

USE OF INFORMATION TECHNOLOGY ON FARMS

AUSTRALIA

8150.0

EMBARGO: 11.30AM (CANBERRA TIME) MON 6 SEP 2004

CONTENTS

| | Notes | page 2 |
|-----|--|-----------|
| СН | APTERS | |
| | 1 Main findings | . 3 |
| | 2 Farm use of computers and the Internet, summary | . 4 |
| | 3 Farm use of computers and the Internet, by region | 7 |
| | 4 Farm use of computers and the Internet, by industry | . 10 |
| | 5 Farm use of computers and the Internet, by farm size | . 14 |
| TAE | BLES | |
| | 2.1 Farm use of computers, by state/territory | . 5 |
| | 2.2 Farm use of the Internet, by state/territory | . 5 |
| | 2.3 Farm use of computers and the Internet, by state/territory, by type of | |
| | activity | . 6 |
| | 3.1 Farm use of computers and the Internet, by Statistical Division | . 8 |
| | 4.1 Farm use of computers and the Internet, by industry | . 11 |
| | 4.2 Farm use of computers and the Internet, by broad industry, by | |
| | state/territory | . 12 |
| | 5.1 Farm use of computers and the Internet, by broad industry, by EVAO | . 15 |
| | 5.2 Farm use of computers and the Internet, by state/territory, by EVAO | . 17 |
| A D | DITIONAL INFORMATION | |
| | Explanatory Notes | . 19 |
| | Reference man | 22 |

INQUIRIES

■ For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Phil Nolen on Canberra (02) 6252 5096.

NOTES

ABOUT THIS PUBLICATION

This publication presents statistics on the use of computers and the Internet on farms in Australia. The data were obtained from questions included in the 2002–03 Agricultural Survey conducted by the Australian Bureau of Statistics (ABS). Information obtained was in respect of the year ended 30 June 2003. Some comparisons with data collected in the 2001–2002 Agricultural Survey have been included.

ABOUT THE SURVEY

The statistics in this publication relate to farms in scope of the 2002–03 Agricultural Survey, that is, farms with an estimated value of agricultural operations (EVAO) of \$5,000 or more. The 2002–03 survey consisted of a sample of approximately 28,000 farms (21% of all farms) operating in Australia at the end of June 2003.

OTHER ABS INFORMATION TECHNOLOGY STATISTICS

Details of other ABS activities in the field of information technology statistics are available from the Information Technology Statistics theme page on the ABS web site http://www.abs.gov.au. To access the theme page, select *Themes* from the menu on the home page. Details of other ABS publications relating to the production and use of information technologies in Australia can be found in paragraph 12 of the Explanatory Notes.

COMMENTS ON THIS PUBLICATION

The ABS welcomes comments and suggestions on data items for inclusion in future surveys. Please contact Phil Nolen, Innovation and Technology National Statistics Centre, Australian Bureau of Statistics, PO Box 10, Belconnen ACT 2616, or phone Canberra (02) 6252 5096.

Dennis Trewin Australian Statistician

MAIN FINDINGS

AUSTRALIA

For the year ended 30 June 2003, 54% (or 71,936) of the 132,983 Australian farms with an estimated value of agricultural operations (EVAO) of \$5,000 or more used a computer as part of their business operations. This was an increase of 1 percentage point since the year ended 30 June 2002. During the period 2002–03 an estimated 46% (or 60,459) of farms in Australia used the Internet as part of their business operations, an increase of 3 percentage points since the period 2001–02.

REGIONAL DATA

Western Australia reported the highest proportion of farms using a computer for business operations (67%) and the highest proportion using the Internet for business operations (59%). Victoria reported both the lowest proportion of farms using a computer (49%) and the lowest proportion of farms using the Internet (40%).

Across non-capital city Statistical Divisions throughout Australia the proportion of farms using a computer ranged from 37% to 80%. The proportions of farms using the Internet ranged from 30% to 73%.

FARM INDUSTRY

The Horticulture and Fruit Growing, Dairy Cattle Farming and Other Crop Growing industries reported the highest proportion of farms using a computer (59%) and the Grain, Sheep and Beef Cattle Farming industry the lowest proportion (52%). The highest proportion of Internet use was reported in the Horticulture and Fruit Growing, Poultry Farming and Other Crop Growing industries (51%), with the lowest use in the Grain, Sheep and Beef Cattle Farming and Dairy Cattle Farming industries (both 44%).

FARM SIZE

There was a strong relationship between farm size, as measured by the estimated value of agricultural operations (EVAO), and the use of a computer and the Internet. As farm size increased so did the proportion of farms using a computer and the Internet.

FARM USE OF COMPUTERS AND THE INTERNET, SUMMARY

USE OF COMPUTERS AND THE INTERNET

During the year to 30 June 2003, 54% of farms used a computer and 46% used the Internet as part of their business operations. Western Australia reported the highest proportion of farms using computers (67%) and the Internet (59%) while Victoria reported the lowest proportion of farms using computers (49%) and the Internet (40%).

Of those farms that used computers as part of their business operations, more than four in five also used the Internet.

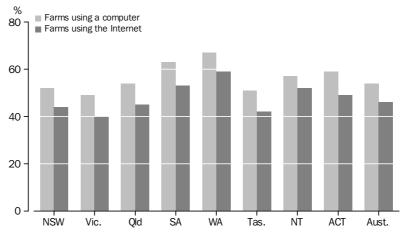
Comparing data collected in the year to 30 June 2003 to data collected during the year to 30 June 2002 shows the largest increases in computer usage being experienced by the Australian Capital Territory (6 percentage points), Western Australia (4 percentage points) and Northern Territory (4 percentage points).

For the same periods, the largest increases in Internet usage were Northern Territory (7 percentage points), Western Australia (5 percentage points) and Queensland (4 percentage points).

COMPUTER AND INTERNET ACTIVITIES UNDERTAKEN AS PART OF BUSINESS OPERATIONS Email was the most common Internet activity undertaken by farms, (39% of all farms), with obtaining weather information the next most common Internet activity (35%). It is estimated that 11% of Australian farms purchased or ordered goods or services via the Internet.

The most common activity for farms using a computer was managing farm finances (44%) with 31% of farms having used a computer for keeping farm records.

FARM COMPUTER AND INTERNET USAGE





2.1 FARM USE OF COMPUTERS(a), by state/territory

| | 2001–2002 | 2002–2003 | | | | |
|-------------------------|---|---------------|---------|---------------------|----------------------------|-------|
| | Farms using a computer All for business | | | All | Farms us com for bus | puter |
| | farms | operation | s(b) | farms | operatio | ns(b) |
| | no. | no. | % | no. | no. | % |
| • • • • • • • • • • • • | • • • • • • • • • • | • • • • • • • | • • • • | • • • • • • • • • • | • • • • • • • | • • • |
| New South Wales | 41 651 | 21 452 | 52 | 41 093 | 21 207 | 52 |
| Victoria | 33 581 | 16 471 | 49 | 33 212 | 16 375 | 49 |
| Queensland | 28 104 | 14 332 | 51 | 27 688 | 14 853 | 54 |
| South Australia | 14 824 | 8 870 | 60 | 14 262 | 8 930 | 63 |
| Western Australia | 12 688 | 8 048 | 63 | 12 270 | 8 271 | 67 |
| Tasmania | 4 027 | 2 023 | 50 | 3 969 | 2 020 | 51 |
| Northern Territory | 406 | 215 | 53 | 397 | 226 | 57 |
| Australian Capital | | | | | | |
| Territory | 96 | 51 | 53 | 91 | 54 | 59 |
| Australia | 135 377 | 71 461 | 53 | 132 983 | 71 936 | 54 |

⁽a) Percentages are of all farms.

FARM USE OF THE INTERNET (a), by state/territory

| | 2002-2003 | | | | | |
|-----------------------------|-----------------|---------------|-----------|---------------------|---------------|-------|
| | | | | | | |
| | | Farms (| using | | Farms | using |
| | | the Inte | ernet | | the Int | ernet |
| | All | for bus | iness | All | for bus | iness |
| | farms | operation | s(b) | farms | operation | າs(b) |
| | no. | no. | % | no. | no. | % |
| • • • • • • • • • • • • • • | • • • • • • • • | • • • • • • • | • • • • • | • • • • • • • • • • | • • • • • • • | • • • |
| New South Wales | 41 651 | 17 800 | 43 | 41 093 | 17 950 | 44 |
| Victoria | 33 581 | 12 977 | 39 | 33 212 | 13 162 | 40 |
| Queensland | 28 104 | 11 589 | 41 | 27 688 | 12 545 | 45 |
| South Australia | 14 824 | 7 525 | 51 | 14 262 | 7 612 | 53 |
| Western Australia | 12 688 | 6 883 | 54 | 12 270 | 7 260 | 59 |
| Tasmania | 4 027 | 1 592 | 40 | 3 969 | 1 679 | 42 |
| Northern Territory | 406 | 183 | 45 | 397 | 206 | 52 |
| Australian Capital | | | | | | |
| Territory | 96 | 46 | 48 | 91 | 46 | 51 |
| Australia | 135 377 | 58 595 | 43 | 132 983 | 60 459 | 46 |

⁽a) Percentages are of all farms.

⁽b) Computer and Internet usage are derived items. See paragraphs 4 and 5 of Explanatory Notes for derivation methodology.

⁽b) Computer and Internet usage are derived items. See paragraphs 4 and 5 of Explanatory Notes for derivation methodology.

FARM USE OF COMPUTERS AND THE INTERNET (a), by state/territory, by type of activity—2002-03

| | NSW | Vic. | Qld | SA | WA | Tas. | NT | ACT | Aust. |
|---------------------------------------|-----------|-----------|-----|-----------|----|-----------|----|-----------|---------|
| | % | % | % | % | % | % | % | % | % |
| | • • • • • | • • • • • | | • • • • • | | • • • • • | | • • • • • | • • • • |
| Internet only | | | | | | | | | |
| Obtained weather information | 35 | 28 | 33 | 41 | 51 | 27 | 37 | 30 | 35 |
| Obtained market information | 25 | 16 | 24 | 30 | 39 | 17 | 27 | 23 | 24 |
| Availability or cost of goods or | | | | | | | | | |
| services | 26 | 22 | 27 | 31 | 33 | 24 | 29 | 26 | 26 |
| Purchased or ordered goods or | | | | | | | | | |
| services | 11 | 9 | 11 | 13 | 16 | 11 | 19 | 19 | 11 |
| Accessed government websites | 22 | 16 | 23 | 22 | 28 | 19 | 25 | 32 | 21 |
| Paid bills via the Internet | 20 | 19 | 19 | 24 | 33 | 19 | 25 | 29 | 21 |
| Email | 37 | 32 | 38 | 46 | 53 | 37 | 49 | 44 | 39 |
| Computer only | | | | | | | | | |
| Managed farm finances | 42 | 39 | 43 | 52 | 58 | 39 | 42 | 43 | 44 |
| Farm record keeping | 30 | 27 | 29 | 37 | 42 | 30 | 29 | 27 | 31 |
| Other computer or Internet activities | | | | | | | | | |
| Other | 5 | 4 | 6 | 6 | 6 | 4 | 12 | 8 | 5 |
| | | | | | | | | | |

⁽a) Percentages are of all farms.

FARM USE OF COMPUTERS AND THE INTERNET, BY REGION

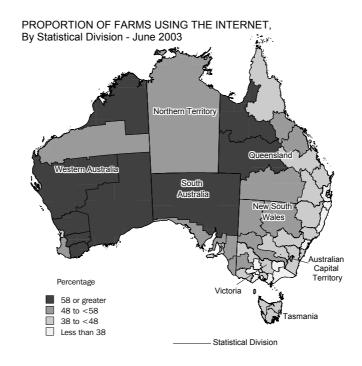
USE OF COMPUTERS

At the Statistical Division level (other than capital city Statistical Divisions), the proportion of farms using a computer during the financial year ended 30 June 2003 varied from 37% (Mid-North Coast in NSW) to 80% (North West in Queensland).

USE OF THE INTERNET

As for computer use, there was considerable variation in the proportion of farms using the Internet at the Statistical Division level. This varied from 30% (Ovens-Murray in Victoria) to 73% (North West in Queensland). Within each state, the proportions ranged from:

- Murray (53%) to Mid-North Coast (32%) in New South Wales
- Wimmera (49%) to Ovens-Murray (30%) in Victoria
- North West (73%) to Moreton (37%) in Queensland
- Yorke and Lower North (65%) to Outer Adelaide (47%) in South Australia
- Kimberely (72%) to South West (48%) in Western Australia
- Southern (47%), to Northern (39%) in Tasmania.



REFERENCE MAP

For identification of individual Statistical Divisions, please see the Reference Map on page 22 of this publication.



3.1 FARM USE OF COMPUTERS AND THE INTERNET, by Statistical Division—2002-03

| | | | | , | , |
|-------------------------------|-----------------|-------------|-------------|-----------------|---------|
| | | Farms usin | ng a | Farms usin | g |
| | | computer | | the Interne | t |
| | AII | for busines | SS | for busines | s |
| | farms | operations | (a) | operations | (a) |
| | ••••• | | | | |
| | no. | no. | % | no. | % |
| | 110. | 110. | 70 | 110. | 70 |
| • • • • • • • • • • • • • • • | • • • • • • • • | | • • • • • • | • • • • • • • • | • • • • |
| New South Wales | | | | | |
| Sydney | 1 786 | 838 | 47 | 654 | 37 |
| Hunter | 3 011 | 1 379 | 46 | ^ 1 158 | ^ 39 |
| Illawarra | 953 | ^ 491 | ^ 52 | ^ 416 | ^ 44 |
| Richmond-Tweed | 2 997 | 1 270 | 42 | 1 009 | 34 |
| Mid-North Coast | 2 920 | ^1088 | ^ 37 | ^ 943 | ^ 32 |
| Northern | 6 264 | 3 436 | 55 | 2 960 | 47 |
| North Western | 4 337 | 2 567 | 59 | 2 120 | 49 |
| Central West | 5 468 | 3 002 | 55 | 2 549 | 47 |
| South Eastern | 4 373 | 2 180 | 50 | 1 747 | 40 |
| Murrumbidgee | 4 665 | 2 429 | 52 | 2 130 | 46 |
| Murray | 4 016 | 2 357 | 59 | 2 107 | 53 |
| Far West | 305 | ^ 171 | ^ 56 | ^ 158 | ^ 52 |
| Total | 41 093 | 21 207 | 52 | 17 950 | 44 |
| rotar | 41 093 | 21 201 | 52 | 11 950 | 44 |
| Victoria | | | | | |
| Melbourne | 2 594 | 1 384 | 53 | 1 165 | 45 |
| Barwon | 1 785 | 817 | 46 | ^ 591 | ^ 33 |
| Western District | 4 305 | 2 137 | 50 | ^1624 | ^ 38 |
| Central Highlands | 1 971 | 820 | 42 | 686 | 35 |
| Wimmera | 2 806 | 1 549 | 55 | 1 384 | 49 |
| Mallee | 4 097 | 2 027 | 50 | 1 846 | 45 |
| Loddon | 2 035 | 849 | 42 | 690 | 34 |
| Goulburn | 5 781 | 3 222 | 56 | 2 572 | 45 |
| Ovens-Murray | 2 132 | 973 | 46 | ^ 638 | ^ 30 |
| East Gippsland | 2 364 | 1 014 | 43 | ^ 803 | ^ 34 |
| Gippsland | 3 343 | ^ 1 584 | ^ 47 | ^ 1 165 | ^ 35 |
| Total | 33 212 | 16 375 | 49 | 13 162 | 40 |
| | | | | | |
| Queensland | | | | | |
| Brisbane | 908 | 447 | 49 | 365 | 40 |
| Moreton | 3 400 | 1 487 | 44 | ^ 1 254 | ^ 37 |
| Wide Bay-Burnett | 5 115 | 2 912 | 57 | 2 239 | 44 |
| Darling Downs | 6 007 | 3 042 | 51 | 2 640 | 44 |
| South West | 1 615 | 1 011 | 63 | 887 | 55 |
| Fitzroy | 2 760 | ^ 1 247 | ^ 45 | ^ 1 048 | ^ 38 |
| Central West | 661 | ^ 422 | ^ 64 | ^ 413 | ^ 63 |
| Mackay | 2 058 | 1 296 | 63 | 1 114 | 54 |
| Northern | 1 816 | 1 078 | 59 | 975 | 54 |
| Far North | 2 907 | 1 557 | 54 | 1 285 | 44 |
| North West | 443 | 356 | 80 | ^ 325 | ^ 73 |
| Total | 27 688 | 14 853 | 54 | 12 545 | 45 |
| | | | | | |
| South Australia | 044 | 470 | | | |
| Adelaide | 911 | 479 | 53 | ^ 374 | ^ 41 |
| Outer Adelaide | 2 738 | 1 565 | 57 | 1 286 | 47 |
| Yorke and Lower | 0.04= | | | | |
| North | 2 049 | 1 548 | 76 | 1 321 | 65 |
| Murray Lands | 3 344 | 2 083 | 62 | 1 855 | 56 |
| South East | 2 534 | 1 522 | 60 | 1 299 | 51 |
| Eyre | 1 490 | 964 | 65 | 780 | 52 |
| Northern | 1 196 | 770 | 64 | 698 | 58 |
| Total | 14 262 | 8 930 | 63 | 7 612 | 53 |
| • • • • • • • • • • • • • • | | | | | |
| | | | | | |

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

⁽a) Computer and Internet usage are derived items. See paragraphs 4 and 5 of Explanatory Notes for derivation methodology.



FARM USE OF COMPUTERS AND THE INTERNET, by Statistical Division—2002-03

| | | Farms usir | ng a | Farms usi | ng |
|---------------------------------|---------|-------------|-----------|------------|------|
| | | computer | | the Intern | et |
| | All | for busines | SS | for busine | SS |
| | farms | operations | (a) | operations | |
| | no. | no. | % | no. | % |
| | | | • • • • • | | |
| Western Australia | | | | | |
| Perth | 1 113 | 622 | 56 | 519 | 47 |
| South West | 2 548 | 1 520 | 60 | 1 212 | 48 |
| Lower Great | 20.0 | 1 020 | 00 | | .0 |
| Southern | 2 027 | 1 334 | 66 | 1 197 | 59 |
| Upper Great | | | | | |
| Southern | 1 650 | 1 173 | 71 | 1 029 | 62 |
| Midlands | 2 906 | 2 149 | 74 | 1 953 | 67 |
| South Eastern | 618 | 458 | 74 | 419 | 68 |
| Central | 1 205 | 874 | 73 | 797 | 66 |
| Pilbara | 58 | ^34 | ^ 59 | ^ 30 | ^ 51 |
| Kimberley | 145 | ^ 109 | ^ 75 | ^ 104 | ^ 72 |
| Total | 12 270 | 8 271 | 67 | 7 260 | 59 |
| Tasmania | | | | | |
| Greater Hobart | ^ 237 | ^ 107 | ^ 45 | ^ 97 | ^ 41 |
| Southern | 807 | 420 | 52 | 382 | 47 |
| Northern | 1 426 | 723 | 51 | 558 | 39 |
| Mersey-Lyell | 1 499 | 770 | 51 | 642 | 43 |
| Total | 3 969 | 2 020 | 51 | 1 679 | 42 |
| Northern Territory | | | | | |
| Total | 397 | 226 | 57 | 206 | 52 |
| Australian Capital Territory | | | | | |
| Total | 91 | 54 | 59 | 46 | 51 |
| Australia | 132 983 | 71 936 | 54 | 60 459 | 46 |

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

⁽a) Computer and Internet usage are derived items. See paragraphs 4 and 5 of Explanatory Notes for derivation methodology.

FARM USE OF COMPUTERS AND THE INTERNET, BY INDUSTRY

INDUSTRY COMPARISONS

The proportions of farms using computers and the Internet varied across industries and within broad industry groups across states. The Northern Territory and the Australian Capital Territory were excluded from these comparisons due to the small number of farms in these territories in some of the broad industry groups.

COMPUTER USE

For the financial year ending 30 June 2003, the Horticulture and Fruit Growing, Dairy Cattle Farming and Other Crop Growing industries reported the highest proportion of farms using a computer (59%), and the Grain, Sheep and Beef Cattle Farming industry reported the lowest proportion of farms using a computer (52%). At a finer industry level, Cotton Growing had the highest use of computers (91%) and Beef Cattle Farming the lowest (41%).

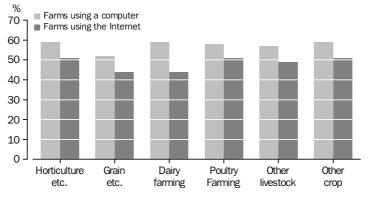
The greatest variation in the proportions of farms using a computer across the states was in Other Livestock Farming, with a difference of 34 percentage points between Western Australia (71%) and Tasmania (37%). The smallest variation was in Horticulture and Fruit Growing, for which the range was 12 percentage points between Western Australia (65%) and New South Wales (53%).

INTERNET USE

Use of the Internet for the year to 30 June 2003 was highest in the Horticultural and Fruit Growing, Poultry Farming and Other Crop Growing industries (51%) and lowest in the Grain, Sheep and Beef Cattle Farming and Dairy Cattle Farming industries (both 44%). As with computer use, at a finer industry level Cotton Growing had the highest use of the Internet (89%) and Beef Cattle Farming the lowest (33%).

Within broad industry groups, the greatest variation in the proportions of farms using the Internet across states was in Poultry Farming, with a difference of 34 percentage points between Tasmania (78%) and New South Wales (44%). The smallest variation was in Horticulture and Fruit Growing, for which the range was 10 percentage points between Tasmania (57%) and New South Wales (47%).

FARMS USING A COMPUTER OR THE INTERNET, by industry





FARM USE OF COMPUTERS AND THE INTERNET, by industry—2002-03

| | | | | , | |
|--------------------------------------|---------|--------------|-------|--------------|----------|
| | | Farms usin | ıg a | Farms usin | g |
| | | computer | 0 | the Interne | _ |
| | | • | | | |
| | All | for busines | SS | for busines | S |
| | farms | operations | (a) | operations | (a) |
| | ••••• | ••••• | ••••• | ••••• | ••••• |
| | no. | no. | % | no. | % |
| | 110. | 110. | /0 | 110. | /0 |
| | | | | | |
| | | | | | |
| Horticulture and fruit | | | | | |
| growing | | | | | |
| Plant Nurseries | 1 974 | 1 406 | 71 | 1 223 | 62 |
| Cut Flower and Flower | | | | | |
| Seed Growing | 833 | 529 | 64 | 466 | 56 |
| Vegetable Growing | 4 391 | 2 293 | 52 | 1 835 | 42 |
| 0 | | | | | |
| Grape Growing | 6 377 | 4 013 | 63 | 3 533 | 55 |
| Apple and Pear Growing | 891 | ^ 600 | ^ 67 | ^ 527 | ^ 59 |
| Stone Fruit Growing | 1 309 | 660 | 50 | 518 | 40 |
| Kiwi Fruit Growing | *48 | *38 | *81 | *38 | *81 |
| Fruit Growing n.e.c. | 5 390 | 3 016 | 56 | 2 648 | 49 |
| Total | 21 213 | 12 555 | 59 | 10 787 | 51 |
| | | | | | |
| Grain, sheep and beef cattle farming | | | | | |
| Grain Growing | 11 960 | 8 092 | 68 | 7 296 | 61 |
| <u> </u> | 11 300 | 0 032 | 00 | 1 250 | 01 |
| Grain-Sheep and | | | | | |
| Grain-Beef Cattle | | | | | |
| Farming | 17 104 | 11 242 | 66 | 9 886 | 58 |
| Sheep-Beef Cattle | | | | | |
| Farming | 10 097 | 4 911 | 49 | 4 083 | 40 |
| Sheep Farming | 13 250 | 6 655 | 50 | 5 376 | 41 |
| Beef Cattle Farming | 36 208 | 14 846 | 41 | 11 920 | 33 |
| Total | 88 619 | 45 747 | 52 | 38 561 | 44 |
| Total | 00 013 | 45 141 | 52 | 30 301 | 7-7 |
| Dairy cattle farming | | | | | |
| Total | 11 002 | 6 473 | EO | 4 966 | 44 |
| Total | 11 003 | 0 473 | 59 | 4 866 | 44 |
| Doubter forming | | | | | |
| Poultry farming | 705 | 404 | 00 | 440 | |
| Poultry Farming (Meat) | 735 | 481 | 66 | 419 | 57 |
| Poultry Farming (Eggs) | ^ 457 | 210 | 46 | 186 | 41 |
| Total | 1 192 | 691 | 58 | 605 | 51 |
| | | | | | |
| Other livestock farming | | | | | |
| Pig Farming | 1 009 | 624 | 62 | 531 | 53 |
| Other | ^ 1 636 | ^870 | ^ 53 | ^ 759 | ^ 46 |
| Total | 2 644 | 1 495 | 57 | 1 290 | 49 |
| | | | | | |
| Other crop growing | | | | | |
| Sugar Cane Growing | 4 762 | 2 755 | 58 | 2 297 | 48 |
| Cotton Growing | 520 | 2 755 475 | 91 | 2 297 465 | 46 89 |
| S | 320 | 4/5 | ЭT | 400 | 69 |
| Crop and Plant Growing | | | | | |
| n.e.c. | 1 655 | 880 | 53 | 800 | 48 |
| Total | 6 937 | 4 111 | 59 | 3 562 | 51 |
| | | | | | |
| Other(b) | | | | | |
| Total | 1 374 | ^ 866 | ^ 63 | ^ 788 | ^ 57 |
| | | | | | |
| Total | 132 983 | 71 936 | 54 | 60 459 | 46 |
| | | | | | |

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

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

⁽a) Computer and Internet usage are derived items. See paragraphs 4 and 5 of Explanatory Notes for derivation methodology.

⁽b) Relates to establishments with an EVAO of \$5,000 or more but which are classified to a non-Agriculture ANZSIC class.



FARM USE OF COMPUTERS AND THE INTERNET, by broad industry, by state/territory—2002-03

| | All farms | Farms using a computer for business operations(a) | | Farms using the Internet for business operations | et ss |
|---------------------------------------|---------------------|---|-------------|--|-----------------|
| | no. | no. | % | no. | % |
| • • • • • • • • • • • • • • • • | • • • • • • • • • • | • • • • • • • • | • • • • • • | • • • • • • • • | • • • • |
| Horticulture and fruit | | | | | |
| growing New South Wales | 5 518 | 2 923 | 53 | 2 568 | 47 |
| Victoria | 4 593 | 2 754 | 60 | 2 347 | 51 |
| Queensland | 4 324 | 2 567 | 59 | 2 163 | 50 |
| South Australia | 3 706 | 2 349 | 63 | 2 000 | 54 |
| Western Australia | 2 002 | 1 293 | 65 | 1 111 | 56 |
| Tasmania | 907 | 584 | 64 | 521 | 57 |
| Northern Territory | 154 | 77 | 50 | 70 | 46 |
| Australian Capital | | | | | |
| Territory | 10 | 9 | 90 | 9 | 90 |
| Total | 21 213 | 12 555 | 59 | 10 787 | 51 |
| Grain, sheep and beef cattle farming | | | | | |
| New South Wales | 31 215 | 15 676 | 50 | 13 159 | 42 |
| Victoria | 20 388 | 8 884 | 44 | 7 191 | 35 |
| Queensland | 15 837 | 7 935 | 50 | 6 776 | 43 |
| South Australia | 9 382 | 5 865 | 63 | 4 954 | 53 |
| Western Australia | 9 329 | 6 322 | 68 | 5 592 | 60 |
| Tasmania | 2 188 | 897 | 41 | 738 | 34 |
| Northern Territory | 207 | 127 | 61 | 119 | 58 |
| Australian Capital | 73 | 40 | 55 | 32 | 44 |
| Territory <i>Total</i> | 88 619 | 40 45 747 | 55 52 | 32 38 561 | 44 |
| TOtal | 88 019 | 45 141 | 52 | 36 301 | 44 |
| Dairy cattle farming | | | | | |
| New South Wales | 1 602 | 908 | 57 | ^ 705 | ^ 44 |
| Victoria | 6 615 | 3 853 | 58 | 2 841 | 43 |
| Queensland | 1 258 | ^ 694 | ^ 55 | ^ 498 | ^ 40 |
| South Australia | 591 | ^ 363 | ^ 61 | ^ 336 | ^ 57 |
| Western Australia | 360 | ^ 266 | ^ 74 | ^ 206 | ^ 57 |
| Tasmania | np | np | np | np | np |
| Northern Territory | np | np | np | np | np |
| Australian Capital | | | | | |
| Territory <i>Total</i> | np 11 003 | np 6 473 | np 59 | np 4 866 | np <i>44</i> |
| Total | 11 003 | 0473 | 39 | 4 800 | 44 |
| Poultry farming | | | | | |
| New South Wales | 453 | 234 | 52 | 200 | 44 |
| Victoria | ^ 288 | ^ 160 | ^ 56 | ^ 151 | ^ 53 |
| Queensland | 191 | 126 | 66 | 105 | 55 |
| South Australia | 95 | 66 | 70 | 58 | 61 |
| Western Australia | 126 | 75 | 60 | 63 | 50 |
| Tasmania | ^ 32 | ^ 26 | ^ 81 | ^ 25 | ^ 78 |
| Northern Territory Australian Capital | np | np | np | np | np |
| Territory | np | np | np | np | np |
| Total | 1 192 | 691 | 58 | 605 | 51 |

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

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

⁽a) Computer and Internet usage are derived items. See paragraphs 4 and 5 of Explanatory Notes for derivation methodology.



FARM USE OF COMPUTERS AND THE INTERNET, by broad industry, by

state/territory—2002-03 continued

| | | Farms using a | | Farms us | ing |
|-------------------------------|-------------------|-----------------|-----------|-------------------|-----------|
| | | computer | computer | | net |
| | All | for busine | ess | for busine | ess |
| | farms | operation | s(a) | operation | s(a) |
| | no. | no. | % | no. | % |
| • • • • • • • • • • • • • • • | • • • • • • • • • | • • • • • • • • | • • • • • | • • • • • • • • • | • • • • • |
| Other livestock farming | | | | | |
| New South Wales | ^ 822 | ^ 477 | ^ 58 | ^ 424 | ^ 52 |
| Victoria | ^ 615 | ^301 | ^ 49 | ^ 241 | ^ 39 |
| Queensland | ^ 698 | ^ 401 | ^ 57 | ^ 348 | ^ 50 |
| South Australia | ^ 215 | ^ 129 | ^ 60 | ^ 116 | ^ 54 |
| Western Australia | ^ 227 | ^ 162 | ^ 71 | ^ 139 | ^61 |
| Tasmania | ^ 58 | ^ 22 | ^ 37 | *18 | *31 |
| Northern Territory | np | np | np | np | np |
| Australian Capital | | | | | |
| Territory | np | np | np | np | np |
| Total | 2 644 | 1 495 | 57 | 1 290 | 49 |
| Other crop growing | | | | | |
| New South Wales | 985 | 694 | 71 | 633 | 64 |
| Victoria | ^ 449 | ^ 238 | ^ 53 | ^ 224 | ^ 50 |
| Queensland | 5 195 | 3 003 | 58 | 2 537 | 49 |
| South Australia | ^ 120 | *63 | *52 | *61 | *50 |
| Western Australia | *63 | *41 | *65 | **np | **np |
| Tasmania | 112 | ^ 65 | ^ 58 | ^ 63 | ^ 56 |
| Northern Territory | 12 | 7 | 58 | 5 | 42 |
| Australian Capital | | | | | |
| Territory | _ | _ | _ | _ | _ |
| Total | 6 937 | 4 111 | 59 | 3 562 | 51 |

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

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

nil or rounded to zero (including null cells)

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

⁽a) Computer and Internet usage are derived items. See paragraphs 4 and 5 of Explanatory Notes for derivation methodology.

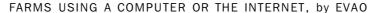
FARM USE OF COMPUTERS AND THE INTERNET, BY FARM SIZE

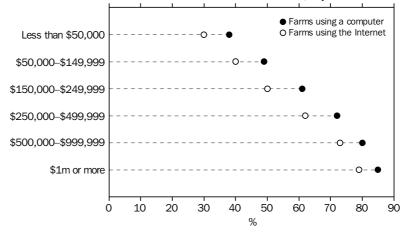
FARM SIZE AND USE OF INFORMATION TECHNOLOGY

For the year ended 30 June 2003, there was a strong relationship between the proportion of farms using computers and the Internet and the estimated value of agricultural operations (EVAO). As the graph below shows, the proportion of farms using computers and the Internet increased with farm size.

Within broad industries a similar size pattern was shown, however the increase across farm sizes differed for each industry. For example, across farm sizes Internet use ranged from 42% to 72% in the Other Livestock Farming industry compared with a range of between 30% and 80% in Dairy Cattle Farming.

A 50% Internet usage rate was achieved for the broad industry Poultry Farming in the EVAO range of \$50,000–\$149,999. The broad industries of Grain, Sheep and Beef Cattle Farming and Other Crop Growing required an EVAO range of \$150,000–\$249,999 to achieve this usage rate. Other broad industries were in higher EVAO ranges, Horticulture and Fruit Growing and Other Livestock Farming \$250,000–\$499,999 and Dairy Cattle Farming \$500,000–\$999,999 before achieving a 50% Internet usage rate.







FARM USE OF COMPUTERS AND THE INTERNET, by broad industry, by EVAO—2002-03

| | | Farms using | | | | |
|---|------------------|-------------|-----------|-----------------|---------|--|
| | computer | | | the Internet | | |
| | All | for busines | SS | for busines | SS | |
| | farms | operations | (a) | operations(a) | | |
| | | | ``······· | | ······· | |
| | no. | no. | % | no. | % | |
| • | | | | • • • • • • • • | | |
| Horticulture and fruit growing | | | | | | |
| Less than \$50,000 | 5 972 | 2 858 | 48 | 2 434 | 41 | |
| \$50,000-\$149,000 | 6 859 | 3 877 | 57 | 3 363 | 49 | |
| \$150,000-\$249,999 | 2 761 | 1 692 | 61 | 1 349 | 49 | |
| \$250,000-\$499,999 | 2 659 | 1 809 | 68 | 1 526 | 57 | |
| \$500,000-\$999,999 | 1 696 | 1 255 | 74 | 1 141 | 67 | |
| \$1m or more | 1 266 | 1 064 | 84 | 974 | 77 | |
| Total | 21 213 | 12 555 | 59 | 10 787 | 51 | |
| One in the second back settle | | | | | | |
| Grain, sheep and beef cattle farming | | | | | | |
| Less than \$50,000 | 31 354 | 10 773 | 34 | 8 453 | 27 | |
| \$50,000-\$149,000 | 25 261 | 11 878 | 47 | 9 609 | 38 | |
| | | | | | | |
| \$150,000-\$249,999 | 11 897 12 282 | 7 311 | 62 | 6 121 8 173 | 52 | |
| \$250,000-\$499,999 | | 9 195 | 75 | | 67 | |
| \$500,000-\$999,999 | 5 793 | 4 836 | 84 | 4 529 | 78 | |
| \$1m or more | 2 033 | 1 754 | 86 | 1 676 | 83 | |
| Total | 88 619 | 45 747 | 52 | 38 561 | 44 | |
| Dairy cattle farming | | | | | | |
| Less than \$50,000 | ^ 648 | *357 | *55 | *194 | *30 | |
| \$50,000-\$149,000 | 2 294 | ^ 911 | ^ 40 | ^ 705 | ^31 | |
| \$150,000-\$249,999 | 2 885 | ^ 1 642 | ^ 57 | ^ 1 203 | ^ 42 | |
| \$250,000-\$499,999 | 3 655 | 2 426 | 66 | ^ 1 774 | ^ 49 | |
| \$500,000-\$999,999 | 1 186 | ^ 836 | ^ 71 | ^ 722 | ^61 | |
| \$1m or more | ^ 336 | ^302 | ^ 90 | ^ 270 | ^ 80 | |
| Total | 11 003 | 6 473 | 59 | 4 866 | 44 | |
| | | | | | | |
| Poultry farming | ±4.40 | +00 | | *** | | |
| Less than \$50,000 | *148 | *28 | *19 | *26 | *17 | |
| \$50,000-\$149,000 | ^ 129 | ^ 71 | ^ 55 | ^ 66 | ^51 | |
| \$150,000-\$249,999 | ^ 93 | ^ 56 | ^61 | ^ 48 | ^ 52 | |
| \$250,000-\$499,999 | 258 | ^ 147 | ^ 57 | ^ 131 | ^ 51 | |
| \$500,000-\$999,999 | 308 | 203 | 66 | 171 | 56 | |
| \$1m or more | 256 | 186 | 73 | 163 | 64 | |
| Total | 1 192 | 691 | 58 | 605 | 51 | |
| Other livestock farming | | | | | | |
| Less than \$50,000 | 1 529 | ^ 785 | ^ 51 | ^ 693 | ^ 45 | |
| \$50,000-\$149,000 | ^ 364 | ^ 190 | ^ 52 | ^ 153 | ^ 42 | |
| \$150,000-\$249,999 | ^ 160 | *77 | *48 | *70 | *44 | |
| \$250,000-\$499,999 | ^ 249 | ^ 151 | ^61 | ^ 130 | ^ 52 | |
| \$500,000-\$999,999 | ^ 1 59 | ^ 134 | ^ 84 | ^ 112 | ^71 | |
| \$1m or more | 183 | 157 | 86 | 132 | 72 | |
| Total | 2 644 | 1 495 | 57 | 1 290 | 49 | |
| , otal | 2 044 | 1 433 | 31 | 1 230 | 43 | |

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

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

⁽a) Computer and Internet usage are derived items. See paragraphs 4 and 5 of Explanatory Notes for derivation methodology.

FARM USE OF COMPUTERS AND THE INTERNET, by broad industry, by **5.1** EVAO—2002–03 continued

| | | Farms usin | g a | Farms using | | |
|---|---------------------|---------------|-----------|-----------------|------|--|
| | | computer | | the Internet | | |
| | All | for busines | ss | for busines | ss | |
| | farms | operations | (a) | operations | (a) | |
| | no. | no. | % | no. | % | |
| • | • • • • • • • • • • | • • • • • • • | • • • • • | • • • • • • • • | | |
| Other crop growing | | | | | | |
| Less than \$50,000 | ^ 1 105 | ^ 505 | ^ 46 | ^ 415 | ^ 38 | |
| \$50,000-\$149,000 | 2 257 | ^ 1 158 | ^51 | ^ 923 | ^ 41 | |
| \$150,000-\$249,999 | 1 406 | ^876 | ^62 | ^ 737 | ^ 52 | |
| \$250,000-\$499,999 | 1 311 | 850 | 65 | ^ 792 | ^ 60 | |
| \$500,000-\$999,999 | ^ 481 | ^ 395 | ^82 | ^ 379 | ^ 79 | |
| \$1m or more | 377 | 328 | 87 | 316 | 84 | |
| Total | 6 937 | 4 111 | 59 | 3 562 | 51 | |
| Total Industry(b) | | | | | | |
| Less than \$50,000 | 41 405 | 15 610 | 38 | 12 482 | 30 | |
| \$50,000-\$149,000 | 37 537 | 18 368 | 49 | 15 068 | 40 | |
| \$150,000-\$249,999 | 19 325 | 11 738 | 61 | 9 611 | 50 | |
| \$250,000-\$499,999 | 20 545 | 14 689 | 72 | 12 633 | 62 | |
| \$500,000-\$999,999 | 9 687 | 7 716 | 80 | 7 112 | 73 | |
| \$1m or more | 4 484 | 3 816 | 85 | 3 553 | 79 | |
| Total | 132 983 | 71 936 | 54 | 60 459 | 46 | |

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

⁽a) Computer and Internet usage are derived items. See paragraphs 4 and 5 of Explanatory Notes for derivation methodology.

⁽b) Other industries is included in Total industry, but excluded from the table.



FARM USE OF COMPUTERS AND THE INTERNET, by state/territory, by EVAO—2002-03

| | All farms | Farms using a Farms using computer the Internet for business operations(a) operations(a) | | computer the Inte | | et ss |
|--|-----------------|--|-------------|-------------------|----------|----------|
| | no. | no. | % | no. | % | |
| • | • • • • • • • • | • • • • • • • • • | • • • • • • | • • • • • • • • | • • • • | |
| New South Wales | | | | | | |
| Less than \$50,000 | 15 036 | 5 706 | 38 51 | 4 494 | 30 | |
| \$50,000-\$149,000 \$150,000-\$249,999 | 12 270 5 963 | 6 200 3 571 | 60 | 5 255 2 980 | 43 50 | |
| \$250,000-\$249,999 | 5 050 | 3 535 | 70 | 3 190 | 63 | |
| \$500,000-\$999,999 | 1 898 | 1 482 | 78 | 1 346 | 71 | |
| \$1m or more | 877 | 713 | 81 | 685 | 78 | |
| Total | 41 093 | 21 207 | 52 | 17 950 | 44 | |
| Victoria | | | | | | |
| Less than \$50,000 | 10 055 | 3 327 | 33 | 2 566 | 26 | |
| \$50,000-\$149,000 | 9 513 | 4 201 | 44 | 3 315 | 35 | |
| \$150,000-\$249,999 | 5 449 | 3 061 | 56 | 2 457 | 45 | |
| \$250,000-\$499,999 | 5 377 | 3 615 | 67 | 2 827 | 53 | |
| \$500,000-\$999,999 | 1 940 | 1 420 | 73 | 1 302 | 67 | |
| \$1m or more | 880 | 751 | 85 | 696 | 79 40 | |
| Total | 33 212 | 16 375 | 49 | 13 162 | 40 | |
| Queensland | | | | | | |
| Less than \$50,000 | 8 966 | 3 444 | 38 | 2 897 | 32 | |
| \$50,000-\$149,000 | 8 449 | 4 099 | 49 | 3 322 | 39 | |
| \$150,000-\$249,999 \$250,000-\$499,999 | 3 384 | 2 177 | 64 71 | 1 744 | 52 61 | |
| \$500,000-\$499,999 | 3 838 1 825 | 2 707 1 394 | 71 76 | 2 356 1 288 | 71 | |
| \$1m or more | 1 226 | 1 032 | 84 | 937 | 76 | |
| Total | 27 688 | 14 853 | 54 | 12 545 | 45 | |
| South Australia | | | | | | |
| Less than \$50,000 | 3 085 | 1 312 | 43 | ^1 018 | ^ 33 | |
| \$50,000-\$149,000 | 3 753 | 2 024 | 54 | 1 644 | 44 | |
| \$150,000-\$249,999 | 2 467 | 1 609 | 65 | 1 361 | 55 | |
| \$250,000-\$499,999 | 3 021 | 2 335 | 77 | 2 080 | 69 | |
| \$500,000-\$999,999 | 1 392 | 1 162 | 83 | 1 060 | 76 | |
| \$1m or more | 545 | 488 | 90 | 449 | 83 | |
| Total | 14 262 | 8 930 | 63 | 7 612 | 53 | |
| Western Australia | | | | | | |
| Less than \$50,000 | 2 571 | 1 171 | 46 | ^ 956 | ^ 37 | |
| \$50,000-\$149,000 | 2 505 | 1 414 | 56 | 1 195 | 48 | |
| \$150,000-\$249,999 | 1 499 | 991 | 66 | 801 | 53 | |
| \$250,000-\$499,999 | 2 657 | 2 053 | 77 | 1 801 | 68 | |
| \$500,000–\$999,999 \$1m or more | 2 286 752 | 1 986 657 | 87 87 | 1 878 630 | 82 84 | |
| Total | 12 270 | 8 271 | 67 | 7 260 | 59 | |
| | | | | | | |
| Tasmania Less than \$50,000 | 1 552 | ^ 581 | ^37 | ^ 490 | ^ 32 | |
| \$50,000-\$149,000 | 945 | ^ 392 | ^ 42 | ^ 305 | ^ 32 | |
| \$150,000-\$249,999 | 518 | ^301 | ^ 58 | ^ 242 | ^ 47 | |
| \$250,000-\$499,999 | 538 | 404 | 75 | 339 | 63 | |
| \$500,000-\$999,999 | 287 | 230 | 80 | 203 | 71 | |
| \$1m or more | 129 | 113 | 87 | ^ 99 | ^ 77 | |
| Total | 3 969 | 2 020 | 51 | 1 679 | 42 | |
| | | | | | | |

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

⁽a) Computer and Internet usage are derived items. See paragraphs 4 and 5 of Explanatory $\frac{1}{2}$ Notes for derivation methodology.



FARM USE OF COMPUTERS AND THE INTERNET, by state/territory, by

EVAO—2002-03 continued

| | | Farms using a computer | | Farms using | Farms using the Internet for business | |
|---|-----------------|------------------------|--------------|-------------------|---------------------------------------|--|
| | | | | the Internet | | |
| | All | for busines | for business | | | |
| | farms | operations(a) | | operations(a) | | |
| | no. | no. | % | no. | % | |
| • | • • • • • • • • | • • • • • • • • • | • • • • • | • • • • • • • • • | • • • • | |
| Northern Territory | | | | | | |
| Less than \$50,000 | 90 | 41 | 46 | 37 | 41 | |
| \$50,000-\$149,000 | 79 | 28 | 35 | 24 | 30 | |
| \$150,000-\$249,999 | np | np | np | np | np | |
| \$250,000-\$499,999 | np | np | np | np | np | |
| \$500,000-\$999,999 | np | np | np | np | np | |
| \$1m or more | np | np | np | np | np | |
| Total | 397 | 226 | 57 | 206 | 52 | |
| Australian Capital Territory | | | | | | |
| Less than \$50,000 | 51 | 28 | 55 | 24 | 47 | |
| \$50.000-\$149.000 | 23 | 11 | 48 | 8 | 35 | |
| \$150,000-\$249,999 | np | np | np | np | np | |
| \$250,000-\$499,999 | np | np | np | np | np | |
| \$500,000-\$999,999 | np | np | np | np | np | |
| \$1m or more | np | np | np | np | np | |
| Total | 91 | 54 | 59 | 46 | 51 | |
| Australia | | | | | | |
| Less than \$50,000 | 41 405 | 15 610 | 38 | 12 482 | 30 | |
| \$50,000-\$149,000 | 37 537 | 18 368 | 49 | 15 068 | 40 | |
| \$150.000-\$249.999 | 19 325 | 11 738 | 61 | 9 611 | 50 | |
| \$250,000-\$499,999 | 20 545 | 14 689 | 72 | 12 633 | 62 | |
| \$500,000-\$999,999 | 9 687 | 7 716 | 80 | 7 112 | 73 | |
| \$1m or more | 4 484 | 3 816 | 85 | 3 553 | 79 | |
| Total | 132 983 | 71 936 | 54 | 60 459 | 46 | |

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

⁽a) Computer and Internet usage are derived items. See paragraphs 4 and 5 of Explanatory Notes for derivation methodology.

EXPLANATORY NOTES

INTRODUCTION

1 This publication contains final estimates for the computer and Internet use indicators collected in the 2002–03 Agricultural Survey. Some comparable data from the 2001–2002 Agricultural Survey have also been included.

SCOPE AND COVERAGE

2 The estimates are based on information obtained from the Agricultural Survey in respect of the year ended 30 June 2003. The scope of the 2002–03 Agricultural Survey was farms with an estimated value of agricultural operations (EVAO) of \$5,000 or more. The 2001–02 Agricultural Survey had a total sample of approximately 35,000 farms. For the 2002-2003 Agriculture Survey, a sub-sample of 28,000 farms from the 2001-2002 selection was used.

GEOGRAPHICAL, INDUSTRY
AND SIZE CLASSIFICATIONS

- **3** The data contained in tables in this publication have, where appropriate, been classified on a geographical, industry and farm size basis by classifying farms:
 - to Statistical Divisions (SD) within States and Territories, as set out in the *Australian Standard Geographical Classification (ASGC)* (cat. no. 1216.0)
 - to industry according to the methodology described in Australia and New Zealand Standard Industrial Classification (ANZSIC) (cat. no. 1292.0)
 - to EVAO ranges according to the estimated value of agricultural operations (or activity) undertaken by a farm.

DERIVATION OF COMPUTER AND INTERNET USE

- **4** The 2002–03 Agricultural Survey collected information on whether the farm used either a computer or the Internet as part of its business operations during the year ended 30 June 2003, that is, computer and Internet use were not separately collected. A split between computer use and Internet use was derived by considering the computer and Internet activities undertaken as part of the farm's business operations.
- A farm was considered to have used the Internet if they undertook any of the following computer or Internet activities: obtained weather information; obtained market information; searched for the availability or cost of goods or services; purchased or ordered goods or services; accessed government web sites; paid bills via the Internet; or used e-mail. A farm was not considered to have used the Internet if the only activities recorded were: managed farm finances, farm record keeping or 'other computer or Internet activities'. Managing farm finances and farm record keeping were considered to be overwhelmingly computer only activities. While it was not possible to split the 'other computer and Internet activities' category, it is highly unlikely that a farm recording other Internet activity under this category would not have also recorded another Internet-related activity. Therefore, very little undercounting of Internet use will have occurred by excluding this category.

SAMPLE ERROR

6 The estimates in this publication are based on information obtained from a sample drawn from the total farm population in scope of the collection, and are subject to sampling variability; that is, they may differ from the figures that would have been produced if all farms had been included in the Agricultural 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 was taken. There are about two chances in three that a sample estimate will differ by less than one SE from

SAMPLE ERROR continued

the figure that would have been obtained if all farms had responded, and about nineteen chances in twenty that the difference will be less than two SEs.

- **7** In this publication, 'sampling' variability of the estimates is measured by the relative standard error (RSE) which is obtained by expressing the SE as a percentage of the estimate to which it refers.
- **8** Most published estimates have RSEs less than 5%. Estimates that have an estimated relative standard error between 10% and 25% are annotated with the symbol '^'. These estimates should be used with caution as they are subject to sampling variability too high for some purposes. Estimates with an RSE between 25% and 50% are annotated with the symbol '*', indicating that the estimate should be used with caution as it is subject to sampling variability too high for most practical purposes. Estimates with an RSE greater than 50% are annotated with the symbol '**', indicating that the sampling variability causes the estimate to be considered too unreliable for general use and is not published.

SAMPLE ERROR continued

RELATIVE STANDARD ERRORS FOR SELECTED INDICATORS

| | Farms Using a computer | Farms using the Internet |
|---------------------------------|------------------------------|-----------------------------------|
| . | % | % |
| State | | |
| New South Wales | 2 | 2 |
| Victoria | 3 | 3 |
| Queensland | 3 | 3 |
| South Australia | 2 | 3 |
| Western Australia | 2 | 2 |
| Tasmania | 4 | 4 |
| Northern Territory | _ | _ |
| Australian Capital Territory | _ | _ |
| Australia | 1 | 1 |
| Industry Horticulture and Fruit | | |
| Growing | 2 | 2 |
| Grain, Sheep and Beef | 2 | 2 |
| Cattle Farming | 1 | 2 |
| Dairy Cattle Farming | 5 | 6 |
| Poultry Farming | 4 | 5 |
| Other Livestock Farming | 7 | 8 |
| Other Crop Growing | 4 | 5 |
| | 4 | 5 |
| Farm size | | |
| Less than \$50,000 | 4 | 4 |
| \$50,000-\$149,999 | 3 | 3 |
| \$150,000–\$249,999 | 3 | 3 |
| \$250,000-\$499,999 | 2 | 3 |
| \$500,000-\$999,000 | 2 | 3 |
| \$1m or more | 3 | 3 |
| | | |

- nil or rounded to zero (including null cells)
- **9** Note that in tables with cross classifications, (e.g. State by Industry), the resultant RSEs may be considerably greater than the RSEs shown in this table.
- **10** Proportions formed from the ratio of two estimates are also subject to sampling error. The size of the error depends on the accuracy of both the numerator and the denominator. In this publication the RSEs for proportions could not be calculated separately and have been set to be the same as the numerator. This will generally result in a conservatively higher estimate of the RSE of the proportion.

ACKNOWLEDGMENT

11 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

12 The most recent issue of other ABS publications on the use and production of information technology and telecommunication goods and services in Australia are listed below:

Business Use of Information Technology, Australia, 2002–03 (cat. no. 8129.0) Government Use of Information Technology, 2002–2003 (cat. no. 8119.0) Household Use of Information Technology, Australia, 2001–02 (cat. no. 8146.0) Information Technology, Australia, 2000–01 (cat. no. 8126.0) Internet Activity, Australia, March 2004 (cat. no. 8153.0) Use of Information Technology on Farms, June 2002 (cat. no. 8150.0)

ABS DATA AVAILABLE ON REQUEST

13 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 Phil Nolen, Canberra, (02) 6252 5096 or the National Information Referral Service on 1300 135 070.

ABBREVIATIONS AND SYMBOLS

14 The following abbreviations and symbols have been used in this publication:

ABS Australian Bureau of Statistics

ANZSIC Australian and New Zealand Standard Industrial Classification

EVAO estimated value of agricultural operations

np not available for publication but included in totals where applicable

RSE relative standard error SE standard error

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

21



FOR MORE INFORMATION .

INTERNET www.abs.gov.au the ABS web site is the best place to

start for access to summary data from our latest publications, information about the ABS, advice about upcoming releases, our catalogue, and Australia Now—a

statistical profile.

LIBRARY A range of ABS publications is available from public and

tertiary libraries Australia-wide. Contact your nearest library to determine whether it has the ABS statistics you require,

or visit our web site for a list of libraries.

CPI INFOLINE For current and historical Consumer Price Index data, call

1902 981 074 (call cost 77c per minute).

DIAL-A-STATISTIC For the latest figures for National Accounts, Balance of

Payments, Labour Force, Average Weekly Earnings, Estimated Resident Population and the Consumer Price Index call 1900 986 400 (call cost 77c per minute).

INFORMATION SERVICE

Data already published that can be provided within five minutes will be free of charge. Our information consultants can also help you to access the full range of ABS information—ABS user pays services can be tailored to your needs, time frame and budget. Publications may be purchased. Specialists are on hand to help you with analytical or methodological advice.

PHONE 1300 135 070

EMAIL client.services@abs.gov.au

FAX 1300 135 211

POST Client Services, ABS, GPO Box 796, Sydney NSW 2001

WHY NOT SUBSCRIBE?

ABS subscription services provide regular, convenient and prompt deliveries of selected ABS publications and products as they are released. Email delivery of monthly and quarterly publications is available.

PHONE 1300 366 323

EMAIL subscriptions@abs.gov.au

FAX (03) 9615 7848

POST Subscription Services, ABS, GPO Box 2796Y,

Melbourne Vic 3001



RRP \$21.00