

HOUSEHOLD USE OF INFORMATION TECHNOLOGY AUSTRALIA

EMBARGO: 11.30AM (CANBERRA TIME) THURS 20 DEC 2007

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INQUIRIES

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Siddhartha De on Canberra (02) 6252 6519.

NOTES

INTRODUCTION

This publication presents results compiled from household use of information technology (HUIT) data collected from the Multi-Purpose Household Survey (MPHS) for 2006-07.

ABOUT HOUSEHOLD USE
OF INFORMATION
TECHNOLOGY (HUIT) DATA

Data on HUIT was previously collected by the ABS in the Population Survey Monitor (1996, 1998, 1999 and 2000), Survey of Education, Training and Information Technology (2001), General Social Survey (2002), National Aboriginal and Torres Strait Islander Survey (2002), Survey of Disability, Ageing and Carers (2003), the Children's Participation in Culture and Leisure Activities Surveys (2003 and 2006) and the MPHS 2004-05, 2005-06 and 2006-07.

ABOUT THE 2006-07 MPHS

The MPHS, conducted as a supplement to the Monthly Labour Force Survey (LFS) included a HUIT module in 2006-07. The survey collected information from 17,040 randomly selected private dwelling households across Australia. In the survey, one randomly selected person per household was asked about their household's access to, and their own use of, computers and the Internet.

HISTORICAL COMPARISONS Due to the difference in the scope of previous surveys, some person level data on household use of information technology are not comparable across surveys for all years. For example, the HUIT data for 2003 were obtained from the Survey of Disability, Ageing and Carers (SDAC), and person level data from this survey only relate to persons with a disability aged 15 years or over, and are thus not comparable with results from MPHS 2006-07. SDAC data are comparable at the household level.

EFFECTS OF ROUNDING

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

MORE INFORMATION ON ABS INFORMATION AND COMMUNICATION TECHNOLOGY(ICT) STATISTICS Information about ABS activities in the field of ICT statistics is available free from the ABS website. Details of other ABS publications relating to the production and use of ICT in Australia can be found in paragraph 45 of the Explanatory Notes.

COMMENTS

The ABS welcomes comments and suggestions from users regarding future surveys of IT use by households and individuals. These comments should be addressed to the Director, Innovation and Technology National Statistics Centre, Australian Bureau of Statistics, Locked bag 10 Belconnen, ACT, 2616.

INQUIRIES

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Siidhartha De on Canberra (02) 6252 6519.

Brian Pink

Australian Statistician

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ABBREVIATIONS

| ABS | Australian Bureau of Statistics |
|-------|--|
| ADSL | asymmetric digital subscriber line |
| ARIA | Accessibility/Remoteness Index of Australia |
| ASGC | Australian Standard Geographical Classification |
| CAI | computer assisted interviewing |
| CD | collection district |
| CPCLA | Children's Participation in Cultural and Leisure Activities Survey |
| CURF | confidentialised unit record file |
| DHAC | Australian Government Department of Health and Aged Care |
| DSL | digital subscriber line |
| EU | European Union |
| GIS | geographic information system |
| GISCA | National Centre for Social Applications of GIS, University of Adelaide |
| GSS | General Social Survey |
| HES | Household Expenditure Survey |
| HUIT | Household Use of Information Technology |
| ICT | information and communication technology |
| IT | information technology |
| kbps | kilobits per second |
| LFS | Labour Force Survey |
| MB | megabyte |
| MPHS | Multi-Purpose Household Survey |
| OECD | Organisation for Economic Co-operation and Development |
| DOTAL | 11: 5.1.1.1.1 |

PSTN public switched telephone network

RA Remoteness Area

RSE relative standard error

SDAC Survey of Disability, Ageing and Carers

SDSL symmetric digital subscriber line

SE standard error

TAFE Technical and Further Education

CHAPTER **1**

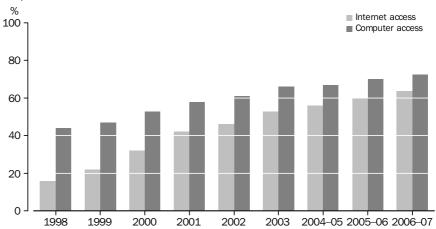
MAIN FINDINGS

INTRODUCTION

This chapter presents a summary of findings from the 2006-07 MPHS.

The 2006-07 MPHS indicated that in 2006-07, 64% of Australian households had home Internet access and 73% of households had access to a computer. Over the years from 1998 to 2006-07, households access to home Internet in Australia has quadrupled from 16% to 64%. During this period, access to computers increased by 29 percentage points to 73%. The Internet access figure compares well with the figure reported in the 2006 Census of 63% (see *Patterns of Internet Access in Australia*, 2006, ABS Cat. no. 8146.0.55.001).

FIGURE 1.1: HOUSEHOLD COMPUTER OR INTERNET ACCESS, Proportion of all households—1998 to 2006-07

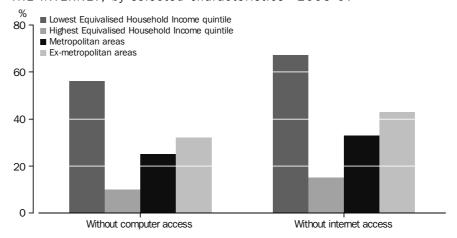


Socio-economic characteristics of households continue to influence the rate of computer and Internet connectivity across Australia. Households which have any of the following characteristics: no children under 15 years; located in ex-metropolitan or remote areas of Australia; have lower household incomes are less likely to be connected to a computer and/or the Internet.

INTRODUCTION

continued

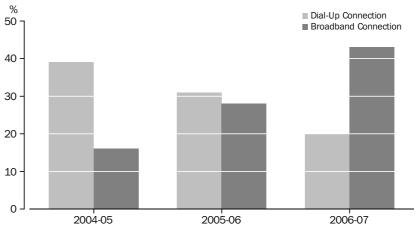
FIGURE 1.2: HOUSEHOLDS WITHOUT ACCESS TO A COMPUTER AND THE INTERNET, by selected characteristics -2006-07



61% of those aged 15 years or over reported having Internet access at home as their most common location of Internet access. Of the estimated 9.9 million Australians accessing the Internet at home, 68% indicated personal or private purposes as the main purpose of Internet access, followed by 17% who nominated work related purposes as the main purpose of Internet access.

In 2006-07 the number of households with a Broadband Internet connection increased by 52% from the previous year to an estimated 3.5 million households. This represents 43% of all households in Australia and 68% of households who have Internet access. The same socio-economic characteristics which influence the rate of Internet connectivity also influence the rate of Broadband access.

FIGURE 1.3: HOUSEHOLDS WITH ACCESS TO A DIAL-UP OR BROADBAND INTERNET CONNECTION—2004-05 to 2006-07



Digital Subscriber Line (DSL) was the dominant technology being used by 70% of households with Broadband access.

CHAPTER 2

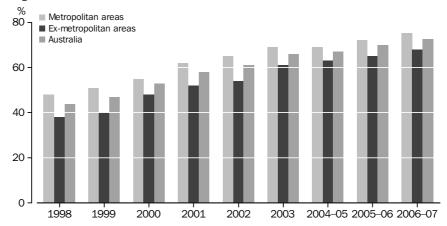
CHARACTERISTICS OF HOUSEHOLDS WITH COMPUTERS OR INTERNET ACCESS

ABOUT THE DATA

Data presented in this chapter were collected from the Population Survey Monitor (1998, 1999 and 2000), the Survey of Education, Training and Information Technology (2001), the General Social Survey (2002), the Survey of Disability, Ageing and Carers (2003) and the MPHS 2004-05, 2005-06 and 2006-07.

CHANGES IN HOME COMPUTER ACCESS The percentage of Australian households with access to a computer at home has continued to increase, registering an increase of 3 percentage points from 2005-06 to 73% in 2006-07. As with previous years, the percentage of households with home computer access continues to be higher for households with children under 15 years of age, households in the Australian Capital Territory, households in the highest income quintile and households in metropolitan areas and major cities of Australia.

FIGURE 2.1: HOUSEHOLD ACCESS TO A COMPUTER AT HOME, by region—1998 to 2006-07

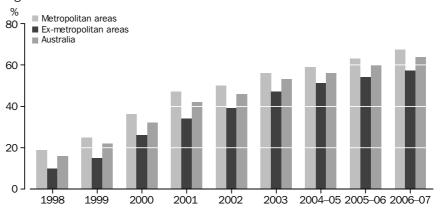


CHANGES IN HOME INTERNET ACCESS

The percentage of households with home Internet continues to increase and has quadrupled between 1998 (16%) and 2006-07 (64%). In 2006-07, the percentage of households with home Internet access increased by 4 percentage points from 2005-06. Households with higher levels of home Internet access and those with computer access at home share similar characteristics.

CHANGES IN HOME INTERNET ACCESS continued

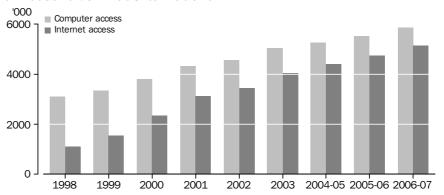
FIGURE 2.2: HOUSEHOLD ACCESS TO THE INTERNET AT HOME, by region-1998 to 2006-07



COMPARISON OF HOME
COMPUTER AND INTERNET
ACCESS

The ratio of Australian households with access to the Internet at home as a proportion of those with access to a computer has increased steadily. In 1998, only a third of the households with computer access had access to the Internet. In 2006-07, this stands at 88%, reflecting a robust growth in take-up of the Internet during this period from 1.1 million households in 1998 to 5.1 million in 2006-07.

FIGURE 2.3: HOUSEHOLD COMPUTER OR INTERNET ACCESS, Number of households—1998 to 2006-07



Households which do not have children under 15 years, those that are located in ex-metropolitan or regional areas of Australia and/or have lower household incomes are less likely to have a computer and/or the Internet.

FIGURE 2.4: HOUSEHOLDS WITHOUT ACCESS TO A COMPUTER AND THE INTERNET, by selected characteristics - 2006-07

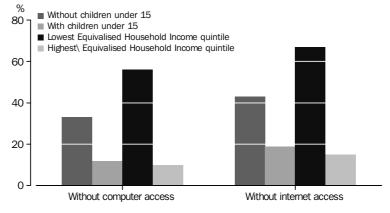


TABLE 2.1: HOUSEHOLDS WITH ACCESS TO A HOME COMPUTER, Selected Characteristics, by period—1998 to 2006-07

| period—1998 to 2000-0 | 1 | | | | | | | | | |
|--|--|--|---|--|--|--|--|--|--|--|
| • | • • • • • • • | • • • • • • • | • • • • • • • | • • • • • • • | • • • • • • • | • • • • • • | • • • • • • • | • • • • • • • | • • • • • • • • | |
| | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004-05 | 2005-06 | 2006-07 | |
| | | | | | | | | | | |
| • | | | | | • • • • • • • | • • • • • • • | • • • • • • | • • • • • • • • | • • • • • • | |
| | NU | MBER C | F HOUS | EHOLDS | ('000') | | | | | |
| Households | | | | | | | | | | |
| Without children under 15 | 1 730 | 1 932 | 2 255 | 2 636 | 2 842 | 3 179 | 3 388 | 3 614 | 3 909 | |
| With children under 15 | 1 354 | 1 404 | 1 548 | 1 675 | 1 714 | 1 860 | 1 878 | 1 913 | 1 951 | |
| | 100. | 1 .0. | 10.0 | 20.0 | | 1000 | 20.0 | 1010 | 1001 | |
| State/Territory | 4 000 | 4.070 | 1.011 | 4 405 | 4.500 | 4.050 | 4 700 | 4 000 | 4.040 | |
| New South Wales | 1 023 | 1 079 | 1 244 | 1 435 | 1 528 | 1 653 | 1 723 | 1 822 | 1 918 | |
| Victoria | 791 | 867 | 987 | 1 108 | 1 144 | 1 278 | 1 306 | 1 361 | 1 435 | |
| Queensland | 562 | 585 | 680 | 776 | 822 | 957 | 1 026 | 1 092 | 1 159 | |
| South Australia | 246 | 272 | 299 | 346 | 355 | 390 | 409 | 429 | 451 | |
| Western Australia Tasmania | 300 66 | 352 75 | 397 84 | 427 96 | 479 98 | 512 111 | 545 119 | 560 121 | 613 131 | |
| | | 75 27 | 84 28 | 96 28 | 98 34 | | | 41 | 46 | |
| Northern Territory(a) | 20 | | | 28 94 | | np | 38 | | | |
| Australian Capital Territory | 75 | 79 | 84 | 94 | 96 | 99 | 99 | 101 | 108 | |
| Region | | | | | | | | | | |
| Metropolitan areas | 2 126 | 2 302 | 2 543 | 2 928 | 3 091 | 3 349 | 3 455 | 3 655 | 3 848 | |
| Ex-metropolitan areas | 958 | 1 035 | 1 260 | 1 383 | 1 465 | 1 689 | 1 810 | 1 872 | 2 013 | |
| Total barrashalda ta Arabarta | | | | | | | | | | |
| Total households in Australia | | | | | | | | | | |
| with access to | | | 0.000 | 4.044 | 4 ==0 | | = 000 | | = 000 | |
| a home computer | 3 083 | 3 337 | 3 803 | 4 311 | 4 556 | 5 038 | 5 266 | 5 527 | 5 860 | |
| | | | | | | | | | | |
| Total households in Australia | 7 002 | 7 100 | 7 236 | 7 377 | 7 468 | 7 633 | 7 847 | 7 945 | 8 071 | |
| | | | | | | | | | | |
| Total households in Australia | • • • • • • • | • • • • • • • | • • • • • • | • • • • • • • | • • • • • • • | • • • • • • | | | | |
| | • • • • • • • | • • • • • • • | • • • • • • | • • • • • • • | | • • • • • • | | | | |
| Households | PROP | ORTION | OF ALL | HOUSEH | HOLDS (9 | %) | • • • • • • | • • • • • • • | • • • • • | |
| Households Without children under 15 | PROP | • • • • • • • | • • • • • • | HOUSEH 51 | HOLDS (9 | • • • • • • | | | | |
| Households | PROP | ORTION | OF ALL | HOUSEH | HOLDS (9 | %) | • • • • • • | • • • • • • • | • • • • • | |
| Households Without children under 15 With children under 15 | PROP | ORTION 39 | OF ALL | HOUSEH 51 | HOLDS (9 | %) 58 | 60 | 63 | 67 | |
| Households Without children under 15 With children under 15 State/Territory | PROP | ORTION 39 | OF ALL | HOUSEH 51 | HOLDS (9 | %) 58 | 60 | 63 | 67 | |
| Households Without children under 15 With children under 15 | PROP 36 63 | ORTION 39 65 | OF ALL 44 71 | HOUSEH 51 77 | 53 79 | 58 85 | 60 84 | 63 87 | 67 88 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria | PROP 36 63 44 | 39 65 45 | OF ALL 44 71 52 | 51 77 | 53 79 61 | 58 85 65 | 60 84 67 | 63 87 69 | 67 88 72 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales | PROP 36 63 44 46 | 39 65 45 50 | OF ALL 44 71 52 56 | 51 77 59 61 | 53 79 61 62 | 58 85 65 68 | 60 84 67 68 | 63 87 69 69 | 67 88 72 72 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland | PROP 36 63 44 46 43 | 39 65 45 50 44 | OF ALL 44 71 52 56 50 | 51 77 59 61 55 | 53 79 61 62 57 | 58 85 65 68 65 | 60 84 67 68 67 | 63 87 69 69 72 | 67 88 72 72 74 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland South Australia | PROP 36 63 44 46 43 41 | 39 65 45 50 44 45 | OF ALL 44 71 52 56 50 49 | 51 77 59 61 55 56 | 53 79 61 62 57 58 | 58 85 65 68 65 62 | 60 84 67 68 67 64 | 63 87 69 69 72 67 | 67 88 72 72 74 69 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland South Australia Western Australia | PROP 36 63 44 46 43 41 44 | 39 65 45 50 44 45 50 | OF ALL 44 71 52 56 50 49 55 | 51 77 59 61 55 56 58 | 53 79 61 62 57 58 63 | 58 85 65 68 65 62 67 | 60 84 67 68 67 64 69 | 63 87 69 69 72 67 71 | 67 88 72 72 74 69 76 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland South Australia Western Australia Tasmania | PROP 36 63 44 46 43 41 44 36 | 39 65 45 50 44 45 50 40 | OF ALL 44 71 52 56 50 49 55 45 | 51 77 59 61 55 56 58 50 | 53 79 61 62 57 58 63 51 | 58 85 65 68 65 62 67 57 | 60 84 67 68 67 64 69 61 | 63 87 69 69 72 67 71 60 | 67 88 72 72 74 69 76 66 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory(a) Australian Capital Territory | PROP 36 63 44 46 43 41 44 36 42 | 39 65 45 50 44 45 50 40 55 | OF ALL 44 71 52 56 50 49 55 45 54 | 51 77 59 61 55 56 58 50 52 | 53 79 61 62 57 58 63 51 62 | 58 85 65 68 65 62 67 57 np | 60 84 67 68 67 64 69 61 71 | 63 87 69 69 72 67 71 60 70 | 67 88 72 72 74 69 76 66 75 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory(a) Australian Capital Territory Region | PROP 36 63 44 46 43 41 44 36 42 64 | 39 65 45 50 44 45 50 40 55 66 | OF ALL 44 71 52 56 50 49 55 45 54 70 | 51 77 59 61 55 56 58 50 52 77 | 53 79 61 62 57 58 63 51 62 78 | 58 85 65 68 65 62 67 57 np 80 | 60 84 67 68 67 64 69 61 71 | 63 87 69 69 72 67 71 60 70 82 | 67 88 72 72 74 69 76 66 75 84 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory(a) Australian Capital Territory Region Metropolitan areas | PROP 36 63 44 46 43 41 44 36 42 64 | 39 65 45 50 44 45 50 40 55 66 | OF ALL 44 71 52 56 50 49 55 45 54 70 | 51 77 59 61 55 56 58 50 52 77 | 53 79 61 62 57 58 63 51 62 78 | 58 85 65 68 65 62 67 57 np 80 | 60 84 67 68 67 64 69 61 71 79 | 63 87 69 69 72 67 71 60 70 82 | 67 88 72 72 74 69 76 66 75 84 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory(a) Australian Capital Territory Region | PROP 36 63 44 46 43 41 44 36 42 64 | 39 65 45 50 44 45 50 40 55 66 | OF ALL 44 71 52 56 50 49 55 45 54 70 | 51 77 59 61 55 56 58 50 52 77 | 53 79 61 62 57 58 63 51 62 78 | 58 85 65 68 65 62 67 57 np 80 | 60 84 67 68 67 64 69 61 71 | 63 87 69 69 72 67 71 60 70 82 | 67 88 72 72 74 69 76 66 75 84 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory(a) Australian Capital Territory Region Metropolitan areas | PROP 36 63 44 46 43 41 44 36 42 64 | 39 65 45 50 44 45 50 40 55 66 | OF ALL 44 71 52 56 50 49 55 45 54 70 | 51 77 59 61 55 56 58 50 52 77 | 53 79 61 62 57 58 63 51 62 78 | 58 85 65 68 65 62 67 57 np 80 | 60 84 67 68 67 64 69 61 71 79 | 63 87 69 69 72 67 71 60 70 82 | 67 88 72 72 74 69 76 66 75 84 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory(a) Australian Capital Territory Region Metropolitan areas Ex-metropolitan areas | PROP 36 63 44 46 43 41 44 36 42 64 | 39 65 45 50 44 45 50 40 55 66 | OF ALL 44 71 52 56 50 49 55 45 54 70 | 51 77 59 61 55 56 58 50 52 77 | 53 79 61 62 57 58 63 51 62 78 | 58 85 65 68 65 62 67 57 np 80 | 60 84 67 68 67 64 69 61 71 79 | 63 87 69 69 72 67 71 60 70 82 | 67 88 72 72 74 69 76 66 75 84 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory(a) Australian Capital Territory Region Metropolitan areas Ex-metropolitan areas | PROP 36 63 44 46 43 41 44 36 42 64 | 39 65 45 50 44 45 50 40 55 66 | OF ALL 44 71 52 56 50 49 55 45 54 70 | 51 77 59 61 55 56 58 50 52 77 | 53 79 61 62 57 58 63 51 62 78 | 58 85 65 68 65 62 67 57 np 80 | 60 84 67 68 67 64 69 61 71 79 | 63 87 69 69 72 67 71 60 70 82 | 67 88 72 72 74 69 76 66 75 84 | |
| Households Without children under 15 With children under 15 State/Territory New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory(a) Australian Capital Territory Region Metropolitan areas Ex-metropolitan areas Total households in Australia with access to | PROP 36 63 44 46 43 41 44 36 42 64 48 38 | 39 65 45 50 44 45 50 40 55 66 | OF ALL 44 71 52 56 50 49 55 45 54 70 55 48 | 51 77 59 61 55 56 58 50 52 77 62 52 | 53 79 61 62 57 58 63 51 62 78 | 58 85 65 68 65 62 67 57 np 80 69 61 | 60 84 67 68 67 64 69 61 71 79 | 63 87 69 69 72 67 71 60 70 82 | 67 88 72 72 74 69 76 66 75 84 | |

np not available for publication but included in totals where applicable, (a) Northern Territory estimates for 2003 are included in the totals and unless otherwise indicated

other classifications but cannot be shown separately.

COMPUTER AND INTERNET Additional Characteristics—2006-07 ACCESS continued

COMPARISON OF HOME TABLE 2.2: HOUSEHOLDS WITH ACCESS TO A HOME COMPUTER,

| | Total number of households | Households with access to home computer |
|------------------------------------|----------------------------|---|
| | '000 | % |
| Equivalised household income | | |
| \$0 - \$39,999(a) | 3 743 | 61 |
| \$40,000 - \$79,999 | 2 028 | 85 |
| \$80,000 - \$119,999 | 463 | 91 |
| \$120,000 or over | 184 | 96 |
| Could not be determined | 1 652 | 76 |
| Household income | | |
| \$0 - \$39,999(a) | 2 473 | 49 |
| \$40,000 - \$79,999 | 1 905 | 79 |
| \$80,000 - \$119,999 | 1 105 | 90 |
| \$120,000 or over | 935 | 96 |
| Could not be determined | 1 652 | 76 |
| Equivalised household quintiles(b) | | |
| Lowest quintile | 1 283 | 44 |
| Second quintile | 1 284 | 63 |
| Third quintile | 1 284 | 78 |
| Fourth quintile | 1 284 | 84 |
| Highest quintile | 1 284 | 90 |
| Remoteness area | | |
| Major cities of Australia | 5 341 | 75 |
| Inner regional Australia | 1 732 | 69 |
| Outer regional Australia | 883 | 66 |
| Remote Australia | ^ 114 | 72 |
| Total | 8 071 | 73 |

 $[\]hat{\ }$ estimate has a relative standard error of 10% to less than 25% and should be used with caution

⁽a) Includes those households with income less than zero.

⁽b) Excludes those households where income could not be determined.

TABLE 2.3: HOUSEHOLDS WITH HOME INTERNET ACCESS(a), Selected Characteristics, by period—1998 to 2006-07

| • | • • • • • • • | • • • • • • | • • • • • • • | • • • • • • | • • • • • • • | • • • • • • | • • • • • • • | • • • • • • | • • • • • • • • • | ۰ |
|---|---------------|-------------|---------------|-------------|---------------|----------------------|---------------|---------------|-------------------|---|
| | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004-05 | 2005-06 | 2006-07 | |
| | | | | | | | | | | |
| • | | | | | | • • • • • • | • • • • • • • | • • • • • • • | • • • • • • | |
| | Nι | JMBER | OF HOUS | SEHOLDS | 6 ('000) | | | | | |
| Households | | | | | | | | | | |
| Without children under 15 | 657 | 905 | 1 408 | 1 936 | 2 153 | 2 537 | 2 772 | 3 048 | 3 356 | |
| With children under 15 | 441 | 633 | 932 | 1 178 | 1 292 | 1 502 | 1 621 | 1 683 | 1 782 | |
| State/Territory | | | | | | | | | | |
| New South Wales | 414 | 514 | 776 | 1 088 | 1 196 | 1 365 | 1 455 | 1 570 | 1 712 | |
| Victoria | 255 | 394 | 603 | 780 | 852 | 1 019 | 1 085 | 1 161 | 1 253 | |
| Queensland | 194 | 269 | 416 | 563 | 602 | 757 | 861 | 937 | 1 020 | |
| South Australia | 75 | 117 | 177 | 229 | 261 | 300 | 323 | 356 | 369 | |
| Western Australia | 101 | 155 | 245 | 300 | 366 | 406 | 456 | 484 | 536 | |
| Tasmania | 19 | 34 | 48 | 59 | 67 | 78 | 94 | 99 | 112 | |
| Northern Territory | 8 | 14 | 18 | 21 | 26 | np | 34 | 35 | 41 | |
| Australian Capital Territory | 32 | 41 | 56 | 73 | 74 | 82 | 84 | 89 | 95 | |
| Region | | | | | | | | | | |
| Metropolitan areas | 834 | 1 151 | 1 665 | 2 206 | 2 398 | 2 737 | 2 940 | 3 182 | 3 448 | |
| Ex-metropolitan areas | 264 | 387 | 676 | 908 | 1 047 | 1 303 | 1 452 | 1 548 | 1 691 | |
| Total households in Australia | | | | | | | | | | |
| with Internet Access | 1 098 | 1 538 | 2 340 | 3 114 | 3 445 | 4 039 | 4 393 | 4 730 | 5 138 | |
| with internet Access | 1 030 | 1 330 | 2 340 | 3 114 | 3 443 | 4 033 | + 333 | 4 / 30 | 3 136 | |
| Total households in Australia | 7 002 | 7 100 | 7 236 | 7 377 | 7 468 | 7 633 | 7 847 | 7 945 | 8 071 | |
| | | | | | | | | | | |
| | PROP | ORTION | OF ALL | HOUSE | HOLDS (| %) | | | | |
| Households | | | | | | | | | | |
| Without children under 15 | 14 | 18 | 28 | 37 | 40 | 47 | 49 | 53 | 57 | |
| With children under 15 | 20 | 29 | 43 | 54 | 59 | 68 | 72 | 76 | 81 | |
| | | | .0 | ٠. | | 00 | | | 01 | |
| State/Territory | 40 | 00 | 20 | 45 | 40 | - 1 | F.C | 00 | 64 | |
| New South Wales Victoria | 18 15 | 22 23 | 32 34 | 45 43 | 48 46 | 54 54 | 56 57 | 60 59 | 64 63 | |
| Queensland | 15 15 | 20 | 31 | 43 | 40 | 5 4 52 | 5 <i>i</i> | 61 | 65 | |
| South Australia | 12 | 19 | 29 | 37 | 43 | 48 | 50 | 56 | 57 | |
| Western Australia | 15 | 22 | 34 | 41 | 48 | 53 | 58 | 62 | 66 | |
| Tasmania | 10 | 18 | 25 | 31 | 35 | 41 | 48 | 49 | 56 | |
| Northern Territory | 16 | 30 | 35 | 38 | 48 | np | 61 | 60 | 67 | |
| Australian Capital Territory | 27 | 34 | 46 | 60 | 60 | 66 | 67 | 72 | 73 | |
| Region | | | | | | | | | | |
| Metropolitan areas | 19 | 25 | 36 | 47 | 50 | 56 | 59 | 63 | 67 | |
| Ex-metropolitan areas | 10 | 15 | 26 | 34 | 39 | 47 | 51 | 54 | 57 | |
| · | | | | | | | | | | |
| Total households in Australia | | | | | | | | | | |
| with Internet Access | 16 | 22 | 32 | 42 | 46 | 53 | 56 | 60 | 64 | |
| Total households in Australia | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |
| iotai nouscholus III Australia | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |

applicable, unless otherwise indicated

np not available for publication but included in totals where (a) Northern Territory estimates for 2003 are included in totals and other classifications but can not be shown separately other classifications but can not be shown separately

COMPUTER AND INTERNET Additional Characteristics—2006-07 ACCESS continued

COMPARISON OF HOME TABLE 2.4: HOUSEHOLDS WITH HOME ACCESS TO THE INTERNET,

| | Total number of all households | Households with access to the Internet at home |
|--|--------------------------------|--|
| | '000 | % |
| Equivalised household income \$0 - \$39,999(a) | 3 743 | 50 |
| \$40,000 - \$79,999 | 2 028 | 77 |
| \$80,000 - \$119,999 | 463 | 86 |
| \$120,000 or over | 184 | 91 |
| Could not be determined | 1 652 | 68 |
| Household income | | |
| \$0 - \$39,999(a) | 2 473 | 37 |
| \$40,000 - \$79,999 | 1 905 | 68 |
| \$80,000 - \$119,999 | 1 105 | 83 |
| \$120,000 or over | 935 | 93 |
| Could not be determined | 1 652 | 68 |
| Equivalised household income quintiles(b) | | |
| Lowest quintile | 1 283 | 33 |
| Second quintile | 1 284 | 52 |
| Third quintile | 1 284 | 67 |
| Fourth quintile | 1 284 | 75 |
| Highest quintile | 1 284 | 85 |
| Remoteness area | | |
| Major cities of Australia | 5 341 | 67 |
| Inner regional Australia | 1 732 | 58 |
| Outer regional Australia | 883 | 56 |
| Remote Australia | 114 | ^61 |
| Total | 8 071 | 64 |

 $[\]hat{\ }$ $\,$ estimate has a relative standard error of 10% to less than 25% and should be used with caution

⁽a) Includes those households with income less than zero.

⁽b) Excludes those households where income could not be determined.

TABLE 2.5: HOUSEHOLDS WITHOUT ACCESS TO A HOME COMPUTER AND/OR THE INTERNET, Selected Characteristics—2006-07

| | HOUSEHOLDS WITHOUT ACCESS TO A HOME COMPUTER | | HOUSEHOLDS WITHOUT ACCE TO THE INTERNET AT HOME | | |
|--|--|----------|--|----------|--|
| | '000 | % | '000 | % | |
| Households | 4.050 | 00 | 0.504 | 40 | |
| Without children under 15 With children under 15 | 1 950 260 | 33 12 | 2 501 428 | 43 19 | |
| | 200 | 12 | 420 | 13 | |
| State/Territory | 750 | 00 | 000 | 20 | |
| New South Wales Victoria | 756 550 | 28 28 | 960 732 | 36 37 | |
| Queensland | 406 | 26 26 | 732 544 | 35 | |
| South Australia | 201 | 31 | 282 | 43 | |
| Western Australia | 193 | 24 | 271 | 34 | |
| Tasmania | 68 | 34 | 87 | 44 | |
| Northern Territory | ^ 15 | ^ 25 | ^ 20 | ^ 33 | |
| Australian Capital Territory | 21 | 16 | 34 | 26 | |
| Region | | | | | |
| Metropolitan areas | 1 267 | 25 | 1 665 | 33 | |
| Ex-metropolitan areas | 943 | 32 | 1 264 | 43 | |
| Equivalised household income | | | | | |
| \$0 - \$39,999(a) | 1 459 | 39 | 1 857 | 50 | |
| \$40,000 - \$79,999 | 304 | 15 | 466 | 23 | |
| \$80,000 - \$119,999 | ^ 41 | ^9 | ^ 66 | ^ 14 | |
| \$120,000 or over | ^7 | ^ 4 | ^ 16 | ^9 | |
| Could not be determined | 400 | 24 | 524 | 32 | |
| Household income | | | | | |
| \$0 - \$39,999(a) | 1 271 | 51 | 1 552 | 63 | |
| \$40,000 - \$79,999 | 394 | 21 | 599 | 31 | |
| \$80,000 - \$119,999 | 108 | 10 | 185 | 17 | |
| \$120,000 or over | ^37 | ^ 4 | 70 | 7 | |
| Could not be determined | 400 | 24 | 524 | 32 | |
| Equivalised household income quintiles(b) | | | | | |
| Lowest quintile | 724 | 56 | 863 | 67 | |
| Second quintile | 478 | 37 | 617 | 48 | |
| Third quintile | 285 | 22 | 419 | 33 | |
| Fourth quintile | 201 | 16 | 316 | 25 | |
| Highest quintile | 124 | 10 | 190 | 15 | |
| Remoteness area | | | | | |
| Major cities of Australia | 1 341 | 25 | 1 761 | 33 | |
| Inner regional Australia | 540 | 31 | 733 | 42 | |
| Outer regional Australia Remote Australia | 297 | 34 | 390 | 44 | |
| Remote Australia | ^32 | ^ 28 | ^ 45 | ^ 39 | |
| Total | 2 210 | 27 | 2 929 | 36 | |

actimate has a relative standard error of 10% to less than 25% and (b) Excludes those households where income could not be determined. should be used with caution

⁽a) Includes those households with income less than zero.

CHAPTER 3

USE OF THE INTERNET

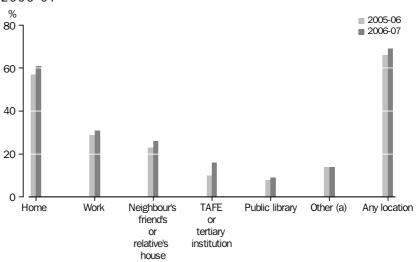
ABOUT THE DATA

Since 2005-06, the scope of MPHS has expanded to include people aged 15 years and over. For MPHS 2004-05 the scope was restricted to people 18 years and over. Therefore, person level data for the whole population between 2004-05 and 2005-06 and subsequent years are not comparable.

LOCATION OF INTERNET USE

During 2006-07, 69% of people aged 15 years or over accessed the Internet from any location in the previous 12 months. Home was the most popular location of Internet access with 61% of the people aged 15 years or over accessing the Internet from home. Work (31%) and neighbour's or friend's or relative's house (26%) were reported as the next most common locations for accessing the Internet.

FIGURE 3.1: INTERNET USE BY LOCATION OF ACCESS—2005-06 to 2006-07

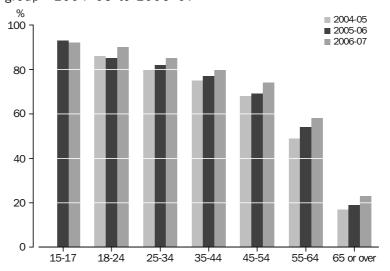


(a) Includes government agency/department shopfront, Internet Cyber cafe, shopping mall, airport or similar.

SOCIO DEMOGRAPHIC CHARACTERISTICS OF INTERNET USERS The use of the Internet at any location was significantly higher than the average for those with the following characteristics: those in the age group 15 to 17; people from households in the top two income quintiles; people with higher levels of educational attainment and the employed. In contrast, older people, people with below median household income and the unemployed registered significantly lower than average levels of Internet access.

SOCIO DEMOGRAPHIC CHARACTERISTICS OF INTERNET USERS continued

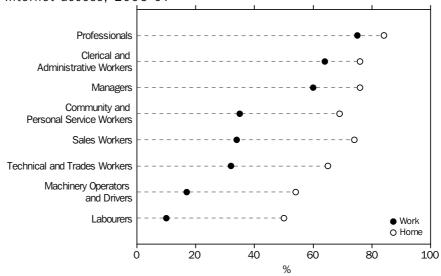
FIGURE 3.2: USE OF THE INTERNET AT ANY LOCATION, by age group — 2004-05 to 2006-07



LABOUR FORCE
CHARACTERISTICS OF
INTERNET USERS

During 2006-07, Professionals (75%), Administrative or Clerical Workers (64%) and Managers (60%) were most likely to use the Internet at work. Labourers were least likely to use the Internet at work (10%). Similar trends were found for Internet use at any location (which incorporates home use as well as other locations such as libraries, educational institutions and other persons' homes).

FIGURE 3.3: USE OF THE INTERNET BY OCCUPATION, by location of Internet access, 2006-07



GEOGRAPHIC
CHARACTERISTICS OF
INTERNET USERS

The Australian Capital Territory continues to have a significantly higher proportion of Internet users (83%). Metropolitan areas continue to register higher levels of Internet use.

GEOGRAPHIC
CHARACTERISTICS OF
INTERNET USERS
continued

FIGURE 3.4: PROPORTION OF INTERNET USE AT ANY LOCATION, by State/Territory-2005-06 and 2006-07

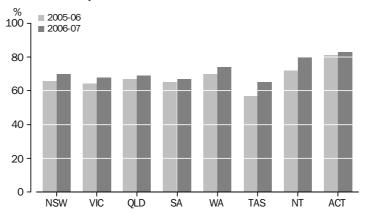
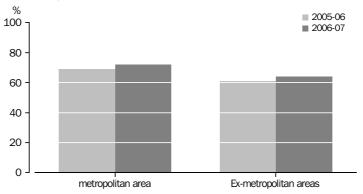


FIGURE 3.5: INTERNET USE AT ANY LOCATION, by metropolitan and ex-metropolitan areas-2005-06 and 2006-07

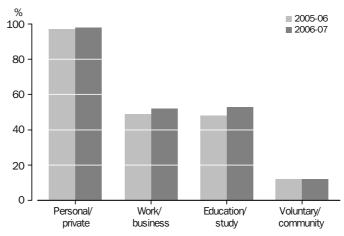


PURPOSE OF INTERNET USE

In 2006-07, personal or private related purposes continued to dominate as the most common purpose of Internet use at home across all age groups, representing 98% of an estimated 9.9 million people using the Internet at home. Educational or study purposes was the next most common response (53%), followed by Work or business related purposes (52%) and voluntary or community purposes (12%). While the use of Internet for personal and voluntary purposes has remained largely unchanged from 2004-05, the proportion of people using Internet for study and work related purposes registered an increase by 4 and 3 percentage points respectively.

PURPOSE OF INTERNET USE continued

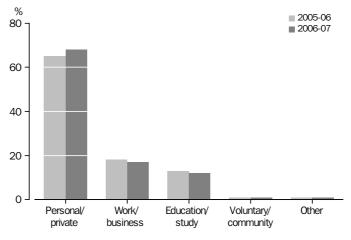
FIGURE 3.6: INTERNET USE AT HOME, by purpose-2005-06 and 2006-07



MAIN PURPOSE OF INTERNET USE AT HOME

In 2006-07, of the estimated 9.9 million people accessing the Internet from home, 68% reported personal or private purposes to be the main purpose of Internet access, followed by work related purpose (17%). A significantly higher proportion of income earners in the highest income quintile (26%) and people with higher levels of educational attainment (26% of people who held a bachelor degree or higher) reported work related purposes as the main purpose of Internet use at home.

FIGURE 3.7: MAIN PURPOSE OF INTERNET USE AT HOME-2005-06 AND 2006-07

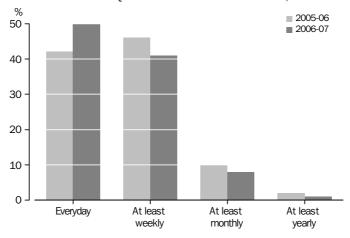


FREQUENCY OF INTERNET USE AT HOME

In comparison to previous years, in 2006-07 a significant, and growing, proportion of people used the Internet every day. During 2006-07, people aged 15-17 years used the Internet more on a daily basis compared to other age groups.

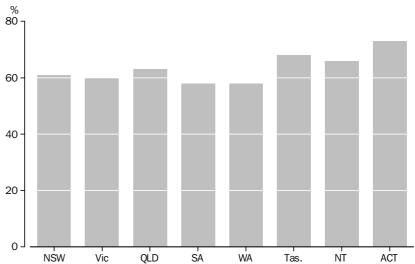
FREQUENCY OF INTERNET USE AT HOME continued

FIGURE 3.8: FREQUENCY OF INTERNET USE, 2005-06 and 2006-07



PURCHASING OF GOODS AND SERVICES VIA THE INTERNET In 2006-07, of the estimated 11.3 million people who accessed the Internet from any location, 61% used the Internet to purchase or order goods or services for private purposes. A higher proportion of people in Tasmania, the Northern Territory and the Australian Capital Territory (68%, 66% and 73% respectively) used the Internet to purchase or order goods or services for private purposes. Four in five people belonging to equivalised annual household income of at least \$80,000 and less than \$120,000, and 71% of people aged between 25 and 34 years used the Internet to purchase or order goods or services for private purposes.

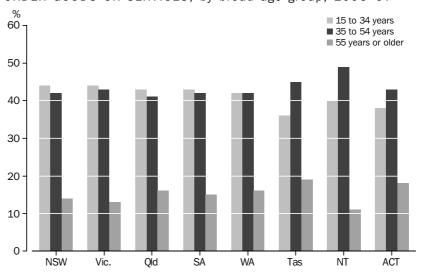
FIGURE 3.9: USE OF THE INTERNET TO PURCHASE OR ORDER GOODS OR SERVICES, by State/Territory-2006-07



When use of Internet to purchase or order goods is compared between age groups within each State/Territory, it can be seen that, in 2006-07, the Northern Territory had the greatest proportion of persons aged between 35 and 54 years accessing the Internet to purchase or order goods or services over the Internet (49%), Tasmania and the ACT had the greatest proportion of persons aged 55 years or over accessing the Internet to purchase or order goods or services over the Internet (19% and 18% respectively).

PURCHASING OF GOODS AND SERVICES VIA THE INTERNET continued

FIGURE 3.10: PERSONS WHO USED THE INTERNET TO PURCHASE OR ORDER GOODS OR SERVICES, by broad age group, 2006-07



MAIN REASON FOR NOT USING THE INTERNET TO PURCHASE GOODS OR SERVICES In 2006-07, of the estimated 4.4 million people who did not use the Internet to purchase goods or services, 'having no need', was the main reason for not doing so for 34%, followed by security concerns (20%) and preference for shopping in person (19%).

SELECTED
CHARACTERISTICS OF
PERSONS NOT USING THE
INTERNET

77% of people 65 years or above did not use the Internet from any location compared with only 8% of people in the age group 15 - 17 years. 58% of people in the bottom income quintile did not access the Internet from any location compared with 9% of people in the top quintile. Only 8% of people with Bachelor degree and above educational attainment did not access the Internet from any location, compared with 40% of people with Year 12 or below education.

TABLE 3.1: USE OF THE INTERNET(a), Selected Characteristics, by Location of Access—2006-07

| | Number | | | | | | | |
|--|--------------------------|----------|----------|----------------------------|----------|----------|-------------|---|
| | of persons aged 15 | | | Neighbour's or friend's | | | | |
| | years | | | or relative's | | | Other | Any |
| | or over | Home | Work | house | Library | School | location(b) | location |
| A = = = = () | '000 | % | % | % | % | % | % | % |
| Age group (years) 15 - 17 | 002 | 82 | ^7 | 60 | 22 | 90 | 18 | 00 |
| 18 - 17 18 - 24 | 903 1 881 | 82 74 | 32 | 62 55 | 22 17 | 82 44 | 22 | 92 90 |
| 25 - 34 | 2 809 | 72 | 32 48 | 38 | 10 | 14 | 19 | 90 85 |
| 35 - 44 | 2 994 | 73 | 42 | 25 | 8 | 9 | 15 | 80 |
| 45 - 54 | 2 832 | 67 | 41 | 17 | 8 | 8 | 12 | 74 |
| 55 - 64 | 2 292 | 52 | 27 | 11 | 7 | 5 | 10 | 58 |
| 65 or over | 2 577 | 21 | ^4 | 3 | 3 | 1 | 3 | 23 |
| Sex | | | | | | | | |
| Male | 8 038 | 63 | 33 | 27 | 9 | 15 | 15 | 71 |
| Female | 8 250 | 59 | 30 | 26 | 10 | 16 | 12 | 68 |
| Personal income | | | | | | | | |
| \$0 - \$39,999(c) | 9 436 | 54 | 17 | 25 | 10 | 20 | 11 | 62 |
| \$40,000 - \$79,999 | 3 652 | 73 | 55 | 32 | 8 | 10 | 17 | 85 |
| \$80,000 - \$119,999 | 749 | 86 | 71 | 29 | 9 | 9 | 25 | 94 |
| \$120,000 or over | 386 | 90 | 77 | 30 | 9 | 10 | 37 | 96 |
| Could not be determined | 2 065 | 58 | 31 | 19 | 6 | 10 | 12 | 65 |
| Equivalised household income | | | | | | | | |
| quintiles(d) | 2 122 | 34 | ^ 7 | 13 | 9 | 15 | 6 | 42 |
| Lowest quintile Second quintile | 2 470 | 46 | 14 | 19 | 9 | 12 | 8 | 53 |
| Third quintile | 2 666 | 64 | 30 | 29 | 10 | 16 | 13 | 74 |
| Fourth quintile | 2 688 | 71 | 44 | 34 | 9 | 18 | 16 | 82 |
| Highest quintile | 2 564 | 83 | 62 | 34 | 9 | 14 | 24 | 91 |
| Labour force status(e) | | | | | | | | |
| Employed | 10 399 | 72 | 46 | 31 | 9 | 16 | 17 | 82 |
| Not employed | 5 890 | 42 | 5 | 17 | 9 | 15 | 8 | 47 |
| Indigenous status | 0 000 | 12 | Ü | | · · | 10 | J | • |
| Non indigenous | 16 128 | 61 | 32 | 26 | 9 | 16 | 14 | 70 |
| Indigenous | ^ 160 | ^43 | ^ 19 | ^ 24 | *7 | *25 | *9 | ^ 59 |
| Country of birth(f) | | | | | | | | |
| Born in Australia | 11 823 | 62 | 33 | 28 | 9 | 17 | 14 | 71 |
| Born overseas | 11 020 | 02 | 00 | 20 | Ü | | | |
| Born in main English-speaking | | | | | | | | |
| countries | 1 678 | 66 | 35 | 26 | ^ 10 | 10 | 17 | 74 |
| Born in other countries | 2 783 | 54 | 24 | 17 | ^ 12 | 15 | 11 | 61 |
| Level of highest educational attainment(g) | | | | | | | | |
| Bachelor degree or above | 3 052 | 83 | 64 | 34 | 15 | 21 | 26 | 92 |
| Advanced diploma or diploma | 1 330 | 76 | 47 | 30 | ^9 | ^ 13 | 17 | 85 |
| Certificate | 2 781 | 59 | 29 | 24 | 8 | 8 | 11 | 69 |
| Year 12 or below | 8 904 | 52 | 19 | 24 | 8 | 17 | 10 | 60 |
| | | | | | | | | |

actimate has a relative standard error of 10% to less than 25% and (d) Excludes those persons where household income could not be should be used with caution

^{*} estimate has a relative standard error of 25% to 50% and should be (e) Labour force survey in the week before the survey. used with caution

⁽a) More than one site may be nominated.

⁽b) Includes government agency/department/shopfront, Internet/cyber cafe, (g) Excludes those who had no educational attendance/attainment and shopping mall, airport or similar.

⁽c) Includes those persons with income less than zero.

⁽f) Excludes persons whose country of birth was not stated and/or inadequately described.

where level could not be determined.

TABLE 3.1: USE OF THE INTERNET(a), Selected Characteristics, by Location of Access -2006-07 continued

Number of persons Neighbour's aged 15 or friend's or relative's years Other Any Work house Library or over Home School location(b) location '000 % % % State/Territory **New South Wales** 5 431 61 31 26 10 17 14 70 Victoria 4 096 61 30 25 15 68 9 13 Queensland 3 165 60 32 26 8 15 13 69 South Australia 1 240 56 31 26 11 15 12 67 1 598 Western Australia ^9 66 32 29 15 17 74 ^ 13 Tasmania 386 55 26 22 ^8 15 65 ^31 ^21 ^ 22 ^ 17 Northern Territory 60 80 114 41 ^ 13 Australian Capital Territory 258 72 51 38 21 Remoteness area Major cities of Australia 10 943 34 27 10 17 15 Inner regional Australia 3 3 7 9 56 27 25 8 65 13 11 Outer regional Australia 1 733 53 25 22 ^8 ^ 13 ^10 62 ^ 58 ^34 ^ 10 ^ 10 ^69 ^ 234 ^ 25 *8 Remote Australia Region 34 10 72 10 531 64 27 17 15 Metropolitan areas Ex-metropolitan areas 5 757 26 24 7 13 11 64 Total 16 288 31 26 16 69

estimate has a relative standard error of 10% to less than 25% and should be used with caution

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

⁽a) More than one site may be nominated.

⁽b) Includes government agency/department/shopfront, Internet/cyber cafe, shopping mall, airport or similar.

SELECTED
CHARACTERISTICS OF
PERSONS NOT USING THE
INTERNET continued

TABLE 3.2: USE OF THE INTERNET, Selected Labour Force Characteristics, by Location of Access—2006-07

| | Number of employed persons | | | |
|--|----------------------------|------|------|----------|
| | aged 15 years | | | Any |
| | or over | Home | Work | location |
| | '000 | % | % | % |
| Occupation(a) | | | | |
| 1 Managers | 1 262 | 76 | 60 | 83 |
| 2 Professionals | 1 872 | 84 | 75 | 94 |
| 3 Technicians and trades workers | 1 236 | 65 | 32 | 73 |
| 4 Community and personal service workers | 704 | 69 | 35 | 79 |
| 5 Clerical and administrative Workers | 1 360 | 76 | 64 | 89 |
| 6 Sales workers | 746 | 74 | 34 | 85 |
| 7 Machinery operators and drivers | 581 | 54 | ^ 17 | 60 |
| 8 Labourers | 920 | 50 | ^ 10 | 57 |
| Industry(b) | | | | |
| 01 Agriculture, forestry and fishing | 285 | 47 | ^ 24 | 53 |
| 02 Mining | ^80 | ^ 79 | ^ 50 | ^87 |
| 03 Manufacturing | 788 | 63 | 38 | 72 |
| 04 Electricity, gas, water and waste services | ^91 | ^ 79 | ^62 | ^ 88 |
| 05 Construction | 754 | 61 | 28 | 66 |
| 06 Wholesale trade | 344 | 69 | 54 | 81 |
| 07 Retail trade | 955 | 72 | 33 | 82 |
| 08 Accommodation and food services | 463 | 62 | ^ 18 | 72 |
| 09 Transport, postal and warehousing | 466 | 62 | ^32 | 71 |
| 10 Information media and telecommunications | 178 | 88 | ^ 70 | 97 |
| 11 Financial and insurance services | 345 | 83 | 72 | 96 |
| 12 Rental, hiring and real estate services | 163 | 83 | ^ 56 | ^91 |
| 13 Professional, scientific and technical services | 651 | 83 | 78 | 95 |
| 14 Administrative and support services | 332 | 64 | ^ 39 | 73 |
| 15 Public administration and safety | 570 | 78 | 71 | 91 |
| 16 Education and training | 668 | 83 | 72 | 92 |
| 17 Health care and social assistance | 991 | 73 | 51 | 82 |
| 18 Arts and recreation services | ^ 169 | ^ 75 | ^ 41 | ^ 79 |
| 19 Other services | 388 | 65 | 38 | 79 |
| Total employed persons | 10 399 | 72 | 46 | 82 |

 $[\]hat{\ }$ estimate has a relative standard error of 10% to less than 25% and should be used with caution

⁽a) Excludes persons whose Occupation was not stated and/or inadequately described.

⁽b) Excludes persons whose Industry was not stated and/or inadequately described.

TABLE 3.3: USE OF THE INTERNET AT HOME(a), Selected Characteristics, by Purpose—2006-07

| | Number of persons aged 15 years or over who used the internet at home | Personal or private purposes | Work or business related purposes | Education or study purposes | Voluntary or community purposes | Other purposes |
|--|---|------------------------------------|--|-----------------------------------|--|-------------------|
| | '000 | % | % | % | % | % |
| Age group (years) 15 - 17 18 - 24 | 745 1 384 | 97 99 | ^ 13 45 | 90 66 | ^8 ^8 | ^8 ^9 |
| 25 - 34 | 2 016 | 99 | 61 | 50 | 10 | 11 |
| 35 - 44 | 2 174 | 97 | 63 | 50 | 13 | 11 |
| 45 - 54 | 1 884 | 97 | 61 | 47 | 14 | 12 |
| 55 - 64 | 1 188 | 98 | 49 | 43 | 13 | ^ 10 |
| 65 or over | 530 | 99 | ^21 | 25 | ^ 14 | ^ 10 |
| Sex | | | | | | |
| Male | 5 029 | 98 | 57 | 53 | 10 | 11 |
| Female | 4 893 | 98 | 47 | 52 | 13 | 10 |
| Personal income | | | | | | |
| \$0 - \$39,999(b) | 5 071 | 98 | 37 | 55 | 12 | 10 |
| \$40,000 - \$79,999 | 2 664 | 98 | 66 | 48 | 11 | 11 |
| \$80,000 - \$119,999 | 646 | 96 | 84 | 52 | ^ 13 | 15 |
| \$120,000 or over | 350 | 97 | 84 | 60 | ^ 15 | ^ 11 |
| Could not be determined | 1 191 | 97 | 59 | 49 | ^ 10 | ^ 11 |
| | 1 101 | 0. | | .0 | 20 | |
| Equivalised household income quintiles(c) | 704 | 00 | 0.7 | 50 | 0.44 | 0.11 |
| Lowest quintile | 731 | 96 | 27 | 58 | ^ 11 | ^ 11 |
| Second quintile | 1 145 | 98 | 36 | 47 | ^ 13 | ^ 12 |
| Third quintile | 1 706 1 898 | 98 98 | 49 56 | 51 51 | 12 12 | ^ 10 10 |
| Fourth quintile Highest quintile | 2 118 | 98 | 71 | 54 | 13 | 10 |
| 5 1 | 2 116 | 96 | 7 1 | 54 | 13 | 12 |
| Labour force status(d) | | | | | | |
| Employed | 7 456 | 98 | 64 | 52 | 11 | 11 |
| Not employed | 2 466 | 98 | 16 | 53 | 12 | 10 |
| Indigenous status | | | | | | |
| Non indigenous | 9 853 | 98 | 52 | 52 | 12 | 10 |
| Indigenous | ^ 69 | ^ 99 | ^ 49 | ^ 69 | *19 | *19 |
| Country of birth(e) Born in Australia | 7 298 | 98 | 52 | 51 | 12 | 10 |
| Born overseas | | | | | | |
| Born in main English-speaking countries | 1 107 | 99 | 55 | 51 | 14 | ^ 12 |
| Other countries | 1 513 | 98 | 49 | 60 | ^9 | ^ 12 |
| Level of highest educational attainment(f) | | | | | | |
| Bachelor degree and above | 2 541 | 98 | 74 | 64 | 17 | 14 |
| Advanced diploma or diploma | 1 008 | 98 | 63 | 55 | ^ 14 | ^ 10 |
| Certificate | 1 639 | 97 | 55 | 45 | ^ 10 | 11 |
| Year 12 or below | 4 632 | 98 | 37 | 49 | 9 | 9 |
| | | | | | | |

[^] estimate has a relative standard error of 10% to less than (d) Labour force status in the week before the survey.

⁽a) More than one purpose may be nominated.

⁽b) Includes those persons with income less than zero.

⁽c) Excludes those households where income could not be determined.

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

(e) Excludes persons whose country of birth was not stated and/or inadequately described.

(f) Excludes those persons who had no educational

attendance/attainment and where level was not determined.

TABLE 3.3: USE OF THE INTERNET AT HOME(a), Selected Characteristics, by Purpose—2006-07 continued

| | Number of | | | | | |
|------------------------------|-------------------------|------------|----------|-----------|-----------------|----------|
| | persons aged | | | | | |
| | 15 years or over who | | Work or | | Valuatoni | |
| | used the | Personal | business | Education | Voluntary or | |
| | internet | or private | related | or study | community | Other |
| | at home | purposes | purposes | purposes | purposes | purposes |
| | at nome | parposes | purposes | purposes | purposes | purposes |
| | '000 | % | % | % | % | % |
| State/Territory | | | | | | |
| New South Wales | 3 332 | 98 | 51 | 56 | 12 | 12 |
| Victoria | 2 479 | 97 | 51 | 50 | 11 | 11 |
| Queensland | 1 908 | 98 | 54 | 51 | 11 | 8 |
| South Australia | 691 | 98 | 52 | 53 | ^ 12 | ^ 10 |
| Western Australia | 1 047 | 98 | 51 | 50 | 12 | ^9 |
| Tasmania | 211 | 99 | 46 | 53 | ^ 14 | ^ 11 |
| Northern Territory | 69 | 97 | ^ 54 | ^ 49 | *10 | ^ 18 |
| Australian Capital Territory | 185 | 98 | 63 | 58 | ^ 15 | ^ 12 |
| Remoteness area | | | | | | |
| Major cities of Australia | 6 991 | 98 | 52 | 54 | 11 | 11 |
| Inner regional Australia | 1 879 | 98 | 51 | 50 | 12 | ^9 |
| Outer regional Australia | 915 | 96 | 51 | 45 | ^ 12 | ^ 13 |
| Remote Australia | ^ 137 | ^ 99 | ^ 59 | ^ 46 | ^ 17 | 7 |
| Region | | | | | | |
| Metropolitan areas | 6 756 | 98 | 53 | 54 | 11 | 11 |
| Ex-metropolitan areas | 3 166 | 98 | 50 | 49 | 12 | 10 |
| Total | 9 922 | 98 | 52 | 53 | 12 | 11 |

^{25%} and should be used with caution

should be used with caution

⁽a) More than one purpose may be nominated.

TABLE 3.4: USE OF THE INTERNET AT HOME, Selected Characteristics, by Main Purpose—2006-07

| | Number of persons aged 15 years or over who used the internet at home | Personal or private purposes | Work or business related purposes | Education or study purposes | Voluntary or community purposes | Other purposes | Could not be determined |
|--|---|------------------------------------|--|-----------------------------------|--|-------------------|-------------------------------|
| | '000 | % | % | % | % | % | % |
| Age group (years) 15 - 17 | 745 | 62 | | 35 | | **1 | *2 |
| 15 - 17 18 - 24 | 1 384 | 62 67 | _ ^5 | 35 27 | _ | *1 | *1 |
| 25 - 34 | 2 016 | 71 | 17 | 10 | **1 | *1 | *1 |
| 35 - 44 | 2 174 | 64 | 24 | ^8 | *1 | ^1 | ^1 |
| 45 - 54 | 1 884 | 65 | 23 | 7 | ^2 | ^1 | *1 |
| 55 - 64 | 1 188 | 69 | 22 | ^5 | ^3 | *1 | *1 |
| 65 or over | 530 | 82 | ^11 | *3 | ^3 | **1 | **1 |
| | 330 | 02 | | 3 | 3 | _ | _ |
| Sex | | | | | | | |
| Male | 5 029 | 66 | 21 | 10 | ^1 | ^1 | ^1 |
| Female | 4 893 | 69 | 13 | 15 | ^2 | ^1 | ^1 |
| Personal income | | | | | | | |
| \$0 - \$39,999(a) | 5 071 | 70 | 9 | 18 | ^1 | ^1 | ^1 |
| \$40,000 - \$79,999 | 2 664 | 71 | 21 | 6 | *1 | *1 | _ |
| \$80,000 - \$119,999 | 646 | 55 | 36 | ^5 | *1 | *2 | **1 |
| \$120,000 or over | 350 | ^ 47 | ^ 44 | *6 | **1 | **1 | _ |
| Could not be determined | 1 191 | 65 | 23 | ^8 | *1 | *1 | *2 |
| Equivalised household income quintiles(b) | | | | | | | |
| Lowest quintile | 731 | 64 | ^ 10 | ^ 22 | *1 | **1 | *2 |
| Second quintile | 1 145 | 71 | ^ 12 | ^14 | ^2 | *1 | *1 |
| Third quintile | 1 706 | 69 | 15 | 12 | ^2 | *1 | *1 |
| Fourth quintile | 1 898 | 69 | 17 | ^12 | *1 | ^1 | _ |
| Highest quintile | 2 118 | 65 | 26 | ^7 | *1 | ^1 | _ |
| 9 1 | 2 110 | 05 | 20 | , | _ | _ | |
| Labour force status(c) | | | | | | | |
| Employed | 7 456 | 66 | 21 | 10 | ^1 | ^1 | ^1 |
| Not employed | 2 466 | 74 | ^ 4 | 18 | ^2 | *1 | ^1 |
| Indigenous status | | | | | | | |
| Non indigenous | 9 853 | 68 | 17 | 12 | ^1 | ^1 | ^1 |
| Indigenous | ^ 69 | ^ 65 | *10 | *23 | _ | **2 | _ |
| Country of birth(d) | | | | | | | |
| Born in Australia | 7 298 | 68 | 17 | 12 | _ | ^1 | ^1 |
| Born overseas | 1 230 | 00 | 11 | 12 | | _ | _ |
| Born in main English-speaking countries | 1 107 | 72 | 19 | ^7 | *1 | *1 | *1 |
| Born in other countries | 1 513 | 65 | ^ 15 | ^ 17 | *1 | *1 | *1 |
| | 1 010 | 00 | | | _ | _ | _ |
| Level of highest educational attainment(e) | | | 0- | | | | |
| Bachelor degree and above | 2 541 | 58 | 26 | 13 | *1 | ^1 | ^1 |
| Advanced diploma or diploma | 1 008 | 67 | 21 | ^8 | ^2 | | *1 |
| Certificate | 1 639 | 72 | 18 | ^7 | *1 | *2 | _ |
| Year 12 or below | 4 632 | 72 | 11 | 15 | ^1 | ^1 | ^1 |

[^] estimate has a relative standard error of 10% to less than 25% and (a) Includes those persons with income less than zero. should be used with caution

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)

⁽b) Excludes those households where income could not be determined.

⁽c) Labour force status in the week before the survey.

⁽d) Excludes persons whose country of birth was not stated and/or inadequately described.

⁽e) Excludes those persons who had no educational attendance/attainment and where level was not determined.

TABLE 3.4: USE OF THE INTERNET AT HOME, Selected Characteristics, by Main Purpose -2006-07 continued

Number of persons aged 15 years or over who Work or Voluntary used the Personal business Education or Could related internet or private or study Other community not be at home purposes purposes purposes purposes purposes determined '000 % % % % State/Territory New South Wales 3 332 66 17 14 ^1 ^1 *1 ^2 18 *1 Victoria 2 479 67 11 *1 Queensland 1 908 70 18 11 *1 ^ 16 *1 ^ 12 69 *1 South Australia 691 *1 Western Australia 1 047 70 16 12 *1 *1 ^ 14 *2 70 13 **1 Tasmania 211 **2 ^ 59 **2 *22 Northern Territory *14 69 **Australian Capital Territory** 185 64 ^ 18 ^ 13 *1 **1 Remoteness area 17 Major cities of Australia 6 991 67 13 ^1 ^1 ^1 ^1 Inner regional Australia 1 879 69 17 11 *1 *1 *2 Outer regional Australia 915 70 18 ^9 *2 ^ 137 ^ 25 **1 ^ 68 *5 **1 Remote Australia Region ^1 ^1 Metropolitan areas 6 756 67 17 13 ^ 1 Ex-metropolitan areas 3 166 70 17 10 ^1 ^1 *1 ^ 1 ^ 1 Total 9 922 68 17 12 *1

estimate has a relative standard error of 10% to less than 25% and should be used with caution

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)

TABLE 3.5: USE OF INTERNET AT HOME(a), Selected Characteristics, by Frequency—2006-07

| | | At least | At least | At least |
|--|------------|----------|-----------|----------|
| | Everyday | weekly | monthly | yearly |
| | % | % | % | % |
| Age group (years) | | | | |
| 15 - 17 | 66 | 30 | *4 | _ |
| 18 - 24 | 58 | 35 | ^ 7 | **1 |
| 25 - 34 | 51 | 42 | ^6 | *1 |
| 35 - 44 | 45 | 45 | ^ 10 | *1 |
| 45 - 54 | 45 | 43 | 10 | ^2 |
| 55 - 64 | 46 | 43 | ^9 | *1 |
| 65 or over | 41 | 43 | ^ 12 | *4 |
| Sex | | | | |
| Male | 53 | 39 | 7 | ^1 |
| Female | 47 | 43 | 9 | ^1 |
| Personal income | | | | |
| \$0 - \$39,999(b) | 52 | 39 | 8 | ^1 |
| \$40,000 - \$79,999 | 47 | 44 | 8 | *1 |
| \$80,000 - \$119,999 | 49 | 42 | ^8 | **1 |
| \$120,000 or over | 53 | ^ 39 | ^7 | **1 |
| Could not be determined | 47 | 42 | ^9 | *2 |
| | | | | |
| Equivalised household income quintiles(c) | 5 4 | 0.0 | ^ ^ | |
| Lowest quintile | 54 | 36 | ^8 | *2 |
| Second quintile | 49 51 | 41 41 | ^9 ^7 | *1 *1 |
| Third quintile Fourth quintile | 49 | 41 | ^8 | ^1 *1 |
| Highest quintile | 50 | 42 | ^7 | *1 |
| | 50 | 42 | 1 | T |
| Labour force status(d) | | | | |
| Employed | 48 | 43 | 8 | ^1 |
| Not employed | 54 | 36 | 8 | ^2 |
| Indigenous status | | | | |
| Non indigenous | 50 | 41 | 8 | ^1 |
| Indigenous | *41 | ^ 48 | *9 | **2 |
| Country of birth(e) | | | | |
| Born in Australia | 48 | 42 | 9 | ^1 |
| Born overseas | 10 | | · · | - |
| Born in main English-speaking countries | 52 | 40 | ^8 | _ |
| Born in other countries | 57 | 36 | ^6 | *1 |
| | - | | - | _ |
| Level of highest educational attainment(f) | | 0.7 | ۸.5 | 4 |
| Bachelor degree and above | 57 47 | 37 | ^5 | *1 |
| Advanced diploma or diploma Certificate | 47 42 | 45 45 | ^8 ^12 | *1 *1 |
| Year 12 or below | 42 49 | 45 41 | 9 | ^1 |
| rear 12 or below | 49 | 41 | 9 | 1 |

[^] estimate has a relative standard error of 10% to less than 25% and should be used with caution

.....

 $^{^{\}star}$ $\,\,$ 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) Excludes don't know category.

⁽b) Includes those persons with income less than zero.

⁽c) Excludes those households where income could not be determined.

⁽d) Labour force status in the week before the survey.

⁽e) Excludes persons whose country of birth was not stated and/or inadequately described.

⁽f) Excludes those persons who had no educational attendance/attainment and where level was not determined.

TABLE 3.5: USE OF INTERNET AT HOME(a), Selected Characteristics, by Frequency—2006-07 continued

At least At least At least Everyday weekly monthly yearly State/Territory New South Wales 51 40 ^ 7 Victoria ^2 50 41 Queensland 51 41 8 ^9 South Australia 43 45 ^2 40 Western Australia 50 10 *1 ^9 43 46 Tasmania ^ 42 ^ 46 Northern Territory *12 Australian Capital Territory 53 41 ^6 Remoteness area Major cities of Australia 53 39 7 ^1 *1 Inner regional Australia 44 44 10 Outer regional Australia 38 ^ 15 *1 46 ^ 50 **1 Remote Australia ^ 41 *8 Region Metropolitan areas 52 40 7 ^ 1 Ex-metropolitan areas 44 43 12 ^1 ^ 1 Total 41

[^] estimate has a relative standard error of 10% to less than 25% and should be used with caution

^{*} 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) Excludes don't know category.

Did not use internet

TABLE 3.6: USE OF THE INTERNET TO PURCHASE OR ORDER GOODS OR SERVICES, for Private Purposes, in the last Twelve Months, Selected Characteristics—2006-07

Persons who accessed Used the internet to to purchase goods the internet at any site purchase goods or services or services '000 % % Age group (years) 15 - 17 834 34 66 18 - 24 1691 61 39 25 - 34 2 392 29 71 35 - 44 2 405 34 66 45 - 54 2 082 37 63 55 - 64 1 327 58 42 65 or over 582 42 58 Sex Male 5 700 62 38 Female 5 612 40 60 Personal income \$0 - \$39,999(a) 5 812 53 47 \$40,000 - \$79,999 3 091 70 30 \$80,000 - \$119,999 702 80 ^20 \$120,000 or over 372 83 ^ 17 Could not be determined 1 335 61 39 Equivalised household income(b) Lowest quintile 888 38 62 Second quintile 1 317 50 50 Third quintile 1 971 58 42 Fourth quintile 2 192 66 34 Highest quintile 2 342 76 24 Labour force status(c) Employed 33 8 531 67 2 781 Not employed 45 55 Indigenous status 11 218 61 39 Non indigenous Indigenous ^94 ^ 44 ^ 56 Country of Birth(d) Born in Australia 8 390 62 38 Born overseas Born in main English-speaking countries 1 235 68 32 Born in other countries 1 684 51 49 Level of highest educational(e) Bachelor degree and above 2 815 75 25 Advanced diploma or diploma 1 133 31 69 Certificate 1 909 59 41

Year 12 or below

New South Wales

State/Territory

Victoria

Queensland

Tasmania

South Australia

Western Australia

Northern Territory

Australian Capital Territory

53

60

63

58

58

68

66

73

47

39

40

37

42

42

32

^34

27

5 3 3 7

3 777

2 786

2 175

1 185

249

214

91

835

estimate has a relative standard error of 10% to less than 25% and should be used with caution

⁽a) Includes those persons with income less than zero.

⁽b) Excludes those households where income could not be determined

⁽c) Labour force status in the week before the survey.

Excludes persons whose country of birth was not stated and/or inadequately described.

 ⁽e) Excludes those persons who had no educational attendance/attainment and where level was not determined.

TABLE 3.6: USE OF THE INTERNET TO PURCHASE OR ORDER GOODS OR SERVICES, for Private Purposes, in the last Twelve Months, Selected Characteristics—2006-07 continued

Purposes, in the last Twelve Months, Selected Characteristics—2006-07 continued

| | Persons who accessed the internet at any site | Used the internet to purchase goods or services | Did not use internet to purchase goods or services |
|---------------------------|---|---|--|
| | '000 | % | % |
| Remoteness area | | | |
| Major cities of Australia | 7 860 | 62 | 38 |
| Inner regional Australia | 2 212 | 59 | 41 |
| Outer regional Australia | 1 080 | 59 | 41 |
| Remote Australia | ^ 160 | ^63 | ^37 |
| Region | | | |
| Metropolitan areas | 7 611 | 62 | 38 |
| Ex-metropolitan areas | 3 702 | 59 | 41 |
| Total | 11 312 | 61 | 39 |

 $[\]hat{\ }$ estimate has a relative standard error of 10% to less than 25% and should be used with caution

TABLE 3.7: MAIN REASON FOR NOT USING THE INTERNET TO PURCHASE OR ORDER GOODS OR SERVICES (a), for Private Purposes, in the Last Tweleve Months, Selected Characteristics —2006-07

Did not Does use Internet to Prefer not purchase Have to Privacy have goods or no shop in Security or trust credit Other services need person concern concern card reason(b) '000 % % % % Age group (years) ^ 15 ^ 7 ^8 15 - 17 *3 1 206 35 31 ^ 7 ^ 7 25 - 44 1 513 34 21 24 ^ 7 ^3 45 - 64 ^ 10 ^8 1 335 33 20 27 ^ 25 65 or over 336 38 ^ 19 ^9 *1 *8 Sex Male 2 163 38 19 18 ^6 12 ^ 7 ^ 7 ^8 Female 2 2 2 8 31 20 22 12 Personal income \$0 - \$39,999(c) 2 735 32 18 18 6 17 9 \$40,000 - \$79,999 ^ 7 927 36 23 24 ^3 ^ 7 \$80.000 - \$119,999 **5 ^ 141 ^ 28 ^ 33 *24 *10 \$120,000 or over ^63 ^ 40 **12 *27 **6 **7 *7 41 ^20 ^ 22 ^ 7 ^6 *3 Could not be determined 524 Equivalised household income quintiles(d) ^ 15 ^ 13 ^8 ^ 18 ^8 Lowest quintile 546 38 Second quintile 653 31 ^ 17 ^ 20 ^8 ^ 15 ^9 ^ 19 ^ 20 ^5 ^ 12 ^8 Third quintile 837 35 ^ 22 ^5 Fourth quintile 740 34 ^ 20 ^11 ^8 Highest quintile 552 32 ^ 22 ^ 22 ^ 7 ^ 7 ^9 Labour force status(e) ^8 Employed ^ 7 2 855 35 20 22 9 Not employed 1 535 18 7 ^ 17 34 16 ^8 Country of birth(f) Born in Australia 3 170 33 19 19 6 14 9 ^8 Born overseas 1 220 37 20 22 ^8 ^5 Level of highest educational attainment(g) ^ 26 ^5 ^ 4 ^6 Bachelor degree and above 717 37 23 ^ 28 Advanced diploma or diploma ^21 ^ 27 *9 *7 *8 346 ^8 ^ 7 ^ 7 Certificate 781 32 ^ 20 25

35

17

2 501

Year 12 or below

6

17

8

17

estimate has a relative standard error of 10% to less than 25% and should be used with caution

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) A narrower range of characteristics are presented in this table to present estimates with moderate RSEs.

⁽b) Includes the response options of could not afford it, does not know how to and other.

⁽c) Includes those persons with income less than zero.

 ⁽d) Excludes those households where income could not be determined.

⁽e) Labour force status in the week before the survey.

Excludes persons whose country of birth was not stated and/or inadequately described.

⁽g) Excludes those persons who had no educational attendance/attainment and where level was not determined.

TABLE 3.7: MAIN REASON FOR NOT USING THE INTERNET TO PURCHASE OR ORDER GOODS OR SERVICES (a), for Private Purposes, in the Last Tweleve Months, Selected Characteristics —2006-

07 continued

| | Did not use Internet to purchase goods or services | Have no need | Prefer to shop in person | Security concern | Privacy or trust concern | Does not have credit card | Other reason(b) |
|------------------------------|---|--------------------|-----------------------------------|---------------------|--------------------------------|---------------------------------------|--------------------|
| | '000 | % | % | % | % | % | % |
| State/Territory | | | | | | | |
| New South Wales | 1 454 | 36 | 19 | 17 | ^ 7 | ^ 10 | ^ 10 |
| Victoria | 1 106 | 40 | 19 | ^ 17 | ^6 | ^ 13 | ^6 |
| Queensland | 810 | 28 | ^ 21 | ^ 23 | ^6 | ^ 16 | ^ 7 |
| South Australia | 352 | 33 | ^ 19 | ^ 26 | ^8 | ^ 7 | ^ 7 |
| Western Australia | 500 | 28 | 19 | 26 | ^9 | ^ 12 | ^ 7 |
| Tasmania | 78 | ^ 38 | *16 | ^ 14 | *8 | ^ 15 | ^ 7 |
| Northern Territory | ^31 | *31 | *14 | *11 | **4 | *38 | **3 |
| Australian Capital Territory | 59 | ^ 33 | ^ 17 | ^ 24 | *3 | *14 | *10 |
| Region | | | | | | | |
| Metropolitan areas | 2 888 | 34 | 20 | 20 | 7 | 12 | 7 |
| Ex-metropolitan areas | 1 503 | 35 | 18 | 19 | ^7 | ^ 12 | ^9 |
| Total | 4 390 | 34 | 19 | 20 | 7 | 12 | 8 |

[^] estimate has a relative standard error of 10% to less than 25% and should be used with caution

 $^{^{\}star}$ estimate has a relative standard error of 25% to 50% and should be used with caution

 $^{^{\}star\star}$ $\,\,$ estimate has a relative standard error greater than 50% and is considered too unreliable for general use

⁽a) A narrower range of characteristics are presented in this table to present estimates with moderate RSEs.

⁽b) Includes the response options of could not afford it, does not know how to and other.

TABLE 3.8: SELECTED CHARACTERISTICS OF PERSONS NOT USING THE INTERNET, by Location of Access—2006-07

| | Number of persons | | | |
|--|--------------------------|----------|-----------|--------------|
| | aged 15 years or over | Home | Work | Any location |
| | '000 | % | % | % |
| Age group (years) | | | | |
| 15 -17 | 903 | ^ 18 | 93 | 8 |
| 18 - 24 | 1 881 | 26 | 68 | 10 |
| 25 - 34 | 2 809 | 28 | 52 | 15 |
| 35 - 44 | 2 994 | 27 | 58 | 20 |
| 45 - 54 55 - 64 | 2 832 | 33 | 59 | 26 |
| 55 - 64 65 or over | 2 292 2 577 | 48 79 | 73 96 | 42 77 |
| | 2 311 | 19 | 90 | 11 |
| Sex | 0.000 | 27 | 67 | 00 |
| Male | 8 038 | 37 | 67 | 29 |
| Female | 8 250 | 41 | 70 | 32 |
| Personal income | 0.400 | 40 | | |
| \$0 - \$39,999(a) | 9 436 | 46 | 83 | 38 |
| \$40,000 - \$79,999 | 3 652 | 27 | 45 | 15 |
| \$80,000 - \$119,999 | 749 | ^ 14 | 29 | ^6 |
| \$120,000 or over Could not be determined | 386 2 065 | ^ 10 | ^ 23 | *4 |
| | 2 065 | 42 | 69 | 35 |
| Equivalised household income quintiles(b) | 0.400 | | | |
| Lowest quintile | 2 122 | 66 | 93 | 58 |
| Second quintile | 2 470 | 54 | 86 | 47 |
| Third quintile | 2 666 | 36 | 70 F.G | 26 |
| Fourth quintile Highest quintile | 2 688 2 564 | 29 17 | 56 38 | 18 9 |
| 5 | 2 304 | 11 | 36 | 9 |
| Labour force status(c) | 40.000 | | | 4.0 |
| Employed | 10 399 | 28 | 54 | 18 |
| Not employed | 5 890 | 58 | 95 | 53 |
| Indigenous status | | | | |
| Non Indigenous | 16 128 | 39 | 68 | 30 |
| Indigenous | ^ 160 | ^ 57 | ^ 81 | ^ 41 |
| Country of birth(d) | | | | |
| Born in Australia | 11 823 | 38 | 67 | 29 |
| Born overseas | | | | |
| Born in main English-speaking country | 1 678 | 34 | 65 | 26 |
| Born in other countries | 2 783 | 46 | 76 | 39 |
| Level of highest educational attainment(e) | | | | |
| Bachelor degree and above | 3 052 | 17 | 36 | 8 |
| Advanced diploma or diploma | 1 330 | 24 | 53 | ^ 15 |
| Certificate | 2 781 | 41 | 71 | 31 |
| Year 12 or below | 8 904 | 48 | 81 | 40 |
| State/Territory | | | | |
| New South Wales | 5 431 | 39 | 69 | 30 |
| Victoria | 4 096 | 39 | 70 | 32 |
| Queensland | 3 165 | 40 | 68 | 31 |
| South Australia | 1 240 | 44 | 69 | 33 |
| Western Australia | 1 598 | 34 | 68 | 26 |
| Tasmania | 386 | 45 | 74 FO | 35 |
| Northern Territory Australian Capital Territory | 114 | ^ 40 | 59 49 | ^ 20 |
| Australian Capital Territory | 258 | 28 | 49 | 17 |
| | | | | |

[^] estimate has a relative standard error of 10% to less than 25% and should be used with caution

 $^{^{\}star}$ $\,\,$ estimate has a relative standard error of 25% to 50% and should be used with caution

⁽a) Includes those persons with income less than zero.

⁽b) Excludes those households where income could not be determined.

⁽c) Labour force status in the week before the survey.

⁽d) Excludes persons whose country of birth was not stated and/or inadequately described.

⁽e) Excludes those persons who had no educational attendance/attainment and where level was not determined.

TABLE 3.8: SELECTED CHARACTERISTICS OF PERSONS NOT USING THE INTERNET, by Location of Access— $2006-07\ continued$

| | Number of persons aged 15 years or over | Home | Work | Any location |
|-------------------------------------|---|------|------|--------------|
| | '000 | % | % | % |
| Remoteness area | | | | |
| Major cities of Australia | 10 943 | 36 | 66 | 28 |
| Inner regional Australia | 3 379 | 44 | 73 | 35 |
| Outer regional Australia | 1 733 | 47 | 75 | 38 |
| Remote Australia | ^ 234 | ^ 42 | ^ 66 | ^31 |
| Regions | | | | |
| Metropolitan areas | 10 531 | 36 | 66 | 28 |
| Ex-metropolitan areas | 5 757 | 45 | 74 | 36 |
| Total persons aged 15 years or over | 16 288 | 39 | 69 | 31 |

 $[\]hat{\ }$ estimate has a relative standard error of 10% to less than 25% and should be used with caution

CHAPTER 4

TYPE OF INTERNET CONNECTION AND TYPE OF TECHNOLOGY USED FOR BROADBAND INTERNET ACCESS

TYPE OF HOUSEHOLD INTERNET CONNECTION

During 2006-07, the number of households with Broadband access increased by 52% from the previous year to an estimated 3.5 million, or 43% of all households within the scope of the MPHS. This means 69% of those households with Internet access have Broadband, an increase of 21 percentage points since 2005-06. The proportion of households with dial-up Internet access decreased from 51% to 32% during this twelve-month period.

FIGURE 4.1: HOUSEHOLDS WITH ACCESS TO A DIAL-UP OR BROADBAND INTERNET CONNECTION, 2004-05 to 2006-07

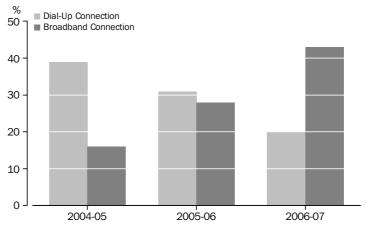
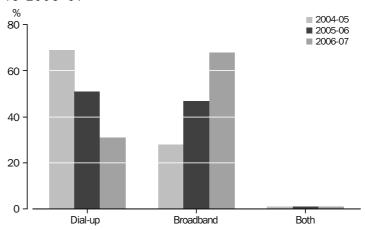


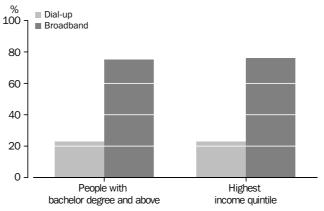
FIGURE 4.2: TYPE OF HOUSEHOLD INTERNET CONNECTION-2004-05 TO 2006-07



TYPE OF PERSONAL INTERNET ACCESS

The majority of people (73%) accessing the Internet at home used a Broadband connection. Higher income earners, people with higher levels of educational attainment and younger people (15 to 24 years) registered relatively higher levels of Broadband access.

FIGURE 4.3: DIAL-UP OR BROADBAND INTERNET CONNECTION, by selected characteristics $\!-\!2006\!-\!07$

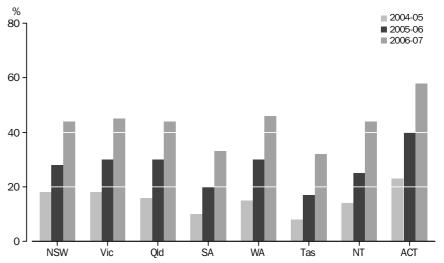


In 2006-07, persons with an Internet connection employed in the industries of Electricity, gas, water and water services (82%), Professional, scientific and technical services (81%) and Financial and insurance services (79%) were most likely to have a Broadband Internet connection at home. On the other hand, during 2006-07 only 38% of those with an Internet connection at home employed in the Agriculture, forestry and fishing industry had a Broadband connection.

BROADBAND ACCESS BY STATE/TERRITORY AND REGION The Australian Capital Territory continued to register the highest proportion of households with a Broadband Internet connection (58% of all households), while Tasmania and South Australia recorded the lowest proportion of all households with a Broadband Internet connection (32% and 33% respectively) as well as the lowest proportion of households with Internet access having a Broadband connection (57% in both cases).

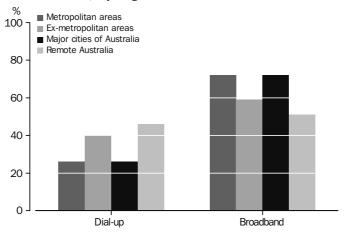
BROADBAND ACCESS BY STATE/TERRITORY AND REGION continued

FIGURE 4.4: PERCENTAGE OF ALL HOUSEHOLDS WITH ACCESS TO A BROADBAND INTERNET CONNECTION, by state and territory -2004-05 to 2006-07



Both household and personal access to Broadband was more prevalent in metropolitan areas and major cities of Australia compared to ex-metropolitan areas and remote Australia.

FIGURE 4.5: DIAL-UP OR BROADBAND INTERNET ACCESS FOR HOUSEHOLDS, by region and remoteness area-2006-07

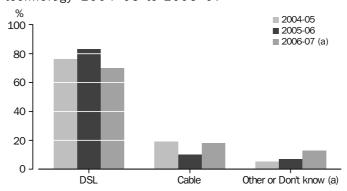


TYPE OF TECHNOLOGY
USED FOR HOUSEHOLD
BROADBAND CONNECTION

In 2006-07, the dominant type of technology that households used for Broadband connection to the Internet was Digital Subscriber Line (DSL), although the percentage of households using this type of technology has decreased by 13 percentage points. Offsetting this decrease, during 2006-07, there has been a 8 percentage points increase in cable connections, as well as a doubling in the take-up of other technologies (largely driven by wireless technologies). In 2006-07, there was a significant lack of awareness of the type of Broadband technologies being used (10%), which could have arisen from the adoption of emerging technologies.

TYPE OF TECHNOLOGY
USED FOR HOUSEHOLD
BROADBAND CONNECTION
continued

FIGURE 4.6: BROADBAND INTERNET ACCESS, by type of technology-2004-05 to 2006-07



(a) Other or Don't know category in 2006-07 mainly comprises Don't know (10% of households with a broadband internet connection) and Wireless, Mobile Broadband or Satellite Connection (2% of households with an internet connection).

TYPE OF TECHNOLOGY USED FOR HOUSEHOLD BROADBAND CONNECTION continued

TABLE 4.1: HOUSEHOLDS WITH DIAL-UP OR BROADBAND INTERNET ACCESS, Selected Characteristics—2004-05 to 2006-07

| | DIAL-UP | | | BROADBA | ND | |
|--|--|---|------------------------------------|----------------------------------|-----------------------------------|---|
| | 2004-05 | 2005-06 | 2006-07 | 2004-05 | 2005-06 | 2006-07 |
| NUMBE | R OF HO | OUSEHO | LDS ('0 | 00) | • • • • • • | • • • • • |
| Households | | | | | | |
| Without children under 15 | 1 955 | 1 594 | 1 089 | 784 | 1 416 | 2 241 |
| With children under 15 | 1 119 | 840 | 506 | 495 | 835 | 1 265 |
| State/Territory | | | | | | |
| New South Wales | 978 | 805 | 535 | 463 | 746 | 1 166 |
| Victoria | 734 | 560 | 342 | 340 | 591 | 895 |
| Queensland | 619 | 479 | 323 | 239 | 452 | 693 |
| South Australia | 253 | 224 | 156 | 66 | 128 | 212 |
| Western Australia | 331 | 244 | 158 | 119 | 236 | 374 |
| Tasmania | 79 | 65 | 47 | ^ 15 | 35 | 64 |
| Northern Territory | 25 | ^ 20 | ^ 15 | ^8 | ^ 15 | 27 |
| Australian Capital Territory | 55 | 39 | ^ 20 | 28 | 49 | 75 |
| Region | | | | | | |
| Metropolitan areas | 1 909 | 1 456 | 912 | 1 008 | 1 696 | 2 504 |
| Ex-metropolitan areas | 1 165 | 979 | 684 | 271 | 555 | 1 002 |
| Total haveshalds with Dial un | | | | | | |
| Total households with Dial-up or Broadband access | 3 074 | 2 435 | 1 596 | 1 278 | 2 251 | 3 506 |
| Total households in Australia | 7 847 | 7 945 | 8 071 | 7 847 | 7 945 | 8 071 |
| | | | | | | |
| PROPORTI | ON OF A | ALL HOU | JSEHOLD | OS (%) | | |
| Households | | | | | | |
| Without children under 15 | 35 | 28 | 19 | 14 | 25 | 38 |
| With children under 15 | 50 | 38 | 23 | 22 | 38 | 57 |
| | | 00 | | | | 0. |
| State/Territory | 20 | 24 | 00 | 40 | 00 | 4 |
| New South Wales | 38 38 | 31 | 20 17 | 18 18 | 28 | 42 45 |
| Victoria | 38 40 | 28 31 | 21 | | 30 | 40 |
| Queensland | | | 21 | 16 | 30 | 4 |
| Courth Australia | | | 24 | 10 | 20 | • |
| South Australia | 39 | 35 | 24 | 10 | 20 | 33 |
| Western Australia | 39 42 | 35 31 | 20 | 15 | 30 | 33 46 |
| Western Australia Tasmania | 39 42 40 | 35 31 32 | 20 24 | 15 ^ 8 | 30 17 | 33 46 32 |
| Western Australia Tasmania Northern Territory | 39 42 40 45 | 35 31 32 ^35 | 20 24 ^ 24 | 15 ^8 ^14 | 30 17 ^25 | 33 46 32 44 |
| Western Australia Tasmania Northern Territory Australian Capital Territory | 39 42 40 | 35 31 32 | 20 24 | 15 ^ 8 | 30 17 | 33 46 32 44 |
| Western Australia Tasmania Northern Territory Australian Capital Territory Region | 39 42 40 45 44 | 35 31 32 ^35 32 | 20 24 ^ 24 ^ 15 | 15 ^8 ^14 23 | 30 17 ^25 40 | 33 46 32 44 58 |
| Western Australia Tasmania Northern Territory Australian Capital Territory Region Metropolitan areas | 39 42 40 45 44 | 35 31 32 ^35 32 | 20 24 ^24 ^15 | 15 ^8 ^14 23 | 30 17 ^25 40 | 33 46 32 44 58 |
| Western Australia Tasmania Northern Territory Australian Capital Territory Region | 39 42 40 45 44 | 35 31 32 ^35 32 | 20 24 ^ 24 ^ 15 | 15 ^8 ^14 23 | 30 17 ^25 40 | 33 46 32 44 58 |
| Western Australia Tasmania Northern Territory Australian Capital Territory Region Metropolitan areas Ex-metropolitan areas Total households with Dial-up | 39 42 40 45 44 38 41 | 35 31 32 ^35 32 29 34 | 20 24 ^24 ^15 18 23 | 15 ^8 ^14 23 20 9 | 30 17 ^25 40 34 19 | 33 46 32 44 58 |
| Western Australia Tasmania Northern Territory Australian Capital Territory Region Metropolitan areas Ex-metropolitan areas | 39 42 40 45 44 | 35 31 32 ^35 32 | 20 24 ^24 ^15 | 15 ^8 ^14 23 | 30 17 ^25 40 | 444 33 46 32 44 58 49 34 |

[^] estimate has a relative standard error of 10% to less than 25% and should be used with caution

TABLE 4.2: HOUSEHOLD INTERNET CONNECTION, Selected Characteristics, by Type of Access—2006-07

| | Number of households accessing the Internet at home | Dial Up | Broadband | Both | Don't know |
|---|---|--------------|-----------|------------|------------|
| | the internet at nome | ыаг ор | ыоаирани | Dour | DOITE KNOW |
| III. and also | '000 | % | % | % | % |
| Households Without children under 15 | 3 356 | 32 | 66 | ^1 | ^1 |
| With children under 15 | 1 782 | 28 | 71 | _ | ^1 |
| | 1102 | 20 | 7 1 | | _ |
| Equivalised household income \$0 - \$39,999(a) | 1 884 | 37 | 62 | _ | ^1 |
| \$40,000 - \$79,999 | 1 561 | 30 | 69 | | ^1 |
| \$80,000 - \$119,999 | 397 | 24 | 75 | *1 | **1 |
| \$120,000 or over | 168 | ^ 18 | 81 | **1 | _ |
| Could not be determined | 1 128 | 26 | 71 | *1 | ^3 |
| Household income | | | | | |
| \$0 - \$39,999(a) | 921 | 42 | 56 | *1 | ^ 1 |
| \$40,000 - \$79,999 | 1 304 | 34 | 65 | _ | ^1 |
| \$80,000 - \$119,999 | 921 | 28 | 70 | *1 | *1 |
| \$120,000 or over | 865 | 21 | 78 | *1 | _ |
| Could not be determined | 1 128 | 26 | 71 | *1 | ^3 |
| Equivalised household income quintiles(b) | | | | | |
| Lowest quintile | 419 | 41 | 56 | **1 | *2 |
| Second quintile | 666 | 38 | 61 | *1 | *1 |
| Third quintile | 864 | 32 | 67 | _ | *1 |
| Fourth quintile | 968 | 31 | 68 | _ | *1 |
| Highest quintile | 1 093 | 25 | 74 | *1 | *1 |
| State/Territory | | | | | |
| New South Wales | 1 712 | 31 | 68 | *1 | ^1 |
| Victoria | 1 253 | 27 | 71 | _ | ^2 |
| Queensland | 1 020 | 31 | 67 | *1 | ^1 |
| South Australia | 369 | 42 | 57 | *1 | *1 |
| Western Australia | 536 | 29 | 69 | _ | *1 |
| Tasmania | 112 | 42 | 57 | | *1 |
| Northern Territory | 41 95 | ^ 34 ^ 20 | 65 | **1 **1 | - *1 |
| Australian Capital Territory | 95 | 20 | 78 | ^^1 | ^1 |
| Remoteness area | | | | | |
| Major cities of Australia | 3 576 | 26 | 72 | | ^1 |
| Inner regional Australia | 999 | 38 | 60 | *1 | *1 |
| Outer regional Australia Remote Australia | 493 ^ 70 | 46 | 53 ^51 | **2 | *1 **1 |
| Remote Australia | 70 | ^ 46 | 51 | ^^2 | ^^1 |
| Region | | | | | |
| Metropolitan areas | 3 448 | 26 | 72 | ^1 | ^1 |
| Ex-metropolitan areas | 1 691 | 40 | 59 | *1 | ^1 |
| Total | 5 138 | 31 | 68 | ^1 | ^ 1 |

estimate has a relative standard error of 10% to less than 25% and should be used with caution
 estimate has a relative standard error of 25% to 50% and
 includes those households with income less than zero.
 Excludes those households where income could not be

^{*} 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

TABLE 4.3: PERSONAL USE OF THE INTERNET, Selected Characteristics, by Type of Access—2006-

| | Number of persons accessing | | | | |
|--|-----------------------------|---------|-----------|------|------------|
| | the internet at home | Dial Up | Broadband | Both | Don't know |
| | '000 | % | % | % | % |
| Age group (years) | | | | | |
| 15 - 17 | 745 | ^ 20 | 79 | _ | **1 |
| 18 - 24 | 1 384 | 23 | 75 | *1 | *1 |
| 25 - 34 | 2 016 | 26 | 73 | *1 | *1 |
| 35 -44 | 2 174 | 28 | 72 | _ | _ |
| 45 - 54 | 1 884 | 27 | 72 | _ | _ |
| 55 - 64 | 1 188 | 31 | 68 | *1 | _ |
| 65 or over | 530 | 42 | 55 | *1 | *2 |
| Sex | | | | | |
| Male | 5 029 | 25 | 73 | *1 | *1 |
| Female | 4 893 | 29 | 70 | ^1 | *1 |
| Personal income | | | | | |
| \$0 - \$39,999(a) | 5 071 | 29 | 70 | _ | *1 |
| \$40,000 - \$79,999 | 2 664 | 26 | 73 | *1 | _ |
| \$80,000 - \$119,999 | 646 | 25 | 75 | _ | _ |
| \$120,000 or over | 350 | 16 | 82 | **1 | _ |
| Could not be determined | 1 191 | 28 | 71 | *1 | *1 |
| Equivalised household income(b) | | | | | |
| Lowest quintile | 731 | 37 | 61 | **1 | **1 |
| Second quintile | 1 145 | 34 | 65 | *1 | _ |
| Third quintile | 1 706 | 28 | 71 | _ | *1 |
| Fourth quintile | 1 898 | 27 | 72 | _ | _ |
| Highest quintile | 2 118 | 23 | 76 | *1 | _ |
| Labour force status(c) | | | | | |
| Employed | 7 456 | 26 | 73 | ^1 | _ |
| Not employed | 2 466 | 31 | 67 | *1 | ^1 |
| | 2 400 | 01 | 01 | _ | _ |
| Indigenous status | 0.050 | | 70 | | |
| Non Indigenous | 9 853 | 27 | 72 | ^1 | ^1 |
| Indigenous | ^69 | *32 | ^ 67 | _ | _ |
| Country of birth(d) | | | | | |
| Born in Australia | 7 298 | 28 | 71 | ^1 | _ |
| Born overseas | | | | | |
| Born in main English-speaking countries | 1 107 | 26 | 73 | _ | *1 |
| Born in other countries | 1 513 | 25 | 73 | *1 | *1 |
| Level of highest educational attainment(e) | | | | | |
| Bachelor degree and above | 2 541 | 23 | 75 | *1 | _ |
| Advanced diploma or diploma | 1 008 | 26 | 73 | *1 | _ |
| Certificate | 1 639 | 32 | 67 | *1 | _ |
| Year 12 or below | 4 632 | 28 | 71 | _ | ^1 |
| State/Territory | | | | | |
| New South Wales | 3 332 | 27 | 72 | _ | *1 |
| Victoria | 2 479 | 24 | 75 | *1 | *1 |
| Queensland | 1 908 | 27 | 72 | *1 | _ |
| South Australia | 691 | 37 | 62 | **1 | _ |
| Western Australia | 1 047 | 27 | 72 | _ | *1 |
| Tasmania | 211 | 38 | 61 | _ | _ |
| Northern Territory | 69 | ^ 34 | ^ 65 | **1 | _ |
| Australian Capital Territory | 185 | ^ 16 | 83 | **1 | **1 |
| • | | | | | |

[^] estimate has a relative standard error of 10% to less than 25% (b) Excludes those households where income could not be

and should be used with caution determined.

* estimate has a relative standard error of 25% to 50% and should be used with caution (d) Excludes persons whose country of birth was not stated and/or estimate has a relative standard error greater than 50% and is considered too unreliable for general use (e) Excludes those persons who had no educational

nil or rounded to zero (including null cells)

⁽a) Includes those persons with income less than zero.

determined.

attendance/attainment and where level was not determined.

TABLE 4.3: PERSONAL USE OF THE INTERNET, Selected Characteristics, by Type of Access—2006-07 continued

| | Number of persons accessing the internet at home | Dial Up | Broadband | Both | Don't know |
|---------------------------|--|---------|-----------|------|------------|
| | '000 | % | % | % | % |
| Remoteness area | | | | | |
| Major cities of Australia | 6 991 | 22 | 76 | ^1 | *1 |
| Inner regional Australia | 1 879 | 36 | 63 | *1 | *1 |
| Outer regional Australia | 915 | 41 | 58 | _ | _ |
| Remote Australia | ^ 137 | ^ 46 | ^ 53 | **1 | **1 |
| Region | | | | | |
| Metropolitan areas | 6 756 | 23 | 76 | ^1 | *1 |
| Ex-metropolitan areas | 3 166 | 37 | 62 | *1 | _ |
| Total | 9 922 | 27 | 72 | ^1 | ^1 |

estimate has a relative standard error of 10% to less than 25% and should be used with caution
 estimate has a relative standard error greater than 50% and is considered too unreliable for general use
 estimate has a relative standard error of 25% to 50% and
 mil or rounded to zero (including null cells)

should be used with caution

TABLE 4.4: PERSONAL USE OF THE INTERNET, Selected Labour Force Characteristics, by Type of Access—2006-07

| | Number of employed persons accessing the internet at home | Dial Up | Broadband | Both | Don't know |
|--|---|---------|-----------|------|------------|
| | '000 | % | % | % | % |
| Occupation(a) | 000 | 70 | 70 | 70 | 70 |
| 1 Managers | 960 | 24 | 74 | *1 | *1 |
| 2 Professionals | 1 570 | 23 | 76 | _ | _ |
| 3 Technicians and trades workers | 799 | 27 | 73 | _ | _ |
| 4 Community and personal service workers | 485 | 26 | 74 | _ | _ |
| 5 Clerical and administrative workers | 1 028 | 28 | 72 | _ | _ |
| 6 Sales workers | 549 | ^ 26 | 73 | _ | **1 |
| 7 Machinery operators and drivers | 315 | ^30 | 70 | _ | _ |
| 8 Labourers | 459 | 31 | 68 | _ | **1 |
| | | | | | |
| Industry(b) | 0.404 | ^ 00 | A 00 | | ata ata 4 |
| 01 Agriculture, forestry and fishing | ^ 134 | ^ 60 | ^ 38 | **1 | **1 |
| 02 Mining | ^64 | ^ 38 | ^ 62 | _ | _ |
| 03 Manufacturing | 500 | 29 | 71 | _ | |
| 04 Electricity, gas, water and waste services | ^72 | *17 | ^ 81 | **1 | **1 |
| 05 Construction | 463 | ^ 26 | 73 | _ | _ |
| 06 Wholesale trade | 236 | ^ 24 | ^ 74 | **2 | _ |
| 07 Retail trade | 687 | ^ 23 | 76 | **1 | **1 |
| 08 Accommodation and food services | 287 | ^ 27 | ^ 73 | _ | **1 |
| 09 Transport, postal and warehousing | 290 | ^ 25 | ^ 74 | _ | _ |
| 10 Information media and telecommunications | 157 | ^31 | ^ 69 | _ | _ |
| 11 Financial and insurance services | 288 | ^ 20 | 79 | _ | **1 |
| 12 Rental, hiring and real estate services | ^ 135 | *29 | ^ 70 | _ | **1 |
| 13 Professional, scientific and technical services | 539 | ^ 18 | 80 | *1 | _ |
| 14 Administrative and support services | ^ 211 | ^ 24 | ^ 76 | _ | _ |
| 15 Public administration and safety | 447 | ^ 26 | 73 | **1 | _ |
| 16 Education and training | 552 | 32 | 67 | _ | _ |
| 17 Health care and social assistance | 724 | 25 | 74 | _ | _ |
| 18 Arts and recreation services | ^ 127 | ^ 24 | ^ 76 | _ | _ |
| 19 Other services | 252 | ^21 | 78 | _ | **1 |
| Total employed persons | 7 456 | 26 | 73 | ^ 1 | _ |

[^] estimate has a relative standard error of 10% to less than 25% and — nil or rounded to zero (including null cells) should be used with caution

^{*} estimate has a relative standard error of 25% to 50% and should be

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

⁽a) Excludes persons whose occupation was not stated and/or inadequately described.

⁽b) Excludes persons whose Industry was not stated and/or inadequately described.

TABLE 4.5: HOUSEHOLD INTERNET ACCESS, Selected Characteristics, by Type of Broadband -2006-07

| | Number of households with Broadband Internet access at home | Digital Subscriber Line | Cable % | Other/Don't know(a) |
|--|---|-------------------------------|------------|------------------------|
| Households | .000 | % | % | % |
| Without children under 15 | 2 241 | 68 | 18 | 14 |
| With children under 15 | 1 265 | 72 | 16 | 12 |
| Equivalised household income | | | | |
| \$0 - \$39,999(b) | 1 175 | 71 | 17 | 12 |
| \$40,000 - \$79,999 \$80,000 - \$119,999 | 1 088 301 | 72 71 | 17 ^ 18 | 11 ^ 11 |
| \$120,000 - \$119,999 \$120,000 or over | 138 | 71 71 | ^ 22 | ^8 |
| Could not be determined | 804 | 62 | 20 | 18 |
| | 001 | 02 | 20 | 10 |
| Household income \$0 - \$39,999(b) | 521 | 71 | 16 | 13 |
| \$40,000 - \$79,999 | 849 | 74 | 15 | 11 |
| \$80,000 - \$119,999 | 653 | 73 | 16 | 11 |
| \$120,000 or over | 679 | 69 | 21 | 10 |
| Could not be determined | 804 | 62 | 20 | 18 |
| Equivalised household income quintiles(c) | | | | |
| Lowest quintile | 238 | 69 | ^ 17 | ^ 13 |
| Second quintile | 409 | 73 | ^ 15 | ^ 12 |
| Third quintile | 577 | 71 | 18 | 11 |
| Fourth quintile | 665 | 73 | 16 | 12 |
| Highest quintile | 813 | 72 | 18 | 10 |
| State/Territory | | | | |
| New South Wales | 1 166 | 66 | 19 | 15 |
| Victoria | 895 | 65 | 25 | 11 |
| Queensland | 693 | 72 | 18 | 10 |
| South Australia | 212 | 74 | ^ 10 | ^ 16 |
| Western Australia | 374 | 81 | ^5 | ^ 14 |
| Tasmania | 64 | 84 | *3 | ^ 13 |
| Northern Territory | 27 | 86 | **1 | *13 |
| Australian Capital Territory | 75 | 72 | ^ 14 | ^ 14 |
| Remoteness area | | | | |
| Major cities of Australia | 2 597 | 64 | 23 | 13 |
| Inner regional Australia | 609 | 84 | ^2 *3 | 14 ^ 12 |
| Outer regional Australia Remote Australia | 263 ^ 37 | 85 ^ 79 | *3 **3 | *17 |
| | 31 | 19 | 3 | 11 |
| Region | 0.504 | 05 | 00 | 40 |
| Metropolitan areas | 2 504 | 65 82 | 23 ^ 5 | 13 14 |
| Ex-metropolitan areas | 1 002 | 82 | 5 | 14 |
| Total | 3 506 | 70 | 18 | 13 |

[^] estimate has a relative standard error of 10% to less than 25% and should be used with caution

 $^{^{\}star}$ $\,\,$ estimate has a relative standard error of 25% to 50% and should be used with caution

 $^{^{\}star\star}$ $\,\,$ estimate has a relative standard error greater than 50% and is considered too unreliable for general use

⁽a) Includes satellite and microwave.

⁽b) Includes those households with income less than zero.

⁽c) Excludes those households where income could not be determined.

CHAPTER 5

INTERNATIONAL COMPARISONS

INTRODUCTION

This chapter presents some international comparisons for household use of computer, Internet and Broadband statistics between Australia and selected countries. The data relating to Australia are taken from the 2006-07 Multi-Purpose Household Survey and have been adjusted to reflect all households, while all other data are provided courtesy of the Organisation for Economic Co-operation and Development (OECD) with reference periods mainly of 2005 and 2006. These data were originally published in the OECD Science, Technology and Industry Scoreboard 2007 and OECD key Information and Communication Technology (ICT) indicators (available at OECD website < www.oecd.org >). Although data published by the OECD in relation to households' access to a home computer, Internet and Broadband are comparable to some degree, users should be aware of the differences in definitions, coverage and reference periods of the surveys covering these topics. The metadata for OECD Countries' ICT Collections site available at < www.oecd.org/site/ictmetadata > provides detailed information on the reference period and survey scope for each country.

HOUSEHOLD'S USE OF COMPUTERS AND THE INTERNET

In 2006, the percentage of households with access to a home computer ranged from 84.8% (Denmark) to 12.2% (Mexico) with Australia's level of computer use at home being towards the upper end of this range at 73%. During 2006, Korea reported the highest penetration of household Internet access (94.0%). For Australia the percentage of households with home Internet access was 64.0%.

HOUSEHOLD'S ACCESS TO BROADBAND INTERNET CONNECTION While table 5.2 presents comparative data on household use of Broadband in 2006, in interpreting these statistics, users need to be aware of the differences in the reference period and definition of Broadband adopted by respective countries. Among OECD countries, in 2006, the uptake of Broadband Internet connections varied considerably across countries with Korea reporting the highest proportion of households with a Broadband connection (94.0%) and Turkey recording the lowest at 1.7% . The proportion of Australian households with access to a Broadband Internet connection was 28% in 2005-06. This figure has increased to 43% in 2006-07.

HOUSEHOLD'S ACCESS TO
BROADBAND INTERNET
CONNECTION continued

TABLE 5:1 HOUSEHOLDS WITH ACCESS TO A HOME COMPUTER AND THE INTERNET, Australia and selected countries—2006

| | Computer (%) | | Internet (%) |
|-----------------|-----------------|-----------------|-----------------|
| Denmark | 85 | Korea(a) | 94 |
| Iceland | 84 | Iceland | 83 |
| Sweden | 83 | Netherlands | 80 |
| Japan | 81 | Denmark | 79 |
| Netherlands | 80 | Sweden | 77 |
| Korea(b) | 80 | Switzerland | 77 |
| Luxembourg | 77 | Luxembourg | 70 |
| Germany | 77 | Norway | 69 |
| Norway | 75 | Germany | 67 |
| Australia | 73 | Finland | 65 |
| Canada | 72 | New Zealand | 65 |
| New Zealand | 72 | Canada(c) | 64 |
| United Kingdom | 71 | Australia | 64 |
| Finland | 71 | United Kingdom | 63 |
| Switzerland | 71 | Japan | 61 |
| Austria | 67 | United States | 55 |
| United States | 62 | Belgium | 54 |
| EU25 | 62 | Austria | 52 |
| Ireland | 59 | EU25 | 51 |
| Belgium | 58 | Ireland | 50 |
| Spain | 57 | France | 41 |
| France | 56 | Italy | 40 |
| Slovak Republic | 50 | Spain | 39 |
| Hungary | 50 | Poland | 36 |
| Italy | 48 | Portugal | 35 |
| Portugal | 45 | Hungary | 32 |
| Poland | 45 | Czech Republic | 29 |
| Czech Republic | 39 | Slovak Republic | 27 |
| Greece | 37 | Greece | 23 |
| Mexico | 21 | Mexico | 10 |
| Turkey | 12 | Turkey | 8 |

- (a) For 2000 to 2003, data included Internet access only via computer. As of 2004, Internet access through mobile phone, TV and game consoles are also included.
- (b) Previously, data for Korea were based on the Computer and Internet Use Survey conducted by the Korean National Statistical Office. Certain items of that survey are no longer collected and data are now sourced from the survey on Computer and Internet Usage conducted by the National Internet Development Agency (NIDA) of Korea. The NIDA series shows larger shares than the previous survey.
- (c) Statistics for 2001 and every other year thereafter include the territories (Northwest Territories, Yukon Territory and Nunavut). For the even years, statistics include the ten provinces only.

HOUSEHOLD'S ACCESS TO
BROADBAND INTERNET
CONNECTION continued

TABLE 5.2: HOUSEHOLDS WITH BROADBAND ACCESS, Australia and Selected Countries—2006

Percentage of households with broadband internet access

| Country | % |
|---|---------|
| Korea(a) | 94.0 |
| Iceland | 72.1 |
| Netherlands | 66.2 |
| Japan(b)(c) | 65.0 |
| Denmark | 63.3 |
| Norway | 57.1 |
| Finland | 52.9 |
| Sweden | 51.0 |
| Canada(b)(d) | 50.1 |
| Belgium | 48.0 |
| Luxembourg | 44.1 |
| United Kingdom | 43.9 |
| Australia | 43.0 |
| Germany | 33.5 |
| New Zealand | 33.2 |
| Austria | 33.1 |
| EU25 | 31.7 |
| France | 30.3 |
| Spain | 29.3 |
| Portugal | 24.0 |
| Hungary | 22.0 |
| Poland | 21.6 |
| United States(e) | 19.9 |
| Czech Republic | 16.6 |
| Italy | 16.2 |
| Ireland | 13.1 |
| Slovak Republic | 11.4 |
| Mexico(f) | 4.1 |
| Greece | 3.8 |
| Turkey(b) | 1.7 |
| • | • • • • |

- (a) For 2000 to 2003, data included broadband access modes such as xDSL, cable and other fixed and wireless broadband via computers. As of 2004, data also included mobile phone access.
- (b) Data relate to the 2005 reference year.
- (c) Only broadband access via a computer.
- (d) Statistics for 2001 and every other year thereafter include the territories (Nortwest Territories, Yukon Territory and Nunavut). For the even years, statistics include the ten provinces only.
- (e) Data relate to the 2003 reference year.
- (f) For 2001 and 2002, households with internet access via cable. From 2004, households with Internet access via cable, ADSL or fixed wireless.

EXPLANATORY NOTES

INTRODUCTION

- **1** This publication presents results from household use of information technology (HUIT) data collected from the Multi-Purpose Household Survey (MPHS) for 2006-07 by the Australian Bureau of Statistics (ABS).
- **2** The MPHS, conducted each year throughout Australia from July to June as a supplement to the Monthly Labour Force Survey (LFS), is designed to collect statistics for a number of small, self-contained topics. These include both labour topics and other social and economic topics. The topics collected in 2006-07 were:
 - Education, personal and household income (core)
 - Household use of information technology
- Barriers and incentives to labour force participation
- Retirement and retirement intentions
- Family characteristics and transitions
- Adult learning
- **3** Data for other MPHS topics collected in 2006-07 will be released in separate publications.
- **4** The 2005-06 HUIT included results from the 2006 Children's Participation in Cultural and Leisure Activities (CPCLA) survey, conducted throughout Australia in April 2006 and also a supplement to the Monthly Labour Force Survey (LFS). It was designed to collect information about children's use of information technology, and to identify characteristics of children who participated in organised sport and cultural activities and a range of other activities outside of school hours orimarily for recreation and leisure. The ABS has not conducted a CPCLA since the last publication.
- **5** Data on household use of information technology has been previously collected by the ABS in the Population Survey Monitor (1996, 1998, 1999 and 2000), the Survey of Education, Training and Information Technology (2001), the General Social Survey (2002), the National Aboriginal and Torres Strait Islander Survey (2002), the Survey of Disability, Ageing and Carers (SDAC 2003), the CPCLA Survey (2003 and 2006), and the MPHS (2004-05 and 2005-06). The MPHS will be the vehicle for collection of HUIT data for the 2007-08 reference period.
- **6** 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 telephone interviewing relevant to both the monthly LFS and supplementary surveys.
- 7 The MPHS is conducted as a supplement to the monthly LFS. One third of the dwellings in the outgoing rotation group (one eighth of the sample is rotated out each month) are selected for the MPHS. In these dwellings, after LFS has been fully completed for each person in scope and coverage, a person (usual resident) aged 15 or over is selected at random (based on a computer algorithm) and asked the additional MPHS questions in a personal interview. Data are collected using Computer Assisted Interviewing (CAI), whereby responses are recorded directly onto an electronic questionnaire in a notebook computer, generally during a telephone interview.
- **8** The sample was accumulated over a ten month period (July 2006, October 2006 to June 2007).

DATA COLLECTION

HISTORICAL COMPARISONS

- **9** Due to the difference in the scope of previous surveys, household use of information technology (HUIT) data from the 2005-06 MPHS onwards are not comparable with data from several of the surveys listed in paragraph 7. For example, the HUIT data for 2003 were obtained from the SDAC, where person level data only relates to those with a disability aged 15 years or over. Data are not comparable with results from MPHS which covers all persons 15 years or over. However, SDAC and MPHS data are comparable at the household level.
- 10 The 2002 HUIT data were obtained from the GSS using a face-to-face randomly selected person methodology. MPHS questions were asked using a telephone interview. The ABS has taken reasonable steps during the survey development process to ensure that this change in collection methodology does not affect the quality of the data, however, a small impact on responses for the more complex questions cannot be ruled out.

11 The scope of the LFS is restricted to people aged 15 years and over and excludes the following persons:

- members of the permanent defence forces
- certain diplomatic personnel of overseas governments, customarily excluded from census and estimated populations
- overseas residents in Australia
- members of non-Australian defence forces (and their dependants).
- **12** For the MPHS in 2006-07 the following people are also excluded:
- people living in private dwellings in very remote parts of Australia
- people living in non-private dwellings such as hotels, university residences, students
 at boarding schools, patients in hospitals, residents of homes (e.g. retirement
 homes, homes for persons with disabilities), and inmates of prisons.
- 13 The 2006-07 MPHS was conducted in both urban and rural areas in all states and territories, but excluded people living in very remote parts of Australia. The exclusion of these people is expected to have only a minor impact on any aggregate estimates that are produced for individual states and territories, except in the Northern Territory where such people account for around 23% of the population.
- **14** In the LFS, coverage rules are applied which aim to ensure that each person is associated with only one dwelling and hence has only one chance of selection in the survey. See Labour Force, Australia (Cat. no. 6202.0) for more details.
- **15** The initial sample for the 2006-07 MPHS consisted of approximately 19,800 private dwelling households. Of the 17,040 private dwelling households that remained in the survey after sample loss (for example, households selected in the survey which had no residents in scope for the LFS, vacant or derelict dwellings and dwellings under construction), approximately 14,190 or 83.3% fully responded to the MPHS.
- **16** Weighting is the process of adjusting results from a sample survey to infer results for the total in scope population. To do this, a 'weight' is allocated to each sample unit, which, for the MPHS Survey can be either a person or a household. The weight is a value which indicates how many population units are represented by the sample unit. The first step in calculating weights for each unit is to assign an initial weight, which is the inverse of the probability of being selected in the survey. The initial weights are then calibrated to align with independent estimates of the population of interest, referred to as 'benchmarks'. Weights are calibrated against population benchmarks to ensure that the survey estimates conform to the independently estimated distribution of the population rather than the distribution within the sample itself.

SCOPE

COVERAGE

SAMPLE SIZE

WEIGHTING, BENCHMARKING AND ESTIMATION

WEIGHTING, BENCHMARKING AND ESTIMATION continued

- **17** The estimation process for these surveys ensures that estimates of persons calibrate exactly to independently produced population totals at broad levels. The known population totals, commonly referred to as 'benchmarks', are produced according to the scope of the survey. The same is true for estimates of households produced in this survey. However, in these cases the household benchmarks are actually estimates themselves and not strictly known population totals.
- **18** The survey was benchmarked to the estimated civilian population aged 15 years and over living in private dwellings in each state and territory excluding persons out of scope (refer Explanatory Notes 11-12).
- **19** Survey estimates of counts of persons or households are obtained by summing the weights of persons or households with the characteristics of interest.

IMPUTATION FOR NON RESPONSE

ESTIMATION

- **20** Approximately 36% of occupation and industry data for employed persons aged 25 to 64 years have been imputed from information collected in a previous month of the Labour Force Survey, because some persons were not asked their occupation and industry in some months of the survey. The following criteria were applied before imputation occurred:
 - full-time or part-time status of employment was the same,
 - status in employment (employee, employer, own account worker, contributing family worker) was the same, and
- hours usually worked in all jobs was different by no more than 10 hours.
- **21** Certain data items such as estimates of income had significant non-response for 2006-07. The ABS has not applied any imputation methodology for estimation of values for non-responses, other than that outlined above.

INCOME LESS THAN ZERO

22 Some households reported negative income in the survey. This is possible if they incur losses in their unincorporated businesses or have negative returns from their investments. Studies of income and expenditure from the 1998-99 Household Expenditure Survey (HES) have shown that such households in the bottom income decile and with negative gross incomes tend to have expenditure levels that are comparable to those of households with higher income levels (and slightly above the average expenditures recorded for the fifth decile), indicating that these households have access to economic resources, such as wealth, or that the instance of low or negative income is temporary, perhaps reflecting business or investment start up.

EQUIVALISED HOUSEHOLD INCOME QUINTILES

- 23 These are groupings of 20% of the total population when ranked in ascending order according to equivalised gross household income. The population used for this purpose includes all people living in private dwellings, including children and other persons under the age of 15 years. As the scope of this publication is restricted to only those persons aged 15 years and over, the distribution of this smaller population across the quintiles is not necessarily the same as it is for persons of all ages, i.e. the percentage of persons aged 15 years and over in each of these quintiles may be larger or smaller than 20%.
- 24 Equivalence scales are used to adjust the actual incomes of households in a way that enables the analysis of the relative wellbeing of people living in households of different size and composition. For example, it would be expected that a household comprising two people would normally need more income than a lone person household, if all the people in the two households are to enjoy the same material standards of living. Adopting a per capita analysis would address one aspect of household size difference, but would address neither compositional difference (i.e. the number of adults compared with the number of children) nor the economies derived from living together.

EQUIVALISED HOUSEHOLD INCOME QUINTILES continued

- **25** When household income is adjusted according to an equivalence scale, the equivalised income can be viewed as an indicator of the economic resources available to a standardised household. For a lone person household, it is equal to income received. For a household comprising more than one person, equivalised income is an indicator of the household income that would be required by a lone person household in order to enjoy the same level of economic wellbeing as the household in question.
- **26** The equivalence scale used in this publication was developed for the Organisation for Economic Co-operation and Development and is referred to as the "modified OECD" equivalence scale. It is widely accepted among Australian analysts of income distribution.
- 27 The scale allocates 1.0 point for the first adult (aged 15 years or older) in a household; 0.5 for each additional adult; and 0.3 for each child. Equivalised household income is derived by dividing total household income by the sum of the equivalence points allocated to household members. For example, if a household received combined gross income of \$2,100 per week and comprised two adults and two children (combined household equivalence points of 2.1), the equivalised gross household income for each household member would be calculated as \$1,000 per week.
- **28** For more information on the use of equivalence scales, see *Household Income and Income Distribution*, *Australia*, 2005-06 (cat. no. 6523.0)
- **29** Remoteness Areas (RA) are the spatial units that make up the ASGC Remoteness Classification. There are six classes of Remoteness Area in the Remoteness Structure; Major Cities of Australia, Inner Regional Australia, Outer Regional Australia, Remote Australia, Very Remote Australia and Migratory. Remoteness Areas are aggregations of Collection Districts (CD) which share common characteristics of remoteness
- **30** The purpose of the RA structure is to classify Collection Districts (CD) which share common characteristics of remoteness into broad geographical regions called RAs. The remoteness structure includes all CDs thereby covering the whole of geographic Australia. Where relevant, statistics in this publication have been produced using the ASGC Remoteness Classification.
- **31** Remoteness is calculated using the road distance to the nearest Urban Centre in each of five classes based on population size. The Remoteness classification divides Australia into six RAs: Major Cities of Australia; Inner Regional Australia; Outer Regional Australia; Remote Australia; Very Remote Australia; and Migratory. The glossary accompanying this publication provides definitions of RAs used. For further information see Statistical Geography: Volume 1 *Australian Standard Geographical Classification (ASGC), 2006 (cat. no. 1216.0).*
- **32** The key element in producing the structure is the preparation of the Accessibility/Remoteness Index of Australia (ARIA+) grid. ARIA+ scores are first calculated for each Urban Centre and are then interpolated to create a 1 km grid covering the whole of Australia. Each grid square carries a score of remoteness from an index of scores ranging from 0 (zero) through to 15. The data custodian of the grid remains the National Key Centre for Social Applications of Geographic Information System (GISCA), Adelaide University, South Australia. ABS Remoteness Areas are created by averaging the ARIA+ scores within Census Collection Districts (CDs), then aggregating the CDs up into the 6 ABS Remoteness Area categories based on the averaged ARIA+ score.
- **33** RA categories are defined in the ASGC Remoteness Classification as follows:
 - Major Cities of Australia: CDs with an average Accessibility/Remoteness Index of Australia (ARIA) index value of 0 to 0.2
 - Inner Regional Australia: CDs with an average ARIA index value greater than 0.2 and less than or equal to 2.4

REMOTENESS

REMOTENESS continued

- Outer Regional Australia: CDs with an average ARIA index value greater than 2.4 and less than or equal to 5.92
- Remote Australia: CDs with an average ARIA index value greater than 5.92 and less than or equal to 10.53
- Very Remote Australia: CDs with an average ARIA index value greater than 10.53

RELIABILITY OF ESTIMATES

34 The estimates provided in this publication are subject to sampling and non-sampling error.

Sampling error

35 Sampling error is the difference between the published estimates, derived from a sample of persons, and the value that would have been produced if all persons in scope of the survey had been included. For more information refer to the technical note.

Non-sampling error

36 Non-sampling error may occur in any collection, whether it is based on a sample or a full count such as a census. Sources of non-sample error include non-response, errors in reporting by respondents or recording of answers by interviewers, and errors in coding and processing data.

CONFIDENTIALISED UNIT RECORD FILE

37 Confidentialised Unit Record Files (CURF) release confidentialised microdata from surveys, thereby facilitating interrogation and analysis of data. For all MPHS topics covered in the 2006-07 survey, an expanded CURF will be available in 2008. The expanded CURF for MPHS 2005-06 topics are available. For more information on expanded CURFs refer to ABS information paper Multi-Purpose Household Survey 2005-06, Expanded Confidentialised Unit Record File (Cat. no. 4100.0)

COMPARABILITY WITH
MONTHLY LFS STATISTICS

38 Due to differences in the scope and sample size of the MPHS and that of the LFS, the estimation procedure may lead to some small variations between labour force estimates from this survey and those from the LFS.

COMPARISON WITH OTHER COUNTRIES

- **39** Tables 5.1 and 5.2 data for other countries have been provided courtesy of the OECD and were originally sourced from individual country reports to the OECD. With the exception of Australian data, all other data have been published in the OECD Science, Technology and Industry Scoreboard 2005- Towards a knowledge based economy and the OECD Key ICT Indicators.
- **40** There are important differences in definitions, scope, coverage and reference periods for the international comparison data included for selected indicators in the above tables, and thus the figures should be used with caution.
- **41** The ABS defines broadband as an 'always on' Internet connection with an access speed equal to or greater than 256 kbps. Most other OECD countries define broadband in terms of technology (e.g. ADSL, cable etc) rather than speed.
- **42** The metadata for OECD Countries' ICT Collections site available at <www.oecd.org/sti/ictmetadata> provides detailed information on the reference period and survey scope for each country.

FUTURE SURVEYS

- **43** The ABS will conduct the MPHS again during the 2007-08 financial year. The topics included in the 2007-08 MPHS are:
 - Education and household income (core)
 - Household use of information technology
 - Attitudes towards the environment
 - Personal fraud

ACKNOWLEDGEMENT

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

RELATED PUBLICATIONS

- **45** Other ABS publications on the production and use of information and communication technologies and telecommunication goods and services in Australia are:
 - Business Use of Information Technology, 2005-06 (Cat. no. 8129.0)
 - Government Technology, Australia, 2002-03 (Cat. no. 8119.0)
 - Household Use of Information Technology, Australia, 2006-07 (Cat. no. 8146.0)
 - Patterns of internet access in Australia, 2006 (Cat. no. 8146.0.55.001)
 - Information and Communication Technology, Australia, 2004-05 (Cat. no. 8126.0)
 - Use of Information Technology on Farms, Australia, 2004-05 (Cat. no. 8150.0)
 - Internet Activity, Australia, June 2006 (Cat. no. 8153.0)
 - Children's Participation in Cultural and Leisure Activities, April 2006 (Cat. no. 4901.0)
- **46** 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 website http://www.abs.gov.au. The ABS also issues a daily release advice on the website which details products to be released in the week ahead.

ABS DATA AVAILABLE ON REQUEST

47 As well as statistics included in this and related publications, the ABS may have other relevant data available on request. Inquiries should be made to Siddhartha De, Canberra, (02) 6252 6519 or the National Information Referral Service on 1300 135 070.

TECHNICAL NOTE

RELIABILITY OF THE ESTIMATES

RELIABILITY OF THE ESTIMATES

- **1** Since the estimates in this publication are based on information obtained from occupants of a sample of dwellings, they are subject to sampling variability. That is, they may differ from those estimates that would have been produced if all occupants of all dwellings had been included in the survey. One measure of the likely difference is given by the standard error (SE), which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings (or occupants) was included. There are about two chances in three (67%) that a sample estimate will differ by less than one SE from the number that would have been obtained if all dwellings had been included, and about 19 chances in 20 (95%) that the difference will be less than two SEs.
- **2** Another measure of the likely difference is the relative standard error (RSE), which is obtained by expressing the SE as a percentage of the estimate:

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

- **3** RSEs for estimates from 2006-07 MPHS are published for the first time in 'direct' form. Previously a statistical model was produced that relates the size of estimates to their corresponding RSEs, and this information was displayed via an 'SE table'. From this point onwards, RSEs for MPHS estimates have now been calculated for each separate estimate and published individually. The Jackknife method of variance estimation is used for this process, which involves the calculation of 30 'replicate' estimates based on 30 different subsamples of the original sample. The variability of estimates obtained from these subsamples is used to estimate the sample variability surrounding the main estimate.
- **4** Limited publication space does not allow for the separate indication of the SEs and/or RSEs of all the estimates in this publication, only those for Table 4.2 have been included at the end of these Technical Notes. However, RSEs for all these estimates are available free-of-charge on the ABS web site <www.abs.gov.au>, released in spreadsheet format as an attachment to this publication, Household Use of Information Technology, Australia, 2006-07 (cat. no.8146.0)
- **5** In the tables in this publication, only estimates (numbers, percentages, means and medians) with RSEs less than 25% are considered sufficiently reliable for most purposes. However, estimates with larger RSEs have been included and are preceded by an asterisk (e.g. *3.4) to indicate they are subject to high SEs and should be used with caution. Estimates with RSEs greater than 50% are preceded by a double asterisk (e.g. **2.1) to indicate that they are considered too unreliable for general use.

CALCULATION OF STANDARD ERRORS

6 SEs can be calculated using the estimates (counts or means) and the corresponding RSEs. For example Table 4.2 shows that the estimated number of households with Internet access in 2006-07 is 5,138,000. In the corresponding RSE table (on page 58), the RSE for this estimate is shown to be 0.6%. The SE is:

SE of estimate =
$$\left(\frac{RSE}{100}\right) \times estimate = 0.006 * 5,138,000 = 31,000 \text{ (rounded to nearest 1.000)}$$

CALCULATION OF STANDARD ERRORS continued

7 Therefore there are about two chances in three that the value that would have been produced if all dwellings had been included in the survey will fall within the range 5,107,000 to 5,169,000 and about 19 chances in 20 that the value will fall within the range 5,076,000 to 5,200,000.

PROPORTIONS AND PERCENTAGES

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

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

- **9** For example in Table 4.2 the estimate for the proportion of households in New South Wales with Broadband access in terms of those with Internet access is 68%.
- **10** From the RSE table on page 58 the RSE of the estimated number of households in New South Wales with Broadband access is 1.7%, and the estimated number of New South Wales households with Internet access is 0.8%.
- **11** Applying the above formula, the RSE of the proportion is:

$$RSE = \sqrt{(1.72)^2 - (0.82)^2} = 1.5\%$$

- **12** This then gives an SE for the proportion (68%) of (1.5/100) x 68 = 1 percentage point.
- **13** Therefore there are about two chances in three that the proportion of households in New South Wales with Broadband access is between 67% and 69%, and 19 chances in 20 that the proportion is within the ranges 66% and 70%.
- **14** Published estimates may also be used to calculate the difference between two survey estimates (of numbers or percentages). Such an estimate is subject to sampling error. The sampling error of the difference between two estimates depends on their SEs and the relationship (correlation) between them. An approximate SE of the difference between two estimates (x–y) may be calculated by the following formula:

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

- **15** From table 4.2, it is estimated that 5,138,000 households accessed the Internet using a home computer in 2006-07. This estimate has a RSE of 0.6 (see Table below), which corresponds to a standard error of around 31,000 (see paragraph 6 above). The corresponding figure for 2005-06 was 4,730,000, with a standard error of around 39,000. The estimated increase in the number of households with home Internet access from the previous year is thus 408,000. Substituting the SEs for 2005-06 and 2006-07 in the above formula the SE on the movement is around 50,000. There are 2 chances in 3 that the true value is within the range 358,000 to 458,000 households and 19 chances in 20 that the true value is in the range 308,000 to 508,000 households.
- **16** While this formula will only be exact for differences between separate and uncorrelated characteristics or subpopulations, it is expected to provide a good approximation for all differences likely to be of interest in this publication.

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

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

DIFFERENCES

SIGNIFICANCE TESTING

SIGNIFICANCE TESTING continued

- **18** If the value of this test statistic is greater than 1.96 then we may say there is good evidence of a real difference in the two populations with respect to that characteristic. Otherwise, it cannot be stated with confidence that there is a real difference between the populations.
- 19 The imprecision due to sampling variability, which is measured by the SE, should not be confused with inaccuracies that may occur because of imperfections in reporting by respondents and recording by interviewers, and errors made in coding and processing data. Inaccuracies of this kind are referred to as non-sampling error, and they occur in any enumeration, whether it be a full count or sample. Every effort is made to reduce non-sampling error to a minimum by careful design of questionnaires, intensive training and supervision of interviewers, and efficient operating procedures.

TABLE 4.2: HOUSEHOLD INTERNET CONNECTION, SELECTED CHARACTERISTICS, BY TYPE OF ACCESS, Relative Standard Errors—2006-07

Number of households accessing the internet Don't at home Dial-Up Broadband Both know Households 0.9 2.5 1.0 20.3 14.5 Without children under 15 With children under 15 0.7 3.4 1.9 30.3 21.5 Equivalised household income \$0 - \$39,999(a) 1.7 3.2 1.6 27.0 15.5 \$40,000 - \$79,999 1.8 3.7 2.9 29.9 23.1 \$80,000 - \$119,999 4.5 8.8 5.4 42.1 56.2 \$120,000 or over 5.9 12.8 6.9 76.3 Could not be determined 3.2 29.4 18.1 3.1 4.3 Household income 2.3 3.9 2.9 30.0 23.7 \$0 - \$39,999(a) \$40.000 - \$79.999 35.0 18.8 2.4 3.8 2.7 \$80,000 - \$119,999 2.3 5.7 3.7 36.4 31.3 \$120,000 or over 43.6 2.6 82.5 7.5 3.0 Could not be determined 3.1 4.3 3.2 29.4 18.1 Equivalised household income quintiles(b) Lowest quintile 3.7 6.0 5.4 57.0 31.4 Second quintile 6.0 3.4 33.8 34.4 3.4 Third quintile 3.0 6.3 2.7 58.3 26.2 40.7 29.5 Fourth quintile 2.2 5.2 3.6 Highest quintile 2.8 6.0 2.8 29.1 41.9 State/Territory New South Wales 1.7 33.6 23.9 8.0 4.3 Victoria 28.6 20.6 1.5 4.1 1.6 Queensland 4.0 2.1 28.3 24.3 1.4 South Australia 2.5 4.6 2.9 45.4 33.9 Western Australia 1.7 5.1 2.2 44.2 28.2 Tasmania 2.2 6.3 3.6 101.0 38.7 Northern Territory 5.9 14.7 8.5 103.2 **Australian Capital Territory** 57.7 49.2 12.1 3.2 Remoteness area Major cities of Australia 0.8 2.8 1.1 20.1 15.0 Inner regional Australia 2.8 4.6 3.0 32.7 28.4 Outer regional Australia 5.5 6.7 6.8 80.5 30.4 Remote Australia 11.1 17.0 13.9 62.5 68.2 Metropolitan areas 0.7 2.7 1.1 22.0 13.8 Ex-metropolitan areas 3.3 1.8 25.8 21.2 Total 2.2 0.7 16.5 12.6

nil or rounded to zero (including null cells)

⁽a) Includes those households with income less than zero.

⁽b) Excludes those households where income could not be determined.

GLOSSARY

Accessibility/Remoteness Index of Australia

Accessibility/Remoteness Index of Australia (ARIA) was developed by the Commonwealth Department of Health and Aged Care (DHAC) and the National Key Centre for Social Applications of Geographic Information System (GISCA). ARIA measures the remoteness of a point based on the physical road distance to the nearest Urban Centre (ASGC 1996) in each of five size classes.

Age

This is the reported age of a person on the last birthday.

Analog/Public Switched Telephone Network (PSTN) A telecommunications network operated by a carrier to provide services to the public.

ASGC Remoteness Structure.

The Remoteness structure is used for the production of standard ABS statistical outputs from Population Censuses and some ABS surveys. It is a structure describing Australia in terms of a measurement of remoteness. The Remoteness structure includes all Collection Districts (CDs) and therefore, in aggregate, it covers the whole of Australia. The purpose of the structure is to classify CDs which share common characteristics of remoteness into broad geographical regions called Remoteness Areas (RAs). There are six RAs in this structure.

Bit

Abbreviation for binary digit and describing the smallest unit of information handled by a computer. One bit expresses a 1 or a 0 in a binary numeral, or a true or false logical condition. See also Byte.

Broadband

Defined by the ABS as an 'always on' Internet connection with an access speed equal to or greater than 256 Kilobits per second (Kbps).

Byte

Abbreviation for binary term. A unit of data, today almost always consisting of 8 bits. A byte can represent a single character, such as a letter, a digit, or a punctuation mark. See also kilobit and kilobyte.

Cable

Describes those technologies including coaxial cable, fibre optic cable and hybrid fibre coaxial cable which are capable of transmitting data at speeds of up to 2 Gigabits per second (Gbps).

Child

A person of any age who is a natural, adopted, step, or foster son or daughter of a couple or lone parent, usually resident in the same household, and who does not have a child or partner of his/her own usually resident in the household.

Collection Districts

CDs are designed for use in census years for the collection and dissemination of Population Census data. In non-census years, CDs are undefined. In aggregate, CDs cover the whole of Australia without gaps or overlaps. The CD is the smallest spatial unit in the ASGC. CDs aggregate to form larger spatial units such as the Remoteness Areas in the Remoteness Structure. In Census years, the CD is the common denominator which integrates all classification structures in the ASGC. For the 2006 Census, 38,704 CDs were defined throughout Australia

Computer use

This refers to use of a computer in the 12 months prior to interview.

Couple families

For the purposes of this publication, a family consisting of two persons in a registered marriage or de facto relationship and at least one child aged 5–14 years who are usually resident in the household. The family may also include any number of other dependents, non-dependents and other related individuals.

Dial-up connections

Connection to the Internet via modem and dial-up software utilising the public switched telecommunication network (PSTN).

Digital Subscriber Line More properly referred to as ADSL as this covers several digital technologies (e.g.

asymmetric DSL or ADSL and symmetric DSL or SDSL) for fast two-way data connections

over the PSTN.

Employed Employed persons are those who had a job or business, or who undertook work without

pay in a family business, in the week prior to the survey for a minimum of one hour per week. Includes persons who were absent from a job or business. Includes Community

Development Employment Program participants.

Equivalised Gross Household Gross household income adjusted using an equivalence scale. For a lone person

household it is equal to gross household income. For a household comprising more than one person, it is an indicator of the gross household income that would need to be received by a lone person household to enjoy the same level of economic well-being as

the household in question.

Equivalised gross household These are groupings of 20% of the total population when ranked in ascending order according to equivalised gross household income. The population used for this purpose

includes all people living in private dwellings, including children and other persons under the age of 15 years. As the scope of this publication is restricted to only those persons aged 15 years and over, the distribution of this smaller population across the quintiles is not necessarily the same as it is for persons of all ages, i.e. the percentage of persons aged 15 years and over in each of these quintiles may be larger or smaller than

20%.

Ex-metropolitan areas Refers to areas outside the capital city statistical divisions.

Gbps A data transfer speed measurement for high speed networks.

Household A household consists of a person living alone, or two or more related or unrelated

persons who live and eat together in private residential accommodation.

Indigenous This refers to people who identified themselves, or were identified by another

household member, as being of Aboriginal and/or Torres Strait Islander origin.

Inner regional Australia Inner Regional Australia is a category in the ASGC Remoteness Structure. Inner Regional

Australia is defined as 'CDs with an average ARIA index value greater than 0.2 and less than or equal to 2.4'. Inner Regional Australia includes towns such as Hobart,

Launceston, Noosa and Tamworth.

Integrated Services Digital

Network (ISDN)

Income

A digital access technique for both voice and data. Digital alternative to an analog public switched telephone service and carries data or voltages consisting of discrete steps or

levels, as opposed to continuously variable analog data. ISDN enables digital

transmission over the PSTN.

Internet A world-wide public computer network. Organisations and individuals can connect their

computers to this network and exchange information across a country and/or across the world. The Internet provides access to a number of communication services including

the World Wide Web and carries email, news, entertainment and data files.

Internet Access Availability of lines, points, ports, and modem to subscribers to access the Internet.

Internet use This refers to the use of the Internet in the 12 months prior to interview. It includes

access via mobile phones, set-top boxes connected to either an analogue or digital

television, and games machines.

Kbps A measure of data transfer rate . A unit of data transfer that equates to 1000 bits per

second.

Kilobit (Kb) A data unit of 1,024 bits and generally abbreviated as kb or kbit. Data speeds are

generally referred to in kilobits (kbps) rather than kilobytes.

Kilobyte (KB) A data unit of 1,024 bytes and generally abbreviated as KB or Kbyte.

Major cities of Australia Major Cities of Australia (not to be confused with Major Urban) is a category in the ASGC

> Remoteness Structure. Major Cities of Australia is defined as 'CDs with an average ARIA index value of 0 to 0.2'. The 'Major Cities of Australia' class includes most capital cities, as

well as major urban areas such as Newcastle, Geelong and the Gold Coast.

A data unit of 1,048,576 bits, sometimes interpreted as 1 million bits. Faster data speeds Megabit (Mb)

are generally referred to in megabits rather than megabytes (hence Mbps).

Megabyte (MB) A data unit of 1,048,576 bytes, sometimes interpreted as 1 million bytes.

Metropolitan Metropolitan refers to capital city statistical divisions. These delimit an area which is

stable for general statistical purposes. The boundary is defined to contain anticipated development of a city for a period of 20 years. The metropolitan area contains more than

just the urban centre, and represents the city in the wider sense.

Non Dial-up connections Refers to permanent and 'always on' connections to the Internet via a variety of

technologies including Integrated Services Digital Network (ISDN), Digital Subscriber Lines (DSL), Cable, Wireless, Satellite, dedicated data service, frame relay, etc.

One parent families For the purposes of this publication, a family consisting of a lone parent and at least one

child aged 5-14 years usually resident in the household. The family may also include any

number of other dependents, non-dependents and other related individuals.

Other countries The group comprises all countries except Australia and the other main English-speaking

countries (the United Kingdom, Ireland, South Africa, Canada, the United States of

America and New Zealand).

Other main English-speaking Comprises the United Kingdom, Ireland, South Africa, Canada, the United States of

America and New Zealand.

countries

Outer regional Australia Outer Regional Australia is a category in the ASGC Remoteness Structure. Outer Regional

> Australia is defined as 'CDs with an average ARIA index value greater than 2.4 and less than or equal to 5.92'. Outer Regional Australia includes towns and cities such as Darwin,

Whyalla, Cairns and Gunnedah.

Public library computers Includes computers provided in the library for public access for library catalogue

searches, Internet use and word processing.

Remote Remote Australia is a category in the ASGC Remoteness Structure. Remote Australia is defined as 'CDs with an average ARIA index value greater than 5.92 and less than or equal

to 10.53. Examples of Remote Australia include Alice Springs, Mount Isa and Esperance.

Satellite A satellite stationed in geosynchronous orbit that acts as a microwave relay station,

> receiving signals sent from a ground based station, amplifying them, and re-transmitting them on a different frequency to another ground-based station. Satellites can be used for

high-speed transmission of computer data.

Someone else's home Includes the homes of neighbours, friends and relatives.

> Very Remote Australia is a category in the ASGC Remoteness Structure. Very Remote is Very remote

> > defined as 'CDs with an average ARIA index value greater than 10.53. Very Remote Australia represents much of central and western Australia and includes towns such as Tennant Creek, Longreach and Coober Pedy. This region is excluded from MPHS and

CPCLA.

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2814600007066 ISSN 1329 4067

RRP \$30.00