, coaches, etc.) at the Olympics and Paralympics would have been involved in those roles at other times in the year as well, and their involvement would be included in this survey regardless of whether the Olympics or Paralympics had been held. However, it is possible that some of those who volunteered at the Olympics or Paralympics did not usually participate in such roles at other times, and they may have included their volunteer involvement when responding to the questions about non-playing roles. Thus the inclusion of the Olympic and Paralympic Games within the reference period may have had some impact on the observed results regarding non-playing roles; however, it is expected that the overall impact on the results would not be large.

COMPARISON WITH PREVIOUS DATA

16 Similar surveys were previously conducted in 1993 and 1997. Due to changes in the methodologies and the questionnaires, caution should be exercised when making comparisons between these surveys and the 2001 survey, although any such impact would be expected to be minimal.

17 The 1993 survey was conducted as part of the Monthly Population Survey. 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 asked about involvement in sport over the previous 12 months.

18 The 1997 survey was also conducted as part of the Monthly Population Survey; however, the methodology changed to include, where appropriate, personal telephone interviewing. Information was obtained from two persons aged 15 years and over in each household. Respondents were asked about involvement in sport in the previous 12 months.

19 The 2001 survey was also conducted as part of the Monthly Population Survey using, where appropriate, personal telephone interviewing. Information was obtained from a responsible adult who answered on behalf of one randomly selected person aged 15 years and over in each household. Respondents were asked about involvement in organised sport and physical activity in the previous 12 months.

20 The 1993, 1997 and 2001 methodologies are considered sufficiently similar for reliable comparisons to be made.

21 The 1993 and 1997 surveys asked about involvement in 'sport'. In contrast, the 2001 survey asked about involvement in 'organised sport and physical activity'. This change in wording may have had an impact on responses.

22 The change in wording of the question is likely to have had less impact on responses to non-playing roles, such as being a coach or referee. By definition, these non-playing roles are usually performed as part of an organised activity. In contrast, players or participants may have responded to these two questions differently because player participation in sport can be either organised or non-organised. Hence 'player participation' data have not been compared over time.

23 While the change in wording of the question from 'sport' to 'organised sport' may have had less impact on responses about non-playing roles (relative to players) there may still have been some impact. When asking about non-playing roles, it is possible that the expansion of the question to include organised 'physical activity' as well as organised 'sport' might have elicited a different response. However, even taking this change in wording into account, it is

EXPLANATORY NOTES *continued*

COMPARISON WITH PREVIOUS DATA *continued*

expected that most people would have reported their non-playing involvement when specifically asked about each role, regardless of whether the initial question asked about 'sport' (in 1993 and 1997) or 'organised sport and physical activity' (in 2001). Non-player roles have been compared over time in tables 11 and 12 of this publication, but caution should still be exercised when interpreting these comparisons.

24 The characteristics of persons involved in at least one non-playing role are compared for 1993, 1997 and 2001 in table 11. In all years, respondents were asked if they had been involved in any of the following roles: coach, instructor or teacher; referee or umpire; and committee member or administrator. However, the roles of scorer or timekeeper and medical support were specifically prompted in the 2001 survey, but not in the previous surveys. In 1993 respondents were asked whether there were any 'other' roles they were involved in and no further information on the type of 'other' role was recorded. In 1997 respondents were asked whether there were any 'other' roles they were involved in and, if they were, they were then asked to provide detail about those roles. In 2001, questions were asked about participation in the roles of scorer or timekeeper and medical support prior to asking about participation in any 'other' role. Therefore, it is possible that the 2001 survey could have elicited different responses from those who were involved in scorer or timekeeper and medical support roles, relative to 1997 and 1993, due simply to the question wording.

25 In 1993, the roles of scorer or timekeeper and medical support were not separately enumerated. This means that comparisons cannot be made for these roles using 1993 data (table 12).

26 In 1997, the roles of committee member and of administrator were collected separately whereas in 2001 they were collected together under one role of 'committee member or administrator'. For example, in 1997, if a person reported that they were involved as both a committee member and an administrator, they would have been counted as having two separate involvements. In contrast, in 2001, this same person would have been recorded as having one involvement, (i.e. a committee member or administrator). In order to make comparisons over time, the 1997 data for committee member and administrator were reanalysed and combined into the one non-playing role. For this reason, 1997 estimates for this role as published in table 12 will be different to those published in the 1997 *Involvement in Sport* publication.

FURTHER INFORMATION

27 In addition to data in this publication, there is a range of other characteristics by which persons involved in organised sport and physical activity can be cross-classified. These include marital status and the composition of the household in which respondents live. For further information please contact Lisa Conolly on Adelaide 08 8237 7402, or email to nccrs@abs.gov.au.

ACKNOWLEDGMENT

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

RELATED PUBLICATIONS

29 Other ABS publications with sport and recreation information include:
Australian Social Trends, 2001 (Cat. no. 4102.0)
Children's Participation in Cultural and Leisure Activities, April 2000
(Cat. no. 4901.0)

EXPLANATORY NOTES *continued*

RELATED PUBLICATIONS

continued

How Australians Use Their Time, 1997 (Cat. no. 4153.0)

Participation in Sport and Physical Activities, Australia, 1999–2000
(Cat. no. 4177.0)

Recreation Services, Australia, 1994–95 (Cat. no. 8688.0)

Sport and Recreation, A Statistical Overview 1997 (Cat. no. 4156.0)

Sports Attendance, Australia, April 1999 (Cat. no. 4174.0)

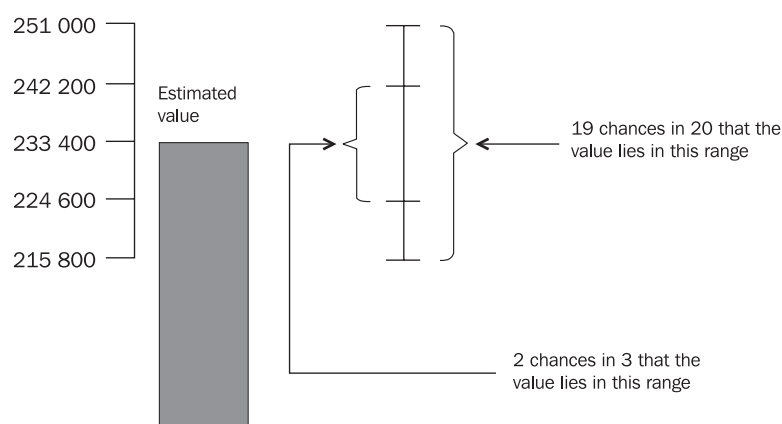
Sports Industries, Australia, 1994–95 (Cat. no. 8686.0)

Voluntary Work, Australia, 2000 (Cat. no. 4441.0)

STANDARD ERRORS

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.

2 The following is an example of the calculation and the use of SEs in relation to estimates of persons. From table 2 an estimated 233,400 West Australian males were involved in organised sport and physical activity during the 12 months prior to interview. Referring to the table of SEs, an estimate of 233,400 has an SE of approximately 8,800 persons. This SE is calculated by finding the estimate in column 1 that falls immediately below 233,400 (200,000) and immediately above 233,400 (500,000) and then finding the corresponding SEs in column 6 (8,400 and 12,300 respectively). The SE is then calculated as $(8,400 + (12,300 - 8,400) \times ((233,400 - 200,000) / (500,000 - 200,000))) = 8,834$, and then rounded to the nearest 100, i.e. 8,800. There are about 2 chances in 3 that the number that would have been produced if all dwellings had been included in the survey was between 224,600 and 242,200 (i.e. 233,400 plus or minus 8,800). There are about 19 chances in 20 that the number lies between 215,800 and 251,000 (i.e. 233,400 plus or minus 17,600). This example is illustrated below:



RELATIVE STANDARD ERRORS

3 Another measure of the likely difference is the relative standard error (RSE) which is obtained by expressing the SE as a percentage of the estimate. The RSE is a useful measure in that it provides an indication of the relative accuracy of the estimate.

4 Proportions and percentages formed from the ratio of two related estimates are also subject to sampling errors. The size of the error depends on the accuracy of both the numerator and the denominator. A formula to approximate the RSE of a proportion is given below:

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

5 The following is an example of the calculation and the use of RSEs in relation to estimates of percentages. From table 10, of the 558,400 coaches, instructors and teachers, 380,400 (68.1%) had some involvement in school or

RELATIVE STANDARD ERRORS *continued*

junior sport in the previous 12 months. The SE of 380,400 is approximately 16,300, so the RSE is approximately $16,300/380,400 \times 100 = 4.3\%$. The SE of 558,400 is approximately 20,100, so the RSE is approximately $20,100/558,400 \times 100 = 3.6\%$. Applying the above formula, the RSE of the percentage of coaches who were involved in school or junior sport (68.1%) is $\sqrt{(4.3)^2 - (3.6)^2}$ or 2.4%. This then gives an SE of the percentage (68.1%) of $(2.4/100) \times 68.1 = 1.6\%$. Therefore, there are about 2 chances in 3 that the percentage of coaches, instructors and teachers involved in school or junior organised sport and physical activities was between 66.5% and 69.7% and approximately 19 chances in 20 that the percentage was in the range 64.9% to 71.3%.

6 As the SEs in table T1 show, the size of the SE increases with the size of the estimate. However, the smaller the estimate the higher is the RSE. Thus, large estimates will be relatively more reliable than smaller estimates. Very small estimates are subject to such high SEs (relative to the size of the estimate) as to detract from their value for most uses. In the tables in this publication, only estimates with RSEs of less than 25% (and percentages based on such estimates) are considered sufficiently reliable for most purposes. However, estimates and percentages with RSEs between 25% and 50% have been included and are preceded by an asterisk (e.g. *2.8) to indicate that they should be treated with caution and viewed as being merely indicative of the magnitude involved. Estimates with RSEs greater than 50% are preceded by a double asterisk (e.g. **0.9) and are subject to sampling error too high for most practical purposes.

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

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

8 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.

9 Space does not allow for the separate indication of the standard errors of all estimates in this publication. Standard errors of estimates should be determined by using tables T1 and T2.

FACTORS

10 Estimates of paid involvement are less reliable (i.e. have a higher RSE) than similar sized estimates for no paid involvement. For estimates associated with some paid involvement, tables T1 and T2 underestimate the SEs and RSEs. More accurate indications of the SEs and RSEs for these estimates can be calculated by adjusting (multiplying) the values in T1 and T2 by the appropriate factor.

11 For most of the organised sport and physical activity estimates provided in this publication, the values in T1 and T2 are used without adjustment, which is equivalent to applying a factor of 1.0. However, estimates for some paid involvement have SEs and RSEs which are 25% higher. For these estimates the SE and RSE values from tables T1 and T2 should be multiplied by a factor of 1.25. The levels at which these and all other estimates have a relative standard error of 25% are shown in table T3.

TECHNICAL NOTE SAMPLING VARIABILITY *continued*

FACTORS *continued*

12 The following is an example of the calculation of standard errors where the use of a factor is required. From table 6, an estimated 105,800 persons received some payment for their involvement as a coach, instructor or teacher of organised sport and physical activity. Referring to the table of SEs, an estimate of 105,800 has an SE of approximately 8,600. The factor of 1.25 is applied to the SE of 8,600 to obtain 10,800. There are 2 chances in 3 that the number that would have been produced if all dwellings had been included in the survey was between 95,000 and 116,600 (i.e. 105,800 plus or minus 10,800). There are about 19 chances in 20 that the number lies between 84,200 and 127,400 (i.e. 105,800 plus or minus 21,600).

T1 STANDARD ERRORS OF ESTIMATES

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
Size of estimate	no.	no.	no.	no.	no.	no.	no.	no.	no.
500	600	600	600	400	400	400	400	400	500
1 000	900	800	800	600	600	500	500	500	800
2 000	1 200	1 200	1 100	900	900	700	800	700	1 100
5 000	2 000	1 900	1 700	1 400	1 500	1 100	1 300	1 100	1 700
10 000	2 900	2 700	2 400	2 000	2 100	1 400	1 900	1 600	2 500
20 000	4 100	3 800	3 500	2 800	3 000	2 000	2 800	2 100	3 600
50 000	6 600	6 100	5 500	4 300	4 600	3 000	4 600	3 100	5 800
100 000	9 200	8 600	7 800	5 800	6 300	4 000	6 800	4 000	8 400
200 000	12 900	12 100	11 100	7 700	8 400	5 400	10 100	5 100	11 900
500 000	20 000	19 000	17 500	11 000	12 300	8 000	..	6 800	19 100
800 000	24 800	23 800	22 100	13 000	14 800	..	..	..	24 200
1 000 000	27 500	26 600	24 700	14 100	16 100	..	..	..	27 100
1 500 000	33 100	32 300	30 200	16 200	18 700	..	..	..	33 300
2 000 000	37 600	37 200	34 800	..	..	..	..	..	38 500
5 000 000	56 200	57 600	54 700	..	..	..	..	..	60 800

.. not applicable

T2 RELATIVE STANDARD ERRORS OF ESTIMATES

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
Size of estimate	%	%	%	%	%	%	%	%	%
500	108	110	101	73	80	64	67	63	97
1 000	80	80	73	55	60	45	50	47	71
2 000	59	57	52	41	44	32	37	34	52
5 000	39	37	34	27	29	20	25	22	34
10 000	28	27	24	20	21	14	18	15	25
20 000	20	19	17	14	15	10	14	10	18
50 000	13	12	11	9	9	6	9	6	12
100 000	9	9	8	6	6	4	7	4	8
200 000	6	6	6	4	4	3	5	3	6
500 000	4	4	4	2	2	2	..	1	4
800 000	3	3	3	2	2	..	..	..	3
1 000 000	3	3	3	1	2	..	..	..	3
1 500 000	2	2	2	1	1	..	..	..	2
2 000 000	2	2	2	..	..	..	..	..	2
5 000 000	1	1	1	..	..	..	..	..	1

.. not applicable

TECHNICAL NOTE SAMPLING VARIABILITY *continued*

FACTORS *continued*

T3 SIZE OF ESTIMATES, AT WHICH VARIABLES HAVE A
RELATIVE STANDARD ERROR OF 25%—By Factors

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
<i>Factor</i>	no.	no.	no.	no.	no.	no.	no.	no.	no.
1.0	13 000	11 200	9 200	6 000	6 800	3 300	4 900	3 800	9 700
1.25	20 700	17 800	14 500	9 600	10 800	5 000	8 200	5 900	15 600

GLOSSARY

Birthplace	Birthplace is classified according to the <i>Standard Australian Classification of Countries (SACC)</i> (Cat. no. 1269.0).
Capital cities	The areas determining the six State capital cities are the Statistical Divisions for those capital cities as defined in the <i>Statistical Geography: Volume 1—Australian Standard Geographical Classification (ASGC)</i> (Cat. no. 1216.0).
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); or ■ worked for one hour or more without pay in a family business or on a farm (i.e. contributing family workers); or ■ 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 worker's compensation and expected to return to their job; or ■ were employers or own account workers who had a job, business or farm, but were not at work.
Employed full time	Persons employed full time are those who usually work 35 hours or more a week (in all jobs) and those who, although usually working less than 35 hours a week, worked 35 hours or more during the reference week.
Employed part time	Persons employed part time are those who usually work less than 35 hours per week (in all jobs) and either did so during the reference week or were not at work in the reference week.
Involvement in organised sport and physical activity	Involvement includes players and participants, as well as persons involved in 'non-playing roles'. Respondents could have been involved in more than one non-playing role and/or as a player. Persons who were involved only as a spectator or only as a club member are excluded.
Junior sport	Junior sport includes those sports and physical activities in which young participants are primarily grouped according to age rather than ability. There is no specific age limit applied to this definition because the age criteria for 'junior' sport may vary from sport to sport.
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	These countries comprise the United Kingdom and Ireland, New Zealand, Canada, the United States of America and South Africa.
Medical support role	This role includes persons who indicated that they had been involved as a 'provider of medical support' for organised physical activities or sports. This would include medical practitioners, physiotherapists, first aid attendants, etc.
Non-playing roles	These roles are undertaken to support, arrange and/or run organised sport and physical activity. The six roles included in this survey are: coach, instructor, or teacher; referee or umpire; committee member or administrator; scorer or timekeeper; medical support; and other role.
Not in the labour force	This category consists of those persons who were not in the categories of 'employed' or 'unemployed' as defined.

GLOSSARY *continued*

Number of hours of involvement	For each role, the number of hours of involvement is an estimate of the average number of hours per week for those weeks in which the respondent took part in the role during the 12 months before interview.
Number of weeks of involvement	For each role, the number of weeks of involvement is an estimate of the number of weeks that the respondent had been involved in that particular role during the 12 months prior to interview.
Organised sport and physical activity	This is sport and physical activity that is organised by a club, business or other organisation.
Participation rate	For any group, this is the number of persons involved in organised sport and physical activity, expressed as a percentage of the civilian population in the same group.
Payment amount	Persons could have been paid for their involvement in dollars and/or in goods and services. The payment reported was that which had been received, or was expected to be received, for the person's involvement in organised sport and physical activity during the 12 months before interview. Where dollars are reported, this is the gross income in dollars (i.e. income before tax and expenses are deducted). The equivalent dollar value for any payment in goods and services was not collected from respondents.
Players	Players includes those who were involved in playing or participating in organised sport or organised physical activity at least once in the 12 months prior to interview. Persons who were players could also have been involved in non-playing roles as well.
Qualification	For this survey, a qualification is the completion of a course or qualification relevant to the non-playing roles surveyed, regardless of the length of the course or the type of institution offering the course. This may include: training run by sporting associations or clubs; study at educational institutions; and attendance at workshops or seminars.
Rest of State	This comprises the whole of Australia less the six State capital cities, as defined in <i>Statistical Geography: Volume 1—Australian Standard Geographical Classification (ASGC)</i> (Cat. no. 1216.0).
School sport	School sport includes those sports and physical activities that are organised by any school or college that caters for students up to and including year 12. Participation may take place either within or outside of school hours.
Some paid involvement	This includes persons who received, or expected to receive, at least some payment for their involvement in organised sport and physical activity during the 12 months before interview. Payment includes payment in dollars or in goods and services.
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; and ■ 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	This is involvement in organised sport and physical activity for which no payment (either in dollars or in goods and services) was received or expected.

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