

### **INTERNET ACTIVITY**

AUSTRALIA

EMBARGO: 11.30AM (CANBERRA TIME) THURS 27 SEP 2001

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■ For further information about these and related statistics, contact the National Information Service on 1300 135 070 or Dean Bloom on Brisbane 07 3222 6404.

#### NOTES

FORTHCOMING ISSUES

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ABOUT THIS PUBLICATION

This publication presents a detailed analysis of Internet activity conducted through the Internet Service Provider (ISP) industry in Australia. It contains results from all identified ISPs operating in Australia in respect of the three months ended June 2001.

The Internet Activity Survey is a quarterly survey which collects details on the access characteristics of ISPs in Australia. The survey population includes all ISPs registered with the Telecommunications Industry Ombudsman (TIO) and those identified from other sources.

The quarterly frequency of the collection will help measure changes in the structure of the ISP industry and the number of Australian households and organisations obtaining access to the Internet through ISPs. It will also measure movements in the type and amount of infrastructure available to provide Internet connectivity.

DATA NOTES

During the June quarter 2001 a significant ISP ceased trading which has contributed to the fall in the number of Points of Presence (POPs) and the number of access lines recorded, particularly in NSW. There is also expected to be a lag effect in subscribers formerly with this ISP moving to another ISP.

MORE INFORMATION ON ABS INFORMATION TECHNOLOGY STATISTICS Information about ABS activities in the field of information technology statistics is available from the Information Technology Statistics theme page on the ABS Web site <URL: 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 18 of the Explanatory Notes of this publication.

COMMENTS

The ABS welcomes comments and suggestions from users regarding survey content and publication presentation. These comments should be addressed to the Director, Science and Technology Statistics Section, Australian Bureau of Statistics, PO Box 10 Belconnen, ACT, 2616.

HISTORICAL COMPARISONS

Statistics in tables 1.1 and 1.2 have been presented to allow comparison of data between current and three previous quarters.

R.W. Edwards

Acting Australian Statistician

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### CHAPTER 1 SUMMARY OF INTERNET ACTIVITY FINDINGS ...

#### HIGHLIGHTS

- The number of ISPs in Australia fell 6% to 628 during the June quarter following a fall of 4% between December 2000 and March 2001.
- The number of Points of Presence (POPs) fell 5%.
- The number of access lines available to subscribers was down 2% from the March number.
- The number of subscribers increased by 213,000 (5.4%).
- The volume of data downloaded for the June quarter 2001 increased by 164 million Mbs (16%).

ISPs

There were 628 ISPs in Australia supplying Internet access services to 4.2 million active subscribers at the end of June quarter 2001. There were:

- 5 Very large ISPs (with more than 100,000 subscribers) which provided Internet access to 57% (2.4 million) of all Internet subscribers.
- 32 Large ISPs (with 10,001 to 100,000 subscribers) with 29% (1.2 million) of subscribers.
- 156 Medium ISPs (with 1,001 to 10,000 subscribers) with 11% (0.5 million) of subscribers.
- lacksquare 321 Small ISPs (with 101 to 1,000 subscribers) with 3% (0.14 million) of subscribers.
- 114 Very small ISPs (with 100 or fewer subscribers) with only 0.1% (5,000) of subscribers.

There was a decrease of 37 ISPs overall from the March quarter 2001. The majority of these were in the Very Small size range (decrease of 15). The change can be attributed to ISPs leaving the industry.

#### INTERNET SUBSCRIBERS

Internet subscribers are customers (individuals or businesses) with ISP accounts. Counts of subscribers differ from counts of people/organisations/households with Internet access. See paragraph 5 of the Explanatory Notes for more information.

Of the 4.2 million Internet subscribers in Australia, there were 3.7 million Household subscribers and 508,000 Business and government subscribers.

At the end of the June quarter 2001, there were 187,000 more Household Internet subscribers and 26,000 more Business and government Internet subscribers than at the end of the March quarter 2001. Note that some of this movement is due to the way some ISPs classify subscribers.

#### POPs AND ACCESS LINES

A POP is a geographical location where a subscriber can access (connect to) an ISP via access lines. POPs and access lines continue to decrease as ISPs leave the industry. Across Australia, ISPs provided 2,200 POPs and 480,600 access lines, which indicates that on average there were 8.7 subscribers per Internet access line.

DATA DOWNLOADED

There were 1,204 million megabytes (Mbs) of data downloaded by Internet subscribers during the June quarter 2001, which is an average of 288 Mbs per subscriber. This is slightly higher than the March quarter 2001 level. Household subscribers downloaded 648 million Mbs (average of 176 Mbs per subscriber) and Business and government subscribers downloaded 557 million Mbs (average of 1,096 Mbs per subscriber). Volume of data downloaded has increased with an increase in subscribers.

STATE DATA

From the March quarter to the June quarter 2001, the following changes occurred at a regional level:

- New South Wales ISPs decreased by 17, POPs decreased by 45, access lines decreased by 14,653, subscribers increased by 19,000 and data downloaded by subscribers increased by 55 million Mbs.
- Victoria ISPs decreased by 22, POPs decreased by 41, access lines increased by 4,902, subscribers increased by 107,000 and data downloaded by subscribers increased by 76 million Mbs.
- Queensland ISPs decreased by 3, POPs decreased by 8, access lines increased by 650, subscribers increased by 53,000 and data downloaded by subscribers increased by 14 million Mbs.
- South Australia ISPs decreased by 2, POPs decreased by 5, access lines decreased by 76, subscribers increased by 14,000 and data downloaded by subscribers increased by 14 million Mbs.
- Western Australia ISPs decreased by 7, POPs decreased by 6, access lines increased by 108, subscribers increased by 16,000 and data downloaded by subscribers increased by 2 million Mbs.
- Tasmania ISPs decreased by 4, POPs remained constant at 73, access lines decreased by 470, subscribers increased by 6,000 and data downloaded by subscribers increased by 2 million Mbs.
- Northern Territory ISPs decreased by 1, POPs decreased by 1, access lines decreased by 434, subscribers increased by 2,000 and data downloaded by subscribers remained constant at 9 million Mbs.
- Australia Capital Territory ISPs decreased by 5, POPs decreased by 4, access lines increased by 465, subscribers decreased by 4,000 and data downloaded by subscribers increased by 2 million Mbs.



# 1.1 INTERNET ACTIVITY SUMMARY, AUSTRALIA ......

		September Quarter 2000	December Quarter 2000	March Quarter 2001	June Quarter 2001				
ISPs(a)									
Very small	no.	132	129	129	114				
Small	no.	377	359	330	321				
Medium	no.	173	171	169	156				
Large	no.	28	31	31	32				
Very large	no.	8	6	6	5				
Total	no.	718	696	665	628				
Internet access									
Points of Presence	no.	2 244	2 394	2 310	2 200				
Access lines	no.	521 645	515 740	490 108	480 600				
Subscribers									
Business and government	'000	432	512	482	508				
Household	'000	3 417	3 410	3 486	3 673				
All	'000	3 849	3 921	3 968	4 181				
Data downloaded									
Business and government	million Mbs	457	467	428	557				
Household	million Mbs	595	583	611	648				
Total	million Mbs	1 052	1 050	1 040	1 204				

<sup>(</sup>a) See paragraph 7 of Explanatory notes.



# 1.2 STATE AND TERRITORY SUMMARY .....

	ISPs	POPs	Access lines	All subscribers	Data downloaded by subscribers
0					million
Quarter	no.	no.	no.	'000	Mbs
• • • • • • • • • • •	NE	W SOUTH	WALES	• • • • • • • •	• • • • • • •
2001					
June	266	736	142 600	1 303	392
March	283	781	157 253	1 284	337
2000 December	291	804	187 150	1 318	309
September	299	738	176 078	1 301	336
• • • • • • • • • • • •			• • • • • • • •	• • • • • • • •	• • • • • • •
		VICTOR	RIA		
2001					
June March	226 248	459 500	142 367 137 465	1 154 1 047	326 250
	248	500	137 400	1 047	250
2000 December	264	548	134 710	1 085	333
September	267	505	148 583	1 020	327
• • • • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •
		QUEENSL	.AND		
2001					
June	167	429	99 885	856	215
March	170	437	99 235	803	201
2000	470	400	101 000	750	
December September	176 177	438 427	101 629 96 035	752 771	174 181
	S	DUTH AUS	TRALIA		
2001					
June	71	181	31 592	292	102
March	73	186	31 668	278	88
2000 December	78	185	31 462	254	84
September	78	176	28 324	246	59
				• • • • • • • •	
	WE	STERN AU	STRALIA		
2001					
June	102	233	40 969	373	115
March	109	239	40 861	357	113
2000					
December September	120 113	255 233	37 860 47 891	318 318	101 99
September	113	233	47 691	316	99
• • • • • • • • • • • •		TASMA	NIA	• • • • • • • •	•••••
2001					
June	28	73	10 323	94	19
March	32	73	10 793	88	17
2000					
December September	33 30	72 66	10 627 8 458	83 76	16 14
ochremner	30	00	0 400	10	14



# 1.2 STATE AND TERRITORY SUMMARY continued .....

	ISPs	POPs	Access lines	All subscribers	Data downloaded by subscribers
Quarter	no.	no.	no.	'000	million Mbs
• • • • • • • • • • •	NOR	THERN TE	RRITORY	• • • • • • •	• • • • • •
2001 June March 2000	19 20	31 32	4 089 4 523	40 38	9
December September	18 17	30 30	4 095 3 183	36 30	9
• • • • • • • • • • •	AUSTRAL	IAN CAPIT	AL TERRI	TORY	• • • • • • •
<b>2001</b> June March	52 57	58 62	8 775 8 310	69 73	26 24
2000 December September	56 58	62 69	8 207 13 093	74 86	24 27
• • • • • • • • • • •	T	OTAL AUS	TRALIA	• • • • • • •	• • • • • • •
<b>2001</b> June March	628 665	2 200 2 310	480 600 490 108	4 181 3 968	1 204 1 040
2000 December September	696 718	2 394 2 244	515 740 521 645	3 921 3 849	1 050 1 052

### CHAPTER 2

#### SUBSCRIBER CHARACTERISTICS .....

#### SUBSCRIBERS

Active subscribers are defined as customers having accounts with ISPs who have accessed the Internet or paid for access to the Internet during the 90 days of the reference period. Counts of subscribers differ from counts of people/organisations/households with Internet access. See paragraph 5 of the Explanatory Notes for more information.

At the end of the June quarter 2001, there were 4.2 million active Internet subscribers in Australia comprising 3.7 million Household Internet subscribers and 508,000 Business and government Internet subscribers.

Only 4% of subscribers had permanent access to the Internet, with the remainder having dial-up access.

SUBSCRIBER GROWTH

At the end of the June quarter 2001, there were 187,000 more Household Internet subscribers and 26,000 more Business and government Internet subscribers.

ACCESS TECHNOLOGY

The principal Internet access technology utilised by subscribers for the June quarter 2001 was analog connection with 97% (3.9 million) of dial-up and 29% (55,000) of permanent subscribers connected to the Internet by an analog line.

ACCESS PLANS

Of the 4.2 million Internet subscribers, 7% (277,000) were on a free Internet access plan. This was an increase of 23,000 from the March quarter. Nearly all (97%) of the free Internet access plans related to Household subscribers.

The majority of Internet subscribers were either on a monthly/quarterly/annual access plan (73% or 3 million subscribers), or an hourly access plan (19% or 0.8 million subscribers).

There were 73% (373,000) of Business and government subscribers on a monthly/quarterly/annual access plan, while 73% (2.7 million) of Household subscribers used these plans. Hourly access plans accounted for 19% (97,000) of Business and government subscribers and 19% (708,000) of Household subscribers.



## 2.1 SELECTED CHARACTERISTICS OF INTERNET SUBSCRIBERS(a)(b) .....

	Business and		
	government	Household	
	subscribers	subscribers	Total
	'000	'000	'000
	BERS AT		G OF
Dial-up access	np	np	3 814
Permanent access	np	np	154
Total	482	3 486	3 968
NEW SUBSCE	RIBERS DU PERIO		FERENCE
Dial-up access	np	np	843
Permanent access	np	np	42
Total	58	827	884
SUBSCRIBE	RS AT ENI		ERENCE
Dial-up access	np	np	3 993
Permanent access	np	np	188
Total	508	3 673	4 181

- np not available for publication but included in totals where applicable, unless otherwise indicated
- nil or rounded to zero (including null cells)
- (a) Subscribers are defined as customers having accounts with ISPs who have accessed the Internet or paid for access to the Internet during the 90 days of the reference period. Counts of subscribers differ from counts of people/organisations/households with Internet access. See paragraph 5 of the Explanatory Notes for more information. (b) Subscribers at the beginning of the reference period plus new
- subscribers do not equal subscribers at the end of the reference period as this does not take into account subscribers who leave.



# 2.2 INTERNET ACCESS PLANS .....

	FREE ACC	ESS .	MONTHLY/QU ANNUAL ACC		HOURLY ACCESS				
	Subscribers Su	ıbscribers	Subscribers	Subscribers	Subscribers	Subscribers			
	'000	%	'000	%	'000	%			
BUSINESS AND GOVERNMENT SUBSCRIBERS									
Very small ISPs	np	np	1	50	np	np			
Small ISPs	_	_	23	71	9	28			
Medium ISPs	np	np	60	53	49	43			
Large ISPs	np	np	108	66	35	21			
Very large ISPs	np	np	180	91	np	np			
Total	7	1	373	73	97	19			
• • • • • • • • • • • •		• • • • • • • • •	• • • • • • • • • • • • •			• • • • • • •			
		HOUSE	HOLD SUBSCR	IBERS					
Very small ISPs	_	5	2	78	1	18			
Small ISPs	3	2	79	71	29	26			
Medium ISPs	3	1	225	65	112	32			
Large ISPs	167	16	624	61	232	22			
Very large ISPs	98	4	1 751	80	335	15			
Total	270	7	2 681	73	708	19			
• • • • • • • • • • •		• • • • • • • • •	• • • • • • • • • • • • •			• • • • • • •			
			ALL						
Very small ISPs	np	np	4	77	np	np			
Small ISPs	3	2	102	71	37	26			
Medium ISPs	np	np	285	62	161	35			
Large ISPs	np	np	732	61	267	22			
Very large ISPs	np	np	1 931	81	np	np			
Total	277	7	3 053	73	805	19			

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

nil or rounded to zero (including null cells)



# 2.2 INTERNET ACCESS PLANS continued .....

	VOLUME ACCESS O		OTHER A	CCESS	ALL ACCESS PLANS	
	Subscribers Su	ıbscribers	Subscribers S	Subscribers	Subscribers Sul	oscribers
	'000	%	'000	%	'000	%
• • • • • • • • • • • • •	BUSINESS	S AND GOV	ERNMENT	SUBSCRIBER	S	• • • • •
Very small ISPs	_	_	_	_	2	100
Small ISPs	np	np	np	np	32	100
Medium ISPs	3	3	np	np	113	100
Large ISPs	np	np	np	np	164	100
Very large ISPs	np	np	np	np	197	100
Total	np	np	np	np	508	100
• • • • • • • • • • • • •		HOUSEHOLD	SUBSCRI	BERS	• • • • • • • • • •	• • • • •
Very small ISPs	_	_	_	_	3	100
Small ISPs	1	1	_	_	111	100
Medium ISPs	5	1	_	_	345	100
Large ISPs	7	1	1	_	1 031	100
Very large ISPs	_	_	_	_	2 184	100
Total	12	_	2	_	3 673	100
• • • • • • • • • • • • •	• • • • • • • • •	• • • • • • • • •		• • • • • • • • • • •	• • • • • • • • • •	• • • • •
			ALL			
Very small ISPs	_	2	_	_	5	100
Small ISPs	np	np	np	np	143	100
Medium ISPs	8	2	np	np	458	100
Large ISPs	np	np	np	np	1 195	100
Very large ISPs	np	np	np	np	2 381	100
Total	np	np	np	np	4 181	100

nil or rounded to zero (including null cells)

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



# 2.3 INTERNET ACCESS TECHNOLOGY(a) .....

	Subscribers	Subscribers	ISPs providing subscribers with this access
	'000	%	no.
• • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •
Dial-up access			
Analog	3 879	97	571
Digital	63	2	82
Wireless	np	np	17
Satellite	np	np	9
Other	_	_	_
Total dial-up	3 993	100	602
Permanent access			
Analog	55	29	363
DSL	27	14	47
Digital	17	9	149
Cable	np	np	10
Satellite	np	np	19
Microwave	_	_	25
Other	2	1	19
Total permanent	188	100	441
Total	4 181	100	628

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

nil or rounded to zero (including null cells)

<sup>(</sup>a) ISPs are counted for each technology provided, hence the totals may not equal the sum of its components.

### CHAPTER 3

### TECHNICAL AND OTHER SERVICES PROVIDED BY ISPs .....

#### ACCESS SUPPORT

ISPs provided a variety of technical support services to their subscribers, including on-line, help desk and call out/on-site services. The support offered for the June quarter 2001 showed little change from the March quarter 2001.

On-line support services were provided by 80% of ISPs with the larger ISPs (Very large ISPs 100% and Large ISPs 94%) more likely to provide this service than smaller ISPs (Very small ISPs 73% and Small ISPs 80%).

Different levels of help desk support offered by ISPs were:

- business hours provided by 91% of ISPs;
- extended hours provided by 69% of ISPs; and
- 24 hours provided by 19% of ISPs.

Call out/on-site support services were provided by 68% of ISPs.

Other technical services provided by ISPs were start up disk/package services (provided by 49% of ISPs) and pager services (provided by 26% of ISPs).

#### RELATED SERVICES

Other related services provided by ISPs include:

- Web design provided by 70% of ISPs;
- Web hosting provided by 94% of ISPs;
- secure access or transactions capabilities provided by 53% of ISPs;
- network/systems integration provided by 63% of ISPs; and
- training services provided by 49% of ISPs.

It should be noted that for some larger ISPs these services were provided from other parts of the business that were not covered by the Internet Activity Survey and have therefore not been included in the statistics.

15



# 

		Very small ISPs	Small ISPs	Medium ISPs	Large ISPs	Very large ISPs	Total
• • • • • • • • • • • •	• • • • • •	• • • • • •	• • • • •	• • • • • • •	• • • • •	• • • • • • •	• • • • •
Online support service							
	no. %	83 73	257 80	130 83	30 94	5 100	505 80
Business hours help desk	70	13	80	83	94	100	80
	no.	96	293	148	27	5	569
Extended hours help desk	%	84	91	95	84	100	91
	no.	65	216	117	27	5	433
24 hour help desk support service	%	57	67	75	84	100	69
	no.	25	53	23	13	5	119
B. 4	%	22	17	15	41	100	19
Pager service	no.	28	84	41			164
	%	25	26	26	np np	np np	26
Call out/on site support service	70	25	20	20	пр	Пр	20
	no.	74	227	110	np	np	429
Start up disk/package	%	65	71	71	np	np	68
	no.	24	148	108	23	5	308
	%	21	46	69	72	100	49

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

<sup>(</sup>a) Proportions are of total ISPs in each size group.



# 3.2 RELATED SERVICES PROVIDED BY ISPs(a) ......

		Very small ISPs	Small ISPs	Medium ISPs	Large ISPs	Very large ISPs	Total
• • • • • • • • • • • •	• • • • • • •	• • • • • •	• • • • •	• • • • • • •		• • • • • • •	• • • •
Web design							
•	no.	80	245	104	np	np	441
	%	70	76	67	np	np	70
Training services							
. 0	no.	51	174	71	8	3	307
	%	45	54	46	25	60	49
Network/systems integration							
	no.	73	205	100	15	4	397
	%	64	64	64	47	80	63
Secure access or transactions							
	no.	41	162	105	19	3	330
	%	36	50	67	59	60	53
Web hosting							
J	no.	103	311	146	28	5	593
	%	90	97	94	88	100	94

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

<sup>(</sup>a) Proportions are of total ISPs in each size group.

### CHAPTER 4

#### SELECTED ACTIVITY DATA .....

DATA DOWNLOADED

1,204 million Mbs of data were downloaded by Internet subscribers during the June quarter 2001. Household subscribers downloaded 648 million Mbs (54%) while Business and government subscribers downloaded 557 million Mbs (46%). The majority of the Mbs downloaded came from the larger ISPs. Downloads from Very large ISPs accounted for 35% of the Mbs downloaded by subscribers, with Large ISPs and Medium ISPs accounting for 52% and 10% respectively.

There was an average of 288 Mbs of data downloaded per Internet subscriber during the three months of the June quarter 2001. Household subscribers downloaded an average of 176 Mbs of data and Business and government subscribers downloaded an average 1,096 Mbs of data.

Internet subscribers serviced by smaller ISPs tended to have higher average Mbs downloaded levels (an average of 800 Mbs for Very small ISPs and 238 Mbs for Small ISPs) than subscribers serviced by larger ISPs (178 Mbs for Very large ISPs and 524 Mbs for Large ISPs).



# 4.1 VOLUME OF DATA DOWNLOADED .....

	Data downloaded million	Data downloaded
	Mbs	%
		• • • • • • •
BUSINESS A SUB	ND GOVER SCRIBERS	RNMENT
Very small ISPs	3	1
Small ISPs	np	np
Medium ISPs	43	8
Large ISPs Very large ISPs	384 np	69 np
, ,	·	•
Total	557	100
HOUSEHOL	D SUBSCF	RIBERS
Very small ISPs	1	_
Small ISPs	np	np
Medium ISPs	74	11
Large ISPs Very large ISPs	242	37
	np	np
Total	648	100
ALL SU	JBSCRIBE	RS
Very small ISPs	4	_
Small ISPs	34	3
Medium ISPs	116	10
Large ISPs	626	52
Very large ISPs	424	35
Total	1 204	100
• • • • • • • • • • • •	• • • • • • • •	• • • • • • •

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

nil or rounded to zero (including null cells)

### CHAPTER 5

#### REGIONAL DATA .....

#### INTRODUCTION

The details presented on access lines, Internet subscribers and volume of data downloaded in the following tables relate to a combination of data for dial-up and permanent subscribers as well as Household and Business and government subscribers. Accordingly, the details should be used with caution as the proportions of types of subscribers would vary between regional areas.

#### STATISTICAL DIVISIONS

There was a wide distribution of ISPs across Statistical Divisions (SDs) in Australia, with the highest concentration occurring in the Capital city SDs. Capital city SDs accounted for 72% of access lines, 74% of subscribers and 82% of Mbs downloaded. They recorded an average of 8.9 subscribers per access line and an average of 317 Mbs of data downloaded per subscriber. This compares with 8.2 subscribers per access line and an average of 205 Mbs of data downloaded per subscriber for all other SDs across Australia.

- New South Wales Sydney SD had 202 ISPs servicing 943,000 subscribers (72% of State subscribers). All other SDs in the State had 114 ISPs servicing 360,000 subscribers.
- Victoria Melbourne SD had 195 ISPs servicing 939,000 subscribers (81% of State subscribers). All other SDs in the State had 63 ISPs servicing 215,000 subscribers.
- Queensland Brisbane SD had 109 ISPs servicing 512,000 subscribers (60% of State subscribers). All other SDs in the State had 96 ISPs servicing 344,000 subscribers.
- South Australia Adelaide SD had 63 ISPs servicing 250,000 subscribers (86% of State subscribers). All other SDs in the State had 19 ISPs servicing 42,000 subscribers.
- Western Australia Perth SD had 85 ISPs servicing 282,000 subscribers (76% of State subscribers). All other SDs in the State had 30 ISPs servicing 91,000 subscribers.
- Tasmania Greater Hobart SD had 26 ISPs servicing 64,000 subscribers (68% of State subscribers). All other SDs in the State had 18 ISPs servicing 30,000 subscribers.
- Northern Territory Darwin SD had 18 ISPs servicing 31,000 subscribers (78% of Territory subscribers). In the other SDs in the Territory there were 12 ISPs servicing 9,000 subscribers.
- Australian Capital Territory Canberra SD had 52 ISPs servicing 69,000 subscribers (100% of Territory subscribers).

ACCESSIBILITY

The accessibility of regions across Australia has been categorised according to their remoteness. This categorisation is based on a region's Accessibility/Remoteness Index of Australia (ARIA) score. For more details on the ARIA refer to paragraph 10 of the Explanatory notes.

Nearly all subscribers accessed a Point of Presence (POP) located in either Highly accessible (89%) or Accessible (7%) regions in Australia. Only 1% (50,000) of subscribers

ACCESSIBILITY continued

accessed a POP in Very remote or Remote regions and 2% (77,000) in Moderately accessible regions. The number of subscribers per access line in Highly accessible regions was 8.7, in Accessible regions 8.8, Moderately accessible regions 9.6, Remote regions 11.3 and Very remote regions 5.3.



## 5.1 SELECTED INTERNET ACTIVITY BY STATISTICAL DIVISION(a) ......

	ISPs(b)	POPs	Access lines	All subscribers	Data downloaded by subscribers	Average number of subscribers per access line(c)	Average data downloaded per subscriber(c)
	no.	no.	no.	'000	million Mbs	no.	Mb
	110.	110.	110.	000	NIUS	110.	IVID
• • • • • • • • • • • • • • • • •		• • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •	• • • • • • • • • •	• • • • • • • • •
New South Wales							
Sydney	202	297	96 987	943	311	9.7	330
Hunter	38	57	9 916	76	14	7.7	184
Illawarra	45	64	9 493	60	14	6.3	233
Richmond-Tweed	24	29	2 993	29	14	9.7	483
Mid-North Coast	24	68	6 455	52	11	8.1	212
Northern	16	54	3 841	31	8	8.1	258
North Western	15	26	1 439	16	3	11.1	188
Central West	17	37	2 705	21	4	7.8	190
South Eastern	19	33	1 298	16	3	12.3	188
Murrumbidgee	15	31	1 916	23	4	12.0	174
Murray	22	29	4 917	31	6	6.3	194
Far West	10	11	640	4	1	6.3	250
Total	266	736	142 600	1 303	392	9.1	301
Victoria							
Melbourne	195	249	118 722	939	291	7.9	310
Barwon	30	35	6 419	38	6	5.9	158
Western District	9	12	1 011	14	2	13.8	143
Central Highlands	24	25	3 202	31	6	9.7	194
Wimmera	5	10	393	5	1	12.7	200
Mallee	14	17	1 995	19	3	9.5	158
Loddon	18	26	3 199	32	5	10.0	156
Goulburn	19	30	3 375	28	4	8.3	143
Ovens-Murray	9	11	610	5	1	8.2	200
East Gippsland	7	15	541	9	1	16.6	111
Gippsland	18	29	2 900	32	5	11.0	156
Total	226	459	142 367	1 154	326	8.1	282
Queensland							
Brisbane	109	130	55 189	512	147	9.3	287
Moreton	62	89	17 004	147	25	9.3 8.6	170
Wide Bay-Burnett	16	31	4 261	26	4	6.1	154
Darling Downs	24	44	4 274	32	7	7.5	219
South West	4	17			np	7.5 5.8	165
Fitzroy	17	30	np 6 685	np 43	112	6.4	279
Central West	3	5				14.6	309
	3 17		np	np 23	np		
Mackay Northern	17	26 14	2 607	23 24	np 4	8.8 8.4	np
Northern Far North	11 21	14 33	2 869	43	9	8.4 8.9	167 209
North West			4 808	43	9		
	5 167	10	np	="	1 215	np	250
Total	167	429	99 885	856	215	8.6	251

np not available for publication but included in totals where applicable, (b) ISPs are counted in each SD where that ISP has a presence. unless otherwise indicated

<sup>(</sup>a) Subscribers and data downloaded has been apportioned to a Statistical Division (SD) according to the location of their POP where the activity took place.

<sup>(</sup>c) Average figures are calculated using actual data as opposed to rounded figures.



# 5.1 SELECTED INTERNET ACTIVITY BY STATISTICAL DIVISION(a) continued .....

	ISPs(b)	POPs	Access lines	All subscribers	Data downloaded by subscribers	Average number of subscribers per access line(c)	Average data downloaded per subscriber(c)
	no.	no.	no.	'000	million Mbs	no.	Mb
South Australia							
Adelaide	63	83	27 559	250	92	9.1	368
Outer Adelaide	7	11	479	7	2	14.6	286
Yorke and Lower							
North	5	10	459	4	1	8.7	250
Murray Lands	10	20	841	9	1	10.7	111
South East	10	16	804	8	1	9.9	125
Eyre	7	14	291	5	1	17.2	200
Northern	11	27	1 159	10	4	8.6	400
Total	71	181	31 592	292	102	9.2	349
Western Australia							
Perth	85	104	30 343	282	94	9.3	333
South West	23	35	4 455	36	7	8.1	194
Lower Great							
Southern	8	13	881	10	2	11.3	200
Upper Great							
Southern	np	np	np	np	np	7.9	175
Midlands	np	np	np	np	np	12.1	209
South Eastern	14	24	1 903	17	5	8.9	294
Central	9	15	1 172	9	2	7.7	222
Pilbara	7	17	1 016	np	1	np	np
Kimberley	6	np	np	3	np	np	np
Total	102	233	40 969	373	115	9.1	308
Tasmania							
Greater Hobart	26	32	6 662	64	14	9.6	219
Northern	16	21	1 760	15	4	8.5	267
Mersey-Lyell	8	20	1 901	16	1	8.4	62
Total	28	73	10 323	94	19	9.1	202
Northern Territory							
Darwin	18	19	3 314	31	7	9.4	226
Northern Territory	10		001.	01	·	0	220
— Balance	10	12	775	9	2	11.6	222
Total	19	31	4 089	40	9	9.8	225
Australian Capital Territory							
Canberra	52	58	8 775	69	26	7.9	377
Total	52	58	8 775	69	26	7.9	377
Total Australia	628	2 200	480 600	4 181	1 204	8.7	288

np not available for publication but included in totals where applicable, unless otherwise indicated (b) ISPs are counted in each SD where that ISP has a presence.

(c) Average figures are calculated using actual data as opposed to

<sup>(</sup>a) Subscribers and data downloaded has been apportioned to a Statistical Division (SD) according to the location of their POP where the activity took place.

rounded figures.



## 5.2 SELECTED INTERNET ACTIVITY BY ARIA CATEGORY(a)(b) ......

						Average	
					Data	number of	Average data
					downloaded	subscribers	downloaded
			Access	All	by	per access	per
	ISPs(c)	POPs	lines	subscribers	subscribers	line(d)	subscriber(d)
					million		
	no.	no.	no.	'000	Mbs	no.	Mb
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • •	• • • • • • • •
New South Wales							
Highly accessible	242	498	128 300	1 175	366	9.2	313
Accessible	51	191	13 098	116	23	8.9	198
Moderately	02	101	10 000	110		0.0	200
accessible	18	35	1 114	11	np	9.9	np
Remote	np	np	np	np	np	np	244
Very remote	np	np	np	np	np	np	220
Total	266	736	142 600	1 303	392	9.1	301
Total	200	730	142 000	1 303	392	9.1	301
Victoria							
Highly accessible	219	406	138 835	1 115	320	8.0	287
Accessible	31	41	3 305	35	5	10.6	143
Moderately							
accessible	5	12	227	4	_	17.6	81
Remote	_	_	_	_	_	_	_
Very remote	_	_	_	_	_	_	_
Total	226	459	142 367	1 154	326	8.1	282
Queensland							
Highly accessible	148	278	82 760	730	190	8.8	260
0 ,			9 863		190	8.8 7.4	
Accessible	28	56	9 863	73	14	7.4	192
Moderately	0.5	<b>50</b>	4.040	45	0	0.4	470
accessible	25	59	4 943	45	8	9.1	178
Remote	7	np	710	np	np	np	143
Very remote	3	np	1 609	np	np	np	250
Total	167	429	99 885	856	215	8.6	251
South Australia							
Highly accessible	65	101	28 543	262	95	9.2	362
Accessible	13	41	2 038	np	np	np	294
Moderately							
accessible	10	21	656	9	1	13.7	111
Remote	7	14	318	5	1	15.7	200
Very remote	3	4	37	np	np	np	262
Total	71	181	31 592	292	102	9.2	349
Mostowa Australia							
Western Australia Highly accessible	92	133	34 389	315	101	9.2	321
0 1							
Accessible	16	25	2 328	26	5	11.2	192
Moderately	-	40	054		_		
accessible	7	18	851	np	2	np	np
Remote	3	10	336	np	np	np	333
Very remote	18	47	3 065	22	np	7.2	np
Total	102	233	40 969	373	115	9.1	308

np not available for publication but included in totals where applicable, (b) Some States/Territories do not have regions coded to all ARIA unless otherwise indicated

Average

nil or rounded to zero (including null cells)

<sup>(</sup>a) Subscribers and data downloaded by subscribers has been apportioned to an Accessibility/Remoteness Index of Australia (ARIA) (d) Average figures are calculated using actual data as opposed to category according to the location of the POP where the activity took place. For a description of ARIA refer to paragraphs 10 to 13 of the Explanatory notes.

categories.

<sup>(</sup>c) ISPs are counted in each ARIA category where that ISP has a

rounded figures.



### 5.2 SELECTED INTERNET ACTIVITY BY ARIA CATEGORY(a)(b) continued .....

					Data downloaded	Average number of subscribers	Average data downloaded
			Access	AII	by	per access	per
	ISPs(c)	POPs	lines	subscribers	subscribers	line(d)	subscriber(d)
	no.	no.	no.	'000	million Mbs	no.	Mb
• • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • •	• • • • • • • • • •	• • • • • • • • • •	• • • • • • • • •	• • • • • • • • • •	• • • • • • •
Tasmania							
Highly accessible	28	50	8 325	78	18	9.4	231
Accessible	8	16	1 731	np	np	np	67
Moderately							
accessible	3	7	267	np	np	np	103
Remote	_	_	_	_	_	_	_
Very remote	_	_	_	_	_	_	_
Total	28	73	10 323	94	19	9.1	202
Northern Territory							
Highly accessible	_	_	_	_	_	_	_
Accessible	18	19	3 314	31	7	9.3	226
Moderately							
accessible	_	_	_	_	_	_	_
Remote	np	np	755	np	np	np	222
Very remote	np	np	20	np	np	np	63
Total	19	31	4 089	40	9	9.8	225
Australian Capital							
Territory	F0	<b>50</b>	0.775	00	00	7.0	277
Highly accessible Accessible	52	58	8 775	69	26	7.9	377
Moderately	_	_	_	_	_	_	_
•							
accessible Remote	_	_	_	_	_	_	_
Very remote	_	_	_	_	_	_	_
Total	52	58	8 775	69	26	7.9	377
Total Australia							
Highly accessible	565	1 524	429 927	3 742	1 116	8.7	298
Accessible	107	389	35 677	313	61	8.8	195
Moderately	20.	222	22 2.1	0.20	01	3.0	130
accessible	49	152	8 058	77	14	9.6	182
Remote	21	61	2 204	25	6	11.3	240
Very remote	21	74	4 734	25	8	5.3	320
Total	628	2 200	480 600	4 181	1 204	8.7	288

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

nil or rounded to zero (including null cells)

<sup>(</sup>a) Subscribers and data downloaded by subscribers has been apportioned to an Accessibility/Remoteness Index of Australia (ARIA) category according to the location of the POP where the activity took place. For a description of ARIA refer to paragraphs 10 to 13 of the  $\,$ Explanatory notes.

<sup>(</sup>b) Some States/Territories do not have regions coded to all ARIA categories.

<sup>(</sup>c) ISPs are counted in each ARIA category where that ISP has a presence.

<sup>(</sup>d) Average figures are calculated using actual data as opposed to rounded figures.

#### EXPLANATORY NOTES ......

INTRODUCTION

SURVEY SCOPE AND METHODOLOGY

SUBSCRIBERS

STATISTICAL UNIT

- **1** This publication presents results from the Internet Activity Survey in respect of the June quarter 2001. The survey covers all identified Internet Service Providers (ISPs) providing Internet access in Australia.
- 2 The scope of the Internet Activity Survey is all Australian based ISPs operating during the reference period. ISPs are defined as businesses that supply Internet connectivity services to individuals, households, businesses and other organisations. Libraries, Internet kiosks and Internet cafes which provide Internet access on a casual basis are excluded from the survey.
- **3** The primary source of the survey population frame is the Telecommunications Industry Ombudsman (TIO) with which ISPs are required to register. The TIO list is supplemented where necessary with ISPs identified from other sources such as Internet association membership lists and industry media.
- **4** The Internet Activity Survey is conducted as a mail-out, mail-back survey.
- **5** Active subscribers are defined as customers having accounts with ISPs who have accessed the Internet or paid for access to the Internet during the 90 days of the reference period. Counts of subscribers are not the same as counts of people/organisations with Internet access because subscribers may have accounts with more than one ISP and conversely an ISP subscriber account may provide Internet access (and email addresses) for several people/organisations.
- 6 The unit for which statistics were reported in the survey was the trading entity providing Internet access. In most cases this equates with the ABS concept of the management unit. The management unit is the highest-level accounting unit within a business or organisation, having regard for industry homogeneity, for which accounts are maintained. In nearly all cases it coincides with the legal entity owning the business (i.e. company, partnership, trust, sole operator etc.).
- **7** ISPs in this survey have been classified by size according to the number of subscribers ISPs reported for at the end of the reporting period. The size categories are defined as follows:

Very small ISP 1–100 subscribers
Small ISP 101–1,000 subscribers
Medium ISP 1,001–10,000 subscribers
Large ISP 10,001–100,000 subscribers
Very large ISP 100,001+ subscribers

REGIONAL CLASSIFICATION OF DATA

**8** The data contained in tables 5.1 and 5.2 have been classified on a geographical basis by allocating Point of Presence (POP) details:

26

REGIONAL CLASSIFICATION
OF DATA continued

- to Statistical Divisions (SDs) within States and Territories, as set out in the
   *Australian Standard Geographical Classification* (ASGC) (Cat. no. 1216.0).
   The SD is the largest and most stable geographical unit within each State and Territory. Reference map 1 at the back of this publication shows the SD boundaries; and
- to Accessibility/Remoteness Index of Australia (ARIA) categories, as outlined in *Accessibility/Remoteness Index of Australia (ARIA)*, Department of Health and Aged Care Occasional Papers, Series No. 6, March 1999. The results in table 5.2 are experimental in nature as the classification of remoteness is still in its early stages of development. Reference map 2 at the back of this publication shows the ARIA boundaries.

POINTS OF PRESENCE

**9** Numbers of POPs is equal to the number of POPs made available by ISPs. This may be more than the number of physical POPs due to the sharing of POPs between ISPs.

ACCESSIBILITY/REMOTENESS INDEX OF AUSTRALIA

- **10** The ARIA methodology was developed by the National Key Centre for Social Applications of Geographical Information Systems at the University of Adelaide. The work was funded by the Commonwealth Department of Health and Aged Care and a number of organisations, including the ABS, helped develop the final product.
- **11** The ARIA defines remoteness in terms of accessibility to defined service centres. Remoteness values for 11,338 populated localities are derived in terms of road distance to those service centres. Localities which are more remote have less access to service centres and conversely, those which are less remote have greater access to service centres. The Department of Health and Aged Care recommends the following five categories of remoteness:
  - Highly Accessible (ARIA score: less than 1.84) relatively unrestricted accessibility to a wide range of goods and services and opportunities for social interaction.
  - Accessible (ARIA score: 1.84 3.51) some restrictions to accessibility of some goods, services and opportunities for social interaction.
  - Moderately Accessible (ARIA score: 3.51 5.80) significantly restricted accessibility of goods, services and opportunities for social interaction.
  - Remote (ARIA score: 5.80 9.08) very restricted accessibility of goods, services and opportunities for social interaction.
  - Very Remote (ARIA score: 9.08 or more) locally disadvantaged, with very little accessibility of goods, services and opportunities for social interaction.
- **12** In order to classify POP details to ARIA categories, they were first coded to Statistical Local Area (SLA) based on their location. The average ARIA index value for the SLA was then used to derive an ARIA category for each POP.

REFERENCE PERIOD

**13** Data contained in this publication relate to ISPs which operated in Australia at any time during the reference quarter. However, counts of ISPs reflect only those businesses operating at the end of the reference period.

RELIABILITY OF DATA

- **14** As the survey does not have a sample component, the data are not subject to sampling variability. However, other inaccuracies collectively referred to as non-sampling error may affect the data. These non-sampling errors may arise from a number of sources, including:
- errors in the reporting of data by respondents;
- errors in capturing or processing of data;
- estimation for missing or misreported data; and
- definition and classification errors.

RELIABILITY OF DATA continued

**15** Every effort has been made to reduce non-sampling error to a minimum by careful design and testing of questionnaires, efficient operating procedures and systems, and appropriate methodology.

#### ACKNOWLEDGMENT

- **16** 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*.
- **17** In particular, the ABS acknowledges the assistance of the Telecommunications Industry Ombudsman in providing regular lists of registered ISPs.

#### RELATED PUBLICATIONS

**18** Other ABS publications on information technology and telecommunications in Australia are:

Business Use of Information Technology, Australia,1999–2000 (Cat. no. 8129.0).

Computing Services Industry, Australia, 1998–99 (Cat. no. 8669.0). Government Use of Information Technology, Australia, 1997–98 (Cat. no. 8119.0).

Household Use of Information Technology, Australia, 1999 (Cat. no. 8146.0).

Information Technology, Australia 1998–99 (Cat. no. 8126.0). Use of Information Technology on farms, Australia,1998–99 (Cat. no. 8150.0).

*Use of the Internet by Householders, Australia, November 2000* (Cat. no. 8147.0).

### AVAILABILITY OF UNPUBLISHED STATISTICS

**19** The ABS may make available on request certain unpublished statistics from this survey, subject to the application of confidentiality provisions.

#### ABBREVIATIONS

- nil or rounded to zero (including null cells)
- ABS Australian Bureau of Statistics
- ARIA Accessibility/Remoteness Index of Australia
- ISPs Internet Service Providers
- Mbs Megabytes
- n.p. not available for publication but included in totals where applicable
- POPs Points of Presence
  - SD Statistical Division
- TIO Telecommunications Industry Ombudsman

GLOSSARY .....

Access plan The Internet access package options available to subscribers from ISPs.

Access lines Lines, points, ports, modem access points available to subscribers to access their

ISP.

Active subscribers Subscribers who have accessed the Internet or paid for access to the Internet

through an ISP in the 90 days during the reference period.

Analog/Public Switched A telecommunications network operated by a carrier to provide services to the Telephone Network (PSTN) public and carries continuously variable signals or data.

Business and government All businesses, corporations, nonprofit organisations and government

**subscribers** organisations who obtain access to the Internet through an ISP.

**Business hours telephone** A telephone support service which operates during normal business hours.

service

Cable modem A modem that sends and receives data through a coaxial cable television network instead of through telephone lines as do conventional modems. Cable modems,

which have speeds of 500 Kbps, can transmit data faster than current

conventional modems.

**Data downloaded** Volume of data downloaded by subscribers from the Internet.

**Dial-up access** Subscribers who connect to the Internet via modem and dial-up software.

Digital/Integrated Services A digital access technique for both voice and data. Digital alternative to an Digital Network (ISDN) analogue public switched telephone service and carries data or voltages

consisting of discrete steps or levels, as opposed to continuously variable analog data. Integrated Services Digital Network (ISDN) enables digital transmission over

the PSTN.

**Digital Subscriber Line (DSL)** Often referred to as xDSL and refers to several digital technologies (e.g.

asymmetric DSL or ADSL and Symmetric DSL or SDSL) for fast two-way data  $\,$ 

connections over the PSTN.

**Free access** Free access to an email and Web browsing account.

**Hosted Web sites** Customer Web sites maintained by ISP on their servers.

Hourly access plan A subscription option where customers pay for dial-up access on an hourly basis.

**Household subscribers** Households and private individuals who subscribe to Internet access via an ISP.

This may include some home based businesses.

Internet This is 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 cafe** A venue that offers access to personal computers or other terminals that are

connected to the Internet and paid for on a non-subscription basis.

Internet Service Provider (ISP) Resident Australian individuals or businesses offering Internet access services to

customers.

ISDN See Digital/Integrated Services Digital Network (ISDN).

100 WEEDNET LOTWIN 0450 0 WW 075 0004

29

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

Microwave radio A communication link that uses point-to-point radio transmission.

Monthly/quarterly/annual A subscription option where customers pay a flat monthly/quarterly/annual fee,

and receive either a set period of time on-line during the month/quarter/year, usually with additional fees for exceeding that time or set download limits, or a flat monthly/quarterly/annual fee for unlimited access time during the month/quarter/year with other limits usually applying e.g. maximum single

session times.

access plan

satellite

Nonprofit organisations Industry and trade associations, clubs, cultural organisations, community service

organisations and similar organisations.

On-line support service 
The ability to get support from an ISP on-line either through search facilities or

on-line dialogue with ISPs help desk staff on-line.

Permanent access Permanent subscriber access to the Internet via permanent modem, Integrated

Services Digital Network, dedicated data service, frame relay, etc.

**Point of Presence (POP)** A geographic location where an ISP can be accessed by a subscriber.

**PSTN** See Analog/Public Switched Telephone Network (PSTN).

Satellite/communications A satellite stationed in geosynchronous orbit that acts as a microwave relay

station, receiving signals sent from a ground based station, amplifying them, and retransmitting them on a different frequency to another ground-based station.

Satellites can be used for high-speed transmission of computer data.

Secure transaction capabilities Includes Web sites with on-line payment facilities (e.g. payments performed on-line in a web browser using secure protocols to protect the information) and

Web sites with the ability to conduct real time on-line payments (e.g. on-line payments for which there is a real time connection to credit/debit card

processing networks).

Start up disk/package A CD-ROM or floppy disk containing software for Windows or Macintosh systems

that includes configuration information for the dial-up software plus an email

'client' program (e.g. Eudora/Pegasus) plus a navigator package.

**Subscriber** An ISP customer to whom Internet access is provided. Included are paying and

non paying customers, email only subscribers, dial-up subscribers and those with permanent connections. Excluded are customers who purchase other services

from an ISP, such as Web hosting, but do not obtain Internet access.

Subscribers who left during
the reference period
the reference period period to the number of subscribers of the start of the reference period, then

subtracting the number of subscribers at the end of the reference period.

Web hosting See Hosted Web sites.

**Wireless Application Protocol** A standard for providing Internet access and other data-based services, such as

(WAP) email, electronic transactions, news and weather reports, over wireless networks.

24 hr telephone service A telephone support service which operates around the clock.

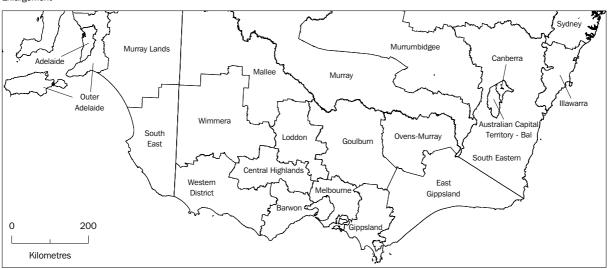
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#### A1

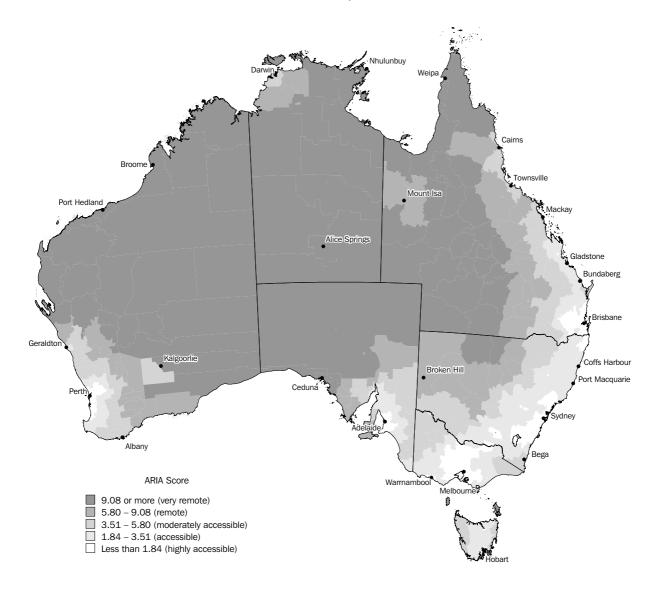
#### STATISTICAL DIVISIONS—1 July, 2000



#### Enlargement



### ACCESSIBILITY/REMOTENESS INDEX OF AUSTRALIA, By Statistical Local Area



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