

ENVIRONMENTAL ISSUES: PEOPLE'S VIEWS AND PRACTICES

EMBARGO: 11.30AM (CANBERRA TIME) TUES 29 NOV 2005

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INQUIRIES

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Michael Vardon on Canberra (02) 6252 7348.



NOTES

ABOUT THIS PUBLICATION	This publication is the eleventh of its type and presents information on environmental behaviour and practices of Australian households and individuals collected in March 2005. Respondents were aged 18 years or older.
	This edition focuses on "Energy use and conservation" and covers a range of issues including energy sources, energy use, and energy saving measures used in households.
	Other areas covered include: dwelling characteristics that alter energy use consumption and behaviour, heaters and coolers, types of household appliances used in households and support to the green power scheme.
ABOUT THE SURVEY	The data in this publication are derived from a supplement to the Monthly Population Survey. Please refer to the Explanatory Notes at the back of this publication for further details about the survey.
DATA COMPARABILITY	A set of changing topics rotate over a period of three years. The topics contained in this publication are compared with data collected in 1994, 1999 and 2002. Where applicable those data have been included in this publication to enable comparisons.
	Prior to 1997, environment topics were surveyed using 'personal interview' methodology. From 1997 onwards, the 'any responsible adult' methodology has been applied. When comparing post-1997 and pre-1997 data, readers should be aware that some differences in the data may be explained by the change in methodology rather than the real changes over time.
ROUNDING	Where figures have been rounded, discrepancies may occur between sums of the component items and totals. Published percentages are calculated prior to rounding of the figures and therefore some discrepancy may occur between these percentages and those that could be calculated from the rounded figures.

Dennis Trewin Australian Statistician

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CHAPTER **1** INTRODUCTION AND MAIN FINDINGS

INTRODUCTION Household energy consumption accounts for nearly 12% of the final energy consumed in Australia. In 1974-75, residential energy consumption was recorded at 246 peta joules; in 2003-04, such consumption increased to 420 peta joules (ABARE 2005). Home energy use (i.e. cooking, space and water heating) is the largest source of greenhouse emissions in Australians households. According to the Australian Greenhouse Office, the average household's energy use is responsible for about eight tonnes of carbon dioxide, the main greenhouse gas, per year (AGO 2005a). The greater the amount of energy consumed by households, the more greenhouse gases are emitted. This publication presents the results of a household survey conducted in March 2005. The survey collected information on energy sources, aspects of dwelling materials and fixtures that impact on energy use, and energy using household appliances. These are some of the main determinants of energy use, which in turn has implications for greenhouse gas emissions, pollution and resource depletion. MAIN FINDINGS A major theme that emerged in this survey was energy consumption in households was driven mostly by lifestyle reasons and resources availability, rather than a desire to reduce energy use. The majority of Australians continue to live in separate houses, most of them with three or more bedrooms. There was also an increased uptake of several appliances in households, mainly air conditioners, dishwashers, DVD players, games consoles etc. Conservation measures such as insulation, installation of heaters and window treatments were applied, but mainly to achieve comfort and convenience rather than the benefits from energy reduction and cost savings. Main findings of the survey are presented below. Details are presented in the subsequent chapters. • There has been a modest increase in the use of insulation, from 52% of dwellings in 1994 to 60% in 2005. The main reason given for having insulation was to improve comfort (given by 84% of people installing insulation), while the main obstacle was not being responsible for insulation (34% of people without insulation). Saving energy was low on the list of reasons for installing insulation. • More than half (57%) of Australian dwellings had at least one room illuminated by standard fluorescent lights while one-third (33%) of dwellings used other energy saving lights. Nationally, there was a significant increase in the use of other energy saving lights from 23% in 2002 to 33% in 2005, particularly in New South Wales, South Australia and Tasmania.

ABS • ENVIRONMENTAL ISSUES: PEOPLE'S VIEWS AND PRACTICES • 4602.0 • MAR 2005

MAIN FINDINGS continued

- Close to half of Australian dwellings (48%) applied at least one measure to regulate heat through windows. Outside awnings and/or shutters were the principal form of window protection and were used by over 30% of households.
- Electricity was still the main source of energy for Australians, being used by almost every household (99%) in 2005. Electricity was the main energy source for cooking (54%) and hot water systems (51%), but gas remains the main source of energy for space heating (34%).
- Solar energy was utilised by 5% of households nationally, primarily for heating water (4%). In the Northern Territory and South Australia, however, 42% and 16% of households used solar energy to heat water.
- The use of off-peak electricity in hot water systems increased significantly from 30% in 2002 to 34% in 2005. Queensland recorded the highest proportion of households using off-peak electricity for hot water systems (50%) and had the most significant increase (13%).
- There has been a significant increase in the number of households with air conditioners from 33% of dwellings in 1994 to 60% in 2005. Reverse cycle/heat pump has been the most popular system of cooling since 1994.
- Almost all dwellings in Australia have at least a refrigerator, washing machine, television and vacuum cleaner (over 95% of dwellings). More than three-quarters (78%) have heaters, three-fifths (60%) have coolers and more than half (55%) have clothes dryers. Computers were present in 68% of Australian dwellings, increasing significantly from 45% in 1999.
- Energy rating efficiency and cost were the two main factors considered by households when buying or replacing a white good. Environmental considerations were not a main factor in choosing appliances (11%), yet were becoming more of a factor when choosing washing machines (19%).
- More Australian households used cold water (69%) than warm water (19%) in washing machines (the remainder used hot water or varied the temperature).
- More than a quarter (29%) of households were aware of green power schemes in 2005, an increase from 19% in 1999 and from 24% in 2002. However, only 23% of these households were willing to support the scheme, a slight decrease from 26% in 2002. Most of these respondents (53%) were willing to pay less than \$100 extra per year for green power.

CHAPTER **2**

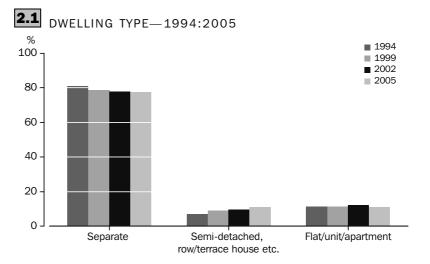
DWELLING STRUCTURE AND CHARACTERISTICS

INTRODUCTION

This chapter looks into the practices and measures undertaken by Australian households to reduce energy consumption. The design and characteristics of individual dwellings have a dramatic effect on energy use. For example, the amount of floor space in a dwelling has significant implications on the demand for heating or cooling. The choice of building materials can make a significant difference to the performance and comfort of the dwelling. For example, the degree of insulation of the dwelling influences energy consumption and greenhouse emissions.

DWELLING TYPE

The majority of Australians live in separate houses. In March 2005, 77% of households occupied separate houses, down slightly from 81% in 1994 (graph 2.1). Separate houses were more common outside of capital cities (86%) than within them (73%) (table 2.6). Of the states and territories, Tasmania (89%) and Western Australia (83%) had the highest proportion of separate dwellings, whereas New South Wales had the highest proportion of flats or units (18%).

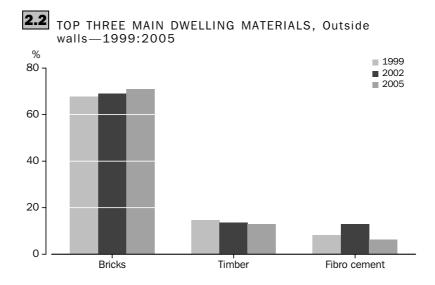


The majority (53%) of separate houses had three bedrooms while a further 35% had four or more bedrooms. In contrast, 50% of semi-detached homes and 86% of flats/units had only one or two bedrooms (table 2.8).

DWELLING MATERIAL -OUTSIDE WALLS

Bricks (double brick or veneer), timber and fibro cement were the most commonly used outside wall materials for the construction or renovation of dwellings in Australia. In March 2005, around 71% of dwellings across Australia had their outside walls constructed in bricks and 13% in timber.

DWELLING MATERIAL -OUTSIDE WALLS continued



Brick veneer (45%) remained the most popular choice of brick wall over double brick (26%). Brick veneer was more often used in the cooler states of the Australian Capital Territory (77%) and Victoria (61%).

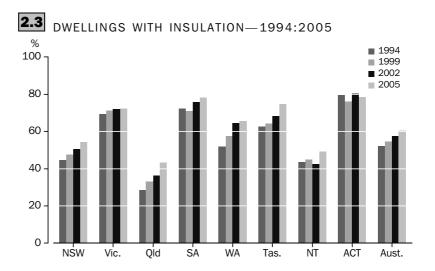
The use of timber was most pronounced in the states of Tasmania (30%) and Queensland (22%). Use of timber by Tasmanian households for outside walls of dwellings has slightly increased from 26% in 2002 to 30% in 2005. Fibro cement was reported highest in New South Wales (9%). A reduction in wood usage over the same period was noted in Queensland (26% to 22%).

INSULATION

A properly insulated home - that is insulation in ceiling, walls and floors - will contribute to the comfort of a home all year round, as well as energy use and greenhouse emissions.

The proportion of insulated dwellings in Australia has substantially increased since 1994 (graph 2.3 and table 2.12), and this may be attributed to certain government policies and industry initiatives directed to increase energy efficiency in new homes (i.e. Building Code of Australia). In 1994, over half of Australian dwellings had insulation (52%), and this proportion had risen to 60% in 2005.

In 2005 nearly one-fifth (20%) of households did not know if their dwelling had insulation, up from 15% in 1994.



INSULATION continued

Of the dwellings with insulation, 98% had it in the roof or ceiling (table 2.14). Most of the winter heat loss and summer heat gain occurs in the roof or ceiling. Roof insulation can save up to 45% on energy consumption for heating and cooling (AGO 2005b).

Most Australians (83%) insulated their homes mainly to achieve comfort (table 2.18). Cost and energy saving benefits were relatively minor factors (10% and 4%, respectively). In the Australian Capital Territory, cost savings benefits from insulation were valued by 16% of households, and energy savings by 8% of households.

Among households with no insulation, not being a home owner or responsible to insulate the home was cited as the main reason for not having insulation (34%), followed by cost (16%) and not getting around to do it (12%) (table 2.19).

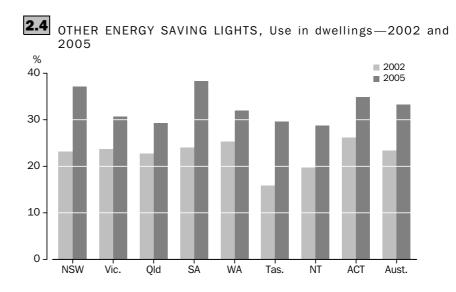
LIGHTING

The type of lights chosen by a household determines the amount of electricity used and subsequent lighting costs. One means of conserving energy is through the use of fluorescent lights and energy saving lights. An energy saving light is an innovative light based on the standard fluorescent lamp and is designed to fit into a conventional light socket. Although more expensive to purchase, fluorescent lights and other energy saving lights are considered the most energy efficient form of lighting, as they use less energy, cheaper to operate and last longer (between 8,000 – 16,000 hours) than conventional lights (DEUS 2005a).

In March 2005, more than half of dwellings (57%) in Australia had at least one room illuminated by standard fluorescent lights and one-third (33%) dwellings by other energy saving lights (table 2.20). In the Northern Territory, fluorescent lights were used in 84% of dwellings and in Queensland it was 75% of dwellings. Use of fluorescent lights in homes was more common in rural areas than in urban areas (67% to 51%, respectively) while use of other energy savings was slightly higher in urban areas than in rural areas (35% to 31%, respectively). Nationally, one in ten dwellings (10%) had illuminated their entire house with fluorescent or energy saving lights, while in the Northern Territory it was two in ten dwellings (21%) (table 2.22).

LIGHTING continued

While the use of fluorescent lights remained more or less static between 2002 and 2005(table 2.21), there was a significant increase in usage of other energy saving lights over the same period (from 23% to 33%), particularly in South Australia (from 24% to 38%), New South Wales (23% to 37%) and Tasmania (16% to 30%) (graph 2.4).



WINDOW TREATMENT/APPLICATION

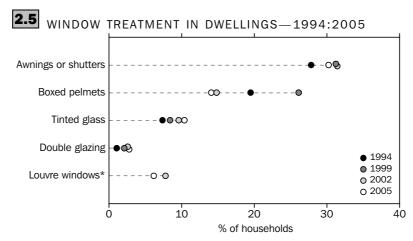
Window protection and shading reduces the amount of heat loss or gain by a dwelling during winter or summer by up to 70% and may save a household around \$200 each year in reduced energy costs (DEUS 2005b). The amount of heat lost or gained through windows is relative to their location, size and to the nature and extent of applied window treatments.

Close to half of Australian households (48% in 2005) had applied one type of measure to reduce heat loss through windows. Graph 2.5 and table 2.23 indicates that outside awnings and/or shutters were the principal form of window protection applied in over 30% of dwellings in Australia, mainly in South Australia (43% of dwellings) and Victoria (38% of dwellings). Boxed pelmets were applied most in Victoria (23%) and Tasmania (20%), while tinted glasses and/or solar guardings were more popular in the hot climate states of Queensland (21%) and Western Australia (17%). Louvre windows were more common in the Northern Territory (26%) despite a reduction from 50% in 2002.

WINDOW

TREATMENT/APPLICATION continued

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^{*} Data not collected in 1994 and 1999

DWELLING STRUCTURE, Type of dwelling—2005 NSW Vic. Qld SA WA Tas. NT(a) ACT Aust. CAPITAL CITY Estimate ('000) 1 069.2 475.1 Separate house 985.5 536.9 371.8 69.3 3 641.5 Semi-detached, row/terrace house etc. 209.5 161.8 64.5 85.6 72.7 6.7 628.9 Flat/unit/apartment 396.0 134.6 94.1 22.6 32.2 703.1 5.8 Other types(b) *15.6 *4.3 *44 *0.4 *5.8 30.6 Total households 1 606.5 1 370.0 699.9 480.3 585.8 81.8 5 004.2 Proportion (%) Separate house 61.3 78.0 76.7 77.4 81.1 84.8 72.8 Semi-detached, row/terrace house etc. 13.0 11.8 9.2 17.8 12.4 8.2 12.6 Flat/unit/apartment 24.6 9.8 13.4 4.7 5.5 7.0 14.1 Other types(b) *1.0 *0.3 *0.6 *0.1 *1.0 0.6 _ BALANCE OF STATE / TERRITORY Estimate ('000) 822.7 685.3 2 435.0 Separate house 503.3 140.8 177.9 105.1 Semi-detached, row/terrace house etc. 225.2 71.7 28.6 82.4 17.8 18.6 *6.1 58.2 *2.3 Flat/unit/apartment 70.4 *11.7 *3.7 *2.3 148.5 Other types(b) 19.0 *2.9 *6.3 *0.8 *4.4 *0.6 34.0 Total households 983.9 546.4 832.3 163.1 203.1 114.1 2 842.8 Proportion (%) Separate house 83.6 92.1 82.3 86.3 87.6 92.0 85.7 Semi-detached, row/terrace house etc. 7.3 5.2 9.9 10.9 9.1 *5.4 7.9 Flat/unit/apartment 7.2 *2.1 7.0 *2.3 *1.1 *2.0 5.2 Other types(b) 1.9 *0.5 *0.8 *0.5 *2.1 *0.6 1.2 TOTAL STATE / TERRITORY Estimate ('000) 174.4 Separate house 1 808.2 1 572.5 1 222.2 512.6 653.0 34.1 99.6 6 076.6 Semi-detached, row/terrace house etc. 281.2 190.4 147.0 103.4 91.3 12.8 11.2 16.8 854.1 Flat/unit/apartment 466.4 152.2 851.7 146.3 26.3 34.4 *8.1 9.4 8.6 34.6 *7.3 *10.7 Other types(b) *1.1 *10.1 *0.6 _ *0.2 64.7 Total households 2 590.4 1 916.4 1 532.1 788.9 643.4 195.9 54.7 125.2 7 847.0 Proportion (%) 69.8 Separate house 82.1 79.8 79.7 82.8 89.0 62.3 79.6 77.4 Semi-detached, row/terrace house etc. 10.9 9.9 9.6 16.1 11.6 6.6 20.6 13.4 10.9 4.4 Flat/unit/apartment 18.0 7.6 *4.1 10.9 99 4.1 17.2 6.9 Other types(b) *0.7 *0.3 1.3 *0.4 *0.2 *1.3 *0.2 0.8 * estimate is subject to sampling variability too high for most practical (b) Refers to caravans, houseboats and other improvised homes. Note: No regional split between capital city and balance of state/territory purposes

.. not applicable

for NT and ACT as the sample does not support any breakdown beyond the whole territory.

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 Na them Tamtana data refers to mainly unless and the second sec

(a) Northern Territory data refers to mainly urban areas only.

2.7 DWELLING STRUCTURE, Type of dwelling-1994:2005 NSW Vic. Old SA WA Tas. NT(a) ACT Aust. % % % % % % % % % MARCH 2005 Separate house 69.8 82.1 79.8 79.7 82.8 89.0 62.3 79.6 77.4 Semi-detached, row/terrace house etc. 10.9 6.6 20.6 13.4 10.9 9.9 9.6 16.1 11.6 Flat/unit/apartment 18.0 7.6 9.9 4.1 4.4 *4.1 17.2 6.9 10.9 Other types(b) 1.3 *0.4 *0.7 *0.2 *1.3 *0.3 *0.2 0.8 _ MARCH 2002 Separate house 70.7 81.9 80.1 79.6 81.9 86.9 73.9 75.5 77.6 7.0 14.8 12.5 5.8 12.3 Semi-detached, row/terrace house etc. 9.6 8.3 16.1 9.6 Flat/unit/apartment 18.8 9.5 11.9 5.2 5.5 6.9 12.2 8.1 12.2 0.4 0.8 0.2 1.1 0.3 1.6 0.4 Other types(b) ____ 0.6 MARCH 1999 74.0 82.7 82.2 77.2 78.4 88.9 72.6 77.4 89 82 67 131 132 48 105 152 Separate house 78.8 Semi-detached, row/terrace house etc. 8.9 8.2 6.7 13.1 13.2 4.8 10.5 15.2 9.1 8.6 9.9 5.6 Flat/unit/apartment 9.2 8.3 15.3 15.9 7.5 11.3 Other types(b) 1.1 0.4 1.2 0.5 0.2 0.7 1.6 0.8 _ JUNE 1994 Separate house 76.6 84.0 83.7 77.4 83.0 88.9 64.1 84.9 80.8 Semi-detached, row/terrace house etc. 7.1 4.9 5.0 13.1 11.1 5.0 4.2 10.3 7.1 10.8 10.5 15.4 Flat/unit/apartment 9.0 4.8 5.7 16.8 4.8 11.4 Other types(b) 0.8 0.3 0.9 0.5 1.1 0.4 14.9 0.8 _ * estimate is subject to sampling variability too high for (a) Northern Territory data refers to mainly urban areas only. most practical purposes (b) Refers to caravans, houseboats and other improvised

— nil or rounded to zero (including null cells)

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homes.

				-		_			
	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
eparate house									• • • • • •
One	*0.6	*0.8	*0.9	*0.6	*0.6	*0.6	*3.1	*0.7	*0.8
Two	10.3	11.6	9.9	13.9	7.5	16.0	*8.2	6.4	10.7
Three	50.7	59.9	50.9	61.0	44.5	57.1	66.3	52.8	53.6
Four or more	38.3	27.6	38.2	24.4	47.3	26.2	22.4	40.2	34.9
None/bedsitter	_	*0.1	*	_	—	—	_	—	*
Semi-detached, row/terrace ho	use etc.								
One	5.9	8.1	*6.3	*8.9	*9.4	*33.5	*16.6	*6.6	7.8
Two	34.4	48.8	48.5	47.8	31.8	35.7	*54.7	*26.5	41.5
Three	47.6	33.0	39.8	38.4	48.2	*22.3	*28.7	62.2	41.6
Four or more	11.7	10.1	5.4	*4.5	*10.5	*8.4	—	*4.7	8.9
None/bedsitter	0.3	_	*	*0.4	—	—	_	—	*0.2
lat/unit/apartment									
One	22.0	29.6	20.6	*20.7	*22.2	*13.8	*9.7	*50.7	23.1
Two	62.9	56.0	70.1	72.0	59.9	70.6	*74.7	*44.1	63.2
Three	11.3	12.6	*8.4	*5.8	*17.9	*8.2	*2.7	—	10.9
Four or more	*0.4	*0.4	*0.4	_	_	*2.5	_	_	*0.4
None/bedsitter	*3.4	*1.3	*0.5	*1.5	—	*4.8	*12.9	*5.1	2.5
ther types(b)									
One	*21.1	*8.6	*32.7	_	*4.0	*33.3	_	_	*18.6
Two	49.1	*33.2	*39.9	*33.5	*71.6	—	—	—	48.4
Three	*27.5	*49.8	*9.8	*33.2	*24.4	*33.4	_	*100.0	27.0
Four or more	2.2	—	*17.6	*33.2	—	—	—	—	*4.7
None/bedsitter	_	*8.4	_	_	_	*33.3	_	_	*1.3

* estimate is subject to sampling variability too high for most practical purposes (a) Northern Territory data refers to mainly urban areas only.(b) Refers to caravans, houseboats and other improvised homes.

— nil or rounded to zero (including null cells)

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	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Au
	%	%	%	%	%	%	%	%	
			• • • • • •					• • • • • •	• • •
			CAPIT	AL CITY					
Brick									
Brick veneer	43.9	67.3	49.6	40.3	4.6	41.8	• •	• •	46
Double brick	39.4	12.7	11.5	48.0	88.0	18.5	• •		33
Total	83.3	80.0	61.0	88.3	92.6	60.3	• •	• •	80
Stone	*0.1	*0.3	—	4.9	*0.7	*1.4			(
Timber	3.7	13.7	26.0	*1.0	*1.3	26.8			ę
Fibro cement	6.8	1.0	4.8	2.1	2.2	*1.1			:
Concrete/besser block	1.9	2.9	3.1	1.9	*1.4	6.5			2
Steel/aluminium	*0.4	*0.5	*0.4	*0.1	—	*1.0			(
Aerated concrete	*0.1	*	*0.4	*0.1	*0.1	*0.7			*(
Other	2.4	1.0	3.3	*0.3	*1.0	*	• •	• •	-
Not known	1.3	*0.4	*0.9	*1.3	*0.7	—	• •	• •	(
									• • •
	BA	LANCE	OF ST	ATE / T	ERRITO	RY			
Brick									
Brick veneer	44.6	46.4	43.3	38.3	23.2	40.5			42
Double brick	11.6	6.7	6.8	17.6	40.9	10.5			1:
Total	56.2	53.2	50.2	55.8	64.1	51.0			54
Stone	*0.5	*1.1	*0.1	16.4	*0.7	*1.9			
Timber	20.2	26.8	19.0	*2.9	*5.1	32.0			19
Fibro cement	12.2	9.5	9.4	15.3	20.3	*3.0			1
Concrete/besser block	2.6	*1.6	14.1	*3.5	*1.9	*3.4			į
Steel/aluminium	2.8	3.6	2.3	*0.7	*3.9	*2.4			
Aerated concrete	*0.2	*0.5	*0.2	*0.2	_	_			*(
Other	4.6	3.4	4.0	*4.4	*2.3	6.3			4
Not known	*0.7	*0.2	*0.7	*0.7	*1.8	—			(
		TOTAL	STATE	/ TERR	ITORY				
Brick									
Brick veneer	44.2	61.3	46.2	39.8	9.4	41.0	14.9	76.8	4
Double brick	28.8	11.0	9.0	40.3	75.9	13.8	27.5	18.3	25
Total	73.0	72.4	55.1	80.1	85.3	54.9	42.4	95.1	70
Stone	*0.2	*0.5	*0.1	7.9	*0.7	*1.7	_	_	:
Timber	10.0	17.5	22.2	1.5	2.3	29.9	*2.0	*0.8	13
Fibro cement	8.9	3.5	7.3	5.5	6.8	*2.2	*5.2	*0.5	(
Concrete/besser block	2.2	2.5	9.1	2.3	1.5	4.7	37.5	*2.1	3
	1.3	1.4	1.4	*0.2	*1.0	*1.8	*10.3	_	-
Steel/aluminium		*0.0	*0.3	*0.1	*	*0.3	_	_	*(
Steel/aluminium Aerated concrete	*0.1	*0.2	.0.5	0.1					
	*0.1 3.2	^0.2 1.7	3.7	1.3	1.4	4.6	*2.1	*0.7	2

* estimate is subject to sampling variability too high for most practical purposes

.. not applicable

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2.9

- nil or rounded to zero (including null cells)

(a) Northern Territory data refers to mainly urban areas only.

Note: No regional split between capital city and balance of state/territory for NT and ACT as the sample does not support any breakdown beyond the whole territory.

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.	
	%	%	%	%	%	%	%	%	%	
		• • • • • •								
			MARCH	1 2005	5					
Brick										
Brick veneer	44.2	61.3	46.2	39.8	9.4	41.0	14.9	76.8	45.1	
Double brick	28.8	11.0	9.0	40.3	75.9	13.8	27.5	18.3	25.7	
Total	73.0	72.4	55.1	80.1	85.3	54.9	42.4	95.1	70.9	
Stone	*0.2	*0.5	*0.1	7.9	*0.7	*1.7	_	_	1.0	
Timber	10.0	17.5	22.2	1.5	2.3	29.9	*2.0	*0.8	13.0	
Fibro cement	8.9	3.5	7.3	5.5	6.8	2.2	*5.2	*0.5	6.4	
Concrete/besser block	2.2	2.5	9.1	2.3	1.5	4.7	37.5	*2.1	3.9	
Steel/aluminium	1.3	1.4	1.4	*0.2	*1.0	*1.8	*10.3	_	1.3	
Aerated concrete	*0.1	*0.2	*0.3	*0.1	_	*0.3	_	_	*0.2	
Other	3.2	1.7	3.7	1.3	1.4	4.6	*2.1	*0.7	2.6	
Not known	1.1	*0.4	0.8	*1.2	*1.0	—	*0.5	0.8	0.8	
		• • • • • •			• • • • • •	• • • • •				
			MARCH	1 2002	2					
Brick										
Brick veneer	40.6	59.0	44.6	35.6	7.0	45.0	9.5	74.5	42.5	
Double brick	29.6	11.8	6.8	43.7	79.4	15.5	30.1	19.2	26.5	
Total	70.2	70.8	51.4	79.4	86.4	60.5	39.6	93.7	69.1	
Stone	0.3	0.3	_	6.4	0.7	1.1	_	_	0.8	
Timber	9.5	18.3	25.5	1.9	2.8	26.2	0.7	2.1	13.7	
Fibro cement	11.6	4.1	8.9	5.5	6.8	3.1	7.5	1.0	7.8	
Concrete/besser block	2.1	3.2	8.7	2.4	0.8	4.6	31.8	1.2	3.8	
Steel/aluminium	2.1	1.1	2.9	0.5	0.4	1.7	16.7	_	1.8	
Aerated concrete	0.1	0.1	0.2	0.2	_	0.2	_	0.2	0.1	
Other	3.4	1.8	2.2	2.7	1.3	2.6	2.5	0.9	2.4	
Not known	0.7	0.4	0.3	1.1	0.7	—	1.1	0.9	0.6	
• • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • •			• • • • • •	• • • • •	• • • • • •			
			MARCH	1999	9					
Brick										
Brick veneer	38.2	58.3	41.0	33.3	8.8	38.7	10.6	72.3	40.6	
Double brick	30.7	13.3	7.3	44.9	75.6	17.6	24.9	21.1	27.2	
Total	68.9	71.5	48.3	78.2	84.4	56.2	35.5	93.4	67.9	
Stone	0.2	0.2	0.2	7.8	0.5	1.1	_	_	0.9	
Timber	10.5	18.6	28.3	2.5	3.2	32.1	0.7	1.6	14.7	
Fibro Cement	13.0	3.5	9.5	4.2	8.6	2.0	8.4	1.1	8.3	
Concrete/besser block	1.1	2.0	7.7	4.1	0.9	3.9	40.0	2.3	3.2	
Steel/aluminium	2.8	1.3	2.5	0.8	0.4	1.9	12.4	0.5	2.0	
Aerated concrete	0.1	0.2	0.3	_	0.1	0.1	0.4	0.2	0.2	
Other	2.9	2.1	2.6	1.5	1.7	2.6	1.8	0.3	2.3	
Not known	0.4	0.5	0.5	0.8	0.3	_	0.7	0.5	0.5	

* estimate is subject to sampling variability too high for most practical purposes
 — nil or rounded to zero (including null cells)

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(a) Northern Territory data refers to mainly urban areas only.

2.11					h	h			
DVVE	LLING (NSW	Vic.	, TERIST Qld	SA	wa	nas ir Tas.	NT(a)	ACT	2005 Aust.
				AL CITY			• • • • • •		• • • • • • •
			CAPII	AL CIT					
Estimate ('000)									
With insulation	788.0	978.8	290.5	372.6	391.1	60.2			3 006.3
Without insulation	442.9	125.4	255.5	41.6	111.5	8.8			999.3
Don't know	375.6	265.8	153.9	66.2	83.1	12.7		• •	998.6
Total households	1 606.5	1 370.0	699.9	480.3	585.8	81.8	• •		5 004.2
Proportion (%)									
With insulation	49.1	71.4	41.5	77.6	66.8	73.6			60.1
Without insulation	27.6	9.2	36.5	8.7	19.0	10.8			20.0
Don't know	23.4	19.4	22.0	13.8	14.2	15.6			20.0
		• • • • • • • •					• • • • • •		• • • • • • •
		BALANC	CE OF ST	TATE / T	ERRITO	۲Y			
Estimate ('000)									
With insulation	622.4	406.4	371.8	130.5	126.7	85.9			1 743.5
Without insulation	200.0	51.5	287.7	14.2	49.2	15.1			617.7
Don't know	161.5	88.5	172.8	18.4	27.2	13.2			481.7
Total households	983.9	546.4	832.3	163.1	203.1	114.1			2 842.8
Proportion (%)									
With insulation	63.3	74.4	44.7	80.0	62.4	75.3			61.3
Without insulation	20.3	9.4	34.6	8.7	24.2	13.2			21.7
Don't know	16.4	16.2	20.8	11.3	13.4	11.5			16.9
		тот	AL STAT	E / TERF	RITORY				
Estimate ('000)									
With insulation	1 410.4	1 385.2	662.2	503.0	517.8	146.1	26.9	98.2	4 749.9
Without insulation	642.9	176.9	543.2	55.8	160.7	23.9	9.0	*4.5	1 616.9
Don't know	537.1	354.4	326.7	84.6	110.4	25.9	18.8	22.4	1 480.2
Total households	2 590.4	1 916.4	1 532.1	643.4	788.9	195.9	54.7	125.2	7 847.0
Proportion (%)									
With insulation	54.4	72.3	43.2	78.2	65.6	74.6	49.2	78.5	60.5
Without insulation	24.8	9.2	35.5	8.7	20.4	12.2	16.4	*3.6	20.6
Don't know	20.7	18.5	21.3	13.1	14.0	13.2	34.4	17.9	18.9
estimate is subject	to sampling v	ariability too	high for	Note: N	lo regional s	plit betwee	n capital (city and ba	lance of
most practical purpo	oses			s	tate/territory	for NT and	ACT as the	ne sample	does not
not applicable				s	upport any k	oreakdown	beyond th	e whole te	rritory.

.. not applicable

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(a) Northern Territory data refers to mainly urban areas only.

DWELLING (CHARA	CTER	ISTICS	, Wr	nether	has	insula	ation-	-1994	4:2005	
	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.		
	%	%	%	%	%	%	%	%	%		
			MARCI	H 200)) 5						
With insulation	54.4	72.3	43.2	78.2	65.6	74.6	49.2	78.5	60.5		
Without insulation	24.8	9.2	35.5	8.7	20.4	12.2	16.4	*3.6	20.6		
Don't know	20.7	18.5	21.3	13.1	14.0	13.2	34.4	17.9	18.9		
			• • • • • • •	• • • •							
			MARCI	1 200	02						
With insulation	50.5	72.1	36.2	75.7	64.5	68.2	42.3	80.4	57.5		
Without insulation	28.0	12.1	44.8	12.8	22.9	21.2	27.4	7.9	25.0		
Don't know	21.5	15.8	18.9	11.5	12.6	10.6	30.3	11.7	17.5		
			MARCI	H 199	99						
With insulation	47.6	71.3	33.0	70.8	57.3	64.1	44.8	75.8	54.5		
Without insulation	31.6	12.4	48.6	12.5	29.0	22.3	31.6	9.4	27.6		
Don't know	20.9	16.3	18.4	16.7	13.7	13.6	23.6	14.8	17.9		
			JUNE	199	4						
With insulation	44.5	69.5	28.5	72.2	52.0	62.7	43.9	79.5	52.1		
Without insulation	39.4	17.0	53.6	15.7	36.7	28.8	28.4	9.7	33.1		
Don't know	16.1	13.5	17.9	12.0	11.3	8.5	27.6	10.8	14.7		

* estimate is subject to sampling variability too high for most practical purposes

(a) Northern Territory data refers to mainly urban areas only.

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2.13

DWELLLING CHARACTERISTICS, Whether has insulation-by type of

dwelling—1	994:200	5			
	Separate house	Semi-detached, row/terrace house etc.	Flat / unit / apartment	Other types(a)	All types
	%	%	%	%	%
		MARCH	2005		
With insulation Without insulation	69.0 18.5	47.1 20.8	14.2 34.8	50.0 29.2	60.5 20.6
Don't know	12.5	32.1	51.0	20.8	18.9
		MARCH	2002		
With insulation	65.7	42.2	17.5	44.4	57.5
Without insulation Don't know	22.9 11.3	26.9 30.9	36.5 45.9	34.1 21.5	25.0 17.5
		MARCH	1999		
With insulation	62.3	37.4	14.8	37.6	54.5
Without insulation Don't know	26.1 11.6	28.5 34.1	36.1 49.1	41.0 21.3	27.6 17.9
• • • • • • • • • • • • •			•••••		
		JUNE :			
With insulation	58.6	37.6	16.4	40.1	52.1
Without insulation Don't know	31.5 10.0	33.3 29.1	44.1 39.5	43.0 16.9	33.1 14.7
• • • • • • • • • • • • •					

(a) Refers to caravans, houseboats and other improvised homes.

2.14 DWELLINGS WITH INSULATION, Where insulation installed—2005 NSW Vic. Qld SA WA Tas. NT(a) ACT Aust. % % % % % % % % % CAPITAL CITY 98.9 95.1 99.3 Roof/ceiling 97.7 99.8 98.6 98.4 Walls 29.8 37.7 24.4 31.3 29.0 30.1 5.1 *1.6 Floor *0.7 *1.5 0.5 *0.1 *5.2 1.1 Other *0.1 *0.1 *0.1 *0.1 _ BALANCE OF STATE / TERRITORY 98.1 93.8 Roof/ceiling 96.5 98.3 99.6 97.7 96.7 36.2 25.3 46.5 Walls 35.0 46.4 24.9 36.2 Floor *0.4 *1.2 *0.2 *1.1 *1.1 *2.0 *0.7 *0.3 Other *1.1 _ _ ____ _ *0.4 TOTAL STATE / TERRITORY Roof/ceiling 97.1 99.7 94.4 99.0 98 7 98.1 98.3 99.2 97.8 Walls 32.6 40.3 24.9 34.4 9.8 33.4 *14.7 43.9 31.7 Floor *0.9 *0.7 *0.4 1.1 *0.7 *3.4 *3.3 1.0 ____ Other *0.2 *0.4 *0.1 _ *0.5 *0.2 _ _

* estimate is subject to sampling variability too high for most practical purposes

. . not applicable

— nil or rounded to zero (including null cells)

(a) Northern Territory data refers to mainly urban areas only.

Note: No regional split between capital city and balance of state/territory for NT and ACT as the sample does not support any breakdown beyond the whole territory. Totals do not equal the sum of items in each column as more than one location may be specified.

2.15 DWELLINGS WITH INSULATION, Where insulation installed—1994:2005

_					,				
	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
• • • • • • • • • •		• • • • • •	• • • • • •			• • • • • •		• • • • • •	• • • • •
			MA	ARCH 2	2005				
Roof/ceiling	97.1	98.7	94.4	99.0	99.7	98.1	98.3	99.2	97.8
Walls	32.6	40.3	24.9	34.4	9.8	33.4	*14.7	43.9	31.7
Floor	*1.1	*0.9	*0.7	*0.7	*0.4	*3.4	_	*3.3	1.0
Other	*0.2	*0.4	—	—	*0.1	—	—	*0.5	*0.2
• • • • • • • • • •		• • • • • •			• • • • • •				
			MA	ARCH 2	2002				
Roof/ceiling	98.2	98.6	94.5	99.3	99.2	97.6	97.1	99.0	98.1
Walls	26.8	35.0	26.9	35.0	6.8	31.2	26.7	40.1	28.4
Floor	0.8	0.7	0.7	0.3	0.2	1.4	_	3.0	0.7
Other	0.1	0.3	_	_	0.1	_	—	0.2	0.1
• • • • • • • • • •		• • • • • •	• • • • • •		• • • • • •	• • • • • •		• • • • • •	• • • • •
			MA	ARCH 1	L999				
Roof/ceiling	97.4	98.7	93.3	98.4	99.3	97.2	98.3	98.8	97.7
Walls	24.0	31.5	26.1	27.3	7.7	26.6	16.1	39.8	25.7
Floor	0.6	0.4	1.0	0.2	0.2	1.7	0.9	1.2	0.6
Other	0.1	—	0.5	0.2	_	0.1	—	—	0.1
• • • • • • • • • •		• • • • • •			• • • • • •	• • • • • •		• • • • • •	• • • • •
			J	UNE 19	994				
Roof/ceiling	96.6	98.6	91.8	97.3	99.1	96.9	98.0	97.0	97.1
Walls	26.1	27.5	25.8	24.5	6.4	26.5	23.9	31.3	24.6
Floor	0.7	0.8	0.7	0.3	_	1.0	1.9	1.3	0.6
Other	0.3	0.1	0.4	0.4	0.6	0.3	—	0.4	0.3
• • • • • • • • • •									

* estimate is subject to sampling variability too high for most practical purposes

— nil or rounded to zero (including null cells)

(a) Northern Territory data refers to mainly urban areas only.

Note: Totals do not equal the sum of items in each column as more than one location may be specified.

5	16	2.
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DWELLINGS WITH INSULATION IN ROOF OR CEILING, Main type of insulation—1999:2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust
	%	%	%	%	%	%	%	%	%
	• • • • • •	• • • • • • N	1ARCH	2005	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • •
		IV.	IANOII	2005					
Batts - fibreglass/wool/poly	72.0	62.8	55.5	71.3	51.2	69.4	48.5	79.6	64.0
Sisalation/reflective foil	7.2	2.5	16.2	2.0	5.8	*2.4	35.9	*1.0	6.
Loose fill - Cellulose fibre	4.6	7.2	9.4	4.6	21.6	11.0	—	*3.1	8.
Loose fill - Rock wool	2.9	7.8	2.8	5.7	3.8	4.8	—	7.5	4.
Loose fill - Other/unknown	2.7	5.2	3.0	*1.5	5.8	5.2	—	*0.8	3.
Foam/plastic	*0.7	1.1	*1.3	*0.5	*0.5	*1.2	*2.0	*0.5	0.
Polystyrene sheets	*0.1	*0.2	*0.4	—	*0.3	*0.5	—	—	*0.
Insulated cladding	*0.2	*0.1	*0.2	*0.1	—	*0.1	—	—	*0.
Other	*0.8	*0.6	*0.8	*0.3	*0.6	*0.5	—	*0.3	0.
Not known	8.9	12.5	10.4	13.9	10.4	5.0	13.6	7.2	10.
	• • • • • •	• • • • • • • N	1ARCH	2002			• • • • • •	• • • • • •	• • • •
Batts - fibreglass/wool/poly	69.2	62.9	53.0	71.6	53.0	64.4	52.3	79.8	63.
Sisalation/reflective foil	7.3	2.6	18.4	1.9	6.6	1.9	38.3	0.7	6.
Loose fill - Cellulose fibre	7.3	2.0 7.1	18.4 8.6	1.9 5.4	20.7	13.3	30.3	3.6	8
Loose fill - Rock wool	2.1	7.1	2.3	5.4 5.0	4.7	4.0	1.6	5.0 6.3	0. 4.
Loose fill - Other/unknown	2.1	5.3	2.3 4.0	3.5	4.7	4.0 6.9		2.2	3
Foam/plastic	1.0	0.9	4.0 1.6	0.1	4.5 0.5	1.0	_	0.2	0
Polystyrene sheets	0.1	0.1	0.4	0.1	0.2		_	0.2	0.
Insulated cladding	0.1		0.7	0.1	0.2	0.4	1.6	_	0.
Other	0.1	0.7	2.1	0.1	0.3	0.7		_	0.
Not known	9.9	12.9	9.0	12.1	9.1	7.4	6.2	7.2	10.
									• • • •
			1ARCH						
Batts - fibreglass/wool/poly	69.8	60.8	53.6	65.6	48.6	63.2	45.5	70.3	62.
Sisalation/reflective foil	6.6	2.1	19.5	2.1	7.4	3.4	38.6	1.7	6.
Loose fill - Cellulose fibre	5.3	7.2	6.7	4.9	21.5	10.6	_	4.8	7.
Losse fill - Rock wool	2.9	7.1	2.2	5.4	3.9	6.8	1.8	7.6	4.
Loose fill - Other/unknown	2.9	5.6	3.4	2.1	6.2	3.8	_	2.7	4
Foam/plastic	0.3	0.9	0.9	0.4	0.6	0.3	1.8	—	0.
Polystyrene sheets	0.3	_	1.6	0.3	0.2	0.2	0.8	_	0.
Insulated cladding	0.3		0.3	0.1	_		0.9	_	0.
Other	0.9	0.7	1.1	0.5	0.4	0.5	2.8	1.0	0.
Not known	10.7	15.6	10.8	18.8	11.2	11.3	7.8	11.8	13.
	• • • • • •		• • • • • •				• • • • • •	• • • • • •	• • • •
 estimate is subject to sam 	pling varia	bility too h	ligh	(a) Nor	thern Terri	tory data	refers to m	nainly urba	n area
for most practical purpose	s			onl	y.				
all an an an an an an a' a' a'									

— nil or rounded to zero (including null cells)

2.17 DWELLINGS WITH INSULATION IN WALLS, Main type of insulation—1999:2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
					• • • • • •	• • • • • •		• • • • • •	• • • • •
		N	1ARCH	2005					
Batts - fibreglass/wool/poly	59.9	44.8	24.1	67.7	41.2	56.3	*51.2	59.3	50.3
Sisalation/reflective foil	20.8	36.2	51.7	10.2	37.0	28.4	*26.6	*8.0	29.2
Loose fill - Cellulose fibre	*1.0	*0.5	*2.6	—	*3.7	*0.5	—	*5.3	1.1
Loose fill - Rock wool	*2.4	*1.9	*1.1	*4.8	*0.9	*1.0	—	*9.1	2.4
Loose fill - Other/unknown	*0.4	*1.7	*0.8	*1.0	*2.7	*3.1	_	*1.7	1.2
Foam/plastic	*1.9	*1.1	*2.9	*0.3	*1.8	—	*7.6	*2.0	1.5
Polystyrene sheets	*0.8	*0.8	*4.2	—	*3.6	*1.9	—	—	1.2
Insulated cladding	*1.4	*1.7	*0.9	*0.3	_	*2.0	_	_	1.3
Other	*1.3	*0.4	*0.4	—	—	*1.4	—	—	*0.6
Not known	10.2	11.0	11.4	15.9	*9.1	*5.2	*14.5	14.5	11.2
• • • • • • • • • • • • • • • • • • • •	• • • • • •			• • • • • •	• • • • • •	• • • • • •		• • • • • •	• • • • •
			1ARCH	2002					
Batts - fibreglass/wool/poly	53.7	39.6	22.0	66.4	50.4	55.5	39.3	58.5	46.3
Sisalation/reflective foil	23.4	42.2	53.7	11.2	29.0	32.9	55.0	13.1	32.9
Loose fill - Cellulose fibre	1.2	0.8	2.2	1.2	2.6	1.0	—	2.8	1.2
Loose fill - Rock wool	2.7	0.9	1.3	2.1	1.4	0.5	5.8	3.0	1.7
Loose fill - Other/unknown	—	0.7	1.4	0.5	1.1	_	—	_	0.5
Foam/plastic	1.8	1.6	2.8	0.2	1.4	1.1	—	1.6	1.6
Polystyrene sheets	1.0	1.4	1.5	0.2	2.7	1.1	—	3.3	1.2
Insulated cladding	3.7	0.4	3.5	0.6	—	1.8	—	0.6	1.7
Other	1.4	1.1	0.9	0.8	2.7	—	—	_	1.1
Not known	11.1	11.2	10.8	16.7	8.7	6.2	—	17.0	11.7
				• • • • • •	• • • • • •			• • • • • •	
		N	1ARCH	1999					
Batts-fibreglass/wool/poly	52.2	36.6	23.6	63.5	32.6	41.7	30.6	56.3	43.3
Sisalation/reflective foil	28.7	41.9	56.5	7.9	38.0	41.0	37.6	10.2	34.7
Loose fill - Cellulose fibre	0.3	1.2	0.4	1.8	2.6	1.9	—	1.1	1.0
Loose fill - Rock wool	1.3	2.0	1.0	3.5	_	1.2	5.6	5.4	1.9
Loose fill - Other/unknown	—	1.1	—	0.5	3.8	_	—	2.5	0.7
Foam/plastic	1.3	1.6	3.5	0.9	2.5	0.6	5.1	1.8	1.7
Polystyrene sheets	1.8	0.4	4.6	1.5	2.9	1.2	_	1.0	1.5
Insulated cladding	2.2	0.4	1.9	0.6	_	1.3	_	1.2	1.2
Other	0.3	0.1	1.4	0.3	_	0.6	5.1	0.6	0.4
Not known	11.8	14.6	7.1	19.5	17.6	10.6	16.0	20.0	13.7
• • • • • • • • • • • • • • • • • • • •			•••••	• • • • • •	• • • • • •	• • • • • •		• • • • • •	• • • • •
* estimate is subject to sam	pling varia	bility too h	igh	(a) Nor	thern Terri	tory data	refers to m	ainly urba	n areas
for most practical purpose	S			only	<i>.</i>				

— nil or rounded to zero (including null cells)

	NSW	Vic.	Qld	SA	WA	Tas.	NT(b)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
	• • • • • •	• • • • • • I	MARCH	2005	• • • • • •	• • • • •		• • • • • •	• • • • •
Achieve comfort	83.8	77.7	90.2	83.3	87.0	82.2	*90.1	74.9	83.3
ost/save on energy bills	8.0	14.0	4.7	11.8	8.4	10.4 *5.0	*2.1	16.2	9.7
lse less energy Other	3.9 4.3	4.0 4.2	*3.2 *1.9	3.9 *1.1	*1.8 *2.8	*5.0 *2.3	*3.1 *6.8	*7.9 *1.0	3.7 3.3
		•••••	MARCH	2002	• • • • • •				
chieve comfort	86.4	75.1	90.0	87.1	90.8	80.2	92.0	76.6	83.8
st/save on energy bills	8.1	16.2	4.3	8.6	5.8	13.8	8.0	16.9	10.1
se less energy	1.9	4.4	2.0	2.9	1.3	2.7	_	6.0	2.8
her	3.5	4.3	3.8	1.3	2.1	3.4	—	0.5	3.3
		• • • • • •	• • • • • •	• • • • • •	• • • • • •			• • • • • •	
		I	MARCH	1999					
chieve comfort	88.8	80.2	94.0	87.7	92.3	82.1	66.5	77.6	86.5
Cost/save on energy bills	6.9	13.2	3.4	8.6	3.6	11.8	6.6	14.2	8.5
Jse less energy	1.8	3.0	0.6	2.3	2.2	3.8	—	5.4	2.2
ther	2.6	3.6	2.0	1.3	1.9	2.4	26.9	2.7	2.7
• • • • • • • • • • • • • • • • •			• • • • • •	• • • • • •	• • • • • •	• • • • •		• • • • • •	• • • • •
			JUNE	1994					
chieve comfort	81.2	66.0	86.1	78.6	86.2	76.2	94.3	63.5	76.4
Cost/save on energy bills	12.2	25.6	4.5	16.2	10.3	17.1	3.0	21.6	16.3
Jse less energy	4.1	6.7	3.8	4.1	1.6	5.9	—	12.9	4.9
ther	2.6	1.8	5.6	1.1	2.0	0.8	2.6	2.1	2.4

* estimate is subject to sampling variability too high for most practical purposes

— nil or rounded to zero (including null cells)

(a) Includes only households with some form of insulation and owner/occupants were responsible for its installation.

(b) Northern Territory data refers to mainly urban areas only.

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2.19 HOUSEHOLDS WITHOUT INSULATION IN DWELLING, Main reason for not installing __1994.2005

LIJ installing-199	4:20	05.							
	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
	• • • • •				• • • • • •	• • • • •	• • • • • •	• • • • • •	• • • • •
		MARC	H 200)5					
Cost	12.6	12.6	18.7	*12.1	20.2	21.3	*12.3	*18.2	15.5
Not interested	10.0	10.2	10.4	*11.4	*5.5	*9.9	*6.6	*8.9	9.8
Not needed because of climate	10.4	*5.6	8.9	*6.6	*4.3	*3.4	*17.6	*4.3	8.5
Haven't got around to it	10.1	13.5	13.3	*8.3	18.2	19.4	*3.3	—	12.4
Not possible due to dwelling structure	8.8	12.7	8.4	*6.7	7.2	*9.7	*7.3	*14.1	8.9
Not home owner/not responsible	37.2	31.7	29.7	39.0	33.8	30.8	*48.5	*41.0	33.8
Other	10.8	13.9	10.5	15.9	10.8	*5.6	*4.5	*13.5	11.1
	• • • • •		Н 200	• • • • • • • • •	• • • • • •	••••	• • • • • •	• • • • • •	• • • • •
0t	00 5				24.0	00.4	10.4	00.4	04.4
Cost	20.5	19.4	28.3	19.8	34.0	20.4	12.1	20.1	24.4
Not interested	15.4	17.4	13.8	17.5	15.8	23.4	9.7	14.1	15.3
Not needed because of climate	14.8	8.4	19.0	19.3	4.6	8.0	15.6		14.7
Haven't got around to it	19.5	22.6	16.3	15.2	20.0	24.8	5.8	16.2	18.6
Not possible due to dwelling structure	14.6	13.3	9.2	7.7	6.6	11.3	11.6	32.3	11.5
Not home owner/not responsible Other	0.3 14.8	0.5 18.3	0.4 13.1	1.6 18.8	19.0	1.3 10.8	3.9 41.4	6.2 11.2	0.4 15.1
		MARC	H 199	9					
Cost	23.9	24.1	31.0	22.9	31.9	29.0	13.8	32.4	27.2
Not intrested	16.9	16.5	20.1	19.9	14.8	19.6	21.2	6.8	17.9
Not needed because of climate	19.9	7.1	17.2	11.3	11.5	10.5	33.3	_	16.3
Haven't got around to it	20.5	26.0	12.6	23.5	21.5	27.3	21.9	23.5	18.6
Not possible due to dwelling structure	9.3	9.9	7.9	8.0	8.9	5.2	5.4	17.4	8.7
Not home owner/not responsible	0.5	0.5	0.3	1.6	—	_	_	—	0.4
Other	9.1	15.9	11.0	12.8	11.5	8.4	4.4	19.9	10.8
• • • • • • • • • • • • • • • • • • • •			1994 1994	 1	• • • • • •	• • • • •	• • • • • •	• • • • • •	• • • • •
0t	00.0				10.0	074	10.0	10.0	00.0
Cost	30.6	37.9	31.7	30.1	42.8	37.1	16.6	42.3	33.2
Not interested	21.6	20.0	17.6	11.0	12.7	19.2	22.4	20.2	18.8
Not needed because of climate	13.2	4.6	29.2	17.5	14.6	5.8	29.6		17.3
Haven't got around to it	15.2	20.7	7.7	23.6	10.4	20.0	6.6	31.3	13.4
Not possible due to dwelling structure	9.2	7.6	5.7	5.9	5.0	6.5	20.8	6.1	7.3
Not responsible	1.5	1.0	1.8	2.2	1.5	0.9		_	1.5
Other	8.7	8.2	6.3	9.8	13.1	10.5	4.1	_	8.4
 estimate is subject to sampling variabili 	ty too hig	h for	Note	: No regio					
most practical purposes				state/ten	riton/ for N	T and AC	T as the s	ample doe	e not

most practical purposes

state/territory for NT and ACT as the sample does not

— nil or rounded to zero (including null cells)

(a) Northern Territory data refers to mainly urban areas only.

support any break down beyond the whole territory.

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0	DWELLING CHAR lights—2005	ACTER			ing in		ngs—I	use of	ener	gy savi	ng
	ingint3 2003	NSW	Vic.	Qld	SA	WA	Tas.	 <i>NT</i> (a)	ACT	Aust.	
		%	%	%	%	%	%	%	%	%	
				CAPITA	L CITY						
	Fluorescent lights Other energy saving lights	46.3 39.8	45.1 30.9	73.2 31.2	50.6 38.6	51.6 32.5	46.5 29.8	· · · ·	 	51.2 34.8	
		BA	LANCE	OF STA	TE / TE	RRITOR	Y				
	Fluorescent lights Other energy saving lights	62.7 32.9	62.0 30.2	75.6 27.7	65.8 37.0	70.9 30.4	48.3 29.6	· · · ·	 	66.5 30.8	
			TOTAL	STATE	/ TERRI	TORY					
	Fuorescent lights Other energy saving lights	52.5 37.2	49.9 30.7	74.5 29.3	54.5 38.2	56.6 32.0	47.6 29.7	84.3 28.8	46.1 34.9	56.7 33.3	
	 . not applicable (a) Northern Territory data re only. 	fers to mai	nly urban ar	eas	sta	regional spl te/territory f pport any br	or NT and	ACT as the	e sample d	loes not	

.

2.2

2.21	lights—1999:20							-	se of	energy	/ savin	g	
		NSW	Vic.	Qld	SA	WA	Tas.	<i>NT</i> (a)	ACT	Aust.			•••
		%	%	%	%	%	%	%	%	%			
	• • • • • • • • • • • • • • • • • • • •	• • • • •	M	ARCH	2005	• • • • • •							
	Fluorescent lights Other energy saving lights	52.5 37.2	49.9 30.7	74.5 29.3	54.5 38.2	56.6 32.0	47.6 29.7	84.3 28.8	46.1 34.9	56.7 33.3			
		• • • • •	M	ARCH	2002	• • • • • •							
	Fluorescent lights Other energy saving lights	55.2 23.2	54.1 23.8	75.2 22.8	51.7 24.1	58.9 25.3	42.3 15.9	86.1 19.8	47.9 26.2	58.6 23.4			
		• • • • •	MA	RCH 1	1999(b)							
	Fluorescent lights	56.7	56.0	76.1	55.3	58.9	49.0	85.4	54.9	60.2			
	•••••				• • • • • •	• • • • • •	• • • • •			• • • • •			

DWELLING CHARACTERISTICS, Lighting in dwellings—use of energy saving

(a) Northern Territory data refers to mainly urban areas only.

(b) Information on other saving lights not collected in March 1999.

DWELLING CHARACTERISTICS, Lighting in dwelling—number of bedrooms lit by **2.22** fluorescent or other energy saving lights—2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
				• • • • • • •					
			CA	PITAL C	CITY				
One	27.2	34.0	27.2	30.9	35.4	31.5			30.3
Two	25.7	24.5	26.0	21.6	24.8	26.2			24.9
Three	15.0	14.8	16.2	19.1	14.5	17.5			15.6
Four or more	20.4	16.2	22.2	19.4	16.6	16.8			18.9
Whole house	11.5	10.3	8.1	9.0	8.4	*7.9			10.0
None	*0.3	*0.2	*0.3	—	*0.3	_			*0.2
		BALAN	ICE OF	STATE	/ TERR	ITORY			
One	26.5	37.4	22.3	25.5	32.9	33.5			27.8
Two	26.9	25.8	22.6	25.8	25.4	25.3			25.1
Three	16.8	15.8	18.0	23.8	16.9	17.7			17.4
Four or more	21.1	14.3	22.3	17.7	19.8	14.9			19.7
Whole house	8.7	6.5	14.8	7.2	*5.0	8.6			9.8
None	_	*0.2	—	—	—	—			*
• • • • • • • • • • •									
		то	TAL ST	ATE / T	ERRITO	RY			
One	26.9	35.1	24.5	29.4	34.7	32.7	22.3	31.2	29.3
Two	26.2	24.9	24.2	22.8	25.0	25.7	27.1	23.6	25.0
Three	15.7	15.2	17.2	20.4	15.2	17.6	*13.6	19.2	16.3
Four or more	20.7	15.6	22.2	18.9	17.5	15.7	16.3	17.3	19.2
Whole house	10.3	9.0	11.8	8.5	7.4	8.3	20.6	8.7	10.0
None	*0.2	*0.2	*0.2	—	*0.2	_	_	_	*0.2

* estimate is subject to sampling variability too high for most practical purposes

.. not applicable

.

- nil or rounded to zero (including null cells)

(a) Northern Territory data refers to mainly urban areas only.

Note: No regional split between capital city and balance of state/territory for NT and ACT as the sample does not support any breakdown beyond the whole territory.

2.

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	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.	
	%	%	%	%	%	%	%	%	%	
		MAF	RCH 2	005						
Outside awnings or shutters	27.7	37.7	28.2	42.8	21.0	7.8	*10.7	27.1	30.2	
Boxed pelmets	9.7	22.7	9.3	16.6	14.2	20.1	*6.3	16.4	14.1	
Tinted glass or solar guarding	7.3	4.4	21.1	8.3	17.0	7.0	14.3	6.4	10.4	
Double glazing	3.0	3.8	1.8	2.4	1.6	4.3	*2.2	5.3	2.8	
Louvre windows	3.9	5.4	12.1	6.4	4.3	3.4	25.9	*1.8	6.2	
None of the above	60.4	45.1	47.4	42.1	54.8	65.2	58.8	55.4	52.1	
	• • • • • •	•••••	•••••	•••••	••••	• • • • •	• • • • • •		• • • • •	
			RCH 2							
Outside awnings or shutters	27.9	39.0	31.8	42.0	22.6	8.7	12.8	29.8	31.4	
Boxed pelmets	9.9	22.3	11.4	16.2	16.6	21.3	7.6	15.1	14.8	
Finted glass or solar guarding	8.0	3.8	17.7	9.3	15.1	5.4	10.1	5.5	9.6	
Double glazing	2.9	3.4	1.7	2.1	1.8	3.8	0.7	4.5	2.6	
Louvre windows	3.9	7.8	15.7	7.1	4.4	5.0	49.9	1.4	7.8	
None of the above	59.2	44.2	45.5	43.7	55.1	65.8	34.7	56.2	51.1	
		MAF	•••• ксн 1	••••• 999						
Outside awnings	27.4	39.8	30.4	39.9	24.1	7.7	15.6	30.4	31.2	
Boxed pelmets	22.7	33.0	24.7	26.2	24.1	28.2	13.2	24.0	26.1	
Tinted glass	6.3	3.5	15.2	20.2 8.8	23.8 15.8	4.4	13.2 15.7	24.0 5.9	8.4	
Double glazing	1.7	2.2	2.1	1.8	2.5	3.3	0.8	3.8	2.1	
None of the above	53.9	40.1	45.0	43.2	50.7	63.2	62.8	51.8	47.9	
		JUI	NE 19	94						
Outside awnings	23.8	34.5	28.5	37.6	21.3	7.6	22.0	24.3	27.8	
Boxed pelmets	17.0	26.9	13.2	21.6	17.6	25.3	10.8	20.7	19.5	
Finted glass	5.6	3.0	13.9	8.1	13.9	2.7	17.5	4.5	7.4	
Double glazing	1.2	1.3	0.6	0.7	1.3	1.4	1.4	1.1	1.1	

• •

* estimate is subject to sampling variability too high for most practical purposes
 (a) Northern Territory data refers to mainly urban areas only.

Note: Totals do not equal the sum of items in each column as more than one treatment or application may be specified.

CHAPTER 3

ENERGY SOURCES IN DWELLINGS

INTRODUCTION

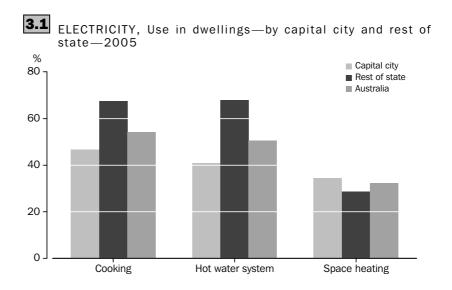
The amount and type of energy used in the home has considerable implications for the environment. For example, they deplete natural resources, generate greenhouse emissions and pollute the air. Increasing awareness of these problems has led to the introduction and use of alternative energy sources (e.g. solar energy). Measures to reduce energy demand such as the use of off-peak electricity are also encouraged.

 ELECTRICITY
 Almost all dwellings (99%) in Australia use electricity for power or heating (table 3.7).

 This can be attributed to the widespread availability of electricity and its capacity to operate virtually all household appliances.

In March 2005, electricity was the primary energy source for cooking (54% of households) and hot water systems (51%) throughout Australia (graph 3.1). Usage of electricity for these purposes was more pronounced outside of capital cities (68% cooking and hot water system) than within them (47% cooking, 41% hot water system). Electricity was also used to boost 90% of solar water heaters in Australia (table 3.15).

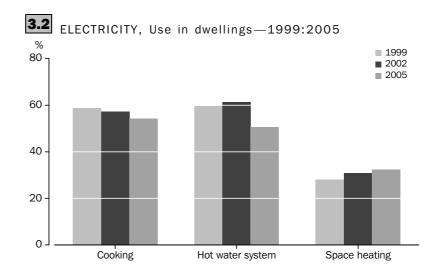
However, electricity (32%) and gas (33%, mains gas and LPG/bottled gas combined) were almost equally preferred for space heating (table 3.11). Households relied more heavily on electricity for space heating in Tasmania (55%), New South Wales (44%) and South Australia (42%).



Between 1999 and 2005, there was a decline in the use of electricity for cooking and hot water — from 58% down to 54% and from 60% down to 51% respectively (graph 3.2). There was also a significant increase in use of off-peak electricity for hot water between 2002 and 2005 — from 30% to 34% (table 3.14). Off-peak electricity refers to the supply of electricity during periods of time of less activity than at regular times (between 11 PM

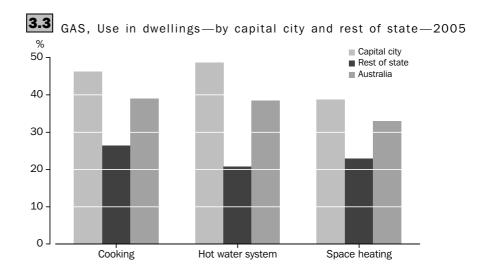
ELECTRICITY continued

to 7 AM). In March 2005, Queensland had the highest proportion of households (50%) using off-peak electricity for hot water followed by New South Wales (47%) and South Australia (36%).



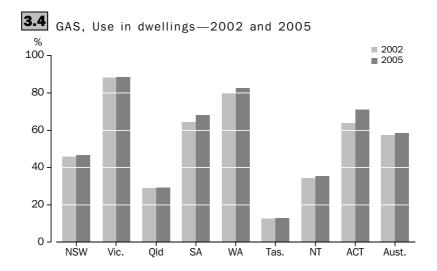
GAS

Gas is the second most important source of energy for Australian households, and was used in more than half (58%) of households in March 2005, particularly in the gas producing areas of Victoria (88%) and Western Australia (83%) (tables 3.7 and 3.8). Gas (mains or LPG/bottled gas) was used mainly for cooking (39% of households), heating water (38% of households), and space heating (33% of households). Gas usage was most pronounced in the capital cities than rest of states/territories (graph 3.3).



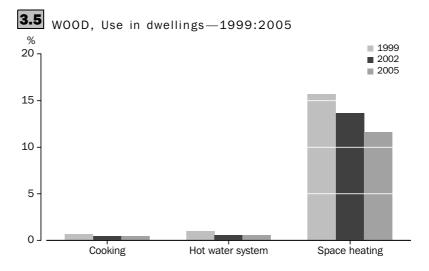
Tasmania had the lowest proportion of households using gas (13%), of which most was LPG or bottled gas. Gas usage in Australian Capital Territory increased substantially from 64% in 2002 to 71% in 2005 (graph 3.4).

GAS continued



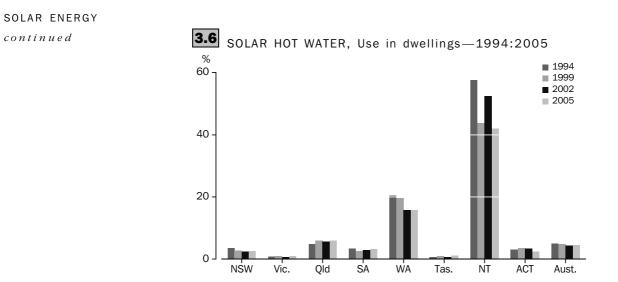
WOOD

Across Australia, wood was used mainly for space heating (graph 3.5). In March 2005, about 12% of households in Australia used wood for space heating (table 3.12). Between 1994 and 2005, the number of homes using wood for space heating declined from 18% to 12%.



SOLAR ENERGY

Solar energy is primarily used in Australia for heating water and was utilised by 4% of Australian households in 2005. The Northern Territory had the largest proportion of households (42% in 2005) using solar energy to heat water (Graph 3.6). Households from Western Australia were also significant users of solar energy (16%).



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Sources of energy in dwellings—2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust
	••••		CAPITA	L CITY				• • • • • •	• • • • • •
Estimate ('000)									
Electricity	1 595.7	1 322.9	696.4	479.6	582.9	81.8			4 937.8
Mains gas	700.5	1 257.7	140.7	345.7	463.6	*0.8			2 997.1
LPG/bottled gas	88.5	25.3	89.3	13.8	27.2	8.6			272.8
Wood	112.1	135.5	48.9	52.6	64.9	30.8			453.9
Solar	38.1	19.7	38.1	14.7	84.2	*1.4			223.9
Oil	17.5	*3.9	*1.7	*11.5	*8.2	*3.8			48.2
Other	*0.9	*1.9	*1.2	*0.4	*2.1	*0.3			*6.8
Total households(b)	1 606.5	1 370.0	699.9	480.3	585.8	81.8			5 004.2
Proportion (%)									
Electricity	99.3	96.6	99.5	99.8	99.5	100.0			98.7
Mains gas	43.6	91.8	20.1	72.0	79.1	*1.0			59.9
LPG/bottled gas	5.5	1.8	12.8	2.9	4.6	10.6			5.5
Wood	7.0	9.9	7.0	11.0	11.1	37.6			9.1
Solar	2.4	1.4	5.4	3.1	14.4	*1.7			4.5
Oil	1.1	*0.3	*0.2	*2.4	*1.4	*4.7			1.0
Other	*0.1	*0.1	*0.2	0.1	*0.4	*0.3			*0.2
	E	BALANCE	E OF STA	TE / TE	RRITOR	Y			
Estimate ('000)									
Electricity	979.3	540.2	828.2	163.1	200.9	113.3			2 824.9
Mains gas	208.4	294.6	48.7	19.9	66.9	*0.6			639.2
LPG/bottled gas	213.8	117.2	170.3	59.1	94.7	15.0			670.2
Wood	246.4	192.0	102.5	60.9	91.5	59.9			753.2
Solar	48.1	14.8	62.8	*9.5	48.5	*1.7			185.4
Oil	*16.0	*2.5	*6.0	*3.2	*2.9	*3.2			33.8
Other	*3.3	*2.6	*4.1	*0.4	*0.7	*0.4			*11.
Total households(b)	983.9	546.4	832.3	163.1	203.1	114.1			2 842.8
Proportion (%)									
Electricity	99.5	98.9	99.5	100.0	98.9	99.2			99.4
Mains gas	21.2	53.9	5.9	12.2	32.9	0.6			22.5
LPG/bottled gas	21.7	21.4	20.5	36.3	46.6	13.2			23.6
Wood	25.0	35.1	12.3	37.3	45.1	52.4			26.5
Solar	4.9	2.7	7.5	*5.8	23.9	*1.5			6.5
Oil	*1.6	*0.5	*0.7	*1.9	*1.4	*2.8			1.2
Other	*0.3	*0.5	*0.5	*0.3	*0.3	*0.4			*0.4
								• • • • • •	• • • • • •
		τοτα	L STATE	/ TERRI	TORY				
stimate ('000)									
Electricity	2 575.0	1 863.0	1 524.6	642.7	783.9	195.1	54.5	124.0	7 762.7
Mains gas	908.9	1 552.3	189.4	365.5	530.5	*1.4	*0.6	87.6	3 636.3
LPG/bottled gas	302.2	142.5	259.6	72.9	121.9	23.7	18.8	*1.4	943.0
Wood	358.5	327.5	151.5	113.5	156.4	90.6	*0.7	8.3	1 207.
Solar	86.2	34.6	100.8	24.3	132.7	*3.1	24.2	*3.4	409.3
Oil	33.6	*6.4	*7.7	14.7	*11.1	7.0		*1.4	81.9
Other	*4.2	*4.5	*5.3	*0.8	*2.8	*0.7	_		18.2
Total households(b)	2 590.4	1 916.4	1 532.1	643.4	788.9	195.9	54.7	125.2	7 847.0
estimate is subject to sa		willy too riig	101		als do not eq				
most practical purposes	6				e than one s				
. not applicable				Note: No	regional spl	it between	capital cit	y and bala	ince of
 nil or rounded to zero (in 	ncluding null	cells)		sta	te/territory fo	or NT and A	CT as the	sample d	oes not

nil or rounded to zero (including null cells)
 Northern Territory data refers to mainly urban areas only.
 support any breakdown beyond the whole territory.

3.7 SOURCES	OF ENE	RGY IN	I DWEI	LINGS	-2005	5 conti	nued			
	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.	
• • • • • • • • • • • • • • • • • • • •	то	TAL STA	ATE / TE	ERRITOR	Y cont.					
Proportion (%)										
Electricity	99.4	97.2	99.5	99.9	99.4	99.6	99.5	99.1	98.9	
Mains gas	35.1	81.0	12.4	56.8	67.2	*0.7	*1.1	70.0	46.3	
LPG/bottled gas	11.7	7.4	16.9	11.3	15.5	12.1	34.3	*1.1	12.0	
Wood	13.8	17.1	9.9	17.6	19.8	46.3	*1.3	6.7	15.4	
Solar	3.3	1.8	6.6	3.8	16.8	*1.6	44.3	*2.7	5.2	
Oil	1.3	*0.3	*0.5	2.3	*1.4	3.6	_	*1.1	1.0	
Other	*0.2	*0.2	*0.3	*0.1	*0.3	0.3	—	—	0.2	
* estimate is subject to sam	npling variabili	ity too high f	or	Note: No r	egional split	between	capital city	and balan	ce of	

most practical purposes

— nil or rounded to zero (including null cells)

(a) Northern Territory data refers to mainly urban areas only.

state/territory for NT and ACT as the sample does not support any breakdown beyond the whole territory.

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SOURCES	OF ENE	RGY I	N DW	ELLIN	GS-2	2002	and 2	2005	• • • •
	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
	• • • • • • • •				• • • • • •		• • • • • •		• • • • •
			MAI	RCH 20	005				
Electricity	99.4	97.2	99.5	99.9	99.4	99.6	99.5	99.1	98.9
Mains gas	35.1	81.0	12.4	56.8	67.2	*0.7	*1.1	70.0	46.3
LPG/bottled ga	as 11.7	7.4	16.9	11.3	15.5	12.1	34.3	*1.1	12.0
Wood	13.8	17.1	9.9	17.6	19.8	46.3	*1.3	6.7	15.4
Solar	3.3	1.8	6.6	3.8	16.8	*1.6	44.3	*2.7	5.2
Oil	1.3	*0.3	*0.5	2.3	1.4	3.6	_	*1.1	1.0
Other	*0.2	*0.2	*0.3	*0.1	*0.3	*0.3	—	—	0.2
•••••	• • • • • • • •			•••••	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • •
			MAI	RCH 20	002				
Electricity	99.6	98.6	99.8	99.9	99.1	99.8	100.0	100.0	99.4
Gas	45.7	88.0	28.9	64.4	79.9	12.5	34.4	63.8	57.3
Wood	15.1	20.2	10.7	21.6	26.1	51.6	2.7	9.4	17.9
Coal/coke	0.1	0.1		0.1	_	_	_	_	_
Solar	2.8	0.9	6.2	3.1	16.1	0.9	52.5	4.1	4.7
Photo voltaic	0.1	0.1		_	0.2	_	_	_	0.1
Other	2.2	1.0	2.0	4.0	2.3	4.6	0.7	2.0	2.1
	• • • • • • • •						• • • • • •		• • • • •

* estimate is subject to sampling variability too high for most practical purposes

— nil or rounded to zero (including null cells)

(a) Northern Territory data refers to mainly urban areas only.

3.9 MAIN SOURCE OF ENERGY USED IN COOKING-2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
• • • • • • • • • • • • • • • • • • • •			PITAL (• • • • •	
Estimate ('000)		0,1							
Electricity	979.4	277.9	522.4	187.4	181.4	75.6			2 336.3
Mains gas	516.6	911.6	102.8	253.2	329.6	*0.4			2 330.3
LPG/bottled gas	43.7	*8.0	62.7	*6.2	15.4	*3.0			2 155.2 155.2
Electricity and gas combined	43.7 61.7	171.3	*10.7	32.4	13.4 57.8	*2.2			346.4
Wood	*3.5		10.7	*0.7	*0.4	*0.6			*5.5
Solar	*1.7	_	*1.2	0.7	*1.2	0.0		• •	*4.1
Oil	·· 1.7	*0.6	·· 1.2	*0.4	·· 1.2			• •	*1.0
Other	_	*0.6	_	0.4	_	_		• •	*0.6
Total households	 1 606.5	1 370.0	699.9	480.3	585.8	81.8		• •	5 004.2
	1 000.5	1 370.0	099.9	400.5	565.6	01.0		• •	5 004.2
Proportion (%)									
Electricity	61.0	20.3	74.6	39.0	31.0	92.4		• •	46.7
Mains gas	32.2	66.5	14.7	52.7	56.3	*0.5			43.1
LPG/bottled gas	2.7	*0.6	9.0	*1.3	2.6	*3.7			3.1
Electricity and gas combined	3.8	12.5	*1.5	6.7	9.9	*2.6			6.9
Wood	*0.2	—	—	*0.2	*0.1	*0.8			*0.1
Solar	*0.1	_	*0.2	_	*0.2	_			*0.1
Oil	—	*	_	*0.1	—	—			*
Other	—	*	—	—	—	_			*
	BAL	ANCE OF	- STATE	/ TERR	ITORY				
Estimate ('000)						100 -			
Electricity	734.5	252.2	653.9	116.4	61.9	100.7	• •	• •	1 919.6
Mains gas	110.9	175.6	27.6	14.0	45.5	*0.2	• •	• •	373.8
LPG/bottled gas	84.7	64.4	118.5	27.7	73.2	9.1	• •	• •	377.7
Electricity and gas combined	38.4	45.2	26.0	*3.4	19.0	*1.1	• •	• •	133.0
Wood	*13.7	*8.4	*5.1	*1.6	*3.1	*2.8	• •	• •	34.8
Solar	*1.6	—	*0.5	—	*0.4	_	• •	• •	*2.6
Oil	—	_		—	—		• •	• •	_
Other		*0.6	*0.5			*0.2	• •	• •	*1.4
Total households	983.9	546.4	832.3	163.1	203.1	114.1	• •	• •	2 842.8
Proportion (%)									
Electricity	74.7	46.2	78.6	71.4	30.5	88.3			67.5
Mains gas	11.3	32.1	3.3	8.6	22.4	*0.2			13.1
LPG/bottled gas	8.6	11.8	14.2	17.0	36.0	8.0			13.3
Electricity and gas combined	3.9	8.3	3.1	*2.1	9.3	*0.9			4.7
Wood	*1.4	*1.5	*0.6	*1.0	*1.5	*2.4			1.2
Solar	*0.2	—	*0.1	_	*0.2	_			*0.1
Oil	_	_	_	_	_	_			_
Other	—	*0.1	*0.1	—	—	*0.2			*
								••••	

* estimate is subject to sampling variability too high for most practical purposes

. . not applicable

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— nil or rounded to zero (including null cells)

(a) Northern Territory data refers to mainly urban areas only. Note: No regional split between capital city and balance of state/territory for NT and ACT as the sample does not

support any breakdown beyond the whole territory.

MAIN SOURCE	E OF EN	IERGY	USED I	N COO	KING—	-2005	contir	ıued	
	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	1	OTAL S	TATE / T	ERRITO	RY				
nate ('000)									
lectricity	1 713.9	530.1	1 176.3	303.8	243.3	176.3	38.3	73.9	4 255.8
lains gas	627.5	1 087.2	130.5	267.2	375.1	*0.6	*0.6	40.4	2 529.0
G/bottled gas	128.4	72.5	181.3	33.9	88.6	12.2	15.6	*0.5	532.9
ectricity and gas combined	100.1	216.5	36.7	35.8	76.7	*3.2	*0.3	10.1	479.4
ood	17.2	*8.4	*5.1	*2.3	*3.5	*3.4	_	*0.2	40.3
lar	*3.3	_	*1.7	_	*1.6	_	_	_	*6.6
	_	*0.6	_	*0.4	_	_	_	_	*1.0
her	_	*1.2	*0.5	_	_	*0.2	_	_	*2.0
tal households	2 590.4	1 916.4	1 532.1	643.4	788.9	195.9	54.7	125.2	7 847.0
rtion (%)									
ectricity	66.2	27.7	76.8	47.2	30.8	90.0	70.0	59.0	54.2
lains gas	24.2	56.7	8.5	41.5	47.5	*0.3	*1.1	32.3	32.2
G/bottled gas	5.0	3.8	11.8	5.3	11.2	6.2	28.4	*0.4	6.8
ectricity and gas combined	3.9	11.3	2.4	5.6	9.7	*1.6	*0.5	8.1	6.1
bod	0.7	*0.4	*0.3	*0.4	*0.4	*1.7	_	*0.2	0.5
lar	*0.1	_	*0.1	_	*0.2	_	_	_	*0.1
	_	_	_	*0.1	_	_	_	_	*
her	_	*0.1	_	_	_	*0.1		_	*

practical purposes

* estimate is subject to sampling variability too high for most Note: No regional split between capital city and balance of state/territory for NT and ACT as the sample does not

support any breakdown beyond the whole territory.

— nil or rounded to zero (including null cells)

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(a) Northern Territory data refers to mainly urban areas only.

3.10 MAIN SOURCE OF ENERGY USED IN COOKING-1999:2005 NSW Vic. Old SA WA Tas. NT(a) ACT Aust. % % % % % % % % % MARCH 2005 Electricity 66.2 27.7 76.8 47.2 30.8 90.0 70.0 59.0 54.2 Mains gas 24.2 41.5 47.5 *0.3 *1.1 32.3 32.2 56.7 8.5 LPG/bottled gas 5.0 6.2 *0.4 6.8 3.8 11.8 5.3 11.2 28.4 Electricity and gas combined 3.9 11.3 2.4 9.7 *1.6 *0.5 8.1 5.6 6.1 *0.3 *0.4 *0.4 *1.7 *0.2 0.5 Wood 0.7 *0.4 _ Solar *0.1 *0.1 *0.2 ____ *0.1 _ ____ _ _ MARCH 2002 Electricity 68.0 32.1 76.9 50.2 38.4 93.6 69.6 70.4 57.1 Gas(b) 31.6 67.3 22.6 49.7 61.1 5.0 30.4 29.6 42.4 Wood 0.4 0.6 0.5 0.1 0.5 1.3 0.5 _ MARCH 1999 32.1 78.0 Electricity 71.3 51.8 38.7 91.8 69.7 72.6 58.6 Gas(b) 47.6 40.5 27.9 66.4 21.5 60.4 5.9 29.9 26.7 Wood 0.7 1.0 0.5 0.3 0.7 2.2 0.4 0.2 0.7 0.1 Other 0.1 0.5 0.2 0.2 0.5 0.2 _ _ estimate is subject to sampling variability too high (a) Northern Territory data refers to mainly urban areas

for most practical purposes

.

nil or rounded to zero (including null cells)

only. (b) No sub-classification as to mains gas or LPG/bottled

gas.

3.11 MAIN SOURCE OF ENERGY USED IN SPACE HEATING—2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	• • • • • • •								
			CAPIT	AL CITY					
Estimate ('000)									
Electricity	799.7	190.9	266.5	212.2	154.0	53.1			1 721.3
Mains gas	270.3	1 071.5	*7.3	174.0	274.0	*0.2			1 872.1
LPG/bottled gas	34.2	*8.6	*4.7	*3.9	*7.1	*2.9			64.3
Wood	72.9	57.6	40.0	36.3	42.7	22.7			276.7
Solar					*0.4				*0.4
Oil	*10.5	*2.6	*1.7	9.8	*5.3	*2.1			33.0
Other/varies	-10.5	*1.2	*0.7	9.8 *0.4	*1.2		• •	• •	*3.6
	*0.0					—	• •	• •	
Don't know	*2.8	*10.8	*2.8	*2.5	*4.4	+0.0	• •	• •	24.1
No heater	416.1	26.7	376.2	41.3	96.7	*0.9	• •	• •	1 008.8
Total households	1 606.5	1 370.0	699.9	480.3	585.8	81.8	• •	• •	5 004.2
Proportion (%)									
Electricity	49.8	13.9	38.1	44.2	26.3	64.9			34.4
Mains gas	16.8	78.2	*1.0	36.2	46.8	*0.2			37.4
LPG/bottled gas	2.1	*0.6	*0.7	*0.8	*1.2	*3.5			1.3
Wood	4.5	4.2	5.7	7.6	7.3	27.7			5.5
Solar	_	_	_	_	*0.1	_			*
Oil	*0.7	*0.2	*0.2	2.0	*0.9	*2.6			0.7
Other/varies	_	*0.1	*0.1	*0.1	*0.2	_			*0.1
Don't know	*0.2	*0.8	*0.4	*0.5	*0.8	_			0.5
No heater	25.9	1.9	53.7	8.6	16.5	*1.1			20.2
		BALANCI	E OF ST	ATE / T	ERRITO	۲Y			
Estimate ('000)									
Electricity	347.2	89.8	223.5	59.4	38.9	55.2	• •	• •	814.1
Mains gas	147.8	251.9	*11.4	14.8	38.7	_	• •	• •	464.4
LPG/bottled gas	97.7	32.2	17.5	22.0	11.3	4.8	• •	• •	185.5
Wood	208.6	157.8	79.8	54.5	81.1	50.7	• •	• •	632.5
Solar	*0.7	*0.7	*0.6	—	—	*0.2	• •	• •	*2.2
Oil	*11.1	*0.6	*4.3	*1.6	*1.2	*1.3	• •		20.0
Other/varies	*1.6	*0.6	*1.3	*0.4	_	*0.4			*4.3
Don't know	*3.1	*4.0							
No heater	3.1	^4.0	*4.2	*0.8	*2.0	*0.2	• •	• •	14.2
NO neater	166.1	*8.9	*4.2 489.7	*0.8 9.7	*2.0 29.9	*0.2 *1.3		· · · ·	14.2 705.5
Total households									
	166.1	*8.9	489.7	9.7	29.9	*1.3			705.5
Total households	166.1	*8.9	489.7	9.7	29.9	*1.3			705.5
Total households Proportion (%) Electricity	166.1 983.9	*8.9 546.4	489.7 832.3	9.7 163.1	29.9 203.1	*1.3 114.1		 	705.5 2 842.8
Total households Proportion (%) Electricity Mains gas	166.1 983.9 35.3	*8.9 546.4 16.4	489.7 832.3 26.9	9.7 163.1 36.4	29.9 203.1 19.2	*1.3 114.1 48.4	· · · · ·	 	705.5 2 842.8 28.6
Total households Proportion (%) Electricity Mains gas LPG/bottled gas	166.1 983.9 35.3 15.0 9.9	*8.9 546.4 16.4 46.1 5.9	489.7 832.3 26.9 *1.4 2.1	9.7 163.1 36.4 9.0 13.5	29.9 203.1 19.2 19.0	*1.3 114.1 48.4	· · · · · · ·	· · · · · · ·	705.5 2 842.8 28.6 16.3 6.5
Total households Proportion (%) Electricity Mains gas LPG/bottled gas Wood	166.1 983.9 35.3 15.0	*8.9 546.4 16.4 46.1	489.7 832.3 26.9 *1.4 2.1 9.6	9.7 163.1 36.4 9.0	29.9 203.1 19.2 19.0 5.6	*1.3 114.1 48.4 	· · · · ·	· · · · · · · · ·	705.5 2 842.8 28.6 16.3
Total households Proportion (%) Electricity Mains gas LPG/bottled gas Wood Solar	166.1 983.9 35.3 15.0 9.9 21.2 *0.1	*8.9 546.4 16.4 46.1 5.9 28.9 *0.1	489.7 832.3 26.9 *1.4 2.1 9.6 *0.1	9.7 163.1 36.4 9.0 13.5 33.4	29.9 203.1 19.2 19.0 5.6 40.0	*1.3 114.1 48.4 	 	· · · · · · · · · · ·	705.5 2 842.8 28.6 16.3 6.5 22.2 *0.1
Total households Proportion (%) Electricity Mains gas LPG/bottled gas Wood Solar Oil	166.1 983.9 35.3 15.0 9.9 21.2 *0.1 *1.1	*8.9 546.4 16.4 46.1 5.9 28.9 *0.1 *0.1	489.7 832.3 26.9 *1.4 2.1 9.6 *0.1 *0.5	9.7 163.1 36.4 9.0 13.5 33.4 *1.0	29.9 203.1 19.2 19.0 5.6	*1.3 114.1 48.4 4.2 44.4 *0.2 *1.1	· · · · · · · · · · ·	· · · · · · · · · · ·	705.5 2 842.8 28.6 16.3 6.5 22.2 *0.1 0.7
Total households Proportion (%) Electricity Mains gas LPG/bottled gas Wood Solar Oil Other/varies	166.1 983.9 35.3 15.0 9.9 21.2 *0.1 *1.1 *0.2	*8.9 546.4 16.4 46.1 5.9 28.9 *0.1 *0.1 *0.1	489.7 832.3 26.9 *1.4 2.1 9.6 *0.1 *0.5 *0.2	9.7 163.1 36.4 9.0 13.5 33.4 *1.0 *0.3	29.9 203.1 19.2 19.0 5.6 40.0 *0.6	*1.3 114.1 48.4 4.2 44.4 *0.2 *1.1 *0.4	· · · · · · · · · · · · · · ·	· · · · · · · · · · · · ·	705.5 2 842.8 28.6 16.3 6.5 22.2 *0.1 0.7 *0.2
Total households Proportion (%) Electricity Mains gas LPG/bottled gas Wood Solar Oil Other/varies Don't know	166.1 983.9 35.3 15.0 9.9 21.2 *0.1 *1.1 *0.2 *0.3	*8.9 546.4 16.4 46.1 5.9 28.9 *0.1 *0.1 *0.1 *0.1	489.7 832.3 26.9 *1.4 2.1 9.6 *0.1 *0.5 *0.2 *0.5	9.7 163.1 36.4 9.0 13.5 33.4 *1.0 *0.3 *0.5	29.9 203.1 19.2 19.0 5.6 40.0 *0.6 *1.0	*1.3 114.1 48.4 4.2 44.4 *0.2 *1.1 *0.4 *0.2	· · · · · · · · · · · · · · ·	· · · · · · · · · · · · ·	705.5 2 842.8 28.6 16.3 6.5 22.2 *0.1 0.7 *0.2 0.5
Total households Proportion (%) Electricity Mains gas LPG/bottled gas Wood Solar Oil Other/varies	166.1 983.9 35.3 15.0 9.9 21.2 *0.1 *1.1 *0.2	*8.9 546.4 16.4 46.1 5.9 28.9 *0.1 *0.1 *0.1	489.7 832.3 26.9 *1.4 2.1 9.6 *0.1 *0.5 *0.2	9.7 163.1 36.4 9.0 13.5 33.4 *1.0 *0.3	29.9 203.1 19.2 19.0 5.6 40.0 *0.6	*1.3 114.1 48.4 4.2 44.4 *0.2 *1.1 *0.4	· · · · · · · · · · · · · · ·	· · · · · · · · · · · · ·	705.5 2 842.8 28.6 16.3 6.5 22.2 *0.1 0.7 *0.2

* estimate is subject to sampling variability too high for Note: No regional split between capital city and balance of state/territory for NT and ACT as the sample does not support any breakdown beyond the whole territory.

. . not applicable

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most practical purposes

— nil or rounded to zero (including null cells)

(a) Northern Territory data refers to mainly urban areas only.

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3.11 MAIN SOURCE OF ENERGY USED IN SPACE HEATING—2005 continued

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
• • • • • • • • • • • • • • • • •	•••••			• • • • • • •	• • • • • • •		• • • • • •		
		TOTA	AL STATE	E / TERF	RITORY				
Estimate ('000)									
Electricity	1 146.9	280.8	490.0	271.6	192.9	108.3	*2.4	42.6	2 535.4
Mains gas	418.1	1 323.4	18.6	188.8	312.6	*0.2	_	74.9	2 336.6
LPG/bottled gas	131.9	40.7	22.2	25.8	18.4	7.7	*3.0	_	249.8
Wood	281.5	215.4	119.8	90.8	123.9	73.4	*0.7	*3.7	909.2
Solar	*0.7	*0.7	*0.6	—	*0.4	*0.2	_	—	*2.6
Oil	21.6	*3.2	*5.9	11.3	*6.5	*3.4	_	*1.0	53.0
Other/varies	*1.6	*1.9	*2.0	*0.8	*1.2	*0.4	_	—	*7.9
Don't know	*5.9	14.8	*7.0	*3.3	*6.4	*0.2	_	*0.8	38.3
No heater	582.2	35.6	865.8	51.0	126.6	*2.1	48.7	*2.2	1 714.3
Total households	2 590.4	1 916.4	1 532.1	643.4	788.9	195.9	54.7	125.2	7 847.0
Proportion (%)									
Electricity	44.3	14.7	32.0	42.2	24.5	55.3	*4.3	34.0	32.3
Mains gas	16.1	69.1	1.2	29.3	39.6	*0.1	_	59.9	29.8
LPG/bottled gas	5.1	2.1	1.5	4.0	2.3	3.9	*5.4	_	3.2
Wood	10.9	11.2	7.8	14.1	15.7	37.5	*1.3	*2.9	11.6
Solar	*	*	*	—	*	*0.1	—	—	*
Oil	0.8	*0.2	*0.4	1.8	*0.8	*1.7	_	*0.8	0.7
Other/varies	*0.1	*0.1	*0.1	*0.1	*0.2	*0.2	_	_	*0.1
Don't know	*0.2	0.8	*0.5	*0.5	*0.8	*0.1	—	*0.6	0.5
No heater	22.5	1.9	56.5	7.9	16.0	*1.1	89.0	*1.7	21.8

*

estimate is subject to sampling variability too high for Note: No regional split between capital city and balance of

most practical purposes nil or rounded to zero (including null cells) state/territory for NT and ACT as the sample does not support any breakdown beyond the whole territory.

(a) Northern Territory data refers to mainly urban areas only.

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
			MA	RCH 20	05				
Electricity	44.3	14.7	32.0	42.2	24.5	55.3	*4.3	34.0	32.3
Mains gas	16.1	69.1	1.2	29.3	39.6	*0.1	_	59.9	29.8
LPG/bottled gas	5.1	2.1	1.5	4.0	2.3	3.9	*5.4	_	3.2
Wood	10.9	11.2	7.8	14.1	15.7	37.5	*1.3	*2.9	11.6
Solar	*	*	*	—	*	*0.1	—	—	*
Oil	0.8	*0.2	*0.4	1.8	*0.8	*1.7	—	*0.8	0.7
Other/varies	*0.1	*0.1	*0.1	*0.1	*0.2	*0.2	—	—	*0.1
Don't know	*0.2	0.8	*0.5	*0.5	*0.8	*0.1	—	*0.6	0.5
No heater	22.5	1.9	56.5	7.9	16.0	*1.1	89.0	*1.7	21.8
	• • • • • •	• • • • • •					• • • • • • •		
			MA	RCH 20	002				
Electricity	44.4	12.9	31.3	39.3	20.0	45.7	2.4	37.4	30.9
Gas(b)	23.7	72.7	3.0	32.7	41.0	5.3	3.2	56.3	34.2
Wood	11.8	12.4	9.7	17.4	22.1	45.2	2.2	4.3	13.7
Coal/coke	—	—	—	—	—	_	—	—	—
Oil	1.6	0.5	0.7	2.7	1.3	2.7	0.7	1.7	1.2
Solar					0.1		_	_	
Other/varies	0.2	0.4	0.9	0.6	0.5	0.1	_	_	0.4
Don't know									
No heater	18.2	1.0	54.4	7.3	15.1	1.0	91.6	0.3	19.5
		• • • • • •	ма	RCH 19	• • • • • • • 9 9 9				
Electricity	42.2	11.9	24.3	38.4	16.6	33.1	3.8	38.5	28.0
Gas(b)	21.9	71.5	2.6	32.3	39.0	6.0	3.4	50.7	32.9
Wood	14.7	13.8	9.7	17.7	24.7	56.2	3.4	5.7	15.7
Coal/coke	0.1		1.0	0.1			_		
Oil Solar	2.7	1.0	1.8	3.9	2.2	3.3	—	3.3	2.2
Other/varies	0.6	0.3	1.3	0.4	0.6	0.4	_	0.2 0.6	0.6
Don't know		0.2	0.2		0.0		_	0.0	0.0
No heater	17.8	1.2	60.1	7.2	16.8	1.1	89.5	0.9	20.4
			JU	NE 199	94				
Electricity	46.3	12.5	26.6	36.0	17.1	28.8	8.8	37.8	29.7
Gas(b)	19.7	71.0	3.0	33.3	32.1	5.2	5.4	46.1	31.9
Wood	17.1	14.0	10.1	19.0	31.6	60.5	1.2	10.2	17.6
Oil	3.5	1.3	3.7	4.2	3.9	4.8	1.5	4.5	3.1
Solar	0.1	—	—	0.1	0.1	0.1	0.4	_	0.1
Other/varies	1.7	0.6	2.0	1.4	2.0	0.5	0.9	0.9	1.4
No heater	11.7	0.6	54.6	5.9	13.2	0.2	81.8	0.4	16.2

 * \qquad estimate is subject to sampling variability too high for most practical purposes

— nil or rounded to zero (including null cells)

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(a) Northern Territory data refers to mainly urban areas only.

(b) No sub-classification as to mains gas or LPG/bottled gas.

7.7

SOURCES OF ENERGY USED IN HEATING WATER-2005 NSW Vic. Old SA W/A NT(a) ACT Aust. Tas. CAPITAL CITY Estimate ('000) Electricity Peak electricity 319.4 103.8 108.1 35.0 100.9 55.7 788.9 Off-peak electricity 594.4 158.3 327.4 120.5 12.8 17.9 1 260.5 Total 913.8 262.1 435.5 155.5 113.7 73.5 2 0 4 9.4 Gas Mains gas 493.1 1 054.1 107.7 297.3 371.9 2 376.8 LPG/bottled gas *4.4 *7.5 27.3 *2.4 12.8 *0.6 56.5 Total 497.5 1 061.6 135.1 299.8 384.7 *0.6 2 433.3 *3.6 Wood *0.7 *0.6 *0.4 *1.8 *0.8 *8.4 Solar 23.9 *8.6 35.1 79.0 *1.2 185.5 11.7 Oil *0.8 *1.4 *0.6 _ _ _ _ Other _ _ _ _ _ Don't know 173.1 50.3 103.8 18.5 23.9 7.2 386.8 Total households(b) 1 606.5 1 370.0 699.9 480.3 585.8 81.8 5 004.2 Proportion (%) Electricity 19.9 7.3 17.2 15.8 Peak electricity 7.6 15.4 68.1 Off-peak electricity 37.0 11.6 46.8 25.1 2.2 21.8 25.2 Total 56.9 19.1 62.2 32.4 19.4 89.9 41.0 Gas 30.7 76.9 15.4 63.5 47.5 Mains gas 61.9 _ . . LPG/bottled gas *0.3 *0.5 3.9 *0.5 2.2 *0.7 1.1 Total 31.0 77.5 19.3 62.4 65.7 *0.7 . . 48.6 . . Wood *___ *0.2 *0.1 *0.1 *0.3 *1.0 *0.2 *0.6 Solar 1.5 5.0 2.4 13.5 *1.4 3.7 • • . . *___ Oil _ _ _ *0.1 ____ *__ Other _ _ _ _ _ _ _

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 estimate is subject to sampling variability too high for most practical purposes

10.8

3.7

14.8

3.8

4.1

. . not applicable

.

Don't know

— nil or rounded to zero (including null cells)

(a) Northern Territory data refers to mainly urban areas only.

(b) Total of households do not equal the sum of items in each column as more than one source of energy may be specified.

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8.8

Note: No regional split between capital city and balance of state/territory for NT and ACT as the sample does not support any breakdown beyond the whole territory.

SOURCE									
	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
• • • • • • • • • • • • • • • • •	• • • • • • • • •		OF STA			• • • • • •		• • • • •	
	DA	LANCE	UF STA		RIIOR	T			
stimate ('000) Electricity									
Peak electricity	129.4	55.1	168.7	14.0	66.5	83.8			517.5
Off-peak electricity	611.4	228.0	444.0	110.3	*2.2	19.3			1 415.2
Total	740.8	283.1	612.6	124.3	68.7	103.1			1 932.7
Gas									
Mains gas	125.0	223.2	33.0	13.9	53.4	*0.2			448.7
LPG/bottled gas	29.6	19.3	34.2	13.0	41.9	*1.9			139.8
Total	154.5	242.5	67.2	26.9	95.3	*2.1			588.5
Wood	*12.9	*9.9	*3.5	*1.6	*7.8	*4.0			39.8
Solar	40.3	*11.2	55.3	8.8	45.7	*1.1			162.4
Oil	*0.8	—	—	—	—	_	• •	• •	*0.8
Other	—	*1.2	*0.5	—	—	*0.2			*2.0
Don't know	50.4	*9.9	114.7	*5.1	*4.1	5.3	• •	• •	189.4
Total households(b)	983.9	546.4	832.3	163.1	203.1	114.1			2 842.8
roportion (%) Electricity									
Peak electricity	13.2	10.1	20.3	8.6	32.7	73.5			18.2
Off-peak electricity	62.1	41.7	53.3	67.6	*1.1	16.9			49.8
Total	75.3	51.8	73.6	76.2	33.8	90.4			68.0
Gas									
Mains gas	12.7	40.8	4.0	8.5	26.3	*0.2			15.8
LPG/bottled gas	3.0	3.5	4.1	8.0	20.6	*1.6			4.9
Total	15.7	44.4	8.1	16.5	46.9	*1.8			20.7
Wood	*1.3	*1.8	*0.4	*1.0	*3.9	*3.5			1.4
Solar	4.1	*2.0	6.6	5.4	22.5	*0.9			5.7
Oil	*0.1	_	—	—	—	—			*
Other	—	*0.2	*0.1	—	—	*0.2			*0.1
Don't know	5.1	*1.8	13.8	*3.2	*2.0	4.6			6.7

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* estimate is subject to sampling variability too high for most practical purposes

.. not applicable

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— nil or rounded to zero (including null cells)

(a) Northern Territory data refers to mainly urban areas only.

(b) Total of households do not equal the sum of items in each column as more than one source of energy may be specified.

Note: No regional split between capital city and balance of state/territory for NT and ACT as the sample does not support any breakdown beyond the whole territory.

3.1 SOURCES OF ENERGY USED IN HEATING WATER—2005 continued NSW Vic. Old SA WA NT(a) ACT Aust. Tas. TOTAL STATE / TERRITORY Estimate ('000) Electricity Peak electricity 448.9 158.9 276.7 49.0 167.4 139.5 31.5 34.4 1 306.4 Off-peak electricity 1 205.8 386.3 771.4 230.8 15.0 37.2 *2.2 27.1 2 675.7 Total 1 654.7 545.2 1 048.1 279.8 182.4 176.7 33.7 61.5 3 982.1 Gas Mains gas 618.0 1 277.3 140.8 311.2 425.3 *0.2 *0.3 52.4 2 825.5 LPG/bottled gas 34.0 26.8 61.5 15.4 54.7 *2.5 *1.2 *0.2 196.3 Total 652.0 1 304.1 202.3 326.7 480.0 *2.7 *1.5 52.6 3 021.9 *4.1 *9.6 Wood 16.6 *10.6 *2.0 4.8 *0.4 48.2 19.8 Solar 64.2 90.5 124.7 22.9 347.8 20.5 *2.2 *3.0 Oil *0.6 *0.8 *2.2 *0.8 _ _ _ _ _ Other *1.2 *0.5 _ *0.2 _ _ *2.0 _ Don't know 223.5 218.5 23.6 27.9 12.5 576.3 60.2 *1.5 8.5 Total households(b) 2 590.4 1 916.4 1 532.1 643.4 788.9 195.9 54.7 125.2 7 847.0 Proportion (%) Electricity 7.6 57.6 27.5 Peak electricity 17.3 8.3 18.1 21.2 71.2 16.6 Off-peak electricity 46.5 20.2 50.3 35.9 1.9 19.0 *4.0 21.6 34.1 Total 63.9 28.5 68.4 43.5 23.1 90.2 61.6 49.2 50.7 Gas 23.9 66.6 9.2 48.4 53.9 *0.5 36.0 Mains gas *0.1 41.9 LPG/bottled gas 1.4 4.0 2.4 6.9 *1.3 *2.2 *0.2 1.3 2.5 Total 25.2 68.0 13.2 50.8 60.8 *1.4 *2.7 42.0 38.5 Wood 0.6 *0.6 *0.3 *0.3 *1.2 2.5 *0.4 0.6 Solar 2.5 1.0 5.9 3.2 15.8 *1.1 41.9 *2.4 4.4 *___ *___ Oil *___ ____ _ *0.1 ____ _ *___ Other *0.1 *__ _ _ ____ 0.1 _ _ Don't know 8.6 3.1 14.3 3.7 3.5 6.4 *2.7 6.8 7.3

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 estimate is subject to sampling variability too high for most practical purposes (b) Total of households do not equal the sum of items in each column as more than one source of energy may be

— nil or rounded to zero (including null cells)

.

(a) Northern Territory data refers to mainly urban areas only.

Note: No regional split between capital city and balance of state/territory for NT and ACT as the sample does not support any breakdown beyond the whole territory.

specified.

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aus
	%	%	%	%	%	%	%	%	
			MAR	CH 200)5		• • • • • •	• • • • • •	
Electricity (peak)	17.3	8.3	18.1	7.6	21.2	71.2	57.6	27.5	16
Off-peak electricity	46.5	20.2	50.3	35.9	1.9	19.0	*4.0	21.6	34
Mains gas	23.9	66.6	9.2	48.4	53.9	*0.1	*0.5	41.9	36
LPG/bottled gas	1.3	1.4	4.0	2.4	6.9	*1.3	*2.2	*0.2	2
Solar	2.5	1.0	5.9	3.2	15.8	*1.1	41.9	*2.4	4
Wood	0.6	*0.6	*0.3	*0.3	*1.2	2.5	_	*0.4	0.
Oil	*	*	_	_	*0.1		_	_	*_
Other	_	*0.1	*	_	_	*0.1	_	_	*_
Don't know	8.6	3.1	14.3	3.7	3.5	6.4	*2.7	6.8	7
• • • • • • • • • • • • • •		• • • • • •	MAR	CH 200				• • • • • •	• • • •
			MAN	200	2				
Electricity (peak)	33.1	13.9	45.9	22.4	26.0	91.0	54.7	42.3	31
Off-peak electricity	45.9	20.2	37.3	29.3	0.5	8.5	0.7	25.1	30
Gas(b)	23.4	66.7	14.4	49.2	60.5	1.1	5.2	32.1	37
Solar	2.4	0.6	5.6	2.9	15.7	0.6	52.5	3.3	4
Wood	0.5	0.6	0.4	0.3	1.4	1.7	0.4	_	0
Oil	_	_	_	0.1	0.1	_	_	_	-
Coal/coke	_	_	_	_	_	_	_	_	-
Other	0.2	0.1	0.4	0.1	0.1	0.3	_	_	0
Not known	2.2	1.1	2.1	0.7	1.0	0.2	0.5	1.2	1
• • • • • • • • • • • • • •	• • • • • •	• • • • • •	MAR	CH 199	99	• • • • •	• • • • • •	• • • • • •	
Electricity	75.9	34.1	80.6	50.8	24.7	96.5	55.5	69.4	59
Gas(b)	20.8	64.6	13.4	47.1	56.3	1.4	2.4	29.2	35
Solar	20.0	0.9	6.0	2.5	19.6	0.9	43.7	3.4	4
Wood	0.7	1.4	0.6	0.5	2.2	2.3			4
Oil	0.1				0.1	2.5	_	_	-
Coal/coke		_	_	_		_			_
Other	0.1	0.1	0.4	0.1	_	0.2	0.4	_	0
Don't know	0.1	0.1	0.4	0.1	0.5	0.2	0.4	0.1	0
	0.0	0.5	0.4	0.5	0.5	0.2		0.1	0
			JUN	E 1994	4				
Electricity	77.7	38.0	82.0	48.9	36.6	95.9	44.9	79.1	62
Gas(b)	19.8	61.0	13.5	48.8	47.7	0.9	2.3	20.1	33
Solar	3.5	0.8	4.8	3.3	20.5	0.6	57.5	3.1	4
Other	1.9	1.9	1.9	0.6	5.8	3.7	4.3	0.2	2

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* estimate is subject to sampling variability too high for most practical purposes

— nil or rounded to zero (including null cells)

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(a) Northern Territory data refers to mainly urban areas only.

(b) No sub-clasification as to mains gas or LPG/bottled gas.

3.15

SOLAR HOT WATER SYSTEM, Type of booster—1999:2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
• • • • • • • • • • • •				• • • • • •		• • • • • •	• • • • • •		• • • • •
			MAF	RCH 20	005				
Electric	93.9	65.4	91.9	92.8	92.1	*56.4	81.0	*66.7	89.7
Mains gas	—	*25.8	—	*3.4	*2.6	—	—	*13.4	*2.7
LPG/bottled gas	_	_	*2.2	_	*0.3	*9.6	_	_	*0.8
Wood	_	_	_	*1.9	*3.7	_	_	_	*1.4
Not boosted	*5.0	*8.8	*3.2	*1.9	*1.4	*17.6	*16.6	*13.2	4.2
Don't know	*1.1	—	*2.7	—	—	*16.4	*2.4	*6.7	*1.2
• • • • • • • • • • • •									
			MAF	RCH 20	002				
Electric	95.1	69.9	94.7	92.5	95.0	68.0	86.4	100.0	93.1
Gas(b)	3.7	15.1	0.7	3.3	1.0	_	3.0	_	2.2
Don't know	1.2	15.0	4.6	4.2	4.0	32.0	10.6	—	4.7
			MAF	RCH 19	999				
Electric	90.2	72.2	93.4	97.7	94.5	77.4	87.6	86.2	92.0
Gas(b)	1.0	19.8	1.2	—	2.0	—	0.9	3.7	2.3
Don't know	8.8	7.9	5.4	2.3	3.5	22.6	11.5	10.1	5.8
• • • • • • • • • • • •									

* estimate is subject to sampling variability too high for most practical purposes

— nil or rounded to zero (including null cells)

.

(a) Northern Territory data refers to mainly urban areas only.

(b) No sub-classification as to mains gas or LPG/bottled gas.

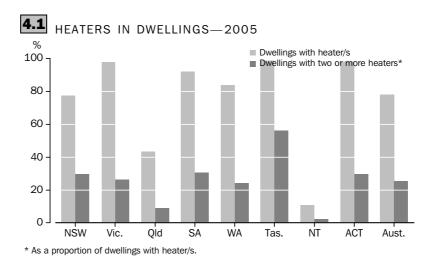
CHAPTER 4

HEATERS AND COOLERS

INTRODUCTION

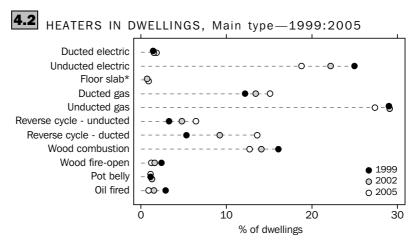
This chapter describes the type and characteristics of heaters and coolers present in Australian dwellings. Heaters and coolers are major contributors to household energy use and costs. They account for nearly two-fifths (39%) of total household energy use and 14% of the residential sector greenhouse emissions (AGO 2005a).

HEATERSNearly eight in ten dwellings (78%) across Australia had a heater in 2005 (graph 4.1). In
the cooler states of the Australian Capital Territory, Victoria, Tasmania and South
Australia, heaters were in nearly all dwellings (99%).



One-third (33%) of dwellings with heaters had two or more heaters in use in their homes - a slight increase from 29% in 2002 (table 4.7). In Tasmania, more than half of the dwellings (57%) had two or more heaters in use.

Unducted gas was the most prominent type of heater in Australian dwellings in 2005 (27% of dwellings), followed by unducted electric (19% of dwellings) and ducted gas heaters (15% of dwellings) (graph 4.2 and table 4.8). Reverse cycle air conditioners (ducted and unducted) were reported to be present in 20% of Australian households, an increase from 14% in 2002. Wood combustion heaters were used by 13% of households (36% in Tasmania), although this proportion has fallen substantially from 16% in 1999.

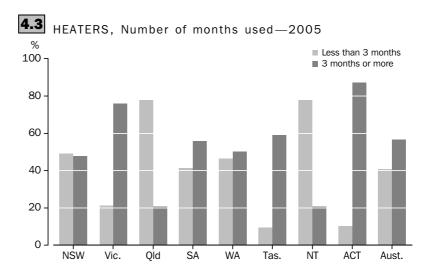


HEATERS continued

*Data not collected in 1999.

Comfort and convenience was the most important factor for households (36%) installing a heater (regardless of type). This was cited by 48% of households with reverse cycle air conditioners and 42% of households with electric heaters (table 4.9). Heaters that were more likely to be chosen due to cost were unducted gas and electric heaters (23%), while heaters chosen due to savings on energy bills were likely to be wood combustion heaters (25%). Ducted reverse cycle air conditioners were the most likely to be chosen for energy efficiency (21%).

The frequency of use of heaters was influenced by climate. Households in the cooler and temperate climates of Tasmania, Victoria and the Australian Capital Territory used heaters more frequently than households in the warmer states of Northern Territory and Queensland (graph 4.3).



Between 2002 and 2005, the frequency of use of heaters remained constant in most states. Queensland and the Northern Territory, however, both displayed a declining trend in the frequency of use of heaters as the proportion of households using heaters in the 'less than 1 month' group increased (from 35% to 41% and from 25% to 41%, respectively). In contrast, Tasmania displayed a change in use of heaters with an increase

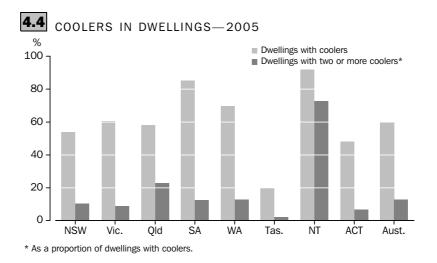
CHAPTER 4 • HEATERS AND COOLERS

HEATERS continued

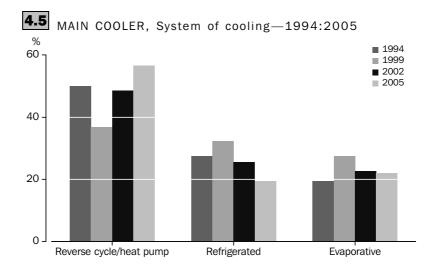
in proportion of households using heaters for 6 months or more (from 42% to 52%) (table 4.10).

COOLERS

Six in ten dwellings (60%) had some form of cooler (i.e. air conditioner or evaporative cooler) in 2005, about one-fifth of which (22%) had two or more coolers in use (graph 4.4 and table 5.3). In the Northern Territory, nine in ten households had a cooler, and close to half (47%) had three or more units in use (table 4.11).



Since 1994, the most popular system of cooling in Australia has been the reverse cycle/heat pump air conditioning (57% in 2005) (graph 4.5 and table 4.12). In 2005, reverse cycle/heat pump coolers were used widely in Tasmania (90% of households), New South Wales (78%) and Queensland (61%). However, in the Northern Territory, the most dominant system of cooling was the refrigerated unit (65%).

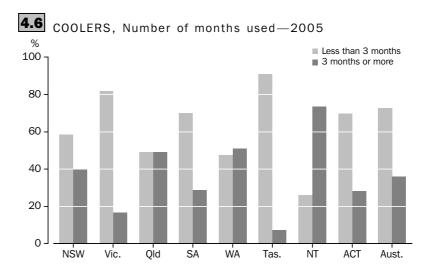


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$\texttt{COOLERS}\ continued$

While most of the coolers in Australia were wall mounted (36%), there was a significant increase in the proportion of dwellings with split type coolers, from 18% in 2002 to 30% in 2005. Increases were pronounced in the Northern Territory (from 30% to 48%) and Queensland (from 24% to 47%) (table 4.13). Ducted coolers were more common in Western Australia (45%) and South Australia (43%).

The hotter regions of the Northern Territory and Queensland used coolers more frequently than any other region in Australia (graph 4.6 and table 4.14). In the Northern Territory, about 45% of households used their coolers for 6 months or more in the year, whereas the majority of households in Tasmania (70%) used their coolers for less than one month in the year.



HEATERS IN	I DWE	ELLING	GS(a)	, Num	ber o	f unit	ts in u	ise—1	1994:	2005	
	NSW	Vic.	Qld	SA	WA	Tas.	NT(b)	ACT	Aust.		
	%	%	%	%	%	%	%	%	%		
•••••							• • • • • •	• • • • • •			
			MA	RCH 2	005						
One	60.0	72.4	67.7	68.1	69.8	42.5	*74.4	69.5	66.1		
Two	28.0	20.5	21.1	24.2	23.5	31.7	*22.5	18.3	24.0		
Three or more	10.3	6.5	8.3	6.4	5.2	25.4	—	11.9	8.5		
None	1.6	*0.6	2.9	*1.4	*1.5	*0.3	*3.0	*0.4	1.4		
•••••	• • • • • •	• • • • • •			•••••		• • • • • •	• • • • • •	• • • • •		
			MA	RCH 2	002						
One	66.0	73.8	72.3	69.3	73.5	51.3	82.1	58.6	69.5		
Two	24.0	20.6	21.3	24.4	20.9	30.8	4.3	26.0	22.7		
Three or more	10.0	5.6	6.3	6.3	5.5	17.9	13.7	15.4	7.8		
•••••			• • • • • •				• • • • • •	• • • • • •			
			IVI A	RCH 1	999						
One	66.8	71.8	72.7	62.3	76.5	52.0	66.7	54.0	68.7		
Two	25.3	22.9	19.9	29.1	19.8	30.0	29.1	28.1	24.1		
Three or more	7.9	5.3	7.4	8.6	3.7	18.0	4.2	17.9	7.2		
•••••	• • • • • •		• • • • • •		••••		• • • • • •	• • • • • •			
			10	NE 19	94						
One	55.6	61.2	64.9	47.6	59.6	34.9	66.1	33.2	56.7		
Two	29.6	26.4	24.3	31.4	29.2	31.2	26.9	26.6	28.3		
Three or more	14.7	12.4	10.7	20.9	11.2	33.9	7.0	40.2	15.0		

* estimate is subject to sampling variability too high for most practical purposes

- nil or rounded to zero (including null cells)

(a) Includes only dwellings with heater/s.

(b) Northern Territory data refers to mainly urban areas only

.

	NSW	Vic.	Qld	SA	WA	Tas.	NT(b)	ACT	Aust.	
	%	%	%	%	%	%	%	%	%	
••••		• • • • • •		сн 20			• • • • • •			
Ele etcie			WAP		105					
Electric Ducted	2.2	1.7	*0.7	2.1	*1.1	*1.9	_	*3.3	1.8	
Not ducted	26.9	8.6	27.0	14.5	13.0	37.2	*27.7	21.4	18.8	
Floor slab	1.1	1.1	0.1	1.0	_	2.7	_	*1.5	0.9	
Gas										
Ducted	3.4	40.1	*0.2	3.4	4.2	_	_	42.0	15.1	
Not ducted	24.0	33.0	6.0	33.0	46.2	4.1	*49.1	19.3	27.4	
Reverse cycle										
Ducted	10.7	*0.7	8.2	11.0	5.3	3.2	*3.1	3.7	6.4	
Not ducted	16.2	3.0	38.3	17.6	10.0	10.9	*8.4	4.9	13.6	
Wood										
Combustion	12.1	10.4	13.1	13.6	15.1	35.9	*6.7	*2.8	12.7	
Fire-open	1.3 *0.7	0.9 *0.3	*2.0	*1.1	*0.9	*1.5 *0.5	*4.9	*0.2	1.2	
Pot-belly	*0.7	*0.3	3.0	*0.7	2.8	*0.5	—	—	1.1	
Oil (oil-fired)	1.1	*0.2	*0.9	1.9	*1.0	*1.8	_	*0.8	0.9	
Other	0.1	*0.1	*0.4	*0.1	*0.2	*0.3	_	_	*0.2	
• • • • • • • • • • • • •		• • • • • •	MAR	сн 20	02		• • • • • •			
Electric				•						
Ducted	2.2	1.7	0.2	0.6	0.4	1.5	_	2.6	1.5	
Not ducted	31.3	8.0	44.2	16.7	11.4	35.3	14.8	26.4	22.2	
Floor slab	0.8	0.9	0.2	0.2	0.3	2.5	_	1.4	0.7	
Gas										
Ducted	3.9	35.8	0.3	3.2	2.5	0.7	6.3	30.5	13.4	
Not ducted	25.1	37.7	6.4	32.1	45.8	4.6	31.2	26.0	29.1	
Reverse cycle										
Ducted	8.1	0.5	5.0	8.5	4.9	0.7	—	3.5	4.8	
Not ducted	12.1	1.8	19.2	16.4	6.6	6.2	13.7	3.5	9.2	
Wood										
Combustion	12.4	10.9	14.6	16.2	20.1	42.6	13.8	4.3	14.1	
Fire-open	1.5	1.3	3.0	1.4	1.6	2.0	12.2	_	1.6	
Pot-belly	0.6	0.4	3.6	1.2	4.3	1.0		_	1.3	
Oil (oil-fired)	2.0	0.5	1.4	2.9	1.6	2.7	8.0	1.7	1.5	
Other	0.2	0.4	2.0	0.6	0.6	0.1	_	—	0.5	
• • • • • • • • • • • • •		• • • • • •	MAR	CH 19			• • • • • •			
Electric										
Ducted	1.9	1.3	0.9	1.1	0.7	1.5		2.4	1.4	
Not ducted	36.4	9.3	48.5	20.2	14.3	28.4	20.7	30.8	25.0	
Gas										
Ducted	3.9	31.5	0.7	2.2	3.7	1.0	_	28.7	12.2	
Not ducted	23.0	40.1	5.8	32.4	42.8	5.1	32.3	22.9	29.0	
Reverse cycle										
Ducted	5.0	1.2	2.5	6.7	2.2	1.1	11.2	3.4	3.3	
Not ducted	7.4	0.8	9.1	12.7	2.9	2.1	3.9	2.3	5.3	
Wood										
Combustion	14.6	12.4	15.9	15.8	23.3	51.4	22.1	5.0	16.1	
Fire-open	2.4	1.4	5.1	2.6	2.1	4.0	3.3	0.6	2.4	
Pot-belly	0.9	0.1	2.8	1.1	3.7	1.2	6.6	0.3	1.1	
Oil (oil-fired)	3.5	1.0	4.7	4.3	2.9	3.4	—	3.3	2.9	
Other	1.1	0.9	3.9	0.9	1.4	0.6	—	0.4	1.3	

— nil or rounded to zero (including null cells)

(a) Includes only dwellings with at least a heater in use and respondents were aware of its type.

(b) Northern Territory data refers to mainly urban areas only.

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HOUSEHOLDS RESPONSIBLE FOR INSTALLING MAIN HEATER, Main reason for

4.9

choice of heater-2005 ELECTRIC HEATER GAS HEATER REVERSE CYCLE . •••••• Not Floor Not Not Ducted ducted slab Total Ducted ducted Total Ducted ducted Total % % % % % % % % % % 22.9 18.3 *13.5 18.4 save on energy bills *11.2 4.4 *13.3 5.2 Use less energy/efficiency *16.4 4.6 *14.8 5.7 Comfort/convenience 38.8 42.6 25.0 22.9 18.3 *13.5 18.4 12.9 23.4 19.8 7.2 14.3 12.1 17.9 22.1 20.7 20.0 19.3 19.6 9.9 9.2 9.4

38.8 42.6 35.0 42.1 39.4 22.8 28.4

 Recommended by friend/expert
 *3.0
 *0.7
 *5.2
 *1.0

 Other
 6.7
 27.2
 *13.3
 25.4

	WOOD HEAT	ER			OIL HEATER		
	Combustion	Fire-open	Pot belly	Total	Oil-fired heater	All types	
	%	%	%	%	%	%	
					• • • • • • • • •		
Cost price	18.2	*10.5	*11.5	17.4	*23.9	17.4	
Save on energy bills	24.8	*17.4	*21.9	24.3	*13.1	14.6	
Use less energy/efficiency	13.4	_	*17.6	13.0	*8.2	14.0	
Comfort/convenience	24.7	*22.2	*26.7	24.7	*25.6	35.7	
Environmental considerations	*1.2	5.6	*1.0	*1.4	*1.3	1.3	
Appearance	5.7	*26.7	*13.8	*7.1	_	1.7	
Financial incentive/subsidy	*0.3	_	_	*0.3	_	*0.3	
Recommended by friend/expert	*0.9	*3.6	*1.7	*1.1	*2.7	1.8	
Other	10.8	*14.1	*5.9	10.6	*25.1	13.3	

* estimate is subject to sampling variability too high for most practical — nil or rounded to zero (including null cells) purposes

21.2 13.1 15.6

46.7 47.9 47.6

*1.1 *0.9 *0.9 *0.9 *0.7 *0.7 — *0.2 *0.2

3.5

10.0 10.2 10.2

3.3

*3.0

*2.5 *1.3 1.7

5.8 7.8 7.1

HOUSEHOLDS WITH AT LEAST ONE HEATER IN USE, Number of months **4.10** used—2002 and 2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
	• • • • • •	• • • • •		• • • • • •		• • • • •			• • • • •
		MAR	CH 20	05					
Less than 1 month	13.4	6.1	40.8	12.9	14.3	4.0	*41.4	4.3	13.8
1 month to less than 3 months	35.7	15.0	36.9	28.4	32.0	5.4	*36.4	5.9	26.8
3 months to less than 6 months	42.8	50.9	19.3	49.0	46.2	37.2	*20.7	65.0	44.0
6 months or more	5.0	25.0	1.4	6.6	4.0	51.8	_	22.1	12.6
Don't know	3.1	3.1	1.6	3.0	3.5	1.7	*1.5	*2.7	2.9
		MAR	CH 20	02					
Less than 1 month	11.5	6.4	35.1	12.1	12.9	4.4	25.4	4.9	12.4
1 month to less than 3 months	35.4	18.3	42.7	30.0	34.8	6.5	56.5	11.1	29.1
3 months to less than 6 months	44.7	48.5	16.8	45.1	43.7	43.0	18.0	65.0	43.1
6 months or more	3.0	22.8	0.5	8.9	4.5	42.1	—	14.6	10.9
Don't know	5.4	4.0	4.9	3.9	4.1	3.9	_	4.4	4.6
		• • • • •							
* estimate is subject to sampling v	ariability t	oo high	(a)	Northe	ern Territo	y data re	efers to ma	inly urbar	areas
for most practical purposes				only.					
all an university of the second first states	(-المم البية			-					

— nil or rounded to zero (including null cells)

-

	NSW	Vic.	Qld	SA	WA	Tas.	NT(b)	ACT	Aust.		
	%	%	%	%	%	%	%	%	%		
• • • • • • • • • • •	• • • • • •					• • • • • •	• • • • • •		• • • • •		
			MA	RCH 20	005						
One	80.3	84.8	59.9	84.3	80.6	86.6	30.9	92.4	77.7		
Two	15.0	11.9	23.0	12.1	12.7	*8.9	22.5	*6.2	15.1		
Three or more	3.9	2.6	16.5	2.5	5.5	*1.9	46.6	*1.0	6.4		
None	*0.8	*0.7	*0.6	*1.0	*1.2	*2.6	—	*0.4	0.8		
	• • • • • •					• • • • • •	• • • • • •		• • • • •		
			MA	RCH 2	002						
One	84.7	88.0	66.4	85.8	82.9	92.5	38.6	90.5	82.2		
Two	12.1	9.9	22.3	12.1	12.6	7.5	29.7	8.4	13.3		
Three or more	3.3	2.1	11.3	2.1	4.5	—	31.8	1.1	4.5		
	• • • • • •						• • • • • •		• • • • •		
			MA	RCH 1	999						
One	84.6	87.3	65.3	82.9	83.5	96.0	39.8	92.4	81.8		
Two	12.6	11.0	20.5	15.3	12.4	4.0	29.1	5.8	13.7		
Three or more	2.8	1.7	14.2	1.8	4.1	—	31.0	1.8	4.5		
• • • • • • • • • • •	• • • • • •					• • • • • •	• • • • • •		• • • • •		
			JU	NE 19	94						
One	86.1	88.0	68.7	83.7	83.0	100.0	55.7	90.7	83.8		
Two	10.8	10.1	19.3	13.9	10.9	_	26.9	7.0	12.2		
Three or more	3.1	1.8	12.0	2.4	6.1	_	17.5	2.3	4.0		

* estimate is subject to sampling variability too high for most practical purposes

- nil or rounded to zero (including null cells)

(a) For this survey, a cooler may refer to an air conditioner or evaporative cooler.

(b) Northern Territory data refers to mainly urban areas only

• • • • • • •

4.12 MAIN COOLER IN DWELLING(a), System of cooling—1994:2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(b)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
•••••				• • • • • •	• • • • • •		• • • • • •		• • • • •
		Ν	IARCH	2005					
Reverse cycle/heat pump	78.0	36.3	61.2	53.4	41.6	90.8	16.2	59.1	56.6
Refrigerated	7.6	29.4	26.6	16.5	17.8	*2.0	65.1	11.1	19.4
Evaporative	12.7	31.3	9.8	29.4	39.1	*6.7	17.1	28.7	22.0
Don't know	1.7	3.0	2.3	*0.8	*1.5	*0.4	*1.6	*1.0	2.0
•••••							• • • • • •		• • • • •
		Ν	IARCH	2002					
Reverse cycle/heat pump	71.4	30.3	47.7	50.5	35.6	93.6	9.2	54.3	48.8
Refrigerated	12.5	35.7	37.7	19.8	23.7	_	70.8	15.9	25.6
Evaporative	12.6	29.7	11.8	29.2	39.1	6.4	18.5	27.6	22.7
Don't know	3.5	4.3	2.9	0.4	1.6	—	1.5	2.1	2.9
• • • • • • • • • • • • • • • • • • • •					• • • • • •				
		Ν	IARCH	1999					
Reverse cycle/heat pump	59.4	30.3	23.5	35.4	23.9	53.7	4.3	56.4	36.8
Refrigerated	16.6	40.8	49.7	27.6	27.2	19.0	77.2	12.2	32.3
Evaporative	20.8	24.3	20.5	36.0	47.8	15.4	17.6	28.7	27.4
Don't know	3.1	4.6	6.2	1.1	1.2	11.8	0.9	2.7	3.4
• • • • • • • • • • • • • • • • • • • •					• • • • • •		• • • • • •		
			JUNE	1994					
Reverse cycle/heat pump	67.5	41.6	36.6	52.9	33.2	51.5	15.0	50.7	50.0
Refrigerated	14.2	36.7	39.1	23.4	33.3	8.9	63.3	13.6	27.4
Evaporative	16.1	16.8	18.9	23.1	30.3	31.2	20.0	34.6	19.5
Don't know	2.2	4.8	5.4	0.6	3.1	8.4	1.7	1.1	3.1

* estimate is subject to sampling variability too high for most practical purposes

— nil or rounded to zero (including null cells)

.

(a) For this survey, a cooler may refer to an air conditioner or evaporative cooler.

(b) Northern Territory data refers to mainly urban areas only.

Note: Figures are as a proportion of households with at least one cooler in use in dwelling.

MAIN COOLE	ER IN	DWEI	LING	(a), T	уре—	1994	:2005	5		
	NSW	Vic.	Qld	SA	WA	Tas.	NT(b)	ACT	Aust.	
	%	%	%	%	%	%	%	%	%	
	• • • • • •		• • • • • •	•••••			• • • • • •	• • • • • •		
			MAR	CH 20	05					
Split system	29.6	23.4	47.2	16.1	26.7	43.1	47.9	30.8	29.8	
Set in wall/window	34.6	43.5	37.2	37.8	25.1	32.3	36.8	20.1	36.4	
Ducted	30.2	27.8	10.3	43.1	44.6	18.4	*14.8	33.9	28.8	
Portable	5.5	5.3	5.3	3.1	3.6	*6.3	*0.5	15.1	5.0	
• • • • • • • • • • • • • •	• • • • • •		MAR	CH 20	02		• • • • • •	• • • • • •		
Split system	21.7	13.2	24.0	11.3	16.1	45.9	30.3	25.2	18.0	
Set in wall/window	45.3	53.8	57.4	46.7	31.9	33.7	52.4	30.6	47.8	
Ducted	29.0	28.7	12.8	39.6	49.0	11.1	17.3	27.8	30.1	
Portable	4.0	4.4	5.7	2.4	3.0	9.4	—	16.4	4.1	
• • • • • • • • • • • • • •	• • • • • •		• • • • • •	CH 19	• • • • • •		• • • • • •	• • • • • •		
			MAR	СП 19	99					
Set in wall/window	75.8	76.2	83.2	68.1	54.4	68.1	71.3	64.1	73.0	
Ducted	19.0	17.3	9.6	27.7	41.8	8.6	27.7	21.4	21.4	
Portable	5.3	6.5	7.2	4.2	3.8	23.4	0.9	14.5	5.6	
	• • • • • •		 JUN	E 199	4		• • • • • •			
0	74.0	70.0				00 F		50.0	70.0	
Set in wall/window	71.9	79.2	78.7	70.1	63.4	39.5	77.5	53.6	73.3	
Ducted	20.3	12.5	6.6	25.3	30.0	21.0	21.4	17.2	18.6	
Portable	7.8	8.3	14.6	4.5	6.5	39.5	1.1	29.2	8.0	

 * estimate is subject to sampling variability too high for most practical purposes

— nil or rounded to zero (including null cells)

(a) For this survey, a cooler may refer to an air conditioner or evaporative cooler.

(b) Northern Territory data refers to mainly urban areas only.

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COOLERS IN DWELLIN	NGS (a	a), Nu	umber	of m	onths	used	d—20	02 ar	nd 2005	
	NSW	Vic.	Qld	SA	WA	Tas.	NT(b)	ACT	Aust.	
	%	%	%	%	%	%	%	%	%	
		MAR	RCH 20	05						
Less than 1 month	21.4	40.8	18.2	31.1	15.9	69.5	*11.1	25.9	26.4	
1 month to less than 3 months	36.8	41.0	31.7	38.8	31.7	21.3	15.0	43.7	36.2	
3 months to less than 6 months	36.0	15.7	38.4	26.6	44.8	*3.5	28.3	27.3	30.9	
6 months or more	4.1	0.9	10.5	2.0	6.2	*3.6	45.0	*1.0	4.9	
Don't know	1.8	1.6	*1.2	*1.4	*1.5	*2.1	*0.5	*2.1	1.5	
	• • • • • •	• • • • •				• • • • • •				
		MAR	RCH 20	02						
Less than 1 month	20.6	59.1	13.6	48.7	18.5	59.8	9.2	41.7	33.6	
1 month to less than 3 months	39.0	30.9	27.5	36.3	40.7	21.2	18.1	44.9	34.6	
3 months to less than 6 months	34.7	8.3	44.1	12.5	35.2	13.1	31.7	12.8	25.8	
6 months or more	3.2	0.2	12.7	0.9	4.3	2.9	37.9	_	4.1	
Don't know	2.6	1.5	2.0	1.6	1.3	3.0	3.1	0.7	1.9	
		• • • • •								
 * estimate is subject to sampling value 	ariability t	oo high	(a)	Include	es only dw	ellings th	at have at	least one	e cooler	
for most practical purposes				in use.						
 — nil or rounded to zero (including r 	null cells)		(b)	Northe only.	ern Territor	y data re	fers to ma	inly urban	areas	

CHAPTER 5

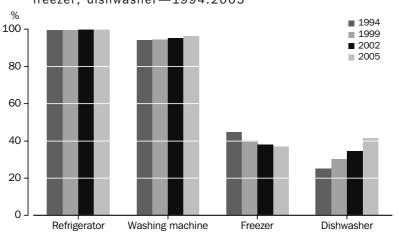
HOUSEHOLD APPLIANCES

INTRODUCTION

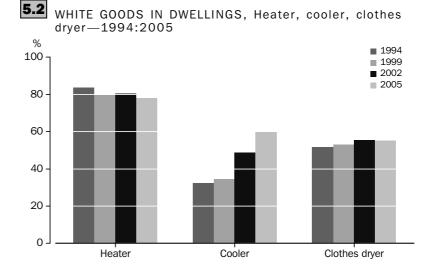
This chapter describes the kind and type of appliances present in Australian dwellings. Household appliances, such as refrigerators, freezers, dishwashers etc. account for a 30% of total energy consumption and 53% of the resultant residential greenhouse gas emissions (AGO 2005c).

WHITE GOODS

In March 2005, almost every dwelling in Australia had a refrigerator (99.9%) and a washing machine (95%). More than three-quarters (78%) of all dwellings had a heater, three-fifths (60%) a cooler (i.e. air conditioner or evaporative cooler) and more than half (55%) had a clothes dryer. A significant proportion of dwellings had dishwashers (42%) and separate freezers (37%) (graphs 5.1 and 5.2, table 5.3). The presence of these appliances was similar for urban and rural dwellings, except that separate freezers were more common in rural dwellings (51%) than in urban dwellings (29%). Conversely, dishwashers were more common in urban dwellings (44%) than in rural dwellings (37%) (table 5.3).







WHITE GOODS continued

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There has been an increase in ownership of several white goods into Australian households between 1994 and 2005. For example, the proportion of dwellings with coolers, dishwashers and clothes dryers grew by 27%, 17% and 3% respectively (table 5.4). Refrigerators and washing machines, as in 1999 and 2002, were the top two appliances bought or replaced by households within the survey year (table 5.5).

Refrigerators	Almost all dwellings in Australia had a refrigerator, with one-third (33%) having two or more in use (tables 5.3 and 5.6). Queensland had the highest proportion of dwellings with two or more refrigerator in use, followed by the Northern Territory (39%). Close to 60% of main refrigerators were aged 5 years or more while 32% were aged 10 years or older (table 5.7). For households with more than one refrigerator, the majority (56%) reported their secondary refrigerator was 10 years or older (table 5.8).
Separate freezers	Close to 40% of dwellings across Australia had at least one separate freezer, but this proportion has declined from 45% in 1994 to 37% in 2005 (tables 5.3 and 5.9). In Tasmania, almost 60% of dwellings had a separate freezer, 8% with two or more in use, the highest among states and territories.
Dishwashers	Dishwashers were present in 42% of dwellings in Australia. They were most common in the Australian Capital Territory (56% of dwellings) and Victoria (48% of dwellings) (table 5.3). The proportion of dwellings with dishwashers increased significantly between 1994 and 2005 (from 25% to 42%). The highest increase was noted in the Australian Capital Territory (from 38% to 56%) and New South Wales (25% to 43%).
	More than two-fifths of households (41%) used their dishwasher just once a week, whereas over one-third (35%) used their dishwasher daily (table 5.10). About 10% of households used their dishwasher very rarely. About 9% had not used them at all in the 12 months prior to the survey. Households in Tasmania used their dishwasher more frequently than other households with 46% using them on a daily basis in 2005.
	The proportion of Australian households using dishwashers on a daily basis increased marginally, from 32% in 1994 to 36% in 2005. The most significant increases were in Western Australia (13%) and South Australia (10%).

CHAPTER 5 • HOUSEHOLD APPLIANCES

Washing machine	Almost all households in Australia had washing machines (tables 5.3 and 5.11). The more energy efficient front loading washers were used by 13% of Australian households, though this proportion has increased from 5% in 1994. The highest proportion of households with front loading washers was the Australian Capital Territory (19%), followed by Western Australia (13%).
	Since 1994, Australians have used their washing machines less frequently. In 1994, 62% of households in Australia averaged 5 washing machine loads or less per week (table 5.12). This proportion gradually increased to 69% in 2005, while the number of households loading 6 or more loads per week decreased from 38% in 1994 to 31% in 2005.
	Cold water usage in washing machines is slowly increasing among Australian households. In 1994, 61% used cold water while in 2005, 69% did (table 5.13).
Clothes dryer	In March 2005, 55% of the dwellings in Australia had clothes dryers, a slight increase from 52% in 1994 (table 5.3).
	In March 2005, about one-third of households with a clothes dryer (30%) used it seasonally, while an additional 34% used the clothes dryer very rarely or on an occasional basis only (table 5.14). A further 8% reported they never had used it at all.
BUYING/REPLACING APPLIANCES	Energy rating efficiency and cost (price) were the two main factors considered by households across Australia in buying or replacing white good appliances. Energy rating efficiency ranked first over cost in buying/replacing a dishwasher (50%), washing machine (44%) and refrigerator (41%). Cost was considered highly in buying/replacing a heater (42%) and separate freezer (38%). Both factors were evenly rated highly in choosing a clothes dryer (40%) (table 5.15).
NON-WHITE GOODS	Table 5.16 describes the types of non-white good appliances that may occur in a typical Australian dwelling. It shows that almost all dwellings have at least one television, vacuum cleaner and microwave. Eight in ten dwellings have a video player/recorder and stereo system, and seven in ten dwellings have a DVD player/recorder and a computer.
	Between 1999 and 2005, there was a steady increase in the ownership of microwaves and computers. Computers in dwellings increased from 45% in 1999 to 68% in 2005. In the Australian Capital Territory, almost eight in ten dwellings had a computer in 2005 (tables 5.16 and 5.17).
STANDBY POWER	Standby power is the power used by electrical products while they are waiting to be fully activated. It is a modern feature on many appliances such as televisions, computers, videos and DVD players/recorders, etc. Standby power consumption is significant as it accounts for up to 12 per cent of the nation's household electricity usage generating more than 5 mega tonnes of carbon dioxide per annum (NAEEEC 2002).
	Table 5.18 illustrates common non-white goods in dwellings and the number of units that were usually plugged-in and ready to use. It shows that households had almost all of the listed appliances in standby mode.

5.3 WHITE GOODS IN DWELLINGS-2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
• • • • • • • • • • • • • • • •		• • • • • • • •	• • • • • • •	• • • • • • • •			• • • • • • •		• • • • • •
			CAPIT	AL CITY					
stimate ('000)									
Refrigerator	1 604.6	1 367.5	699.9	479.9	585.8	81.6			4 999.1
Separate freezer	391.1	372.1	219.3	162.9	208.1	41.0			1 454.6
Dishwasher	705.5	707.2	306.0	154.1	214.3	29.4			2 202.6
Heater	1 190.4	1 343.3	323.7	439.0	489.1	80.9			3 995.4
Washing machine	1 515.7	1 299.5	675.4	466.1	564.6	80.2			4 777.5
Clothes dryer	968.4	721.9	378.8	241.3	286.7	43.2			2 733.7
Air conditioner	831.1	803.6	384.3	420.4	425.9	18.6			2 994.4
None of the above	*0.9	*0.7	_	*0.4	_	_			*2.0
Total dwellings(b)	1 606.5	1 370.0	699.9	480.3	585.8	81.8			5 004.2
roportion (%)									
Refrigerator	99.9	99.8	100.0	99.9	100.0	99.8			99.9
Separate freezer	24.3	27.2	31.3	33.9	35.5	50.2			29.1
Dishwasher	43.9	51.6	43.7	32.1	36.6	35.9			44.C
Heater	74.1	98.1	46.3	91.4	83.5	98.9			79.8
Washing machine	94.3	94.9	96.5	97.0	96.4	98.1			95.5
0	60.3	52.7	54.1	50.2	48.9	52.9			54.6
Clothes drver									59.8
Clothes dryer Air conditioner		58.7	54.9	87.5	(2.)	22.8			
Clothes dryer Air conditioner None of the above	51.7 *0.1	58.7 * BALANC	54.9 — E OF ST	87.5 *0.1 ATE / TE	72.7 — ERRITOR	22.8 — Y		 	*
Air conditioner None of the above	51.7	*	_	*0.1	_	_			
Air conditioner None of the above stimate ('000)	51.7	*	_	*0.1	_	_			*
Air conditioner None of the above Stimate ('000) Refrigerator	51.7 *0.1	* BALANCI	— E OF ST	*0.1 ATE / TE	— Erritor	 ?Y			
Air conditioner None of the above stimate ('000)	51.7 *0.1 983.0 488.2	* BALANC 545.8 297.6	— E OF ST 832.3 366.1	*0.1 ATE / TE 162.3 98.8	 ERRITOR 202.2 121.5		 	 • • • • • • • 	* 2 839.7 1 443.8
Air conditioner None of the above Stimate ('000) Refrigerator Separate freezer	51.7 *0.1 983.0	* BALANCI 545.8	— E OF ST 832.3	*0.1 ATE / TE 162.3	— E R R I T O R 202.2	 2Y 114.1		 • • • • • •	* 2 839.7 1 443.8 1 057.6
Air conditioner None of the above	51.7 *0.1 983.0 488.2 399.2 817.8	* 545.8 297.6 203.0 537.6	E OF ST 832.3 366.1 328.7 342.6	*0.1 ATE / TE 162.3 98.8 43.3 153.3	 ERRITOR 202.2 121.5 49.8	114.1 71.5 33.6 112.9	· · · · · · · · · · · · · · · · · · ·	 • • • • • • • 	* 2 839.7 1 443.8 1 057.6 2 137.3
Air conditioner None of the above	51.7 *0.1 983.0 488.2 399.2 817.8 960.9	* BALANC 545.8 297.6 203.0	 E OF ST 832.3 366.1 328.7	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3		114.1 71.5 33.6	 • • • • • • • • • • • • • • • • • • •	 	* 2 839.7 1 443.8 1 057.6 2 137.3 2 784.4
Air conditioner None of the above stimate ('000) Refrigerator Separate freezer Dishwasher Heater Washing machine Clothes dryer	51.7 *0.1 983.0 488.2 399.2 817.8 960.9 563.0	*	E OF ST 832.3 366.1 328.7 342.6 817.5 460.9	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3 89.8		114.1 71.5 33.6 112.9 111.6 66.3	· · ·	 	* 2 839.7 1 443.8 1 057.6 2 137.3 2 784.4 1 586.7
Air conditioner None of the above stimate ('000) Refrigerator Separate freezer Dishwasher Heater Washing machine Clothes dryer Air conditioner	51.7 *0.1 983.0 488.2 399.2 817.8 960.9	*	E OF ST 832.3 366.1 328.7 342.6 817.5	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3 89.8 126.3		114.1 71.5 33.6 112.9 111.6	· · · · · · · · · · · · · · · · · · ·	 	*
Air conditioner None of the above stimate ('000) Refrigerator Separate freezer Dishwasher Heater Washing machine Clothes dryer	51.7 *0.1 983.0 488.2 399.2 817.8 960.9 563.0	*	E OF ST 832.3 366.1 328.7 342.6 817.5 460.9 506.9	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3 89.8		114.1 71.5 33.6 112.9 111.6 66.3 20.1	· · ·	 	* 2 839.7 1 443.8 1 057.6 2 137.3 2 784.4
Air conditioner None of the above	51.7 *0.1 983.0 488.2 399.2 817.8 960.9 563.0 571.0 —	* BALANC 297.6 203.0 537.6 537.2 312.6 356.3 	E OF ST 832.3 366.1 328.7 342.6 817.5 460.9 506.9	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3 89.8 126.3 *0.4	202.2 121.5 49.8 173.2 197.9 94.1 123.0	114.1 71.5 33.6 112.9 111.6 66.3 20.1	· · · · · · · · · · · · · · · · · · ·	 	*
Air conditioner None of the above	51.7 *0.1 983.0 488.2 399.2 817.8 960.9 563.0 571.0 —	* BALANC 297.6 203.0 537.6 537.2 312.6 356.3 	E OF ST 832.3 366.1 328.7 342.6 817.5 460.9 506.9	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3 89.8 126.3 *0.4	202.2 121.5 49.8 173.2 197.9 94.1 123.0	114.1 71.5 33.6 112.9 111.6 66.3 20.1	· · · · · · · · · · · · · · · · · · ·	 	*
Air conditioner None of the above	51.7 *0.1 983.0 488.2 399.2 817.8 960.9 563.0 571.0 983.9	* 545.8 297.6 203.0 537.6 537.2 312.6 356.3 546.4	E OF ST 832.3 366.1 328.7 342.6 817.5 460.9 506.9 832.3	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3 89.8 126.3 *0.4 163.1		114.1 71.5 33.6 112.9 111.6 66.3 20.1 114.1	· · · · · · · · · · · · · · · · · · · ·	 	* 2 839.7 1 443.8 1 057.6 2 137.3 2 784.4 1 586.7 1 703.5 *0.4 2 842.8 99.9
Air conditioner None of the above stimate ('000) Refrigerator Separate freezer Dishwasher Heater Washing machine Clothes dryer Air conditioner None of the above Total dwellings (b) roportion (%) Refrigerator	51.7 *0.1 983.0 488.2 399.2 817.8 960.9 563.0 571.0 983.9 99.9	* BALANCI 545.8 297.6 203.0 537.6 537.2 312.6 356.3 546.4 99.9	E OF ST 832.3 366.1 328.7 342.6 817.5 460.9 506.9 832.3 100.0	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3 89.8 126.3 *0.4 163.1 99.5		114.1 71.5 33.6 112.9 111.6 66.3 20.1 114.1 100.0	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	* 2 839.7 1 443.8 1 057.6 2 137.3 2 784.4 1 586.7 1 703.5 *0.4 2 842.8 99.9 50.8
Air conditioner None of the above	51.7 *0.1 983.0 488.2 399.2 817.8 960.9 563.0 571.0 983.9 99.9 49.6	* BALANC 297.6 203.0 537.6 537.2 312.6 356.3 546.4 99.9 54.5	E OF ST 832.3 366.1 328.7 342.6 817.5 460.9 506.9 832.3 100.0 44.0	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3 89.8 126.3 *0.4 163.1 99.5 60.6		114.1 71.5 33.6 112.9 111.6 66.3 20.1 114.1 100.0 62.7	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	* 2 839.7 1 443.8 1 057.6 2 137.3 2 784.4 1 586.7 1 703.5 *0.4 2 842.8 99.9 50.8 37.2
Air conditioner None of the above	51.7 *0.1 983.0 488.2 399.2 817.8 960.9 563.0 571.0 983.9 99.9 49.6 40.6	*	E OF ST 832.3 366.1 328.7 342.6 817.5 460.9 506.9 832.3 100.0 44.0 39.5	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3 89.8 126.3 *0.4 163.1 99.5 60.6 26.5		114.1 71.5 33.6 112.9 111.6 66.3 20.1 114.1 100.0 62.7 29.5		· · · · · · · · · · · · · · · · · · ·	*
Air conditioner None of the above	51.7 *0.1 983.0 488.2 399.2 817.8 960.9 563.0 571.0 983.9 99.9 49.6 40.6 83.1	*	E OF ST 832.3 366.1 328.7 342.6 817.5 460.9 506.9 	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3 89.8 126.3 *0.4 163.1 99.5 60.6 26.5 94.0	202.2 121.5 49.8 173.2 197.9 94.1 123.0 203.1 99.6 59.8 24.5 85.3	114.1 71.5 33.6 112.9 111.6 66.3 20.1 114.1 100.0 62.7 29.5 98.9		· · · · · · · · · · · · · · · · · · ·	* 2 839.7 1 443.8 1 057.6 2 137.3 2 784.4 1 586.7 1 703.5 *0.4 2 842.8 99.9 50.8 37.2 75.2 97.9
Air conditioner None of the above	51.7 *0.1 983.0 488.2 399.2 817.8 960.9 563.0 571.0 983.9 99.9 49.6 40.6 83.1 97.7	*	E OF ST 832.3 366.1 328.7 342.6 817.5 460.9 506.9 	*0.1 ATE / TE 162.3 98.8 43.3 153.3 159.3 89.8 126.3 *0.4 163.1 99.5 60.6 26.5 94.0 97.7	202.2 121.5 49.8 173.2 197.9 94.1 123.0 203.1 99.6 59.8 24.5 85.3 97.4	114.1 71.5 33.6 112.9 111.6 66.3 20.1 114.1 100.0 62.7 29.5 98.9 97.8		· · · · · · · · · · · · · · · · · · ·	* 2 839.7 1 443.8 1 057.6 2 137.3 2 784.4 1 586.7 1 703.5 *0.4 2 842.8

* estimate is subject to sampling variability too high for most practical purposes

. . not applicable

.

— nil or rounded to zero (including null cells)

(b) Totals do not equal the sum of items in each column as more than one appliance may be specified. Note: No regional split between capital city and balance of

state/territory for NT and ACT as the sample does not support any break down beyond the whole territory.

(a) Northern Territory data refers to mainly urban areas only.

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E 9

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
							• • • • • •		• • • • • •
		TOTA	L STATE	/ TERR	ITORY				
Estimate ('000)									
Refrigerator	2 587.7	1 913.3	1 532.1	642.2	788.0	195.7	54.7	125.0	7 838.7
Separate freezer	879.4	669.7	585.4	261.7	329.6	112.6	19.2	40.8	2 898.4
Dishwasher	1 104.7	910.3	634.8	197.4	264.0	63.0	15.6	70.4	3 260.2
Heater	2 008.2	1 880.9	666.3	592.3	662.3	193.8	6.0	123.0	6 132.8
Washing machine	2 476.6	1 836.7	1 492.9	625.5	762.5	191.8	52.9	123.0	7 561.9
Clothes dryer	1 531.4	1 034.5	839.6	331.1	380.8	109.5	19.7	73.8	4 320.4
Air conditioner	1 402.2	1 159.8	891.2	546.6	548.9	38.7	50.3	60.2	4 697.9
None of the above	*0.9	*0.7	—	*0.8	—	_	_	_	*2.4
Total dwellings(b)	2 590.4	1 916.4	1 532.1	643.4	788.9	195.9	54.7	125.2	7 847.0
Proportion (%)									
Refrigerator	99.9	99.8	100.0	99.8	99.9	99.9	100.0	99.8	99.9
Separate freezer	33.9	34.9	38.2	40.7	41.8	57.4	35.1	32.6	36.9
Dishwasher	42.6	47.5	41.4	30.7	33.5	32.2	28.5	56.3	41.5
Heater	77.5	98.1	43.5	92.1	84.0	98.9	11.0	98.3	78.2
Washing machine	95.6	95.8	97.4	97.2	96.7	97.9	96.7	98.3	96.4
Clothes dryer	59.1	54.0	54.8	51.5	48.3	55.9	35.9	58.9	55.1
Air conditioner	54.1	60.5	58.2	85.0	69.6	19.8	91.9	48.1	59.9
None of the above	*	*	_	*0.1	_	_	_	_	*

 estimate is subject to sampling variability too high for most practical purposes

(b) Totals do not equal the sum of items in each column as

.

— nil or rounded to zero (including null cells)

.

(a) Northern Territory data refers to mainly urban areas only.

more than one appliance may be specified. Note: No regional split between capital city and balance of state/territory for NT and ACT as the sample does not support any break down beyond the whole territory.

WHITE GOODS IN DWELLINGS-1994:2005 NSW Vic. Qld .SA W/A Tas. NT(a) ACT Aust. % % % % % % % % % . MARCH 2005 Refrigerator 99.9 99.8 100.0 99.8 99.9 99.9 100.0 99.8 99.9 Separate freezer 33.9 34.9 38.2 57.4 35.1 32.6 36.9 40.7 41.8 41.4 41.5 Dishwasher 42.6 47.5 30.7 33.5 32.2 28.5 56.3 Heater 43.5 84.0 98.3 78.2 77.5 98.1 92.1 98.9 11.0 95.6 95.8 97.4 97.2 96.7 97.9 98.3 96.4 Washing machine 96.7 Clothes dryer 59.1 54.0 54.8 51.5 48.3 55.9 35.9 58.9 55.1 Air conditioner 54.1 60.5 58.2 85.0 69.6 19.8 91.9 48.1 59.9 MARCH 2002 Refrigerator 100.0 99.9 99.8 99.8 100.0 99.8 100.0 99.8 99.9 Separate freezer 36.0 36.2 39.1 43.6 38.4 59.6 37.9 28.2 38.0 Dishwasher 37.1 42.4 30.3 23.0 26.7 25.9 25.9 46.8 34.7 45.6 84.9 99.0 80.5 Heater 81.8 99.0 92.7 8.4 99.7 Washing machine 94.4 95.1 95.8 95.5 95.8 97.3 94.9 96.9 95.2 Clothes dryer 36.6 60.4 55.1 52.7 48.4 54.8 61.4 55.4 51.5 Air conditioner 43.5 52.9 38.5 79.6 59.0 48.6 10.3 89.3 28.9 . MARCH 1999 99.6 99.8 99.7 99.9 99.7 99.4 100.0 99.8 99.7 Refrigerator 40.9 40.1 38.2 39.6 42.8 39.4 61.7 33.5 Separate freezer 41.5 Dishwasher 31.2 37.4 28.6 20.2 20.0 24.1 20.0 46.0 30.1 82.2 98.8 39.9 92.8 83.2 98.9 10.5 99.1 79.6 Heater Washing machine 93.7 95.3 95.9 94.7 93.8 97.2 95.0 95.7 94.7 55.6 54.9 52.5 48.4 32.7 56.2 53.0 Clothes dryer 45.1 56.1 Air conditioner 27.6 43.5 24.8 54.3 45.4 2.5 83.6 19.9 34.7 JUNE 1994 99.6 99.9 99.7 99.6 99.6 99.7 100.0 99 9 99.7 Refrigerator Separate freezer 45.4 47.1 44.9 41.7 45.4 47.6 47.1 63.8 41.0 25.1 Dishwasher 24.5 31.9 24.7 18.6 16.6 19.4 14.5 38.0 Heater 88.3 99.4 45.4 94.1 86.8 99.8 18.2 99.6 83.8 Washing machine 92.6 95.0 95.0 94.5 94.6 97.2 88.0 96.8 94.2 Clothes dryer 52.7 57.3 49.4 49.1 41.4 54.6 23.3 54.2 51.7 Air conditioner 30.8 36.9 17.6 61.5 35.5 2.4 76.4 16.7 32.5

5.4

(a) Northern Territory data refers to mainly urban areas only.

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
			MARC	CH 2008	5				
stimate ('000)									
Refrigerator	276.5	198.1	215.6	65.5	104.2	19.5	7.9	14.6	901.8
Separate freezer	54.6	38.5	48.7	13.8	22.0	7.7	*1.7	*1.6	188.6
Dishwasher	76.7	71.9	62.2	21.1	29.5	8.6	*1.9	6.3	278.3
Heater	115.4	74.1	53.8	20.2	33.4	14.5	_	5.6	317.0
Washing machine	224.9	192.7	167.7	66.8	91.1	20.1	*6.1	10.9	780.3
Clothes dryer	74.3	59.2	48.7	16.7	23.3	7.3	*0.3	*3.9	233.8
No/none	1 967.1	1 453.3	1 086.0	493.1	567.1	137.2	40.5	92.0	5 836.3
Total households	2 589.5	1 915.8	1 532.1	642.6	788.9	195.9	54.7	125.2	7 844.6
roportion (%)									
Refrigerator	10.7	10.3	14.1	10.2	13.2	9.9	14.5	11.6	11.5
Separate freezer	2.1	2.0	3.2	2.1	2.8	3.9	*3.1	*1.3	2.4
Dishwasher	3.0	3.8	4.1	3.3	3.7	4.4	*3.5	5.0	3.5
Heater	4.5	3.9	3.5	3.1	4.2	7.4	_	4.5	4.0
Washing machine	8.7	10.1	10.9	10.4	11.5	10.2	*11.2	8.7	9.9
Clothes dryer	2.9	3.1	3.2	2.6	3.0	3.7	*0.6	*3.1	3.0
No/none	76.0	75.9	70.9	76.7	71.9	70.0	74.0	73.5	74.4
			MARC	CH 2002	2				
roportion (%)									
Refrigerator	9.4	8.7	11.6	8.3	8.6	9.0	12.7	9.4	9.5
Separate freezer	1.6	1.4	2.1	2.4	1.7	2.7	2.4	1.3	1.7
	2.8	3.5	3.0	1.9	2.9	2.6	1.6	4.1	3.0
Disnwasner									
Dishwasher Heater			3.0	2.6					
Heater	3.7	1.9	3.0 10.5	2.6 10.4	3.0	4.9	_	3.1	2.9
Heater Washing machine	3.7 8.6	1.9 8.5	10.5	10.4	3.0 10.5	4.9 7.7	 10.8	3.1 9.4	2.9 9.3
Heater	3.7	1.9			3.0	4.9	_	3.1	2.9
Heater Washing machine Clothes dryer	3.7 8.6 3.3	1.9 8.5 2.9	10.5 2.5	10.4 2.3 77.3	3.0 10.5 2.7	4.9 7.7 1.8	 10.8 0.4	3.1 9.4 2.0	2.9 9.3 2.8
Heater Washing machine Clothes dryer	3.7 8.6 3.3	1.9 8.5 2.9	10.5 2.5 74.5	10.4 2.3 77.3	3.0 10.5 2.7 77.8	4.9 7.7 1.8	 10.8 0.4	3.1 9.4 2.0	2.9 9.3 2.8
Heater Washing machine Clothes dryer No/none	3.7 8.6 3.3	1.9 8.5 2.9	10.5 2.5 74.5	10.4 2.3 77.3	3.0 10.5 2.7 77.8	4.9 7.7 1.8	 10.8 0.4	3.1 9.4 2.0	2.9 9.3 2.8
Heater Washing machine Clothes dryer No/none roportion (%)	3.7 8.6 3.3 77.9	1.9 8.5 2.9 79.1	10.5 2.5 74.5 MARC	10.4 2.3 77.3 CH 1999	3.0 10.5 2.7 77.8	4.9 7.7 1.8 77.8		3.1 9.4 2.0	2.9 9.3 2.8
Heater Washing machine Clothes dryer No/none roportion (%) Refrigerator	3.7 8.6 3.3 77.9 6.3	1.9 8.5 2.9 79.1	10.5 2.5 74.5 MARC 6.8	10.4 2.3 77.3 CH 1999 6.3	3.0 10.5 2.7 77.8 7.3	4.9 7.7 1.8 77.8 5.2		3.1 9.4 2.0 76.0 8.9	2.9 9.3 2.8 77.4
Heater Washing machine Clothes dryer No/none Proportion (%) Refrigerator Separate freezer	3.7 8.6 3.3 77.9 6.3 0.6	1.9 8.5 2.9 79.1 5.7 1.0	10.5 2.5 74.5 MARC 6.8 1.2	10.4 2.3 77.3 CH 1999 6.3 0.9	3.0 10.5 2.7 77.8 7.3 1.4	4.9 7.7 1.8 77.8 5.2 1.6		3.1 9.4 2.0 76.0 8.9 0.6	2.9 9.3 2.8 77.4 6.4 1.0
Heater Washing machine Clothes dryer No/none roportion (%) Refrigerator Separate freezer Dishwasher	3.7 8.6 3.3 77.9 6.3 0.6 1.6	1.9 8.5 2.9 79.1 5.7 1.0 1.6	10.5 2.5 74.5 MARC 6.8 1.2 1.3	10.4 2.3 77.3 CH 1999 6.3 0.9 0.9	3.0 10.5 2.7 77.8 7.3 1.4 1.2	4.9 7.7 1.8 77.8 5.2 1.6 0.5		3.1 9.4 2.0 76.0 8.9 0.6 1.9	2.9 9.3 2.8 77.4 6.4 1.0 1.4
Heater Washing machine Clothes dryer No/none Poportion (%) Refrigerator Separate freezer Dishwasher Heater	3.7 8.6 3.3 77.9 6.3 0.6 1.6 6.0	1.9 8.5 2.9 79.1 5.7 1.0 1.6 4.9	10.5 2.5 74.5 MARC 6.8 1.2 1.3 3.3	10.4 2.3 77.3 2H 1999 6.3 0.9 0.9 5.5	3.0 10.5 2.7 77.8 7.3 1.4 1.2 6.4	4.9 7.7 1.8 77.8 5.2 1.6 0.5 7.5		3.1 9.4 2.0 76.0 8.9 0.6 1.9 7.6	2.9 9.3 2.8 77.4 6.4 1.0 1.4 5.2
Heater Washing machine Clothes dryer No/none Proportion (%) Refrigerator Separate freezer Dishwasher	3.7 8.6 3.3 77.9 6.3 0.6 1.6	1.9 8.5 2.9 79.1 5.7 1.0 1.6	10.5 2.5 74.5 MARC 6.8 1.2 1.3	10.4 2.3 77.3 CH 1999 6.3 0.9 0.9	3.0 10.5 2.7 77.8 7.3 1.4 1.2	4.9 7.7 1.8 77.8 5.2 1.6 0.5		3.1 9.4 2.0 76.0 8.9 0.6 1.9	2.9 9.3 2.8 77.4 6.4 1.0 1.4

REPLACING/BUYING APPLIANCES, Items replaced or bought in the last 12

 * estimate is subject to sampling variability too high for most practical purposes
 (a) Northern Territory data refers to mainly urban areas only.

— nil or rounded to zero (including null cells)

REFRIGERATORS, Number in use—1994:2005 NSW Vic. Qld SA WA Tas. NT(a) ACT Aust. MARCH 2005 Estimate ('000) One 1 738.8 1 406.9 908.6 451.8 483.2 142.3 87.6 5 252.7 33.4 Two 749.2 459.6 554.1 170.2 270.2 47.6 19.7 33.4 2 303.8 Three or more 99.6 46.9 20.2 34.6 5.8 *4.0 282.2 69.4 *1.7 *3.1 *0.9 *0.2 *8.3 None *2.7 _ *1.2 *0.2 _ Total dwellings 2 590.4 1 916.4 1 532.1 643.4 788.9 195.9 54.7 125.2 7 847.0 Proportion (%) 67.1 70.2 70.0 One 73.4 59.3 61.3 72.6 61.0 66.9 Two 28.9 24.0 36.2 26.5 34.2 24.3 35.9 26.6 29.4 Three or more 3.8 2.4 4.5 3.1 4.4 3.0 *3.1 *3.2 3.6 *0.2 *0.2 *0.1 None *0.1 _ *0.2 *0.1 *0.1 _ MARCH 2002 Proportion (%) 71.2 74.0 66.2 68.8 66.0 79.1 56.9 75.3 70.4 One 25.6 23.9 30.2 27.7 29.8 19.4 21.2 26.5 Two 39.2 1.3 3.0 Three or more 3.0 1.9 3.6 3.4 4.2 3.9 3.3 None 0.2 0.2 0.1 0.2 0.2 0.1 _ MARCH 1999 Proportion (%) One 71.0 75.3 63.7 72.7 69.4 79.0 66.2 71.7 70.8 Two 25.5 22.6 32.5 24.6 27.1 18.7 27.4 26.4 26.0 2.0 2.8 Three or more 3.0 3.5 2.6 3.2 1.7 6.4 1.7 None 0.4 0.2 0.3 0.1 0.3 0.6 0.2 0.3 JUNE 1994 Proportion (%) One 77.1 79.0 68.4 76.7 73.8 82.3 67.7 79.5 75.8 21.9 Two 20.4 19.1 29.1 21.2 23.4 16.3 31.0 19.3 Three or more 2.1 1.9 2.2 1.7 2.4 1.0 1.3 1.1 2.0 None 0.4 0.1 0.3 0.4 0.4 0.3 0.1 0.3 _ * estimate is subject to sampling variability too high for (a) Northern Territory data refers to mainly urban areas only. most practical purposes

— nil or rounded to zero (including null cells)

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
							. ,		
		N	MARCH 2						
timates ('000)									
Less than 1 year	201.0	146.6	157.4	43.3	71.2	14.4	*6.0	11.7	651.8
1 year to less than 5 years	842.3	563.1	514.1	187.0	255.3	54.7	24.0	33.7	2 474.1
5 years to less than 10 years	708.6	480.7	396.5	160.6	207.3	54.9	16.9	34.0	2 059.5
10 or more years	791.9	692.5	438.1	239.0	236.5	64.6	*6.6	43.6	2 513.0
Don't know	43.9	30.4	26.0	12.3	17.7	7.1	*1.1	*2.0	140.3
Total dwellings	2 587.7	1 913.3	1 532.1	642.2	788.0	195.7	54.7	125.0	7 838.7
portion (%)									
Less than 1 year	7.8	7.7	10.3	6.7	9.0	7.4	*11.1	9.4	8.3
1 year to less than 5 years	32.5	29.4	33.6	29.1	32.4	27.9	43.9	26.9	31.6
5 years to less than 10 years	27.4	25.1	25.9	25.0	26.3	28.1	31.0	27.2	26.3
10 or more years Don't know	30.6 1.7	36.2 1.6	28.6 1.7	37.2 1.9	30.0 2.2	33.0 3.6	*12.1 *2.0	34.9 *1.6	32.1 1.8
	1.7	1.0	1.7	1.9	2.2	5.0	~2.0		1.0
• • • • • • • • • • • • • • • • • • • •		• • • • • • •			• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •
		Ν	/ARCH 2	2002					
portion (%)									
Less than 1 year	8.1	7.4	9.9	6.4	7.2	6.5	10.2	7.8	8.0
1 year to less than 5 years	32.9	28.1	33.0	26.4	28.6	28.0	39.4	29.3	30.6
5 years to less than 10 years	26.2	24.1	25.9	25.1	27.6	27.4	28.1	25.9	25.7
10 or more years	31.4	39.0	29.4	40.9	34.7	33.7	18.2	35.4	34.0
on't know	1.4	1.4	1.8	1.1	1.9	4.4	4.0	1.6	1.6
			иаксн 1						
(9)									
portion (%) Less than 1 year	7.0	5.2	7.1	6.0	8.2	5.1	18.1	8.7	6.7
1 year to less than 5 years	27.5	22.6	30.0	21.8	27.4	24.1	39.4	23.0	26.2
5 years to less than 10 years	25.1	23.4	28.2	22.0	25.9	27.5	24.1	23.0	25.1
10 years or more	38.0	46.9	32.7	47.4	36.6	39.7	17.1	41.9	39.8
Don't know	2.5	1.9	2.1	2.8	2.0	3.6	1.3	2.3	2.3
			• • • • • • •					• • • • • •	
			JUNE 19	994					
oportion (%)							- ·	. .	
Less than 1 year	7.1	6.4	7.2	5.4	6.9	7.2	8.4	9.1	6.8
1 year to less than 5 years	27.3	23.8	28.8	23.5	26.8	24.7	36.8	23.0	26.2
E vegere te lege them 10	30.2	27.1	30.6	27.0	33.4	30.4 36.3	31.9 20.1	30.0 36.3	29.5
5 years to less than 10 years 10 years or more	34.2	42.0	31.3	43.0	30.6				36.1

estimate is subject to sampling variability too high for most *

(a) Northern Territory data refers to mainly urban areas only.

practical purposes

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5.8

SECONDARY REFRIGERATOR, Age—2002 and 2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.			
MARCH 2005												
Estimate ('000)												
Less than 1 year	20.6	15.0	27.8	4.9	13.9	+ 1 0	*2.2	*0.8	98.0			
	30.6	15.9				*1.8						
1 year to less than 5 years	157.6	77.3	113.8	23.6	50.7	7.5	*5.7	4.9	441.1			
5 years to less than 10 years	174.4	92.4	127.8	39.6	67.8	10.4	*4.7	8.4	525.5			
10 or more years	465.4	305.1	339.7	116.7	166.0	30.2	8.7	22.6	1 454.5			
Don't know	20.8	15.9	*14.4	*5.5	*6.4	*3.5	—	*0.5	66.9			
Total dwellings	848.8	506.4	623.5	190.4	304.8	53.4	21.3	37.3	2 586.0			
Proportion (%)												
Less than 1 year	3.6	3.1	4.5	2.6	4.5	*3.4	*10.5	*2.2	3.8			
1 year to less than 5 years	18.6	15.3	18.2	12.4	16.6	14.1	*26.6	13.1	17.1			
5 years to less than 10 years	20.5	18.2	20.5	20.8	22.2	19.5	*22.0	22.6	20.3			
10 or more years	54.8	60.2	54.5	61.3	54.5	56.4	40.9	60.7	56.2			
Don't know	2.4	3.1	*2.3	*2.9	*2.1	*6.6	_	*1.4	2.6			
		• • • • • • •										
		IVI A	RCH 20	JU2(b)								
Proportion (%)												
1 year to less than 5 years	15.1	13.1	19.3	11.2	18.6	13.8	18.1	16.3	15.7			
5 years to less than 10 years	20.3	16.4	23.5	15.8	21.4	21.2	21.4	17.5	19.9			
10 years or more	62.2	68.0	54.3	70.7	57.7	60.7	53.3	64.2	61.9			
Don't know	2.3	2.5	2.8	2.3	2.3	4.3	7.1	1.9	2.5			
•••••	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • • •	• • • • • • •	• • • • • • •					
 estimate is subject to sampling value 	ariability too	high for m	ost ((a) Northe	ern Territory	data refers	s to mainly u	urban area	is only.			
practical purposes			((b) No inf	ormation co	llected on	Less than 1	year'.				
								-				

— nil or rounded to zero (including null cells)

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
• • • • • • • • • • • • •	• • • • • • •	• • • • • • •	•••••	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •
			MAR	CH 200	15				
Estimate ('000)									
One	802.9	610.7	523.6	237.2	301.4	97.2	18.9	39.6	2 631.5
Two	70.3	52.1	51.9	22.7	25.3	12.9	*0.3	*1.2	236.7
Three or more	*6.2	*6.9	*9.9	*1.8		*2.4	—	—	30.2
None		1 246.7		381.6	459.3	83.4	35.5	84.3	4 948.6
Total dwellings	2 590.4	1 916.4	1 532.1	643.4	788.9	195.9	54.7	125.2	7 847.0
Proportion (%)									
One	31.0	31.9	34.2	36.9	38.2	49.6	34.6	31.7	33.5
Two	2.7	2.7	3.4	3.5	3.2	6.6	*0.5	*1.0	3.0
Three or more	*0.2	*0.4	*0.6	*0.3	*0.4	*1.2	—	_	0.4
None	66.1	65.1	61.8	59.3	58.2	42.6	64.9	67.4	63.1
	• • • • • • •	• • • • • • •	MAR	CH 200				• • • • • •	
Proportion (%)									
One	33.8	34.3	35.3	39.3	35.5	53.4	34.9	27.4	35.3
Two	2.0	1.7	3.4		2.5	5.3	3.0	0.8	2.5
Three or more	0.2	0.2	0.4	0.3	0.4	0.9	_	_	0.3
None	64.0	63.8	60.9	56.4	61.6	40.4	62.1	71.8	62.0
	• • • • • • •	• • • • • • •	•••••					• • • • • •	• • • • • • •
			MAR	CH 199	19				
Proportion (%)									
One	35.5	36.7	36.6	38.4	36.1	54.1	39.6	32.5	36.8
Two	2.4	20	10	4.0	3.0	7 2		0.7	3.1
Three or more	0.3	2.8 0.1	0.2	0.4	0.3	0.4	1.5 0.4	0.3	0.2
None	61.8	60.4	59.1	57.2	60.6		58.5	66.5	59.9
	• • • • • • •		• • • • • • • •					• • • • • •	
			JUP	NE 1994	ł				
Proportion (%)									
One	38.7	41.8	41.2	43.1	43.0	54.8	41.2	39.4	41.2
Two	2.6	3.2	3.7	3.9	3.9	8.0	5.5	1.6	3.4
Three or more	0.3	0.3	0.5	0.6	0.1	1.0	0.4	_	0.4
None	58.3	54.6	54.6	52.4	52.9	36.2	52.9	59.0	55.1

* estimate is subject to sampling variability too high for most practical purposes

 (a) Northern Territory data refers to mainly urban areas only.

- nil or rounded to zero (including null cells)

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5.10 HOUSEHOLDS WITH DISHWASHERS, Frequency of use—1994:2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
• • • • • • • • • • • • • • • • • • • •									
			MARCH	2005					
Estimate ('000)									
Daily	361.0	309.1	250.2	70.5	102.6	28.9	*4.8	23.9	1 151.0
At least once a week	448.4	375.3	251.8	86.5	106.8	21.5	*5.5	37.1	1 332.9
At least once a month	54.2	40.4	26.2	*8.0	13.0	1.5	*1.0	*2.2	146.4
Occasionally/rarely	135.3	103.8	45.4	17.9	23.0	4.6	*3.3	*3.1	336.5
Never	105.8	81.7	61.1	14.5	18.7	6.6	*1.0	*4.1	293.4
Total households	1 104.7	910.3	634.8	197.4	264.0	63.0	15.6	70.4	3 260.2
Proportion (%)									
Daily	32.7	34.0	39.4	35.7	38.8	45.8	*30.8	34.0	35.3
At least once a week	40.6	41.2	39.7	43.8	40.4	34.1	*35.3	52.7	40.9
At least once a month	4.9	4.4	4.1	*4.0	4.9	2.4	*6.1	*3.1	4.5
Occasionally/rarely	12.2	11.4	7.2	9.1	8.7	7.3	*21.1	*4.4	10.3
Never	9.6	9.0	9.6	7.3	7.1	10.4	*6.6	*5.8	9.0
•••••			• • • • • • •	• • • • • • •					
			MARCH	2002					
Proportion (%)									
Daily	36.7	34.7	42.1	30.2	32.5	44.8	47.1	45.4	36.7
At least once a week	39.2	41.0	33.8	47.8	42.0	34.2	22.0	37.4	39.3
At least once a month	5.3	5.2	5.4	3.5	5.3	3.5	2.5	3.2	5.1
Occasionally/rarely	10.0	10.2	11.0	10.4	10.4	9.9	18.9	6.6	10.3
Never	8.8	8.9	7.7	8.2	9.7	7.8	9.5	7.4	8.6
• • • • • • • • • • • • • • • • • • • •									
			MARCH	1999					
Proportion (%)									
Daily	35.4	31.0	44.8	30.7	32.8	36.0	46.6	38.6	35.4
At least once a week	40.1	41.6	34.6	45.8	39.2	40.5	38.3	43.6	39.9
At least once a month	5.3	6.3	3.6	4.1	6.9	3.5	3.6	4.7	5.3
Occasionally/rarely	10.9	10.6	8.9	10.6	10.3	10.8	2.0	8.1	10.3
Never	8.3	10.5	8.1	8.8	10.8	9.3	9.5	5.0	9.1
		• • • • • • •							
			JUNE	1994					
Proportion (%)									
Daily	30.0	33.2	36.9	25.8	25.4	38.8	38.9	30.6	31.9
At least once a week	44.1	42.8	35.5	42.2	42.2	34.4	30.0	50.0	41.8
At least once a month	4.3	5.5	5.6	5.3	5.0	4.1	2.4	5.7	5.1
Occasionally/rarely	21.6	18.4	22.0	26.7	27.4	22.8	28.6	13.7	21.2
* estimate is subject to sar	nnling variahi	lity too high	for	(a) No	rthorn Torrit	on/ data ro	fore to main	lv urban a	roos only

estimate is subject to sampling variability too high for (a) Northern Territory data refers to mainly urban areas only. * most practical purposes

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5.11 WASH	HING M	ACHINI	ES, Typ	e—199	94:200)5			
	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	• • • • • • • •		MARC	H 2005	• • • • • • •	• • • • • • •		• • • • • •	
Estimate ('000)									
Automatic									
Top loading		1 528.7	1 279.1	465.1	612.7	162.4	45.5	97.8	6 308.6
Front loading Total	281.2 2 398.5	261.1 1 789.9	153.9 1 433.0	107.5 572.7	123.3 735.9	17.3 179.8	*6.5	23.9	974.8
							52.0	121.8	7 283.5
Not automatic Total dwellings (b)	78.1 2 476.6	46.8 1 836.7	59.9 1 492.9	52.8 625.5	26.6 762.5	12.1 191.8	*0.9 52.9	*1.3 123.0	278.5 7 561.9
C	2 47 0.0	1 030.7	1 492.9	025.5	702.5	191.0	52.9	123.0	7 561.9
Proportion (%) Automatic									
Top loading	85.5	83.2	85.7	74.4	80.3	84.7	86.0	79.5	83.4
Front loading	11.4	14.2	10.3	17.2	16.2	9.0	*12.3	19.5	12.9
Total	96.8	97.5	96.0	91.6	96.5	93.7	98.2	99.0	96.3
Not automatic	3.2	2.5	4.0	8.4	3.5	6.3	*1.8	*1.0	3.7
			MARC	H 2002					
Proportion (%)									
Automatic									
Top loading	87.7	87.0	88.1	77.2	86.4	86.1	96.4	87.8	86.6
Front loading	8.1	10.0	6.6	10.9	8.6	5.0	2.4	10.5	8.5
Total	95.8	97.0	94.7	88.1	95.0	91.1	98.8	98.3	95.1
Not automatic	4.2	3.0	5.3	11.9	5.0	8.9	1.2	1.7	4.9
• • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • •		H 1999		• • • • • • •		• • • • • •	
			WARU	11 1999					
Proportion (%) Automatic									
Top loading	88.5	88.6	87.2	75.0	85.1	85.8	94.9	88.6	86.8
Front loading	6.1	7.4	5.3	8.3	6.7	3.6	2.9	10.1	6.5
Total	94.6	96.0	92.5	83.3	91.8	89.4	97.8	98.7	93.2
Not automatic	5.4	4.0	7.5	16.7	8.2	10.6	2.2	1.3	6.8
• • • • • • • • • • • • • • •				1994		• • • • • • •		• • • • • •	
Proportion (%)									
Automatic Top loading	85.6	87.7	82.4	75.8	82.1	83.1	89.8	87.8	84.3
Front loading	5.8	5.4	3.7	5.1	4.6	3.3	5.1	9.3	5.1
Total	91.4	93.1	86.1	80.9	86.7	86.4	94.9	97.1	89.5
Not automatic	8.6	6.9	13.9	19.1	13.3	13.6	5.1	2.9	10.5
estimate is subject to	o sampling va	riability too	high for	(a) N	lorthern Ter	ritory data r	efers to ma	inly urban	areas only.
most practical purpos			-		ncludes only				

5.12

WASHING	MACHINES,	Average	loads of	washing	done per	week-	-1994:2005	••
	NSW	/ic. Qld	SA	WA Ta	s. NT(a)	ACT	Aust.	

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
			MARCH	2005					
Estimate ('000)									
Less than 3 loads per week	739.1	598.7	367.0	230.6	225.9	44.4	13.0	38.8	2 257.5
3 to 5 loads per week	975.6	687.6	635.7	226.7	310.8	72.5	20.6	49.2	2 978.7
6 to 10 loads per week	597.4	418.0	373.2	139.8	183.8	53.1	15.3	29.5	1 810.2
11 loads or more per week	164.5	132.4	117.0	28.4	42.0	21.8	*3.9	5.5	515.5
Total households	2 476.6	1 836.7	1 492.9	625.5	762.5	191.8	52.9	123.0	7 561.9
Proportion (%)									
Less than 3 loads per week	29.8	32.6	24.6	36.9	29.6	23.2	24.6	31.5	29.9
3 to 5 loads per week	39.4	37.4	42.6	36.2	40.8	37.8	39.0	40.0	39.4
6 to 10 loads per week	24.1	22.8	25.0	22.3	24.1	27.7	29.0	24.0	23.9
11 loads or more per week	6.6	7.2	7.8	4.5	5.5	11.4	*7.4	4.5	6.8
	0.0				0.0				0.0
	• • • • • • •	• • • • • • •	• • • • • • • •				• • • • • • •	• • • • • •	
			MARCH	2002					
Proportion (%)									
Less than 3 loads per week	28.5	28.6	25.0	32.1	31.3	26.8	23.7	29.0	28.4
3 to 5 loads per week	28.5 37.9	39.2	25.0 37.1	32.1 39.1	31.3	20.8 34.6	37.3	29.0 39.2	28.4 38.1
6 to 10 loads per week	25.2	24.8	29.7	22.5	24.6	25.6	28.8	27.4	25.8
11 loads or more per week	8.4	7.4	8.2	6.3	6.2	13.0	10.2	4.4	7.8
	0.11		0.2	0.0	0.2	1010	10.2		
	• • • • • • •	• • • • • • •							
			MARCH	1999					
Proportion (%)									
Less than 3 loads per week	27.5	27.1	23.8	31.2	30.2	23.5	19.0	28.3	27.1
3 to 5 loads per week	36.4	37.2	23.8 34.9	36.0	36.2	33.1	35.8	37.6	36.2
6 to 10 loads per week	27.0	26.9	30.6	26.6	26.8	28.1	36.0	26.7	27.7
11 loads or more per week	9.1	8.8	10.6	6.2	6.8	15.3	9.2	7.4	9.0
	• • • • • • •	• • • • • • •	· · · · · · · · · · ·				• • • • • • •	• • • • • • •	
			JUNE 1	994					
Proportion (%)									
Less than 3 loads per week	29.4	30.9	23.2	31.7	31.7	25.5	17.9	27.3	28.9
3 to 5 loads per week	32.1	32.1	33.0	36.3	35.3	32.6	37.6	36.9	33.1
6 to 10 loads per week	27.0	26.4	30.1	23.7	25.2	28.5	34.5	26.7	27.0
11 loads or more per week	11.5	10.5	13.7	8.3	7.9	13.4	10.0	9.1	11.0
·									
	• • • • • • •	• • • • • • •						• • • • • •	
 estimate is subject to sampling 	variability to	o high for n	nost	(a) North	ern Territory	data refers	to mainly u	irban areas	s only.
practical purposes									

	NSW	Vic.	Qld	SA	WA	Tas.	sed—1 _{NT(a)}	ACT	Aust.
	1000	vic.	Qlu	OA		743.	///(u)	Aor	Aust.
			MARCI	H 2005					
timate ('000)									
Cold	1 821.8	1 087.0	1 172.9	394.0	495.4	136.0	40.4	78.5	5 226.0
Varm	389.1	448.1	218.4	144.7	186.6	40.8	7.2	28.5	1 463.3
lot	49.1	67.7	15.4	26.8	24.3	*4.0	*2.1	*2.1	191.5
Varies	216.6	233.9	86.2	60.0	56.2	11.0	*3.1	13.9	681.1
Total households(b)	2 476.6	1 836.7	1 492.9	625.5	762.5	191.8	52.9	123.0	7 561.9
ortion (%)									
Cold	73.6	59.2	78.6	63.0	65.0	70.9	76.4	63.8	69.1
Warm	15.7	24.4	14.6	23.1	24.5	21.2	13.7	23.2	19.4
Hot	2.0	3.7	1.0	4.3	3.2	*2.1	*4.0	*1.7	2.5
aries	8.7	12.7	5.8	9.6	7.4	5.8	*5.9	11.3	9.0
			MARCI	H 2002				• • • • • •	
oution (0/)									
oortion (%) Cold	71.9	E0 0	77.1	62.2	63.1	66.2	76.0	65.6	67.8
Varm	71.9 19.1	58.8 27.9	16.0	62.2 24.5	27.2	66.3 24.9	76.8 15.5	65.6 24.4	22.1
Hot	2.1	4.2	2.1	24.5 5.7	3.4	3.3	4.2	24.4 1.6	3.1
'aries	6.9	9.2	4.8	7.6	6.2	5.4	3.6	8.4	7.0
								• • • • • •	
			MARCI	H 1999					
ortion (%)									
old	70.6	53.6	73.9	53.2	61.0	63.7	75.7	64.2	64.4
Varm	20.5	31.6	19.2	31.3	26.8	26.0	17.3	25.1	24.7
lot	3.3	5.1	2.9	8.0	5.3	3.9	2.1	3.5	4.3
aries	5.6	9.6	4.0	7.4	6.9	6.4	4.9	7.2	6.6
• • • • • • • • • • • • • •			JUNE	1994					
oportion (%)									
Cold	69.4	47.5	73.0	48.1	59.1	58.6	70.3	61.1	61.2
Varm	21.8	38.2	20.3	48.1 37.0	27.8	32.4	21.5	30.5	28.0
lot	4.4	7.0	3.0	8.7	7.6	4.8	3.8	2.5	5.5
Varies	4.4	7.3	3.7	6.2	5.4	4.2	4.4	5.8	5.3
stimate is subject to s	ampling varia	hility too hig	th for	(a) N	orthern Terri	ton data ra	foro to mair	ly urban a	roos only
				(a) IN		lory uala re		ily ulball a	

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5.14

5.14 CLOTHES DRYERS, Frequency of use—1994:2005

	RIERS,	riequ	ency o	1 436-	-1334.	2005			•••••
	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
		Ν	IARCH 2	2005					
Estimate ('000)									
At least once a week	325.3	258.0	194.0	57.9	58.5	20.1	*3.5	14.3	931.7
At least once a fortnight	54.1	42.6	29.5	8.9	*6.6	*1.8	*0.3	*3.3	147.0
At least once a month	65.3	53.1	34.8	9.6	*6.8	*3.5	*0.7	*3.7	177.5
Depends on weather/season	472.8	264.3	252.1	95.0	133.5	40.8	7.6	21.6	1 287.7
Occasionally/rarely	504.3	335.7	264.3	129.7	149.7	35.5	*3.9	24.8	1 447.9
Never	109.7	80.7	65.0	30.0	25.7	7.8	*3.6	6.1	328.6
Total households(b)	1 531.4	1 034.5	839.6	331.1	380.8	109.5	19.7	73.8	4 320.4
Proportion (%)									
At least once a week	21.2	24.9	23.1	17.5	15.4	18.3	*18.1	19.3	21.6
At least once a fortnight	3.5	4.1	3.5	2.7	*1.7	*1.7	*1.5	*4.5	3.4
At least once a month	4.3	5.1	4.1	2.9	*1.8	*3.2	*3.5	*5.0	4.1
Depends on weather/season	30.9	25.6	30.0	28.7	35.1	37.2	38.9	29.3	29.8
Occasionally/rarely	32.9	32.5	31.5	39.2	39.3	32.5	*19.8	33.6	33.5
Never	7.2	7.8	7.7	9.0	6.8	7.1	*18.3	8.3	7.6
	1.2	1.0		0.0	0.0		10.0	0.0	1.0
	• • • • • • •	• • • • • • • •				• • • • • • •	• • • • • • •		
		N	IARCH 2	2002					
Proportion (%)									
At least once a week	23.3	21.3	19.8	15.5	14.8	16.1	20.3	15.9	20.5
At least once a fortnight	3.2	3.8	3.1	1.3	1.8	2.7	5.6	3.0	3.0
At least once a month	4.6	3.8	3.8	2.4	1.3	3.7	1.2	2.6	3.7
Depends on weather/season	36.9	29.3	32.3	30.7	38.7	33.0	36.3	41.6	33.9
Occasionally/rarely	26.5	33.6	35.1	39.5	35.6	38.2	22.2	32.0	32.0
Never	5.4	8.2	5.9	10.6	7.8	6.3	14.5	4.8	6.8
		• • • • • • • • •		1000			• • • • • • • •		
		IV	IARCH :	1999					
Proportion (%)									
At least once a week	16.9	17.6	21.9	13.9	11.7	15.6	17.8	11.0	17.2
At least once a fortnight	3.7	3.0	3.4	1.4	2.5	2.9	5.0	2.5	3.1
At least once a month	3.7	1.9	3.2	2.2	2.0	2.3	5.8	4.1	2.9
Depends on weather/season	39.3	37.4	37.5	40.2	41.5	31.8	42.1	45.1	38.7
Occasionally/rarely	32.0	32.5	29.8	35.6	37.6	41.0	23.2	32.5	32.7
Never	4.4	7.6	4.2	6.7	4.6	6.4	6.1	4.8	5.4
			JUNE 1	••••••• •••					
			JONE T	994					
Proportion (%)									
At least once a fortnight	21.3	30.5	22.4	20.6	16.6	29.6	14.4	25.5	23.9
At least once a month	5.3	4.8	3.3	3.2	2.3	3.8	2.9	7.2	4.4
Depends on weather/season	38.1	30.0	39.7	39.2	39.1	27.3	43.0	32.2	35.9
Occasionally/rarely	35.3	34.7	34.7	37.0	42.1	39.3	39.7	35.1	35.8
		• • • • • • • •				• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • •
 estimate is subject to sampling v 	ariability too	high for mo	st	(a) North	ern Territory	data refers	to mainly ur	ban areas (only.
practical purposes				(b) Inclue	des only hous	seholds with	n clothes dry	er/s.	



5.15 REPLACING APPLIANCES, Factors considered in buying—2002 and 2005

	Refrigerator	Separate freezer	Dishwasher	Heater	Washing machine	Clothes dryer
	%	%	%	%	%	%
	MA	RCH 200	05			
Cost price	38.9	37.7	38.0	42.3	38.1	40.4
Features	17.3	15.3	26.2	19.5	19.8	12.4
Energy star rating	41.2	28.8	50.3	30.8	43.5	39.8
Brand name	10.1	9.6	17.0	6.3	15.3	14.2
Appearance	12.6	*3.0	11.9	9.3	2.5	*3.5
Environmental considerations	2.0	*1.6	13.6	7.7	19.1	*4.6
Reliability	5.9	*4.1	10.5	10.2	9.7	7.5
Serviceability	2.6	*1.4	*4.4	*2.6	3.9	*2.5
Availability	2.1	*2.7	*2.7	*3.2	2.5	*2.6
Dimensions	30.3	29.3	12.2	6.7	12.1	10.2
Capacity	25.8	28.4	8.1	15.9	22.9	15.6
Other	4.1	*4.9	7.9	12.7	6.7	5.3
Recommended by friend/expert(a)	2.4	*1.1	5.8	9.0	4.1	*2.0
No reason	4.0	*2.8	*3.1	*0.8	2.2	6.2
Don't know	1.7	*1.5	*1.5	*1.4	*1.2	*1.1
			• • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •
	MA	RCH 200	02			
Cost price	51.1	46.5	48.9	55.5	50.3	50.4
Features	23.5	17.0	30.2	29.6	26.6	24.0
Energy star rating	46.1	39.4	53.0	31.5	39.0	49.1
Brand name	20.2	15.5	28.0	14.4	26.3	27.2
Appearance	13.7	8.6	15.4	13.1	6.5	6.6
Environmental considerations	4.5	4.9	10.5	10.9	10.2	8.1
Reliability	13.8	12.7	23.6	15.6	21.7	18.4
Serviceability	7.5	5.8	12.6	7.3	10.2	9.3
Availability	5.5	5.7	4.6	7.1	5.2	5.7
Dimensions	34.2	31.1	22.9	16.9	22.1	18.3
Capacity	34.6	39.4	20.8	18.7	31.7	24.5
Other	7.1	7.4	15.7	21.1	9.7	9.8
No reason	1.9	2.9	1.4	0.8	2.4	3.1
Don't know	1.2	1.0	1.2	0.8	0.7	1.3
• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •

estimate is subject to sampling variability too high for *

Note: Asked of households that bought or replaced at least one appliance in the last 12 months prior to the

(a) Not collected in 2002.

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most practical purposes

survey.

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust.
	%	%	%	%	%	%	%	%	%
	• • • • • •			AL CITY	· · · · · · · · · · · · · · · · · · ·	• • • • • •	• • • • • • •		
Ceiling fan	30.9	32.2	56.1	47.7	40.9	28.2			38.1
/acuum cleaner	95.3	93.1	95.3	95.9	95.4	98.5			94.8
Portable fan	67.6	56.2	79.4	57.0	62.9	48.3			63.9
elevision	99.1	97.1	99.2	98.9	99.2	98.2			98.5
/ideo player/recorder	85.5	82.8	82.0	84.7	84.8	85.1			83.9
DVD player/recorder	75.5	74.0	74.5	71.3	75.0	68.2			74.5
Aicrowave	90.9	87.7	91.3	88.7	93.3	90.9			90.2
	90.9 79.1	75.9	91.3 80.7	78.2	93.3 83.1	90.9 85.0			90.2 79.0
Stereo system	70.9	67.9	72.0	66.6	72.5	66.0			70.1
Computer	2.5		4.7		1.8		• •		2.8
Vaterbed		1.9		3.4		*2.1			
Games console	32.6	30.0	33.1	29.7	31.9	30.0	• •	• •	31.6
None of the above	*0.1	1.5	_	_	_	_	• •	• •	0.4
	E	BALANC	E OF S	FATE / T	FERRITC	RY			
Ceiling fan	51.4	50.6	68.1	57.0	40.2	28.2			54.7
/acuum cleaner	96.9	97.1	93.7	97.2	93.6	97.4			95.8
Portable fan	67.5	64.4	68.2	64.7	62.3	43.9			65.6
elevision	99.5	99.1	96.5	98.8	99.3	98.5			98.4
/ideo player/recorder	83.9	83.7	81.9	86.4	81.6	85.2			83.3
OVD player/recorder	67.5	65.2	70.0	64.9	69.2	64.2			67.6
Vicrowave	93.2	92.2	88.6	91.1	91.2	92.4			91.4
Stereo system	73.8	74.2	77.1	78.5	80.7	77.0			75.7
Computer	63.1	61.7	66.5	61.5	62.4	62.9			63.7
Vaterbed	4.1	2.7	5.6	5.3	*2.2	*3.3			4.2
Games console	28.4	29.4	30.4	28.2	30.0	30.3			29.4
None of the above	_	*0.1	_	*0.3	_	*0.4			0.1
		τοτα	L STAT	E / TER	RITORY				
Ceiling fan	38.7	37.4	62.6	50.1	40.7	28.2	88.6	27.2	44.1
/acuum cleaner	95.9	94.3	94.4	96.2	94.9	97.8	89.3	97.4	95.2
Portable fan	67.5	58.6	73.3	59.0	62.7	45.7	47.7	62.3	64.5
elevision	99.3	97.6	97.7	98.9	99.2	98.4	98.1	99.0	98.5
/ideo player/recorder	84.9	83.1	81.9	85.1	83.9	85.2	69.2	86.8	83.7
DVD player/recorder	72.4	71.5	72.1	69.7	73.5	65.8	79.5	78.1	72.0
Aicrowave	91.8	89.0	89.9	89.3	92.8	91.8	85.7	93.7	90.6
Stereo system	77.1	75.4	78.8	78.2	82.5	80.3	79.6	82.6	77.8
Computer	67.9	66.1	69.0	65.3	69.9	64.2	69.0	79.2	67.8
Vaterbed	3.1	2.1	5.2	3.9	1.9	2.8	*4.7	6.0	3.3
Games console	31.0	29.9	31.7	29.3	31.4	30.2	35.7	32.0	30.8
None of the above	*	1.1	_	*0.1	_	*0.2	_		0.3

* estimate is subject to sampling variability too high for most practical purposes

Note: No regional split between capital city and balance of state/territory for NT and ACT as the sample does not support any breakdown beyond the whole

territory.

.. not applicable

.

nil or rounded to zero (including null cells) _

(a) Northern Territory data refers to mainly urban areas only.

	NSW	Vic.	014	SA	WA	9:200 _{Tas.}		ACT	۸.,
			Qld				NT(a)	ACT	Au
	%	%	%	%	%	%	%	%	
			MARCI	+ 200!	••••• 5	• • • • •			• • •
Ceiling fan	38.7	37.4	62.6	50.1	40.7	28.2	88.6	27.2	44
Vacuum cleaner	95.9	94.3	94.4	96.2	94.9	97.8	89.3	97.4	95
Portable fan	67.5	58.6	73.3	59.0	62.7	45.7	47.7	62.3	64
Television	99.3	97.6	97.7	98.9	99.2	98.4	98.1	99.0	98
Video player/recorder	84.9	83.1	81.9	85.1	83.9	85.2	69.2	86.8	83
DVD player/recorder	72.4	71.5	72.1	69.7	73.5	65.8	79.5	78.1	72
Microwave	91.8	89.0	89.9	89.3	92.8	91.8	85.7	93.7	90
Stereo system	77.1	75.4	78.8	78.2	82.5	80.3	79.6	82.6	77
Computer	67.9	66.1	69.0	65.3	69.9	64.2	69.0	79.2	67
Waterbed	3.1	2.1	5.2	3.9	1.9	2.8	*4.7	6.0	3
Games console	31.0	29.9	31.7	29.3	31.4	30.2	35.7	32.0	30
None of the above	*	1.1	—	*0.1	—	*0.2	—	—	C
			MARCI	H 2002	2				• • •
Ceiling fan	37.5	38.2	58.6	48.6	44.8	30.1	87.0	23.8	43
Vacuum cleaner	95.3	96.9	93.8	95.5	95.3	97.6	85.7	98.4	95
Portable fan	67.2	62.1	76.3	60.9	64.1	53.2	53.1	72.7	66
Television	99.3	99.3	98.9	99.4	99.4	99.8	97.2	99.1	99
Video player/recorder	88.9	90.1	87.5	88.9	89.9	88.8	83.5	93.9	89
Microwave	88.7	86.6	86.3	85.5	87.4	85.0	83.2	92.0	87
Stereo system	81.2	79.5	81.2	79.7	83.9	80.5	83.8	88.0	81
Computer None of the above	60.0 0.1	60.8	58.2 0.2	57.8 0.1	60.8	51.7	57.5	73.3	59 0
	0.1		0.2	0.1					
			MARCI	1999	9				
Ceiling fan	34.7	34.7	57.2	45.3	41.8	23.8	91.3	22.6	40
Vacuum cleaner	95.4	96.7	93.4	95.1	94.5	96.4	89.1	95.9	95
Portable fan	69.7	69.3	78.8	67.4	71.5	50.9	54.2	73.2	70
Television	98.9	99.2	98.6	99.6	98.1	98.9	96.9	98.5	98
Video player/recorder	86.9	87.2	85.7	86.6	87.8	85.5	89.6	88.7	86
Microwave	84.6	82.2	81.7	81.1	83.1	80.7	79.9	86.6	82
Stereo system	77.9	76.9	78.1	75.5	80.2	77.1	86.2	85.9	77
Computer None of the above	44.1	46.6	43.3	42.9	46.5	34.5	45.3	61.9	44
	0.1	0.1	0.1						0

.

* estimate is subject to sampling variability too high for most practical purposes
 — nil or rounded to zero (including null cells)

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(a) Northern Territory data refers to mainly urban areas only.

5.18 APPLIANCES IN DWELLINGS, Number plugged-in and ready to use 2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust
			тсі					• • • • • •	
			IEL	EVISIO	N				
Estimate ('000)	4 0 4 4 7	700.0	000.0	007.0	011.0	70.4	00.0		0.000/
One	1 011.7	706.0	600.6	227.8	311.9	76.4	29.6	38.2	3 002.2
Two Three	947.8 380.0	692.0 291.3	558.0 219.1	238.1	273.7 121.4	66.3 29.4	14.7 *5.5	50.9 22.1	2 841.0
Four	380.0 133.0	291.3 107.4	67.3	104.9 31.7	46.3	29.4 12.0	*5.5 *2.0	22.1 8.1	1 173. 407.
Five or more	71.6	49.2	24.4	15.9	40.3 19.2	4.9	*0.3	*3.5	407. 189.:
None	27.3	49.2 25.1	24.4	15.9	19.2	*3.8	*1.6	*1.0	109.
Total dwellings		1 871.0	1 496.9	636.2	782.9	192.8	53.7	123.9	7 728.
Proportion (%)									
One	39.3	37.7	40.1	35.8	39.8	39.6	55.1	30.8	38.8
Two	36.9	37.0	37.3	37.4	35.0	34.4	27.4	41.1	36.8
Three	14.8	15.6	14.6	16.5	15.5	15.3	*10.2	17.9	15.
Four	5.2	5.7	4.5	5.0	5.9	6.2	*3.7	6.5	5.
Five or more	2.8	2.6	1.6	2.5	2.4	2.5	*0.5	*2.8	2.
None	1.1	1.3	1.8	2.8	1.3	*1.9	*3.0	*0.8	1.
• • • • • • • • • • • • •	• • • • • • •	VID	EO PLAY	'ER / RI	ECORDE	R		• • • • • •	
Estimate ('000)		=	<u> </u>	0					
One	1 538.5	1 152.4	895.5	379.8	456.8	119.4	28.1	75.0	4 645.
Two	432.1	295.6	239.3	115.5	141.3	30.4	*4.4	23.2	1 281.
Three	90.5	58.7	39.0	16.7	27.0	7.6	*1.5	*4.1	245.
Four	17.1	*11.4	*6.4	*2.7	*6.8	*1.7	*0.3	*0.4	46.
Five or more	*10.0	*3.2	*0.6	*2.6	*4.2	*1.1		*0.2	22.
None Total dwellings	109.9 2 198.1	70.5 1 591.8	74.8 1 255.5	30.0 547.4	26.1 662.3	6.7 166.9	*3.5 37.8	5.6 108.6	327. 6 568.
Proportion (%)									
One	70.0	72.4	71.3	69.4	69.0	71.5	74.4	69.1	70.
Two	19.7	18.6	19.1	21.1	21.3	18.2	*11.8	21.4	19.
Three	4.1	3.7	3.1	3.1	4.1	4.5	*4.0	*3.8	3.
Four	0.8	*0.7	*0.5	*0.5	*1.0	*1.0	*0.8	*0.4	0.
Five or more	*0.5	*0.2	*	*0.5	*0.6	*0.6	_	*0.2	0.
None	5.0	4.4	6.0	5.5	3.9	4.0	*9.1	5.2	5.
	• • • • • • •	٧D	D PLAYE	FR / RF	CORDEE	? ?		• • • • • •	
		2.		,	0011021				
Estimate ('000) One	1 390.2	1 013.7	832.5	328.9	425.9	99.9	33.3	72.3	4 196.
Two	1 390.2 311.7	242.9	832.5 173.9	328.9 72.5	425.9 105.4	99.9 17.7	33.3 *5.3	12.3	4 196. 948.
Three	73.6	242.9 49.4	36.9	13.3	105.4 22.6	*4.2	*5.3 *1.6	19.3 *2.1	948. 203.
_	*15.9	49.4 13.7	*8.0	*3.7	*5.4	*0.8		*0.7	203. 48.
Four Five or more	*15.9 *12.7	*4.9	*8.0 *1.3	*4.7	*5.4 *2.1	*0.8	*0.3	×0.7	48. 26.
None	72.4	4.9	51.5	25.2	18.3	6.2	*3.0	*3.4	20.
Total dwellings	1 876.6	43.8 1 370.4	1 104.1	448.4	579.7	129.0	43.5	97.8	5 649.
Proportion (%)									
One	74.1	74.0	75.4	73.4	73.5	77.5	76.5	73.9	74.
Two	16.6	17.7	15.8	16.2	18.2	13.7	*12.2	19.7	16.
Three	3.9	3.6	3.3	3.0	3.9	*3.3	*3.8	*2.2	3.
Four	*0.8	1.0	*0.7	*0.8	*0.9	*0.6	_	*0.7	0.
Five or more	*0.7	*0.4	*0.1	*1.0	*0.4	*0.1	*0.7	_	0.
None	3.9	3.3	4.7	5.6	3.2	4.8	*6.9	*3.4	4.
estimate is subject	ct to samplin	g variability	too high for	(a)	Northern T	erritory data	a refers to n	nainly urba	n areas
most practical pu		,	5		only.	,			
 nil or rounded to : 					2				

- nil or rounded to zero (including null cells)



APPLIANCES IN DWELLINGS, Number plugged-in and ready to use-2005

.

Toportion (%) One 96.7 97.5 95.0 94.8 96.7 94.9 93.3 97.6 96.7 Two 1.7 1.1 2.0 1.1 2.0 *1.3 *0.9 *2.1 1.1 Three *- - - - - - - - - - * - </th <th></th> <th>NSW</th> <th>Vic.</th> <th>Qld</th> <th>SA</th> <th>WA</th> <th>Tas.</th> <th>NT(a)</th> <th>ACT</th> <th>Aust</th>		NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust
One 2 298.8 1 663.4 1 307.7 544.4 707.6 170.7 43.8 11.45 6 851.4 Three *0.8 - *0.7 *0.3 *1.0 *0.2 -<									• • • • • •	• • • • • •
One 2 298.8 1 663.4 1 307.7 544.4 707.6 170.7 43.8 11.45 6 851.4 Three *0.8 - *0.7 *0.3 *1.0 *0.2 -<	stimate ('000)									
Two 40.6 19.6 28.2 6.2 14.3 +2.3 *0.4 *2.5 114. Three *0.7 *0.3 *1.0 *0.2 - - *3.3 *0.4 - - *3.5 None 34.8 21.1 37.5 20.1 *9.0 61.1 *2.7 *0.4 - - *4.9 117.3 7110. Proportion (%) One 96.7 97.5 95.0 94.8 96.7 94.9 93.3 97.6 96.7 One 1.7 1.1 2.0 1.1 2.0 *1.3 *0.9 *2.1 1.1 Three * -		2 299.8	1 663.4	1.307.7	544.4	707.6	170.7	43.8	114.5	6 851.9
Three *0.8 - *0.7 *0.3 *1.0 *0.2 - + - + - + - + - + - + -										
Four -										
Five or more *2.1 *1.2 *2.7 *3.3 *0.4 *9.0 None 34.8 21.1 375.5 20.1 *9.0 6.1 *2.7 *0.4 131. Total dwellings 2378.1 1 705.3 1 376.8 574.4 731.9 173.8 46.9 117.3 7 110. Torportion (%)			_					_		
None 34.8 21.1 37.5 20.1 *9.0 6.1 *2.7 *0.4 131. Total dwellings 2 378.1 1 705.3 1 376.8 574.4 731.9 179.8 46.9 117.3 7 110. Proportion (%) One 96.7 97.5 95.0 94.8 96.7 94.9 93.3 97.6 96.7 Two 1.7 1.1 2.0 1.1 2.0 *1.3 *0.9 93.3 97.6 96.7 Three * - - 0.1 *0.1 *0.1 *0.1 -			+1.0					_	_	
Total dwellings 2 378.1 1 705.3 1 376.8 574.4 731.9 179.8 46.9 117.3 7 110. Proportion (%) 0ne 96.7 97.5 95.0 94.8 96.7 94.9 93.3 97.6 96.7 Two 1.7 1.1 2.0 1.1 2.0 *1.3 *0.9 *2.1 1.1 Three * -0 *0.0 Five or more *0.1 *0.1 *0.2 *0.6 *0.2 *0.0 None 1.5 1.2 2.7 3.5 *1.2 3.4 *5.8 *0.3 1.1 Two 294.0 210.6 24.6 75.7 107.5 25.7 *3.8 16.3 938.8 Three 93.1 66.6 45.1 26.3 37.9 10.4 *1.0 7.3 287. Four 29.4 19.4 12.7										
Arroportion (%) One 96.7 97.5 95.0 94.8 96.7 94.9 93.3 97.6 96.6 Two 1.7 1.1 2.0 1.1 20.1 *1.3 *0.9 *2.1 1.1 Three *- - *0.1 *0.1 *0.1 - - * * - * * * 1.1 * 3.1 * * - * - * - * - * - * - * * *										
One 96.7 97.5 95.0 94.8 96.7 94.9 93.3 97.6 96.7 Two 1.7 1.1 2.0 1.1 2.0 *1.3 *0.0 *2.1 1.1 Three *_ - *0.1 *0.1 *0.1 - - * Four - - - - - - - - * - * - * - * * 0.0 * 10.1	Total dwellings	2 378.1	1 705.3	1 376.8	574.4	731.9	179.8	46.9	117.3	7 110.5
Two 1.7 1.1 2.0 1.1 2.0 *1.3 *0.9 *2.1 1.1 Three *- - *0.1 *0.1 *0.1 *0.1 *0.1 *0.1 *0.1 *0.1 *0.1 *0.1 *0.1 *0.1 *0.2 - - - - - - - *0.0 None 1.5 1.2 2.7 3.5 *1.2 3.4 *5.8 *0.3 1.1 Stimate (000) One 1 456.7 1 079.2 872.2 352.2 467.2 106.8 34.0 74.8 4 443. Two 294.0 210.6 204.6 75.7 107.5 25.7 *3.8 16.3 938. Three 93.1 66.6 45.1 26.3 37.9 10.4 *1.1 7.3 287. Four 294.194.12.7 *5.8 *3.7 *4.2 *2.1 *0.9 *0.2 35. None 110.3 64.6<										
Three * *0.1 *0.1 *0.1 *0.1 * *	One	96.7	97.5	95.0	94.8	96.7	94.9	93.3	97.6	96.4
Four	Two	1.7	1.1	2.0	1.1	2.0	*1.3	*0.9	*2.1	1.6
Five or more *0.1 *0.1 *0.2 *0.6 *0.2 *0. None 1.5 1.2 2.7 3.5 *1.2 3.4 *5.8 *0.3 1.1 STEREO SYSTEM Stimate ('000) One 1 456.7 1079.2 872.2 352.2 467.2 106.8 34.0 74.8 4 43.8 Two 294.0 210.6 204.6 75.7 107.5 25.7 *3.8 16.3 938. Four 29.4 19.4 12.7 *5.4 13.6 *1.4 *1.8 83. Four 29.4 19.4 12.7 *5.4 13.6 *1.4 *1.8 83. None 110.3 64.6 66.5 40.0 20.4 11.0 *3.9 3.0 319.7 Total dwellings 1 997.5 1 445.1 1 206.9 503.3 650.8 157.4 43.6 103.4 6 107.7 Two 14.7 14.6 17.0 15.	Three	*	_	*0.1	*0.1	*0.1	*0.1	_	_	*
None 1.5 1.2 2.7 3.5 *1.2 3.4 *5.8 *0.3 1.1 STEREO SYSTEM Stimate ('000) One 1.456.7 1.079.2 872.2 352.2 467.2 106.8 34.0 74.8 4 443. Two 2.94.0 210.6 204.6 75.7 107.5 25.7 *3.8 16.3 938. Three 93.1 66.6 45.1 26.3 37.9 10.4 *1.0 7.3 287. Four 2.9.4 19.4 12.7 *5.4 13.6 *1.4 - *1.8 83. Five or more *14.0 *4.7 *5.8 *3.7 *4.2 *2.1 *0.9 3.0 319. Total dwellings 1997.5 1445.1 1206.9 503.3 650.8 157.4 43.6 103.4 6103.4 6103.4 6103.4 6103.4 6107.4 72.9 71.7 70.0 71.8 67.8 7	Four	_	_	_	_	_	_	_	_	_
None 1.5 1.2 2.7 3.5 *1.2 3.4 *5.8 *0.3 1.1 STEREO SYSTEM Stimate (000) One 1.456.7 1.079.2 872.2 352.2 467.2 106.8 34.0 74.8 4 443. Two 2.94.0 210.6 204.6 75.7 107.5 25.7 *3.8 16.3 938. Three 93.1 66.6 45.1 26.3 37.9 10.4 *1.0 7.3 287. Four 2.9.4 19.4 12.7 *5.4 13.6 *1.4 - *1.8 83. Five or more *14.0 *4.7 *5.8 *3.7 *4.2 *2.1 *0.9 3.0 319. Total dwellings 1997.5 1445.1 1206.9 503.3 650.8 157.4 43.6 103.4 6103.4 6103.4 6103.4 6103.4 6107.4 Two 14.7 14.6 3.7.0 71.8<	Five or more	*0.1	*0.1	*0.2	*0.6	_	*0.2	_	_	*0.1
STEREO SYSTEM stimate ('000) One 1456.7 1079.2 872.2 352.2 467.2 106.8 34.0 74.8 4443. Two 294.0 21.6 204.6 75.7 107.5 25.7 *3.8 16.3 938. Three 93.1 66.6 45.1 26.3 37.9 10.4 1.0 7.3 287. Four 29.4 19.4 12.7 *5.4 13.6 *1.4 - *1.8 83. Five or more *14.0 *4.7 *5.8 *3.7 *4.2 *2.1 *0.9 *0.2 35.0 None 110.3 64.6 66.5 40.0 20.4 11.0 *3.0 31.9 Total dwellings 1997.5 1445.1 1206.9 503.8 657.8 78.1 72.4 72.4 Two 14.7 14.6 17.0 15.0 16.5 16.3 *8.6 15.8 15.5 <			1.2	2.7	3.5	*1.2		*5.8	*0.3	1.9
stimate ('000) 0ne 1 456.7 1 079.2 872.2 352.2 467.2 106.8 34.0 74.8 4 443. Two 294.0 210.6 204.6 75.7 107.5 25.7 *3.8 16.3 938. Three 93.1 66.6 45.1 26.3 37.9 10.4 *1.0 7.3 287. Four 29.4 19.4 12.7 *5.4 13.6 *1.4 - *1.8 83. Five or more *14.0 *4.7 *5.8 *3.7 *4.2 *2.1 *0.9 *0.2 35. None 110.3 64.6 66.5 40.0 20.4 11.0 *3.9 3.0 319. Total dwellings 1 997.5 1 445.1 1 206.9 503.3 650.8 157.4 43.6 103.4 6 107. Two 14.7 14.6 17.0 15.0 16.5 16.3 *8.6 15.8 15. Three 4.7 4.6 3.7 5.2 5.8 6.6 *2.2 7.1 4.										
One 1 456.7 1 079.2 872.2 352.2 467.2 106.8 34.0 74.8 4 443. Two 294.0 210.6 204.6 75.7 107.5 25.7 *3.8 16.3 938. Three 93.1 66.6 45.1 26.3 37.9 10.4 *1.0 7.3 287. Four 29.4 19.4 12.7 *5.4 13.6 *1.4 - *1.8 83. Five or more *14.0 *4.7 *5.8 *3.7 *4.2 *2.1 *0.9 *0.2 35. None 10.3 64.6 66.5 40.0 20.4 11.0 *3.9 3.0 319. Total dwellings 1 97.5 1 445.1 1 206.9 503.3 650.8 157.4 43.6 103.4 6 107. Toportion (%) One 72.9 74.7 72.3 70.0 71.8 67.8 78.1 72.4 72. Two 14.7 <				STERE	O SYST	ΕM				
One 1 456.7 1 079.2 872.2 352.2 467.2 106.8 34.0 74.8 4 443. Two 294.0 210.6 204.6 75.7 107.5 25.7 *3.8 16.3 938. Three 93.1 66.6 45.1 26.3 37.9 10.4 *1.0 7.3 287. Four 29.4 19.4 12.7 *5.4 13.6 *1.4 - *1.8 83. Five or more *14.0 *4.7 *5.8 *3.7 *4.2 *2.1 *0.9 *0.2 35. None 10.3 64.6 66.5 40.0 20.4 11.0 *3.9 3.0 319. Total dwellings 1 97.5 1 445.1 1 206.9 503.3 650.8 157.4 43.6 103.4 6 107. Toportion (%) One 72.9 74.7 72.3 70.0 71.8 67.8 78.1 72.4 72. Two 14.7 <	stimate ('000)									
Two 294.0 210.6 204.6 75.7 107.5 25.7 *3.8 16.3 938. Three 93.1 66.6 45.1 26.3 37.9 10.4 *1.0 7.3 287. Four 29.4 19.4 12.7 *5.4 13.6 *1.4 - *1.8 83. Five or more *14.0 *4.7 *5.8 *3.7 *4.2 *2.1 *0.9 *0.2 33.0 319. Total dwellings 1997.5 1445.1 1206.9 503.3 650.8 157.4 43.6 103.4 6 107. Proportion (%) 0 - 74.7 72.3 70.0 71.8 67.8 78.1 72.4 72. Two 14.7 14.6 3.7 5.2 5.8 6.6 *2.2 7.1 4.4 Four 1.5 1.3 1.1 *1.1 2.1 *0.9		1 456.7	1 079.2	872.2	352.2	467.2	106.8	34.0	74.8	4 443.1
Three 93.1 66.6 45.1 26.3 37.9 10.4 *1.0 7.3 287. Four 29.4 19.4 12.7 *5.4 13.6 *1.4 - *1.8 83. Five or more *14.0 *4.7 *5.8 *3.7 *4.2 *2.1 *0.9 *0.2 35. None 110.3 64.6 66.5 40.0 20.4 11.0 *3.9 3.0 319. Total dwellings 1 997.5 1 445.1 1 206.9 503.3 650.8 157.4 43.6 103.4 6 107. Proportion (%) 10.5 16.5 16.3 *8.6 15.8 15. Three 4.7 4.6 3.7 5.2 5.8 6.6 *2.2 7.1 4.4 Four 1.5 1.3 1.1 *1.1 2.1 *0.9 - *1.8 1.5 Four 1.5 1.3 1.1										
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Five or more *14.0 *4.7 *5.8 *3.7 *4.2 *2.1 *0.9 *0.2 35. None 110.3 64.6 66.5 40.0 20.4 11.0 *3.9 3.0 319.7 Total dwellings 1 997.5 1 445.1 1 206.9 503.3 650.8 157.4 43.6 103.4 6 107.7 Troportion (%) One 72.9 74.7 72.3 70.0 71.8 67.8 78.1 72.4 72.7 Two 14.7 14.6 17.0 15.0 16.5 16.3 *8.6 15.8 15.5 Three 4.7 4.6 3.7 5.2 5.8 6.6 *2.2 7.1 4.4 Four 1.5 1.3 1.1 *1.1 2.1 *0.9 *1.8 1.1 Fiver or more *0.7 *0.3 *0.5 *0.7 *0.6 *1.3 *2.0 *0.2 90.5 COMPUTER *2.0										
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Two 14.7 14.6 17.0 15.0 16.5 16.3 *8.6 15.8 15.7 Three 4.7 4.6 3.7 5.2 5.8 6.6 *2.2 7.1 4. Four 1.5 1.3 1.1 *1.1 2.1 *0.9 *1.8 1. Fiver or more *0.7 *0.3 *0.5 *0.7 *0.6 *1.3 *2.0 *0.2 0.0 None 5.5 4.5 5.5 7.9 3.1 7.0 *9.0 2.9 5. COMPUTER stimate ('000) One 1 255.1 962.5 779.7 300.5 409.2 98.2 29.0 71.3 3 905.7 Two 287.7 176.8 161.3 59.4 82.0 11.9 *3.4 18.5 800.7 Three 62.3 36.0 31.4 11.2 21.2 *2.8 *0.7 5.0 170.7 Four 19.1 14.7 *5.3 *2.2 *5.7 *1.1 *0.3	roportion (%)									
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Four 1.5 1.3 1.1 *1.1 2.1 *0.9 *1.8 1. Fiver or more *0.7 *0.3 *0.5 *0.7 *0.6 *1.3 *2.0 *0.2 0.0 None 5.5 4.5 5.5 7.9 3.1 7.0 *9.0 2.9 5.5 COMPUTER COMPUTER Stimate ('000) One 1 255.1 962.5 779.7 300.5 409.2 98.2 29.0 71.3 3 905.7 Two 287.7 176.8 161.3 59.4 82.0 11.9 *3.4 18.5 800.7 Three 62.3 36.0 31.4 11.2 21.2 *2.8 *0.7 5.0 170.7 Four 19.1 14.7 *5.3 *2.2 *5.7 *1.1 *0.3 *1.3 49.7 Five or more 21.4 *6.6 *7.7 *5.4 *4.2 *1.3 *0.3 *0.4 47.7 None 113.9 70.2 72.2 <t< td=""><td>Two</td><td>14.7</td><td>14.6</td><td>17.0</td><td>15.0</td><td>16.5</td><td>16.3</td><td>*8.6</td><td>15.8</td><td>15.4</td></t<>	Two	14.7	14.6	17.0	15.0	16.5	16.3	*8.6	15.8	15.4
Four 1.5 1.3 1.1 *1.1 2.1 *0.9 *1.8 1.4 Fiver or more *0.7 *0.3 *0.5 *0.7 *0.6 *1.3 *2.0 *0.2 0.0 None 5.5 4.5 5.5 7.9 3.1 7.0 *9.0 2.9 5.5 COMPUTER COMPUTER Stimate ('000) One 1 255.1 962.5 779.7 300.5 409.2 98.2 29.0 71.3 3 905.7 Two 287.7 176.8 161.3 59.4 82.0 11.9 *3.4 18.5 800.7 Three 62.3 36.0 31.4 11.2 21.2 *2.8 *0.7 5.0 170.7 Four 19.1 14.7 *5.3 *2.2 *5.7 *1.1 *0.3 *1.3 49.7 Five or more 21.4 *6.6 *7.7 *5.4 *4.2 *1.3 *0.3 *0.4 47.2 None 113.9 70.2 72.2 <	Three	4.7	4.6	3.7	5.2	5.8	6.6	*2.2	7.1	4.7
Fiver or more *0.7 *0.3 *0.5 *0.7 *0.6 *1.3 *2.0 *0.2 0.0 None 5.5 4.5 5.5 7.9 3.1 7.0 *9.0 2.9 5.5 COMPUTER COMPUTER Stimate ('000) One 1 255.1 962.5 779.7 300.5 409.2 98.2 29.0 71.3 3 905.4 Two 287.7 176.8 161.3 59.4 82.0 11.9 *3.4 18.5 800.7 Three 62.3 36.0 31.4 11.2 21.2 *2.8 *0.7 5.0 170.7 Four 19.1 14.7 *5.3 *2.2 *5.7 *1.1 *0.3 *1.3 49.7 Five or more 21.4 *6.6 *7.7 *5.4 *4.2 *1.3 *0.3 *0.4 47.7 None 113.9 70.2 72.2 41.7 29.0 10.4 <		1.5		1.1	*1.1			_	*1.8	1.4
None 5.5 4.5 5.5 7.9 3.1 7.0 *9.0 2.9 5.5 COMPUTER COMPUTER Estimate ('000) One 1 255.1 962.5 779.7 300.5 409.2 98.2 29.0 71.3 3 905.7 Two 287.7 176.8 161.3 59.4 82.0 11.9 *3.4 18.5 800.7 Three 62.3 36.0 31.4 11.2 21.2 *2.8 *0.7 5.0 170.7 Four 19.1 14.7 *5.3 *2.2 *5.7 *1.1 *0.3 *1.3 49.7 Five or more 21.4 *6.6 *7.7 *5.4 *4.2 *1.3 *0.3 *0.4 47.7 None 113.9 70.2 72.2 41.7 29.0 10.4 *4.0 *2.6 344.7 Total dwellings 1759.5 1266.8 1057.6 420.4 551.3 125.8<										
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stimate ('000) One 1 255.1 962.5 779.7 300.5 409.2 98.2 29.0 71.3 3 905.4 Two 287.7 176.8 161.3 59.4 82.0 11.9 *3.4 18.5 800.7 Three 62.3 36.0 31.4 11.2 21.2 *2.8 *0.7 5.0 170.7 Four 19.1 14.7 *5.3 *2.2 *5.7 *1.1 *0.3 *1.3 49.7 Five or more 21.4 *6.6 *7.7 *5.4 *4.2 *1.3 *0.3 *0.4 47.7 None 113.9 70.2 72.2 41.7 29.0 10.4 *4.0 *2.6 344.7 Total dwellings 1 759.5 1 266.8 1 057.6 420.4 551.3 125.8 37.7 99.1 5 318.7 roportion (%) Image: State										
One 1 255.1 962.5 779.7 300.5 409.2 98.2 29.0 71.3 3 95.4 Two 287.7 176.8 161.3 59.4 82.0 11.9 *3.4 18.5 800.7 Three 62.3 36.0 31.4 11.2 21.2 *2.8 *0.7 5.0 170.7 Four 19.1 14.7 *5.3 *2.2 *5.7 *1.1 *0.3 *1.3 49.7 Five or more 21.4 *6.6 *7.7 *5.4 *4.2 *1.3 *0.3 *0.4 47.7 None 113.9 70.2 72.2 41.7 29.0 10.4 *4.0 *2.6 344. Total dwellings 1 759.5 1 266.8 1 057.6 420.4 551.3 125.8 37.7 99.1 5 318. Proportion (%) One 71.3 76.0 73.7 71.5 74.2 78.1 76.9 72.0 73.4 Two 16.4				CO	MPUTER	2				
Two287.7176.8161.359.482.011.9*3.418.5800.Three62.336.031.411.221.2*2.8*0.75.0170.Four19.114.7*5.3*2.2*5.7*1.1*0.3*1.349.Five or more21.4*6.6*7.7*5.4*4.2*1.3*0.3*0.447.None113.970.272.241.729.010.4*4.0*2.6344.Total dwellings1759.51 266.81 057.6420.4551.3125.837.799.15 318.roportion (%)One71.376.073.771.574.278.176.972.073.Two16.414.015.214.114.99.5*9.118.615.Three3.52.83.02.73.82.3*1.95.03.Four1.11.2*0.5*0.5*1.0*0.9*0.7*1.30.4Five or more1.2*0.5*0.7*1.3*0.8*1.0*0.8*0.40.4	stimate ('000)									
Three 62.3 36.0 31.4 11.2 21.2 *2.8 *0.7 5.0 170. Four 19.1 14.7 *5.3 *2.2 *5.7 *1.1 *0.3 *1.3 49. Five or more 21.4 *6.6 *7.7 *5.4 *4.2 *1.3 *0.3 *0.4 47. None 113.9 70.2 72.2 41.7 29.0 10.4 *4.0 *2.6 344. Total dwellings 1759.5 1266.8 1057.6 420.4 551.3 125.8 37.7 99.1 5 318. Proportion (%) 0ne 71.3 76.0 73.7 71.5 74.2 78.1 76.9 72.0 73. Two 16.4 14.0 15.2 14.1 14.9 9.5 *9.1 18.6 15. Three 3.5 2.8 3.0 2.7 3.8 2.3 *1.9 5.0 3.1 Four 1.1 1.2 <t< td=""><td>One</td><td>1 255.1</td><td>962.5</td><td>779.7</td><td>300.5</td><td>409.2</td><td>98.2</td><td>29.0</td><td>71.3</td><td>3 905.6</td></t<>	One	1 255.1	962.5	779.7	300.5	409.2	98.2	29.0	71.3	3 905.6
Three 62.3 36.0 31.4 11.2 21.2 *2.8 *0.7 5.0 170. Four 19.1 14.7 *5.3 *2.2 *5.7 *1.1 *0.3 *1.3 49. Five or more 21.4 *6.6 *7.7 *5.4 *4.2 *1.3 *0.3 *0.4 47. None 113.9 70.2 72.2 41.7 29.0 10.4 *4.0 *2.6 344. Total dwellings 1759.5 1266.8 1057.6 420.4 551.3 125.8 37.7 99.1 5 318. Proportion (%) 71.3 76.0 73.7 71.5 74.2 78.1 76.9 72.0 73. Two 16.4 14.0 15.2 14.1 14.9 9.5 *9.1 18.6 15. Three 3.5 2.8 3.0 2.7 3.8 2.3 *1.9 5.0 3.3 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>800.9</td></td<>										800.9
Four 19.1 14.7 *5.3 *2.2 *5.7 *1.1 *0.3 *1.3 49. Five or more 21.4 *6.6 *7.7 *5.4 *4.2 *1.3 *0.3 *0.4 47. None 113.9 70.2 72.2 41.7 29.0 10.4 *4.0 *2.6 344. Total dwellings 1 759.5 1 266.8 1 057.6 420.4 551.3 125.8 37.7 99.1 5 318. Proportion (%) One 71.3 76.0 73.7 71.5 74.2 78.1 76.9 72.0 73. Two 16.4 14.0 15.2 14.1 14.9 9.5 *9.1 18.6 15. Three 3.5 2.8 3.0 2.7 3.8 2.3 *1.9 5.0 3.3 Four 1.1 1.2 *0.5 *0.5 *1.0 *0.9 *0.7 *1.3 0.4 Five or more 1.2 *0.5										170.7
Five or more 21.4 *6.6 *7.7 *5.4 *4.2 *1.3 *0.3 *0.4 47. None 113.9 70.2 72.2 41.7 29.0 10.4 *4.0 *2.6 344. Total dwellings 1 759.5 1 266.8 1 057.6 420.4 551.3 125.8 37.7 99.1 5 318. Proportion (%) One 71.3 76.0 73.7 71.5 74.2 78.1 76.9 72.0 73. Two 16.4 14.0 15.2 14.1 14.9 9.5 *9.1 18.6 15. Three 3.5 2.8 3.0 2.7 3.8 2.3 *1.9 5.0 3.3 Four 1.1 1.2 *0.5 *0.5 *1.0 *0.9 *0.7 *1.3 0.4										
None 113.9 70.2 72.2 41.7 29.0 10.4 *4.0 *2.6 344. Total dwellings 1 759.5 1 266.8 1 057.6 420.4 551.3 125.8 37.7 99.1 5 318. Proportion (%)										
Total dwellings1 759.51 266.81 057.6420.4551.3125.837.799.15 318.Proportion (%)One71.376.073.771.574.278.176.972.073.Two16.414.015.214.114.99.5*9.118.615.Three3.52.83.02.73.82.3*1.95.03.Four1.11.2*0.5*0.5*1.0*0.9*0.7*1.30.Five or more1.2*0.5*0.7*1.3*0.8*1.0*0.8*0.40.										
Proportion (%) One 71.3 76.0 73.7 71.5 74.2 78.1 76.9 72.0 73. Two 16.4 14.0 15.2 14.1 14.9 9.5 *9.1 18.6 15. Three 3.5 2.8 3.0 2.7 3.8 2.3 *1.9 5.0 3. Four 1.1 1.2 *0.5 *0.5 *1.0 *0.9 *0.7 *1.3 0.4 Five or more 1.2 *0.5 *0.7 *1.3 *0.8 *1.0 *0.8 *0.4 0.4										
One 71.3 76.0 73.7 71.5 74.2 78.1 76.9 72.0 73.7 Two 16.4 14.0 15.2 14.1 14.9 9.5 *9.1 18.6 15. Three 3.5 2.8 3.0 2.7 3.8 2.3 *1.9 5.0 3. Four 1.1 1.2 *0.5 *0.5 *1.0 *0.9 *0.7 *1.3 0. Five or more 1.2 *0.5 *0.7 *1.3 *0.8 *1.0 *0.8 *0.4 0.1	0	т 759.5	⊥ 200.8	T 037.0	420.4	551.3	125.8	31.1	99.I	5 318.3
Two16.414.015.214.114.99.5*9.118.615.Three3.52.83.02.73.82.3*1.95.03.5Four1.11.2*0.5*0.5*1.0*0.9*0.7*1.30.1Five or more1.2*0.5*0.7*1.3*0.8*1.0*0.8*0.40.1	• • •	74.0	70.0	70 7	74 -	74.0	70 4	76.0	70.0	70
Three 3.5 2.8 3.0 2.7 3.8 2.3 *1.9 5.0 3.5 Four 1.1 1.2 *0.5 *0.5 *1.0 *0.9 *0.7 *1.3 0.7 Five or more 1.2 *0.5 *0.7 *1.3 *0.8 *1.0 *0.8 *0.4 0.7										
Four1.11.2*0.5*0.5*1.0*0.9*0.7*1.30.1Five or more1.2*0.5*0.7*1.3*0.8*1.0*0.8*0.40.1										
Five or more 1.2 *0.5 *0.7 *1.3 *0.8 *1.0 *0.8 *0.4 0.4				3.0	2.7		2.3	*1.9		3.2
	Four	1.1	1.2	*0.5	*0.5	*1.0	*0.9	*0.7	*1.3	0.9
	Five or more	1.2	*0.5	*0.7	*1.3	*0.8	*1.0	*0.8	*0.4	0.9
										6.5

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most practical purposes

only.

— nil or rounded to zero (including null cells)

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5.18

APPLIANCES IN DWELLINGS, Number plugged-in and ready to use-2005

	NSW	Vic.	Qld	SA	WA	Tas.	NT(a)	ACT	Aust
	• • • • • • • •	• • • • • • •		•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •
			WA	TERBED					
stimate ('000)									
One	69.6	37.5	68.7	21.1	12.9	4.8	*1.3	5.3	221.3
Two	*6.3	*1.2	*5.1	*2.1	*0.6	*0.2	—	*1.2	16.
Three	_	_	_	_	_	*0.2	_	*0.4	*0.0
Four	_	_	*0.7	_	_	_	_	*0.2	*0.9
Five or more	_	—	*0.6	—	—	—	—	—	*0.
None	*5.1	*2.4	*3.9	*1.7	*1.2	*0.4	*1.2	*0.4	16.
Total dwellings	80.9	41.1	79.0	25.0	14.7	5.6	2.6	7.5	256.
oportion (%)									
One	86.0	91.2	87.0	84.5	87.8	86.1	*51.5	70.4	86.3
Two	*7.7	*2.9	*6.5	*8.5	*3.8	*3.9	_	*16.2	6.
Three	_	_	_	_	_	*3.5	_	*5.2	*0.:
Four	_	_	*0.9	_	_	_	_	*2.7	*0.3
Five or more	_	_	*0.8	_	_	_	_	_	*0.
None	*6.2	*5.9	*4.9	*6.9	*8.4	*6.5	*48.5	*5.4	6.
	GAMES							• • • • • •	• • • • • •
stimate ('000)	GAMES								
s timate (' 000) One	GAMES 612.1							28.7	1 789.8
		CONSOL	_E (E.G.	PLAYS	TATION,	ХВОХ	ETC.)		
One	612.1	CONSOI 421.2	E (E.G. 354.9	PLAYS 125.3	TATION, 186.2	XBOX 45.4	ETC.) 15.9	28.7	1 789.8 211.4
One Two	612.1 71.2	CONSOL 421.2 48.0	E (E.G. 354.9 46.1	PLAYS 125.3 11.2	TATION, 186.2 26.7	XBOX 45.4 *3.3	ETC.) 15.9 *0.2	28.7 4.8	1 789. 211. 43.
One Two Three	612.1 71.2 *12.6	421.2 48.0 *10.9	E (E.G. 354.9 46.1 *7.3	PLAYS 125.3 11.2 *3.9	TATION, 186.2 26.7 *5.9	XBOX 45.4 *3.3 *1.0	ETC.) 15.9 *0.2 *0.3	28.7 4.8 *1.1	1 789. 211. 43. *7.
One Two Three Four	612.1 71.2 *12.6 *2.2	421.2 48.0 *10.9 *3.0	E (E.G. 354.9 46.1 *7.3 *0.7	PLAYS 125.3 11.2 *3.9 —	186.2 26.7 *5.9 *0.8	45.4 *3.3 *1.0	ETC.) 15.9 *0.2 *0.3 *0.3	28.7 4.8 *1.1 *0.2	1 789.8 211 43 *7.: *9
One Two Three Four Five or more	612.1 71.2 *12.6 *2.2 *2.5	421.2 48.0 *10.9 *3.0 *0.8	E (E.G. 354.9 46.1 *7.3 *0.7 *0.7	PLAYS 125.3 11.2 *3.9 *3.5	186.2 26.7 *5.9 *0.8 *1.6	XBOX 45.4 *3.3 *1.0 *0.2	ETC.) 15.9 *0.2 *0.3 *0.3	28.7 4.8 *1.1 *0.2	1 789.8 211.4 43 *7.: *9.4 355.3
Two Three Four Five or more None	612.1 71.2 *12.6 *2.2 *2.5 103.3	421.2 48.0 *10.9 *3.0 *0.8 88.1	E (E.G. 354.9 46.1 *7.3 *0.7 *0.7 75.2	PLAYS 125.3 11.2 *3.9 *3.5 44.6	186.2 26.7 *5.9 *0.8 *1.6 26.7	XBOX 45.4 *3.3 *1.0 *0.2 9.2	ETC.) 15.9 *0.2 *0.3 *0.3 *0.3 *2.8	28.7 4.8 *1.1 *0.2 5.3	1 789.8 211.4 43 *7.: *9.4 355.3
One Two Three Four Five or more None Total dwellings	612.1 71.2 *12.6 *2.2 *2.5 103.3	421.2 48.0 *10.9 *3.0 *0.8 88.1	E (E.G. 354.9 46.1 *7.3 *0.7 *0.7 75.2	PLAYS 125.3 11.2 *3.9 *3.5 44.6	186.2 26.7 *5.9 *0.8 *1.6 26.7	XBOX 45.4 *3.3 *1.0 *0.2 9.2	ETC.) 15.9 *0.2 *0.3 *0.3 *0.3 *2.8	28.7 4.8 *1.1 *0.2 5.3	1 789. 211. 43. *7. *9. 355. 2 416.
One Two Three Four Five or more None Total dwellings roportion (%)	612.1 71.2 *12.6 *2.2 *2.5 103.3 804.0	421.2 48.0 *10.9 *3.0 *0.8 88.1 572.1	E (E.G. 354.9 46.1 *7.3 *0.7 *0.7 75.2 485.0	PLAYS 125.3 11.2 *3.9 	186.2 26.7 *5.9 *0.8 *1.6 26.7 247.8	XBOX 45.4 *3.3 *1.0 *0.2 9.2 59.1	ETC.) 15.9 *0.2 *0.3 *0.3 *0.3 *2.8 19.5	28.7 4.8 *1.1 *0.2 	1 789. 211. 43. *7. *9. 355. 2 416. 74.
One Two Three Four Five or more None Total dwellings roportion (%) One	612.1 71.2 *12.6 *2.2 *2.5 103.3 804.0 76.1	421.2 48.0 *10.9 *3.0 *0.8 88.1 572.1 73.6	E (E.G. 354.9 46.1 *7.3 *0.7 *0.7 75.2 485.0 73.2	PLAYS 125.3 11.2 *3.9 	TATION, 186.2 26.7 *5.9 *0.8 *1.6 26.7 247.8 75.1	XBOX 45.4 *3.3 *1.0 *0.2 9.2 59.1 76.8	ETC.) 15.9 *0.2 *0.3 *0.3 *0.3 *2.8 19.5 81.4	28.7 4.8 *1.1 *0.2 5.3 40.1 71.5	1 789.8
One Two Three Four Five or more None Total dwellings oportion (%) One Two	612.1 71.2 *12.6 *2.2 *2.5 103.3 804.0 76.1 8.9	421.2 48.0 *10.9 *3.0 *0.8 88.1 572.1 73.6 8.4	E (E.G. 354.9 46.1 *7.3 *0.7 *0.7 75.2 485.0 73.2 9.5	PLAYS 125.3 11.2 *3.9 *3.5 44.6 188.6 66.5 5.9	TATION, 186.2 26.7 *5.9 *0.8 *1.6 26.7 247.8 75.1 10.8	XBOX 45.4 *3.3 *1.0 *0.2 9.2 59.1 76.8 *5.6	ETC.) 15.9 *0.2 *0.3 *0.3 *2.8 19.5 81.4 *1.0	28.7 4.8 *1.1 *0.2 	1 789. 211. 43. *7. *9. 355. 2 416. 74. 8.
One Two Three Four Five or more None Total dwellings oportion (%) One Two Three	612.1 71.2 *12.6 *2.2 *2.5 103.3 804.0 76.1 8.9 *1.6	421.2 48.0 *10.9 *3.0 *0.8 88.1 572.1 73.6 8.4 *1.9	E (E.G. 354.9 46.1 *7.3 *0.7 *0.7 75.2 485.0 73.2 9.5 *1.5	PLAYS 125.3 11.2 *3.9 *3.5 44.6 188.6 66.5 5.9 *2.1	TATION, 186.2 26.7 *5.9 *0.8 *1.6 26.7 247.8 75.1 10.8 *2.4	XBOX 45.4 *3.3 *1.0 *0.2 9.2 59.1 76.8 *5.6 *1.7	ETC.) 15.9 *0.2 *0.3 *0.3 *2.8 19.5 81.4 *1.0 *1.8	28.7 4.8 *1.1 *0.2 5.3 40.1 71.5 12.0 *2.8	1 789.4 211.4 43. *7 *9. 355.5 2 416. 74 8.4 1.4

most practical purposes

— nil or rounded to zero (including null cells)

only.

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CHAPTER 6

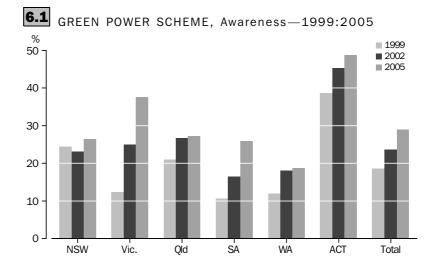
GREEN POWER SCHEME

INTRODUCTION

This chapter looks at the awareness of households of green power scheme and the associated Green Power Product. Tasmania and the Northern Territory had no Green Power Product at the time of the survey, and were thus excluded, although Tasmania makes extensive use of hydro-electricity.

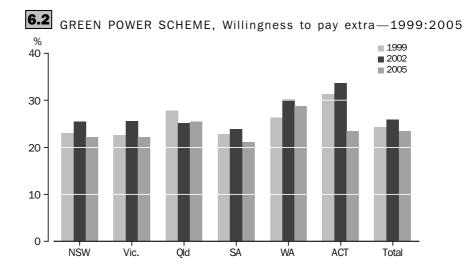
Green power generally refers to the electricity generated from renewable energy resources like solar, wind, biomass, wave and tidal power, hydro-electricity, and geothermal. Green power schemes enable electricity consumers to pay a premium for electricity generated from renewable sources. The scheme has been operating in Australia for the past six years in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Australian Capital Territory. Accreditation for green power is provided by the National Green Power Accreditation Program (NGPAP). As of March 2005, there were 132,262 domestic households belonging to a green power scheme (DEUS 2005c).

GREEN POWER SCHEMEIn March 2005, more than a quarter (29%) of households reported that they were aware
of green power schemes, an increase from 19% in 1999 and from 24% in 2002 (graph
6.1). The Australian Capital Territory, as in 1999 and 2002, had the highest proportion
(49%) of households aware of a green power scheme, and Western Australia (19%) had
the least. Awareness of the scheme by Victorian households more than tripled from 12%
in 1999 to 38% in 2005. In South Australia, awareness of the scheme increased from 11%
to 26% over the same period.



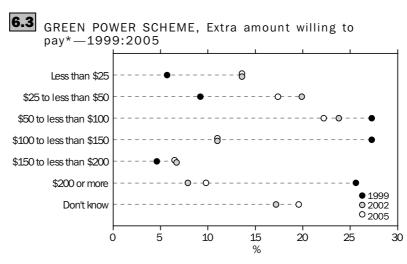
LEVEL OF SUPPORT

Nearly a quarter of all households (23%) were willing to support a green power scheme by paying extra for electricity generated from green power. This was a slight decrease from 2002 (26%) (graph 6.2). Households in Western Australia (29%) had expressed the highest support among participating states, followed by Queensland (25%). Support for the scheme is more apparent in urban areas (25%) than in rural areas (21%) (table 6.6).



Slightly more than half of households which expressed support for the green power scheme in 2005 (53%) were prepared to pay less than \$100 extra per annum for a Green Power Product – a similar occurrence in 2002 (57%), but higher than in 1999 (42%). Over one-fifth of households (22%) in 2005 were prepared to pay between \$50 and \$100 extra, and 17% were prepared to pay between \$25 and \$50 extra (graph 6.3).

The proportion of households prepared to pay an extra \$200 or more has slightly increased from 8% in 2002 to 10% in 2005, mostly attributed to the increase in New South Wales (from 7% in 2002 to 11% in 2005). However, the proportion of households prepared to pay an extra \$200 or more has declined by 16% since 1999.





LEVEL OF SUPPORTTable 6.10 illustrates households that spent more on electricity bills were most likely to
be prepared to pay extra for a Green Power Product than those that spent less on
electricity in 2005. In 2005, around one-third (34%) of households spending over a \$1000
on electricity bills per annum were prepared to pay between \$50 and \$150 extra. One in
two households (54%) spending less than \$250 on electricity bills per annum were
prepared to pay less than \$50 extra for a Green Power Product.

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AWARENESS OF GREEN POWER SCHEME-2005 NSW Vic. Old SA WA ACT(a) Total CAPITAL CITY Estimate ('000) Aware of green power scheme 395.3 204.3 495.1 137.6 119.1 1 412.2 . . Not aware of green power scheme 1 156.4 838.2 483.1 338.5 459.8 3 339.2 . . 54.8 50.0 **1 606.5 1 370.0** 36.8 12.6 Don't know *4.2 *6.9 116.3 . . Total households 699.9 480.3 585.8 4 867.7 . . Proportion (%) Aware of green power scheme 24.6 36.1 29.2 28.7 20.3 29.0 . . Not aware of green power scheme 72.0 61.2 69.0 70.5 78.5 68.6 . . Don't know 3.4 2.7 1.8 *0.9 *1.2 2.4 . BALANCE OF STATE / TERRITORY Estimate ('000) 288.5 226.1 213.1 28.5 Aware of green power scheme 28.7 784.9 . . Not aware of green power scheme 676.0 2.0 16.6 609.8 130.6 173.3 1 893.5 . . Don't know *9.3 *3.7 *1.3 19.4 . . 50.3 Total households 983.9 546.4 832.3 163.1 203.1 2 728.7 . . Proportion (%) Aware of green power scheme 29.3 41.4 25.6 17.6 14.0 28.8 . . Not aware of green power scheme 68.7 55.6 73.3 80.1 85.3 69.4 . . Don't know 2.0 3.0 *1.1 *2.3 *0.7 1.8 . . TOTAL STATE / TERRITORY Estimate ('000) Aware of green power scheme 683.8 721.1 417.4 166.4 147.6 60.9 2 197.2 Not aware of green power scheme 1 832.4 1 142.0 1 092.9 469.1 633.1 5 232.6 63.2 Don't know 74.2 53.3 21.8 *7.9 *8.3 *1.0 166.6 643.4 788.9 125.2 Total households 2 590.4 1 916.4 1 532.1 7 596.4 Proportion (%) Aware of green power scheme 26.4 37.6 27.2 25.9 28.9 18.7 48 7 Not aware of green power scheme 70.7 59.6 71.3 72.9 80.2 50.5 68.9 2.8 *1.2 *1.0 *0.8 Don't know 2.9 1.4 2.2

* estimate is subject to sampling variability too high for most practical purposes

. . not applicable

(a) No regional split between capital city and balance of territory for ACT as the sample does not support any breakdown beyond the whole territory.

Note: Data covers only states and territories that are participating in the National Green Power Accreditation Program.

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6.5	AWARENESS OF GREEN	POWE	ER S	CHEN	1E—1	1999	:200	5	
		NSW	Vic.	Qld	SA	WA	ACT	Total	
		%	%	%	%	%	%	%	
	• • • • • • • • • • • • • • • • • • • •								
	Ν	IARCH	200	5					
	Aware of green power scheme	26.4	37.6	27.2	25.9	18.7	48.7	28.9	
	Not aware of green power scheme	20.4 70.7	59.6	71.3	72.9	80.2	50.5	28.9 68.9	
	Don't know	2.9	2.8	1.4	*1.2	*1.0	*0.8	2.2	
	Λ	1ARCH	200	ຳ • • • • • ົ					
	I.		200	2					
	Aware of green power scheme	23.1	24.9	26.7	16.5	18.0	45.2	23.6	
	Not aware of green power scheme	67.3	66.0	67.3	78.7	76.7	47.7	68.6	
	Don't know	9.6	9.0	6.0	4.9	5.3	7.1	7.8	
	Ν	IARCH	199	9					
	Aware of green power scheme	24.5	12.4	21.0	10.6	12.0	38.6	18.5	
	Not aware of green power scheme	62.9	78.4	68.4	81.8	81.7	55.7	71.3	
	Don't know	12.6	9.2	10.6	7.6	6.4	5.7	10.2	

estimate is subject to sampling variability too high for most practical purposes

Note: Data covers only states and territories that are participating in the National Green Power Accreditation Program.

6.6 WILLINGNESS TO PAY EXTRA PER ANNUM ON GREEN POWER ELECTRICITY—2005

	NSW	Vic.	Qld	SA	WA	ACT(a)	Total
	%	%	%	%	%	%	%
		CAPI	TAL CITY	Y			
Willing to pay extra	23.5	23.5	27.3	21.3	30.6		24.7
Not willing to pay extra	64.2	62.8	62.8	67.9	58.0		63.2
Don't know	12.3	13.8	9.9	10.8	11.4		12.1
	BALAN	CE OF S	TATE /	TERRITO	RY		
Willing to pay extra	20.2	18.9	23.7	20.5	23.7		21.3
Not willing to pay extra	68.9	69.4	62.9	67.7	63.5		66.7
Don't know	10.8	11.7	13.4	11.8	12.8		12.0
	тот	AL STAT	E / TER	RITORY			
Willing to pay extra	22.2	22.2	25.4	21.1	28.8	23.4	23.5
Not willing to pay extra	66.0	64.6	62.8	67.9	59.4	64.1	64.5
Don't know	11.7	13.2	11.8	11.0	11.8	12.5	12.1
not onalizable							

. . not applicable

.

(a) No regional split between capital city and balance of territory for ACT as the sample does not support any breakdown beyond the whole territory.

Note: Only includes respondents who have indicated they are not connected to any Green Power scheme. Data covers only states and territories that are participating in the National Green Power Accreditation Program.

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WILLINGNESS TO PAY EXTRA PER ANNUM ON GREEN POWER 6.7 ELECTRICITY-1999:2005

ELECTRICITY-1999:2005								
	NSW	Vic.	Qld	SA	WA	ACT	Total	
	%	%	%	%	%	%	%	
	• • • • •							
MAF	RCH 2	2005						
Willing to pay extra	22.2	22.2	25.4	21.1	28.8	23.4	23.5	
Not willing to pay extra	66.0	64.6	62.8	67.9	59.4	64.1	64.5	
Don't know	11.7	13.2	11.8	11.0	11.8	12.5	12.1	
• • • • • • • • • • • • • • • • • • • •								
MAF	RCH 2	2002						
Willing to pay extra	25.4	25.6	25.2	23.9	30.1	33.6	25.9	
Not willing to pay extra	60.6	63.3	65.6	62.3	59.3	59.7	62.3	
Don't know	14.0	11.1	9.3	13.8	10.6	6.7	11.8	
MAF	RCH 2	L999						
Willing to pay extra	23.0	22.6	27.8	22.8	26.3	31.3	24.3	
Not willing to pay extra	56.9	56.7	53.1	55.2	55.7	55.7	55.8	
Should not pay extra to green power(a)	5.3	4.2	5.2	4.2	3.1	2.4	4.6	
Don't know	14.8	16.4	13.8	17.9	14.8	10.6	15.2	
(a) Not an option in 2002 and 2005.								

(a) Not an option in 2002 and 2005.

Note: Only includes respondents who have indicated they are not connected to any Green Power scheme. Data covers only states and territories that are participating in the National Green Power Accreditation Program.

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EXTRA AMOUNT WILLING TO PAY PER ANNUM ON GREEN POWER

LECTRICITY-200	05							
	NSW	Vic.	Qld	SA	WA	ACT(a)	Total	
	%	%	%	%	%	%	%	
					• • • • • •	• • • • • • •		
		CAPIT	TAL CITY	, ,				
Less than \$25	15.0	10.6	8.6	9.2	12.7		11.7	
\$25 to less than \$50	18.4	18.6	15.6	20.1	21.0		18.5	
\$50 to less than \$100	17.9	29.1	21.3	21.8	21.4		22.7	
\$100 to less than \$150	9.8	11.7	14.5	14.6	10.5		11.6	
\$150 to less than \$200	5.5	6.8	7.3	3.8	8.1		6.5	
\$200 to less than \$250	3.8	5.5	5.1	6.3	6.7		5.0	
\$250 or more	7.1	1.5	6.0	4.2	4.5		4.7	
Don't know	22.6	16.2	21.6	20.1	15.2	• •	19.2	
	BALAN	CE OF S	TATE / T	ERRITO	RY			
Less than \$25	17.4	16.0	17.3	17.4	19.8		17.3	
\$25 to less than \$50	14.9	19.2	13.0	18.0	13.3		15.1	
\$50 to less than \$100	22.9	19.8	21.5	18.7	16.8		21.1	
\$100 to less than \$150	9.9	9.9	10.7	3.4	7.0		9.5	
\$150 to less than \$200	4.7	9.5	6.7	10.3	2.8		6.4	
\$200 to less than \$250	6.2	3.9	3.8	3.4	7.7		5.0	
\$250 or more	4.0	4.2	6.8	6.3	3.6		5.1	
Don't know	20.0	17.6	20.1	22.5	28.9		20.5	
	• • • • • •	• • • • • • •			• • • • • •	•••••		
	тот	AL STAT	E / TERI	RITORY				
Less than \$25	15.8	11.9	13.0	11.2	14.2	6.0	13.6	
\$25 to less than \$50	17.2	18.7	14.3	19.6	19.3	18.6	17.4	
\$50 to less than \$100	19.6	26.9	21.4	21.0	20.4	35.4	22.2	
\$100 to less than \$150	9.8	11.3	12.6	11.8	9.7	13.5	11.0	
\$150 to less than \$200	5.2	7.4	7.0	5.4	7.0	9.3	6.5	
\$200 to less than \$250	4.6	5.1	4.4	5.6	6.9	1.5	5.0	
	6.0	2.2	6.4	4.7	4.3	2.2	4.8	
\$250 or more	0.0							

.. not applicable

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6.8

(a) No regional split between capital city and balance of territory for ACT as the sample does not support any break downbeyond the whole territory.

Note: Data covers only states and territories that are participating in the National Green Power Accreditation Program.

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6.9

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EXTRA AMOUNT WILLING TO PAY PER ANNUM ON GREEN POWER

ELECTRICITY-199	99:20	05						
	NSW	Vic.	Qld	SA	WA	ACT	Total	
	%	%	%	%	%	%	%	
	MA	RCH	2005					
Less than \$25	15.8	11.9	13.0	11.2	14.2	*6.0	13.6	
\$25 to less than \$50	17.2	18.7	14.3	19.6	19.3	18.6	17.4	
\$50 to less than \$100	19.6	26.9	21.4	21.0	20.4	35.4	22.2	
\$100 to less than \$150	9.8	11.3	12.6	11.8	9.7	13.5	11.0	
\$150 to less than \$200	5.2	7.4	7.0	*5.4	7.0	*9.3	6.5	
\$200 to less than \$250	4.6	5.1	*4.4	*5.6	6.9	*1.5	5.0	
\$250 or more	6.0	*2.2	*6.4	*4.7	*4.3	*2.2	4.8	
Don't know	21.7	16.5	20.9	20.7	18.1	13.5	19.6	
• • • • • • • • • • • • • • • • • •		• • • • •						
	MA	RCH	2002					
Less than \$25	13.0	14.7	15.4	11.2	11.1	14.8	13.6	
\$25 to less than \$50	18.2	20.3	23.0	18.7	19.0	24.9	19.9	
\$50 to less than \$100	24.1	24.9	23.7	22.0	21.5	25.1	23.8	
\$100 to less than \$150	9.2	10.5	10.5	11.8	16.5	16.0	11.0	
\$150 to less than \$200	7.2	6.2	6.3	7.5	6.9	6.0	6.7	
\$200 to less than \$250	4.0	4.4	3.4	4.5	6.4	1.5	4.3	
\$250 or more	3.1	2.7	4.4	4.5	4.7	3.2	3.6	
Don't know	21.1	16.3	13.4	19.9	14.0	8.5	17.2	
	MA	RCH	1999					
Less than \$25	6.7	3.7	7.4	3.8	6.0	4.1	5.7	
\$25 to less tha \$50	7.9	9.1	11.3	9.1	9.0	7.8	9.2	
\$50 to less than \$100	24.5	30.3	28.4	25.1	28.8	23.6	27.3	
\$100 to less than \$150	27.8	27.7	26.9	31.2	25.9	26.3	27.6	
\$150 to less than \$200	5.3	3.3	4.5	3.5	5.9	5.6	4.6	
\$200 to less than \$250	13.9	17.5	11.4	17.1	10.3	16.0	14.1	
\$250 or more	13.9	8.5	10.1	10.2	14.1	16.6	11.5	

* estimate is subject to sampling variability too high for most practical purposes

Note: Data covers only states and territories that are participating in the National Green Power Accreditation Program.

6.10

EXTRA AMOUNT WILLING TO PAY PER ANNUM ON GREEN POWER ELECTRICITY, By household level of electricity expenditure—2005

	HOUSEH	OLD LEVEL OF	ELECTRICITY	EXPENDITURE(a)		
	Less than \$250	\$250 to less than \$500	\$500 to less than \$750	\$750 to less than \$1000	Over \$1000	Not known	Total households
Amount willing to pay	%	%	%	%	%	%	%
	• • • • • • •	•••••					••••
		C	APITAL CI	ΙΥ			
Less than \$25	24.6	17.2	11.4	9.4	6.4	12.8	11.7
\$25 to less than \$50	28.0	36.0	19.6	13.1	10.0	9.8	18.5
\$50 to less than \$100	*15.4	21.5	31.4	26.8	15.8	17.3	22.7
\$100 to less than \$150	*4.1	5.8	13.7	13.0	16.8	8.0	11.6
\$150 to less than \$200	*1.6	*2.5	4.8	13.1	8.3	*3.3	6.5
\$200 to less than \$250	*0.7	*1.2	4.8	*3.7	11.4	*3.3	5.0
\$250 or more	*1.7	*1.1	*2.1	*5.2	12.3	*1.0	4.7
Don't know	23.8	14.7	12.2	15.6	19.1	44.4	19.2
•••••	• • • • • • •	• • • • • • • • •		• • • • • • • • •	• • • • • • • • •		
	В	ALANCE O	F STATE ,	TERRITOR	۲Y		
Less than \$25	*42.1	27.7	20.2	14.6	8.9	*16.1	17.3
\$25 to less than \$50	*14.2	25.5	12.6	16.5	*7.1	25.0	15.1
\$50 to less than \$100	*14.0	18.9	26.1	23.3	21.1	*12.2	21.1
\$100 to less than \$150	*3.1	5.2	6.6	12.4	14.4	*4.6	9.5
\$150 to less than \$200	—	*1.6	*6.1	*9.1	9.2	*2.5	6.4
\$200 to less than \$250	*3.6	*1.7	*3.3	*6.0	7.9	*3.0	5.0
\$250 or more	*11.5	*0.7	*2.8	*4.1	9.7	*2.2	5.1
Don't know	*11.5	18.7	22.3	14.2	21.6	34.5	20.5
	• • • • • • •						• • • • • • • • •
		IOTAL S	STATE / TE	RRITORY			
Less than \$25	30.0	20.0	14.1	11.2	7.3	13.8	13.6
\$25 to less than \$50	23.7	33.2	17.5	14.3	8.9	14.3	17.4
\$50 to less than \$100	*15.0	20.8	29.8	25.6	17.8	15.8	22.2
\$100 to less than \$150	*3.8	5.6	11.5	12.8	15.9	7.0	11.0
\$150 to less than \$200	*1.1	*2.2	5.2	11.7	8.6	*3.1	6.5
\$200 to less than \$250	*1.6	*1.4	4.3	4.5	10.1	*3.2	5.0
\$250 or more	*4.7	*1.0	*2.3	4.8	11.3	*1.3	4.8
Don't know	20.0	15.8	15.3	15.1	20.0	41.5	19.6
• • • • • • • • • • • • • • • • • • •	• • • • • • •						

* estimate is subject to sampling variability too high for most practical purposes

— nil or rounded to zero (including null cells)

.

(a) Amount spent on electricity in the last 12 months prior to survey.

Note: Data covers only states and territories that are participating in the National Green Power Accreditation Program.

EXPLANATORY NOTES

INTRODUCTION	1 This publication presents results from a supplementary survey run in association with the March 2005 Monthly Population Survey.
METHODOLOGY Monthly Population Survey	2 The Monthly Population Survey is based on a multi-stage area sample of private dwellings (houses, flats, etc.) and a list sample of non-private dwellings (hotels, motels, etc.). The sample for a monthly population survey is approximately 30,000 dwellings, but only half of these (i.e. 15,000) were included in the March supplementary topic. Information was obtained by interviews with responsible adult members of selected households, who answered questions on behalf of the person whose next birthday was closest to the date of the interview. Interviews are conducted face-to-face or by telephone (if acceptable to the respondent).
	3 Information is collected using computer assisted interviewing (CAI), whereby responses are recorded directly onto an electronic questionnaire on a notebook computer. The CAI method has been progressively implemented since October 2003, replacing the 'pen and paper ' method previously used. The change in interviewing method is not expected to have affected the estimates in any meaningful way.
SCOPE	4 The survey covers rural and urban areas across all states and territories of Australia, however the Northern Territory data refers to mainly urban areas. Also excluded were some 175,000 persons living in remote and sparsely settled parts of Australia. The exclusion of these persons will have only a minor impact on any aggregate estimates that are produced for individual states and territories, with the exception of the Northern Territory where such persons account for over 20% of the population.
	 5 In the supplementary survey, persons aged 18 years and over who were usual residents of private dwellings were included except: members of the Australian permanent defence forces; certain diplomatic personnel of overseas governments, customarily excluded from censuses and surveys; overseas residents in Australia; members of non-Australian defence forces (and their dependents) stationed in Australia; and residents of other non-private dwellings such as hospitals, motels and gaols.
COVERAGE	6 Coverage rules were applied which aimed to ensure that each person was associated with only one dwelling, and hence had only one chance of selection in each survey.
DATA COMPARABILITY	 7 A set of changing topics rotate over a period of three years. The topics contained in this publication compare with some data collected in 1994, 1999, and 2002. Where applicable, the data have been included in this publication for comparison. 8 An important point to note is that the environment topics were surveyed using a 'personal interview' methodology before 1997. From 1997 onwards the 'any responsible adult' methodology has been applied. When comparing post-1997 and pre-1997 data readers should be aware that some differences in the data may be explained by the change in methodology rather than real changes over time.

RELIABILITY OF ESTIMATES	9 The two types of error possible in an estimate based on a sample survey are:								
	 Non-sampling error which arises from inaccuracies in collecting, recording and 								
	processing the data. The most significant of these errors are:								
	misreporting of data itemsdeficiencies in coverage								
	non-response								
	processing errors								
	Every effort is made to minimise these errors by the careful design of								
	questionnaires, intensive training and supervision of interviewers and								
	efficient data processing procedures.								
	 Sampling error which occurs because a sample, rather than the entire population is 								
	surveyed. One measure of the likely difference resulting from not including all								
	persons in the survey is given by the standard error (please consult the Technical								
	Note - Data Quality section).								
DELATED DUDUCATIONS									
RELATED PUBLICATIONS	10 Users may also wish to refer to the following ABS publications:								
	<i>Environmental Issues: People's Views and Practices</i> (cat. no. 4602.0) – 1994, 1999, and 2002 issues.								
	Energy and Greenhouse Gas Emission Accounts (cat. no. 4604.0) – 2001 issue								
	Detailed Energy Statistics, Australia (cat. no. 4648.0.55.001) – 2004 issue								
	11 Further key references on energy use and conservation can be found through the								
	following websites:								
	Australian Bureau of Agricultural and Resource Economics								
	(http://www.abareconomics.com/index.html)								
	Australian Greenhouse Office (http://www.greenhouse.gov.au)								
	Department of Energy, Utilities and Sustainability (http://www.deus.nsw.gov.au)								
	National Green Power Accreditation Program (http://www.greenpower.gov.au)								
	Sustainable Energy Development Office (<i>http://www1.sedo.energy.wa.gov.au</i>)								
	12 Current publications produced by the ABS are listed in the <i>Catalogue of</i>								
	Publications and Products (cat. no.1101.0). The catalogue is available from any ABS								
	office or the ABS website <i><http: i="" www.abs.gov.au<="">>. The ABS also issues a daily Release</http:></i>								
	Advice on the website which details products to be released in the week ahead.								
ABBREVIATIONS	ABARE Australian Bureau of Agricultural and Resource Economics								
	ABS Australian Bureau of Statistics								
	ACT Australian Capital Territory								
	AGO Australian Greenhouse Office								
	Aust. Australia								
	CAI computer assisted interviewing								
	DEUS New South Wales Government Department of Energy, Utilities and								
	Sustainability								
	LPG liquefied petroleum gas								
	NGPAP National Green Power Accreditation Program								
	NSW New South Wales								
	NT Northern Territory								
	NT Northern Territory Qld Queensland								
	Qld Queensland								
	QldQueenslandRSErelative standard error								
	QldQueenslandRSErelative standard errorSASouth Australia								

EXPLANATORY NOTES

Vic. Victoria

WA Western Australia

DATA QUALITY

INTRODUCTION

1 Since the estimates in this publication are based on information obtained from occupants of a sample of dwellings, they are subject to sampling variability. That is, they may differ from those estimates that would have been produced if all dwellings had been included in the survey. One measure of the likely difference is given by the standard error (SE), which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings was included. There are about 2 chances in 3 (67%) that a sample estimate will differ by less than one SE from the number that would have been obtained if all dwellings had been included, and about 19 chances in 20 (95%) that the difference will be less than two SEs. Another measure of the likely difference is the relative standard error (RSE), which is obtained by expressing the SE as a percentage of the estimate.

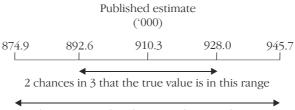
2 Due to space limitations, it is impractical to print the SE of each estimate in the publication. Instead, a table of SEs is provided to enable readers to determine the SE for an estimate from the size of that estimate (see table T1). The SE table is derived from a mathematical model, referred to as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

CALCULATION OF STANDARD

3 An example of the calculation and the use of SEs in relation to estimates of households is as follows. Table 5.3 shows that the estimated number of households in Victoria that have a dishwasher was 910,300. Since this estimate is between 500,000 and 1,000,000, table T1 shows that the SE for Victoria will lie between 15,150 and 18,300 and can be approximated by interpolation using the following general formula:

$$SE \text{ of estimate} = \text{lower SE} + \left[\left(\frac{\text{size of estimate} - \text{lower estimate}}{\text{upper estimate} - \text{lower estimate}} \right) \right] x(\text{upper SE} - \text{lower SE})$$
$$= 15,150 + \left(\frac{910,300 - 500,000}{1,000,000 - 500,000} \right) x(18,300 - 15,150)$$
$$= 17,734$$
$$= 17,700 \text{ (rounded to the nearest 100)}$$

4 Therefore, there are about 2 chances in 3 that the value that would have been produced if all persons had been included in the survey will fall within the range 892,600 to 928,000 and about 19 chances in 20 that the value will fall within the range 874,900 to 945,700. This example is illustrated in the diagram below.



19 chances in 20 that the true value is in this range

CALCULATION OF STANDARD ERROR <i>continued</i>	5 In general, the size of the SE increases as the size of the estimate increases. Conversely, the RSE decreases as the size of the estimate increases. Very small estimates are thus subject to such high RSEs so that their value for most practical purposes is unreliable. In the tables in this publication, only estimates with RSEs of less than 25% are considered reliable for most purposes. Estimates with RSEs of 25% and greater are preceded by an asterisk (e.g. *1.8) to indicate they are subject to high SEs and should be used with caution.
PROPORTIONS AND PERCENTAGES	6 Proportions and percentages formed from the ratio of two estimates are also subject to sampling errors. The size of the error depends on the accuracy of both the numerator and the denominator. A formula to approximate the RSE of a proportion is given below. This formula is only valid when x is a subset of y. $RSE(\frac{x}{y}) = \sqrt{[RSE(x)^2] - [RSE(y)^2]}$
	7 For example, in table 5.3, the estimate for the total number of dwellings in Victoria is 1,916,400. The estimated number of dwellings in Victoria which have a dishwasher was 910,300, so the proportion of dwellings in Victoria which have dishwashers is 910,300/1,916,400 or 47.5%. The SE of the total number of dwellings in Victoria may be calculated by interpolation as 21,141 or 21,100 rounded to the nearest 100. To convert this to a RSE we express the SE as a percentage of the estimate, or 21,100/1,916,400 = 1.1%. The SE for the number of dwellings in Victoria that have a dishwasher was calculated above as 17,700, which converted to a RSE is $17,700/910,300 = 1.9\%$. Applying the above formula, the RSE of the proportion is $RSE = \sqrt{(1.9)^2 - (1.1)^2} = 1.5\%$ giving a SE for the proportion (47.5%) of 0.7 percentage points (=47.5x .015).
	8 Therefore, there are about 2 chances in 3 that the proportion of dwellings in Victoria that have a dishwasher is between 46.8% and 48.2% and 19 chances in 20 that the proportion is within the range 45.1% to 48.9%.
DIFFERENCES	9 Published estimates may also be used to calculate the difference between two survey estimates (of numbers or percentages). Such an estimate is subject to sampling error. The sampling error of the difference between two estimates depends on their SEs and the relationship (correlation) between them. An approximate SE of the difference between two estimates (x–y) may be calculated by the following formula: $SE(x-y) = \sqrt{[SE(x)]^2 + [SE(y)]^2}$
	10 While this formula will only be exact for differences between separate and uncorrelated characteristics or subpopulations, it is expected to provide a good approximation for all differences likely to be of interest in this publication.
NON-SAMPLING ERROR	11 The imprecision due to sampling variability, which is measured by the SE, should not be confused with inaccuracies that may occur because of imperfect reporting by respondents, errors made in collection such as in recording and coding data, and errors made in processing the data. Inaccuracies of this kind are referred to as non-sampling error, and they may occur in any enumeration, whether it be a full count or a sample. It is not possible to quantify non-sampling error, but every effort is made to reduce it to a minimum. This is done by careful design of questionnaires, intensive training and supervision of interviewers, and efficient operating procedures.

continued

NON-SAMPLING ERROR T1 STANDARD ERRORS FOR HOUSEHOLD LEVEL ESTIMATES

size of	NSW	Vic.	Qld.	SA	WA	Tas.	NT	ACT	Aust
estimates	no.	no.	no.	no.	no.	no.	no.	no.	no
100	130	110	80	80	100	80	50	70	130
200	230	190	150	160	180	150	120	140	220
300	320	270	220	220	260	200	190	200	290
500	460	400	340	330	390	300	330	290	410
700	590	510	450	430	500	380	450	380	520
1,000	750	660	610	560	640	470	600	480	660
1,500	980	880	830	750	850	610	820	620	860
2,000	1 190	1070	1 030	900	1 030	720	990	740	1 030
2,500	1 350	1 250	1 200	1 050	1 200	800	1 150	850	1 200
3,000	1 550	1 400	1 400	1 150	1 300	900	1 250	950	1 350
3,500	1 700	1 550	1 550	1 300	1 450	950	1 350	1 000	1 450
4,000	1 850	1 650	1 650	1 400	1 550	1 050	1 450	1 050	1 600
5,000	2 100	1 900	1 950	1 600	1 800	1 150	1 600	1 200	1 800
7,000	2 550	2 350	2 400	1 900	2 150	1 300	1 800	1 400	2 200
10,000	3 150	2 850	2 950	2 300	2 550	1 550	1 950	1 600	2 750
15,000	3 900	3 550	3 750	2 800	3 100	1 750	2 100	1 850	3 450
20,000	4 550	4 150	4 350	3 150	3 550	1 950	2 100	2 000	4 000
30,000	5 600	5 050	5 350	3 750	4 200	2 150	2 100	2 250	5 000
40,000	6 450	5 800	6 150	4 150	4 700	2 300	2 050	2 400	5 800
50,000	7 150	6 450	6 750	4 500	5 100	2 450	1 950	2 500	6 550
100,000	9 800	8 650	8 950	5 600	6 350	2 700	1 600	2 700	9 250
150,000	11 650	10 100	10 350	6 200	7 050	2 850	1 350	2 800	11 200
200,000	13 100	11 250	11 350	6 650	7 550	2 900	1 150	2 800	12 800
300,000	15 300	12 900	12 800	7 200	8 200	2 900	—	2 750	15 400
500,000	18 400	15 150	14 550	7 750	8 900	2 850	_	_	19 250
1,000,000	23 100	18 300	16 600	8 250	9 600	—	—	—	25 600
2,000,000	28 300	21 400	18 200	8 400	9 850	—	—	—	33 400
5,000,000	35 500	25 050	19 150	—	—	—	—	—	46 250
10,000,000	—	—	—	—	—	_	_	_	57 900

- nil or rounded to zero (including null cells)

BIBLIOGRAPHY

ABARE (Australian Bureau of Agricultural and Resource Economics) 2005, *Energy Update* 2005: Australian energy consumption and production, 1973-74 to 2003-04, Accessed from

<http://www.abareonlineshop.com/product.asp?prodid=13166> on 03 November 2005.

AGO (Australian Greenhouse Office) 2005a, Your Home Technical Manual, Chapter 4 Energy Use, Accessed from

< http://www.greenhouse.gov.au/yourhome/technical/fs40.htm> on 03 November 2005.

AGO 2005b, Your Home Technical Manual, Chapter 1 Passive Design, 1.6a Insulation: Overview, Accessed from <http://www.greenhouse.gov.au/yourhome/technical/pdf/fs16a.htm> on 03

November 2005.

- AGO 2005c, *History of the labelling program in Australia*, Accessed from http://www.energyrating.gov.au/history.html on 03 November 2005.
- DEUS (New South Wales Department of Energy, Utilities and Sustainability) 2005a, *Lighting your home*, Accessed from < http://www.energysmart.com.au/brochures/lighting.pdf> on 03 November 2005.
- DEUS 2005b, Windows in your home, Accessed from

< http://www.energysmart.com.au/brochures/windows.pdf> on 03 November 2005.

DEUS 2005c, National Green Power Accreditation Program: Quarterly Status Report, 1 January - 31 March, 2005, Accessed from

< http://www.greenpower.com.au/images/dl/2005Q1Reportfinal.pdf> on 03 November 2005.

NAEEEC (National Appliance and Equipment Energy Efficiency Committee) 2002, *Stanby Power Consumption: A long-term strategy to achieve Australia's One-Watt Goal 2002 to 2012*, Accessed from

< http://www.energyrating.gov.au/library/details200209-standby.html> on 03 November 2005.

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