



AUSTRALIAN BUREAU OF STATISTICS

CANBERRA

**NATIONAL ENERGY SURVEY
HOUSEHOLD APPLIANCES,
FACILITIES AND
INSULATION,
AUSTRALIA**

1985-86

CATALOGUE NO. 8212.0

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**NATIONAL ENERGY SURVEY
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AND INSULATION
AUSTRALIA
1985-86**

IAN CASTLES
Australian Statistician

AUSTRALIAN BUREAU OF STATISTICS

(F)

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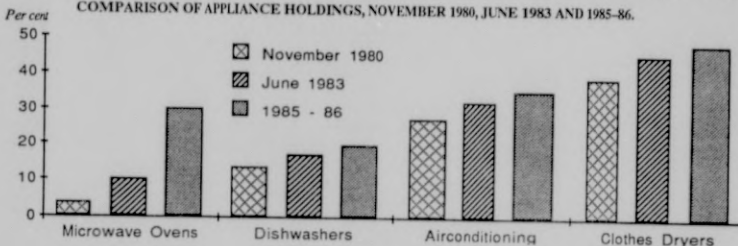
SUMMARY OF FINDINGS

This survey confirms that household appliances, insulation and other energy related facilities are subject to continuing changes in response to considerations such as labour saving, energy cost and efficiency, alternative energy sources available and the general desire to make life more comfortable and enjoyable. The results of the latest national household energy survey contained in this publication provide a range of statistics on these features, classified by other characteristics, of households in Australia in 1985-86, together with some comparisons with similar surveys conducted in 1980 and 1983 (refer Explanatory Notes, paragraphs 22 - 30). Some findings are summarised below.

2. The appliance showing the highest growth rate is the microwave oven. In November 1980, less than 4% of households had a microwave oven. By June 1983 this had risen to about 10% while in this survey it was found that nearly 30% of households had this appliance. In fact, Table 2 shows that of the 5,044,100 households in Australia, 577,500 households, more than 1 in 10, obtained their microwave in the twelve months prior to interview.

3. Since the previous survey there has also been a small increase in the percentage of households with dishwashers (17.1% to 19.7%), air conditioning units (32.3% to 35.3%) and clothes dryers (45.2% to 48.1%). No statistically significant change occurred in the holdings of refrigerators (99.6%), ovens (98.7%) and freezers (46.4%).

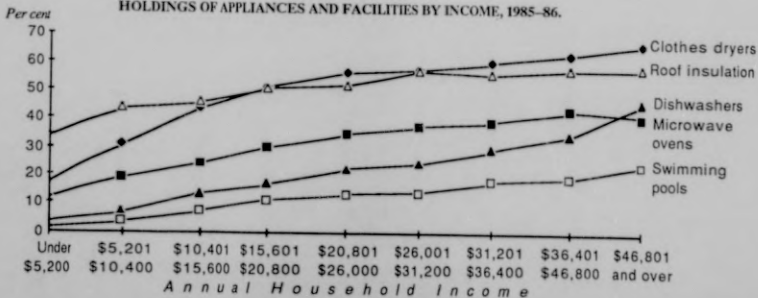
COMPARISON OF APPLIANCE HOLDINGS, NOVEMBER 1980, JUNE 1983 AND 1985-86.



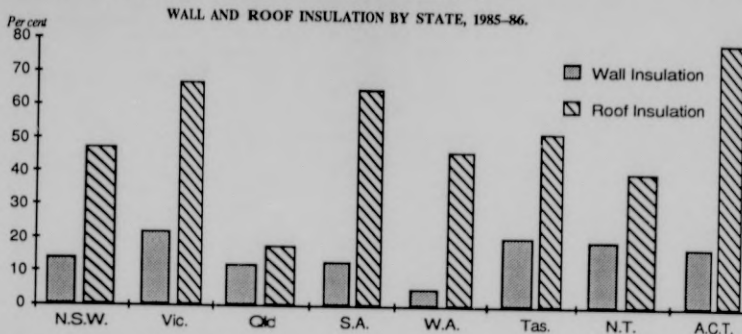
4. The 1980 and 1983 surveys collected information on households using their electric frypans/skillets and vertical grills *more than once a week*. These surveys highlighted a decline in regular use of frypans/skillets to 38% (from 40.2%) and vertical grills to 6.9% (from 8.9%). The current survey simply asked if the household had any of these appliances. Nearly 70% of households had an electric frypan or skillet and over 15% had a vertical grill suggesting that whereas a large number of households do have these appliances, only about half use them weekly.

5. Whilst household income appears to have little effect on the holdings of 'essential' appliances such as refrigerators, hotplates, ovens, washing machines and room heaters, it is a significant factor for certain appliances. Microwave ovens, for example, are held by under 12% of households with an income less than \$5,200 but are held by over 40% of households with an income greater than \$46,800. The income factor appears even more significant when looking at holdings, by the same household income categories, of dishwashers (4% to 45%) and clothes dryers (17% to 66%). Insulation and water beds also appear to be dependent on the income of the household. The pattern for freezers is atypical with the highest proportion (nearly 52%) in the mid-range bracket, \$20,801 to \$26,000 but only just over 44% having a freezer in the highest income bracket.

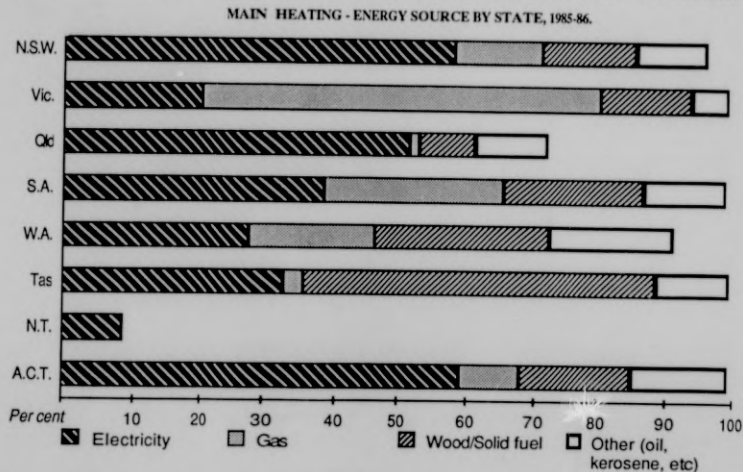
HOLDINGS OF APPLIANCES AND FACILITIES BY INCOME, 1985-86.



6. The following diagram shows the variation between States in the estimated percentage of dwellings with wall and roof insulation. The A.C.T. and Victoria have the highest proportion of dwellings with some insulation, followed by S.A., Tasmania, N.S.W., N.T., W.A. and finally Queensland, which has by far the lowest proportion. It would appear that Australians generally perceive insulation as being more beneficial for heat retention in cooler weather rather than for protection from the heat during the summer months.



7. In different States, certain types of main heating predominate. For example, while over 58% of households in N.S.W. and the A.C.T. have electric main heating, in N.S.W. 81% of electric main heating is by portable appliances whilst in the A.C.T., 55% of electric main heating is by built-in or ducted appliances. In Victoria about 3 in 5 households use gas for their main heating. In Tasmania over 1 in 2 households use wood or other solid fuel.



8. Overall, some 41% of households use electricity as their main form of room heating as opposed to 43% in 1983. Although still the predominant form of main room heating, electricity is gradually losing ground to gas (up from 21.9% in 1983 to 24.4%) and solid fuel (up from 12.4% in 1983 to 15.8%). The trend away from oil heating is continuing with only 5.6% of households now reporting this as their main form of heating.

3.
EXPLANATORY NOTES

Introduction

Over the twelve months commencing 17 June 1985, the Australian Bureau of Statistics conducted a national energy survey of households in private dwellings. Information was sought on the characteristics of both the dwelling and the household; whether the household had certain domestic appliances; the daily usage of selected appliances (recorded in a special diary for a seven day period); and the quantity of reticulated electricity and gas consumed, both over the diary period and over the twelve months prior to interview.

2. Previous National Household Energy Surveys were conducted in November 1980 and June 1983. For this survey, significant changes in methodology enabled collection of additional information.

3. This publication contains estimates on appliance holdings, types of energy used and dwelling characteristics. Other proposed data releases are:

- publication 8213.0, containing estimates of annual reticulated energy consumption and usage patterns for those appliances covered by the diary; and
- a Unit Record File (on magnetic tape) containing confidentialised responses to the survey from fully responding households.

4. Certain unpublished information is also available. Generally a charge is made for providing unpublished information. Further assistance can be obtained from the contact points shown in the PHONE INQUIRIES box at the front of this publication.

Scope and coverage

5. This survey was based on a multi-stage area sample of private dwellings. Excluded were certain types of dwellings such as non-private dwellings (hospitals, hotels, motels, etc.), caravan parks and dwellings occupied by more than one household. Also excluded were the households of foreign diplomatic personnel or members of non-Australian defence forces stationed in Australia.

Data collection

6. Households were approached by specially trained interviewers. The requisite information and permission to approach energy supply authorities were sought from the head of the household (or another adult member).

7. In addition to questions covering the appliances, facilities and dwelling characteristics shown in Table 2, information was sought on:

- the types of energy currently used for certain appliances/ facilities;

- whether this had changed over the last twelve months and if so, why;
- whether there was an electric hot water system utilising an off-peak tariff;
- the number of adults and children in the household;
- the gross income of the household; and
- the number of rooms in the dwelling.

8. As shown in Table 2, information on some items was not sought at certain types of dwelling, for example households resident in high rise flats were not asked if they own a swimming pool.

Definitions

9. *Usual residents.* For this survey comprised:

- those persons who considered that dwelling their usual residence; or
- those persons who occupied the dwelling for at least four weeks at the time of interview.

10. *A household.* A group of persons who are the usual residents of a dwelling and who have some common eating arrangements. Persons or groups living in the same dwelling but having separate eating arrangements constitute separate households.

11. *A single household.* Occurs when only one household is usually resident in a selected dwelling. Where more than one household usually resides in a dwelling, for example a family unit and a lodger with separate eating arrangements, such dwellings were termed *multiple household dwellings* and were excluded.

12. *Shared systems.* Households in high or low rise units or in town houses, villas and such (see Table 2) were asked whether the hot water system, main heating or air-conditioning, if any, was shared with another dwelling. Note that:

- where a shared system was encountered, the energy source was not determined;
- shared systems are included in the total estimates of these three facilities unless otherwise indicated (see especially Tables 13 and 14);
- for hot water systems ONLY, 'don't know if shared' responses were recorded and included in the total estimate of hot water systems (see Table 6).

13. *Ceiling fans.* Large bladed fans permanently fixed to the ceiling. Ceiling exhaust fans and other electric fans are excluded.

14. *Air-conditioning/cooling.* Devices providing air cooled by refrigeration or evaporation. Where the device (or system) is also capable of heating, and is used for this purpose, it is also separately counted as a reverse cycle heater.

15. *Metropolitan areas/State Capital Cities.* In each State, that area defined for the 1981 Population Census as the Capital City Statistical Division. For the purposes of this publication, the Northern Territory and the Australian Capital Territory have been classified as non-metropolitan.

16. *The four seasons* were defined as follows:

- a) Winter - June, July, August;
- b) Spring - September, October, November;
- c) Summer - December, January, February;
- d) Autumn - March, April, May.

17. *Off-peak electricity.* Separately metered electricity for which the times of availability are restricted to certain hours by the supply authority. In the domestic sector this power is generally used for water and space heating.

18. *Household composition.* The number of *children* (persons aged less than 15 years) and *adults* (persons aged 15 years and over) resident in the household.

19. *Annual household income.* Gross income from all sources of all usual residents of the household aged fifteen years or more who contribute directly to the payment of household bills.

Reliability of estimates

20. Since the estimates are based on a sample they are subject to *sampling variability* (see Appendix 1 for further details). Some figures in this publication are replaced or preceded by the symbol (*).

- Estimates *preceded* by this symbol have a relative standard error of between 25 and 40 per cent and, as there is about one chance in three that the true figure is at least 25 per cent larger or smaller, care should be exercised in using them.
- Estimates *replaced* by this symbol have a relative standard error greater than 40 per cent. Although these estimates can in some cases be derived, they should not be regarded as reliable.

21. *Non-sample error.* Inaccuracies may occur due to imperfections in reporting by respondents and interviewers, and errors made during the coding and

processing of data. These inaccuracies may occur in any enumeration, whether it be a full count or only a sample. It is not possible to quantify these non-sample errors, but every effort is made to minimise them by careful design of questionnaires, intensive training and supervision of interviewers and efficient operating procedures.

Interpretation of results

22. When examining estimates derived from this survey the user should be aware that:

- this survey measured the appliances held (ie owned, rented or hired) by a household. A household was only enumerated once for each type of appliance. Therefore, as the dominant count is the number of households, the tables do not reflect the number of appliances;
- appliances in working order were reported even if they were not used by the household. In addition, if an appliance did not work at the time of interview but the respondent expressed the intention to have it repaired, it was included in the survey response.

Comparability between surveys

23. As noted in the previous edition of this publication, except for minor variations in some data items, the June 1983 and the November 1980 surveys are comparable.

24. Several improvements were made to the collection and estimation methodology in the 1985-86 survey. These include:

- for the November 1980 and June 1983 surveys all interviews were conducted over the second and third weeks of the respective months whereas for this survey the interviews were spread over a twelve month period commencing Monday, 17 June 1985.
- the expansion factors for estimation in earlier surveys were based on the age and sex of the head of household and adjusted for any undercoverage and non-response of PERSONS for each age by sex group. The expansion factors in the current survey were based on the location of the DWELLING (State, area, etc) and adjusted for non-response in different types of dwelling (houses, flats, etc). They were further adjusted so that estimates for each season (see paragraph 16) account for one quarter of the estimated number of single households in private dwellings in each State.

In consequence, estimates of *numbers* of households are not directly comparable with those of earlier surveys.

25. As estimates of proportions of the population having a certain appliance, etc, are relatively independent of the methodology used, it is recommended that users wishing to compare results across surveys first convert the estimates of numbers of households into percentages of the relevant populations.

26. Table 1 of this publication shows estimated percentages for the November 1980, June 1983 and 1985-86 National Energy Surveys. Users should take into account whether any variation from one survey to the next is statistically significant or simply the result of collecting the information from different households in each survey. (See paragraph 18 of Technical Note.)

Changes in selected items

27. *Heating* - In the November 1980 survey, no distinction was made between the main heating facility and supplementary heating. However, for subsequent surveys, separate information was sought on the main form of heating.

28. *Refrigerators* - In the November 1980 survey refrigerators were only counted if they were in everyday use. Also, a distinction was made between electric refrigerators and others. For subsequent surveys the qualification regarding continuous use and distinction between 'electric' and 'other' was not made.

29. *Stoves, hotplates and ovens* - In the November 1980 survey, if the oven and the hotplates were combined into one unit (a stove) only the one unit was counted whereas if they were individual units, separate details were obtained. For subsequent surveys, hotplates and ovens were treated separately irrespective of whether or not they were part of a single 'stove' unit.

30. *Crockpots, microwave ovens, vertical grills, electric frypans or skillets* - For previous surveys respondents were asked if the household used any of these appliances more than once a week. For this survey respondents were not asked whether they have a crockpot and were only asked if the household had any of the other appliances, as distinct from actually using them.

Symbols and other usages

31. *n.a.* not applicable i.e. not asked (see Table 2).

* subject to high sampling variability (see paragraph 20).

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

Related publications

32. Other ABS publications which may be of interest include:

National Energy Survey: Household Appliances Facilities and Insulation, Australia, June 1983 (8212.0).

National Energy Survey: Household Energy Consumption, Australia, 1982-83 (8213.0).

National Energy Survey: 1982-83 Sample File on Magnetic Tape (8215.0).

New South Wales Energy Survey: Part 1 - Household Appliances, Facilities, Insulation and Appliance Acquisition, October 1984 (8211.1).

New South Wales Energy Survey, October 1984: Part 2 - Household Energy Consumption (8212.1).

New South Wales Energy Survey, October 1984: Sample File on Magnetic Tape (8215.1).

Domestic Firewood and Coal Usage, Tasmania, 1985 (8204.6).

33. Current publications produced by the ABS are listed in the *Catalogue of Publications, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days.

Electronic services

34. VIATEL. Key *656# for selected current social, economic and demographic statistics.

AUSSTATS. Thousands of up-to-date time series are available on this ABS on-line service through CSIRONET. The AUSSTATS Help Desk, telephone (062) 52 5404, has further information.

TELESTATS. This service provides foreign trade statistics tailored to user requirements. For information, call (062) 52 5404.

I. CASTLES
Australian Statistician

TABLES

TABLE 1. SINGLE HOUSEHOLDS IN PRIVATE DWELLINGS: APPLIANCES AND FACILITIES BY STATE,
NOVEMBER 1980, JUNE 1983 AND 1985-86
(per cent)

Appliance/facility	N.S.W.			Vic.			Qld			S.A.			W.A.		
	Nov. 1980	June 1983	1985 -86	Nov. 1980	June 1983	1985 -86	Nov. 1980	June 1983	1985 -86	Nov. 1980	June 1983	1985 -86	Nov. 1980	June 1983	1985 -86
Refrigerator(a)	99.6	99.5	99.4	99.6	99.6	99.6	99.4	99.7	99.7	99.7	99.8	99.9	99.2	99.7	99.6
Freezer	41.2	44.0	45.2	40.3	42.9	43.4	46.1	49.1	48.1	46.7	51.5	50.8	43.8	46.4	45.5
Oven	n.a.	99.0	99.0	n.a.	99.1	99.2	n.a.	98.7	97.6	n.a.	99.4	98.5	n.a.	99.1	98.6
Hotplates/burners	n.a.	97.7	98.0	n.a.	97.5	98.4	n.a.	97.2	97.6	n.a.	99.2	99.1	n.a.	97.5	98.5
Microwave oven(a)	4.3	13.0	33.5	2.7	6.5	24.4	3.5	9.5	30.3	2.8	7.5	29.1	3.6	12.9	33.5
Electric frypan/skillet(a)	40.7	38.6	70.1	32.2	29.6	62.8	49.7	48.4	79.6	41.9	40.4	70.7	39.1	35.9	65.1
Vertical grill(a)	10.0	7.6	17.0	8.3	6.1	12.0	7.0	6.0	15.3	11.4	8.6	21.2	6.9	5.7	11.6
Dishwasher	13.6	17.5	18.7	15.3	19.1	22.6	15.0	18.2	22.6	8.9	11.6	14.1	9.6	13.1	14.8
Washing machine	90.7	91.0	9.24	90.0	90.0	91.9	92.6	93.6	94.2	93.2	94.0	94.2	90.2	92.1	92.0
Clothes dryer	41.8	47.3	49.9	44.0	49.1	51.8	29.1	40.7	45.8	36.5	44.3	46.1	22.0	30.1	34.4
Hot water system(b)	96.8	98.5	99.0	99.3	99.3	99.3	96.8	97.6	98.1	98.5	98.9	99.2	98.6	99.0	99.2
Main heating(a)(b)	94.1	96.0	95.7	99.2	99.6	99.4	74.4	71.3	71.9	97.9	98.7	99.0	93.7	92.5	91.2
Non-shared(c)	n.a.	96.0	95.7	n.a.	99.1	98.3	n.a.	71.3	71.9	n.a.	98.7	99.0	n.a.	92.5	91.2
Electric	n.a.	61.6	58.2	n.a.	22.8	20.1	n.a.	50.6	51.8	n.a.	42.7	38.5	n.a.	30.4	28.2
Gas	n.a.	9.8	12.7	n.a.	55.4	59.6	n.a.	1.3	*1.4	n.a.	24.5	27.2	n.a.	15.3	17.9
Oil	n.a.	7.3	*5.5	n.a.	7.4	*4.8	n.a.	2.4	*1.4	n.a.	10.2	8.7	n.a.	12.9	9.2
Wood/solid fuel	n.a.	11.0	14.6	n.a.	11.6	12.6	n.a.	5.0	8.1	n.a.	16.4	20.8	n.a.	21.3	26.0
Air-conditioning(b)	27.0	29.4	32.9	25.9	36.5	40.5	14.3	16.0	18.9	50.7	62.8	63.3	37.8	37.1	40.3
Wall insulation(d)(e)	9.7	11.2	14.1	16.2	18.1	21.6	7.9	9.4	11.8	7.6	9.2	13.0	4.5	4.6	4.9
Roof insulation(d)(e)	38.1	41.1	47.4	57.4	59.4	66.5	14.7	16.6	17.6	53.3	55.5	64.3	40.2	39.2	46.3
Swimming pool(d)	10.7	13.7	13.0	10.0	10.5	10.3	8.9	10.7	12.1	7.1	7.5	9.1	12.2	12.7	13.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

For footnotes see end of table.

TABLE 1. SINGLE HOUSEHOLDS IN PRIVATE DWELLINGS: APPLIANCES AND FACILITIES BY STATE,
NOVEMBER 1980, JUNE 1983 AND 1985-86—continued
(per cent)

Appliance/facility	Tas.			N.T.			A.C.T.			Australia		
	Nov. 1980	June 1983	1985 -86	Nov. 1980	June 1983	1985 -86	Nov. 1980	June 1983	1985 -86	Nov. 1980	June 1983	1985 -86
Refrigerator(a)	99.3	99.7	99.4	97.7	99.1	99.2	99.8	99.9	99.7	99.5	99.6	99.6
Freezer	57.6	61.0	64.2	60.5	58.6	57.6	41.0	43.9	49.2	43.0	46.0	46.4
Oven	n.a.	99.5	99.5	n.a.	99.7	94.6	n.a.	99.6	99.2	n.a.	99.0	98.7
Hotplates/burners	n.a.	97.8	98.0	n.a.	99.7	96.0	n.a.	99.9	99.5	n.a.	97.7	98.2
Microwave oven(a)	2.1	4.9	22.1	*	10.8	36.3	4.6	13.5	35.5	3.5	10.0	29.9
Electric frypan/skillet(a)	51.1	50.3	85.1	47.5	36.3	62.6	44.3	40.3	73.3	40.2	38.0	69.8
Vertical grill(a)	10.9	8.0	24.4	8.6	5.4	14.3	8.6	7.3	9.3	8.9	6.9	15.4
Dishwasher	10.6	13.5	16.5	11.3	17.7	25.0	25.0	29.3	32.4	13.5	17.1	19.7
Washing machine	96.2	97.2	97.4	93.7	94.6	92.6	94.0	94.2	94.4	91.2	91.8	92.9
Clothes dryer	49.9	55.9	56.7	30.2	32.7	35.1	48.2	51.9	53.0	38.5	45.2	48.1
Hot water system(b)	98.7	98.8	98.2	95.0	98.2	95.3	99.6	100.0	100.0	97.8	98.7	98.9
Main heating(a)(b)	99.7	99.9	99.7	29.4	14.1	*8.6	99.9	99.6	100.0	92.6	92.6	92.4
Non-shared(c)	n.a.	99.9	99.7	n.a.	14.1	*8.6	n.a.	98.6	99.2	n.a.	92.5	92.1
Electric	n.a.	35.3	32.4	n.a.	6.6	*3.5	n.a.	64.1	58.7	n.a.	44.2	41.7
Gas	n.a.	5.2	2.9	n.a.	*	*	n.a.	5.7	8.9	n.a.	21.9	24.4
Oil	n.a.	15.0	10.0	n.a.	*3.9	*	n.a.	17.0	14.3	n.a.	7.6	*5.6
Wood/solid fuel	n.a.	43.2	53.3	n.a.	*2.7	*	n.a.	10.5	16.8	n.a.	12.4	15.8
Air-conditioning(b)	*	0.9	*0.5	51.8	59.2	65.0	16.4	23.9	29.5	27.2	32.3	35.3
Wall insulation(d)(e)	13.3	15.0	20.3	11.1	10.4	19.4	9.7	15.6	17.6	10.6	12.1	15.0
Roof insulation(d)(e)	28.0	40.0	52.2	44.0	39.8	39.9	76.4	73.6	78.7	41.9	43.7	49.8
Swimming pool(d)	4.6	4.9	5.8	14.3	16.5	19.7	7.0	7.3	10.7	8.2	10.1	11.5
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Refer Explanatory Notes, paragraphs 23-30. (b) Includes shared systems, refer Explanatory Notes, paragraph 12. (c) Includes all other forms of main heating.
(d) Not asked at mobile/improvised, high or low rise dwellings, see Table 2. (e) Estimates for June 1983 exclude persons who did not know the type of insulation installed.

TABLE 2. APPLIANCES, FACILITIES AND CHARACTERISTICS BY TYPE OF DWELLING, AUSTRALIA, 1985-86
(¹ 000 of single households in private dwellings)

	Type of private dwelling						Total
	Separate house	Townhouse, villa, etc.(a)	Low rise, 2 or 3 storeys	High rise, 4 or more storeys	Mobile/improvised dwelling and dwelling	Combined shop, etc. dwelling	
Refrigerator	4,032.6	428.6	448.5	82.3	8.5	22.9	5,023.5
Only one refrigerator	2,882.4	397.5	436.8	78.2	7.7	20.5	3,823.2
One door model(b)	1,228.5	211.6	246.9	42.0	*5.4	11.0	1,745.3
Two door model(b)	1,654.0	185.9	190.0	36.2	*2.3	9.6	2,077.9
Two or more refrigerators	1,150.2	31.1	11.7	*4.1	*	*2.4	1,200.3
One door models only(b)	345.6	7.7	*5.7	*	*	*	360.8
Two door models only(b)	156.8	6.3	*	*	*	*	164.8
Combination(b)	647.7	17.2	*5.0	*3.2	*	*	674.7
Freezer	2,184.0	90.5	47.5	9.6	*2.2	8.8	2,342.4
Top opening	1,481.3	56.0	31.3	6.3	*	7.1	1,583.3
Front opening	702.7	34.4	16.2	*3.2	*	*	759.1
Hotplates	3,959.9	428.2	448.2	84.2	11.2	21.5	4,953.1
Electric only	2,603.4	247.0	297.6	64.3	*	11.3	3,224.9
Gas only	1,313.5	179.9	149.1	19.4	9.9	10.2	1,682.0
Both gas and electric	43.0	*	*	*	*	*	46.2
Conventional oven	3,998.0	425.6	444.2	83.0	8.6	21.0	4,980.4
Only one oven(c)	3,683.1	417.6	441.2	81.7	8.3	19.6	4,651.4
Electric	2,493.0	252.7	297.7	62.1	*	10.2	3,117.0
Gas	1,105.9	164.0	143.3	19.6	*4.5	9.2	1,446.4
Wood	82.2	*	*	*	*2.4	*	85.7
Two or more ovens(all fuels)	314.9	8.0	*3.1	*	*	*	329.0
Microwave oven(d)	1,332.3	82.0	69.5	15.7	*	9.2	1,509.5
Can only use as microwave	1,183.8	71.2	63.3	11.5	*	6.9	1,337.6
Can also use as conventional oven	148.5	10.8	6.2	*4.2	*	*2.3	171.9
Obtained more than 1 year ago	836.6	42.9	35.8	10.4	*	*5.5	932.0
Obtained within the last 12 months	495.7	39.1	33.7	*5.3	*	*3.6	577.5
Replaced an older microwave	30.0	*	*	*	*	*	31.1
Ordinary grill(e)	3,720.0	401.7	419.9	79.0	*4.8	19.5	4,645.0
Vertical grill(d)	672.8	45.3	49.9	7.1	*	*2.2	777.7
Electric frypan skillet(d)	2,999.2	250.6	218.1	35.0	*4.8	13.4	3,521.2
Dishwasher	911.4	38.0	26.3	13.7	*	*5.9	995.2
Washing machine	3,919.1	376.3	309.4	54.8	*4.6	20.4	4,684.6
Automatic	3,035.8	269.5	228.2	42.8	*	16.8	3,595.1
Other	883.3	106.8	81.1	12.1	*2.6	*3.5	1,089.5
Clothes dryer	2,090.2	149.4	137.1	38.6	*2.3	10.7	2,428.3
Rotary	1,996.3	143.3	129.6	36.8	*2.2	10.7	2,318.8
Cabinet	93.9	6.1	7.5	*	*	*	109.4
Outside clothes line	3,982.8	416.2	399.5	43.0	10.1	20.5	4,872.2
Waterbed with inbuilt heater	357.8	23.0	21.0	*2.1	*	*	405.8
Ceiling fan	776.8	39.3	27.8	*5.7	*	*3.1	852.7
One	381.7	21.7	12.3	*2.7	*	*	437.2
Two or more	395.1	21.7	15.6	*2.9	*	*	437.2
Air-conditioning	1,610.0	114.7	42.7	8.0	*	7.0	1,783.0
Shared(f)	n.a.	*	*	*	n.a.	n.a.	*
Non-shared	1,610.0	114.7	41.9	7.5	*	7.0	1,781.7
Main heating-	n.a.	*	7.3	7.4	n.a.	n.a.	15.3
Shared(f)	3,774.7	396.3	386.3	61.4	8.4	19.7	4,646.8
Non-shared	1,482.1	230.1	321.0	56.6	*2.6	10.7	2,103.1
Electric	1,067.7	113.1	43.6	*3.9	*	*3.6	1,232.1
Gas	272.1	6.5	*	*	*	*	281.3
Oil	762.1	22.8	*2.0	*	*4.0	*3.6	794.6
Wood/solid fuel	190.6	23.8	18.1	*	*	*	235.7
Other source	3,774.7	396.8	393.7	68.8	8.4	19.7	4,662.0
Total with main heating	2,164.3	169.0	85.7	13.0	*	11.4	2,445.2
Also has secondary heating(g)	265.4	34.5	59.1	15.4	*3.4	*4.3	382.1
No heating at all	4,008.8	429.8	451.2	84.2	*4.6	23.3	5,001.8
Hot water system(h)	n.a.	15.9	85.6	25.1	n.a.	n.a.	126.6
Shared(f)	4,008.8	411.4	358.9	57.1	*4.6	23.3	4,864.2
Non-shared							
Total	4,040.0	431.4	452.8	84.2	11.8	24.0	5,044.1

For footnotes see end of table.

TABLE 2. APPLIANCES, FACILITIES AND CHARACTERISTICS BY TYPE OF DWELLING, AUSTRALIA, 1985-86—continued
(*000 of single households in private dwellings)

	Type of private dwelling						Total
	Separate house	Townhouse, villa, etc.(a)	Low rise, 2 or 3 storeys	High rise, 4 or more storeys	Mobile/improvised dwelling	Combined shop, etc. dwelling	
Swimming pool(f)	512.8	*4.6	n.a.	n.a.	n.a.	*	518.3
Filtered	502.3	*4.6	n.a.	n.a.	n.a.	*	507.8
Heated	41.3	*	n.a.	n.a.	n.a.	*	41.8
Not heated	461.0	*4.2	n.a.	n.a.	n.a.	*	466.0
Non-filtered	10.5	*	n.a.	n.a.	n.a.	*	10.5
Bore/well pump(f)	273.3	*5.4	n.a.	n.a.	n.a.	*	279.5
Domestic use	240.0	*3.8	n.a.	n.a.	n.a.	*	244.7
Non-domestic use	33.3	*	n.a.	n.a.	n.a.	*	34.8
Main material of outer walls(f)—							
Double brick	821.5	201.1	n.a.	n.a.	n.a.	10.8	1,033.4
Brick veneer	1,368.4	160.0	n.a.	n.a.	n.a.	*4.5	1,532.9
Stone, concrete, concrete block	190.3	27.5	n.a.	n.a.	n.a.	*2.8	220.5
Weatherboard/timber	971.2	25.2	n.a.	n.a.	n.a.	*5.0	1,001.4
Fibro/asbestos	543.9	14.5	n.a.	n.a.	n.a.	*	559.3
Other	144.7	*3.1	n.a.	n.a.	n.a.	*	147.8
Main material of roof(f)—							
Tiles	2,444.8	290.0	n.a.	n.a.	n.a.	*3.8	2,738.5
Metal	1,450.5	130.9	n.a.	n.a.	n.a.	19.5	1,600.9
Other	144.8	10.4	n.a.	n.a.	n.a.	*	155.9
Wall insulation(f)	654.9	17.4	n.a.	n.a.	n.a.	*	672.8
Batt blanket	157.1	*4.9	n.a.	n.a.	n.a.	*	162.0
Foil	391.8	8.6	n.a.	n.a.	n.a.	*	400.9
Granular loose fill	14.0	*	n.a.	n.a.	n.a.	*	14.9
Foam	32.8	*	n.a.	n.a.	n.a.	*	33.1
Other material	36.2	*	n.a.	n.a.	n.a.	*	36.2
Don't know type of insulation	23.0	*2.8	n.a.	n.a.	n.a.	*	25.8
Don't know if wall insulated	572.2	147.1	n.a.	n.a.	n.a.	6.2	725.5
Walls not insulated	2,812.9	266.9	n.a.	n.a.	n.a.	17.2	3,097.1
Roof insulation(f)	2,099.4	134.7	n.a.	n.a.	n.a.	*5.3	2,239.4
Batt blanket	1,261.2	84.7	n.a.	n.a.	n.a.	*3.1	1,349.0
Foil	223.9	11.3	n.a.	n.a.	n.a.	*	235.2
Granular loose fill	396.4	16.0	n.a.	n.a.	n.a.	*	413.3
Foam	62.2	*2.6	n.a.	n.a.	n.a.	*	65.1
Other material	44.7	*	n.a.	n.a.	n.a.	*	46.3
Don't know type of insulation	111.1	18.9	n.a.	n.a.	n.a.	*	130.5
Don't know if roof insulated	324.6	128.1	n.a.	n.a.	n.a.	6.4	459.1
Roof not insulated	1,616.0	168.7	n.a.	n.a.	n.a.	12.2	1,796.9
Dwelling owned or being bought	3,329.4	179.8	128.6	27.2	10.3	10.3	3,685.5
Household in dwelling 1 year or more	3,490.4	301.0	283.7	60.1	7.6	18.9	4,161.7
Age of dwelling(f)—							
Less than 2 years	163.7	21.6	n.a.	n.a.	n.a.	*	185.4
2 to 5 years	274.4	38.3	n.a.	n.a.	n.a.	*	313.1
More than 5 years	3,577.0	344.8	n.a.	n.a.	n.a.	22.4	3,944.2
Did not know	24.9	26.7	n.a.	n.a.	n.a.	*	52.7
Location of dwelling—							
New South Wales	1,325.4	121.7	230.7	55.8	*6.2	*4.6	1,744.5
Sydney	762.3	92.4	205.2	55.8	*	*3.1	1,119.5
Victoria	1,047.1	125.7	104.3	10.8	*1.7	10.6	1,300.2
Melbourne	717.1	106.6	98.0	10.8	*	6.8	939.3
Queensland	691.0	37.1	66.8	10.7	*1.9	*3.6	811.1
Brisbane	325.0	16.7	35.2	4.9	*	*	381.7
South Australia	384.0	70.4	18.4	*	*	*1.7	475.1
Adelaide	276.3	56.3	17.6	*	*	*1.3	352.1
Western Australia	378.0	56.4	20.0	6.0	*	*1.3	462.6
Perth	273.5	47.7	19.5	6.0	*	*	347.4
Tasmania	125.0	11.9	*5.5	*	*0.8	*1.7	145.1
Hobart	49.3	6.6	*3.8	*	*	*	60.3
Northern Territory	20.6	*0.8	*3.4	*	*	0.6	26.7
Australian Capital Territory	68.8	6.3	*3.7	*	*	*	78.8
Total	4,040.0	431.4	452.8	84.2	11.8	24.0	5,044.1

(a) Includes terrace houses, single storey flats, duplexes and other semi-detached dwellings. (b) External doors only. (c) Includes ovens using other fuels. (d) Refer Explanatory Notes, paragraph 30. (e) Not asked where the household had no conventional oven. (f) Not asked at mobile; improvised, high or low rise dwellings (as indicated by the symbol 'n.a.'). (g) Includes households with shared main heating. (h) Includes respondents who did not know if the facility was shared.

TABLE 3. APPLIANCES/FACILITIES BY STATE AND STATE CAPITAL CITIES, 1985-86
(¹ 000 of single households in private dwellings)

Appliance/facility	N.S.W.		Vic.		Qld		S.A.	
	Sydney	Total	Melbourne	Total	Brisbane	Total	Adelaide	Total
Refrigerator	1,114.8	1,734.7	935.7	1,295.2	380.9	808.8	351.7	474.7
One door(a)	427.4	676.6	390.0	590.6	136.3	309.1	143.9	203.9
Two door(a)	544.0	819.4	425.8	558.6	178.0	368.1	155.1	201.7
Combination(a)	143.4	238.7	110.9	146.0	66.5	131.6	52.7	69.1
Freezer	394.3	788.7	354.6	564.3	149.3	390.5	155.2	241.2
Top opening	241.4	534.0	211.7	365.9	102.8	280.2	86.3	142.3
Frost opening	153.0	254.7	142.9	198.4	46.5	101.3	68.9	98.8
Hotplates	1,113.4	1,709.8	935.4	1,279.2	378.2	791.3	351.6	470.8
Electric only	817.0	1,304.2	340.6	548.5	286.7	624.7	164.8	259.7
Gas only	290.7	394.2	585.2	717.6	89.3	157.1	184.5	205.9
Combination	*5.6	11.5	9.5	13.2	*2.2	9.4	*2.3	5.2
Conventional oven	1,108.7	1,726.8	932.3	1,289.5	373.8	792.0	346.9	468.2
Only one oven(b)	1,062.6	1,631.5	877.6	1,190.0	362.8	750.0	331.8	437.5
Electric	789.7	1,239.2	396.9	573.1	276.2	591.4	160.8	245.0
Gas	271.7	360.2	478.6	592.9	85.2	142.0	170.8	188.7
Wood/solid fuel	*	30.3	*2.0	23.8	*1.4	16.6	*	3.5
Two or more ovens (all fuels)	46.1	95.3	54.7	99.5	11.1	42.0	15.1	30.7
Microwave oven(c)	355.5	584.1	230.5	316.9	114.5	245.6	96.2	138.5
Electric frypan/skillet(c)	714.0	1,223.3	546.8	817.0	301.4	645.7	236.9	336.1
Vertical grill(c)	182.6	296.3	102.9	156.1	63.3	124.0	72.9	100.9
Dishwasher	224.7	326.3	228.8	294.0	83.7	183.2	52.4	67.1
Washing machine	1,019.2	1,611.7	849.9	1,195.0	359.2	763.8	332.6	447.7
Automatic	860.0	1,277.2	743.7	972.7	284.4	561.4	243.7	290.4
Other	159.2	334.5	106.1	222.3	74.8	202.4	88.9	157.4
Clothes dryer	563.1	871.2	477.6	673.8	180.0	371.4	162.2	219.3
Rotary	534.2	829.1	456.0	641.8	176.5	364.4	150.9	201.5
Cabinet	28.9	42.1	21.6	32.0	*3.5	6.9	11.3	17.8
Waterbed with heater	72.6	144.3	55.1	81.1	38.1	99.0	30.1	40.5
Ceiling fan	123.4	229.7	61.5	93.2	127.4	318.3	56.5	74.0
One	81.9	137.7	46.5	69.4	53.8	107.6	32.7	43.0
Two or more	41.5	91.9	15.1	23.8	73.6	210.6	23.9	31.0
Air-conditioning	326.9	573.9	365.2	527.0	50.3	153.7	233.0	300.7
Main heating	1,066.4	1,668.8	932.2	1,292.1	292.1	582.9	348.3	470.4
Shared(e)	*	*	14.6	14.6	*	*	*	*
Non-shared	1,066.4	1,668.8	917.6	1,277.5	292.1	582.9	348.3	470.4
Electric	757.7	1,015.1	178.1	260.8	232.8	419.8	141.6	182.9
Gas	138.0	222.1	645.7	774.6	*1.4	11.6	116.6	129.4
Oil	47.0	96.6	32.4	63.0	*3.3	11.6	27.3	41.5
Wood/solid fuel	77.6	255.4	51.3	163.8	17.9	65.7	49.4	98.7
Other source	46.1	79.7	10.1	15.4	36.7	74.2	13.5	17.8
No heating at all	53.0	75.6	7.1	8.1	89.6	228.1	3.8	4.7
Hot water system(d)	1,115.8	1,731.5	938.9	1,295.0	380.7	796.4	351.5	472.2
Shared(e)	40.9	45.7	49.0	49.4	12.4	19.6	3.8	6.2
Non-shared	1,072.6	1,681.8	886.2	1,241.2	367.2	775.8	347.0	465.2
Wall insulation(f)	104.8	205.0	159.9	255.1	26.5	86.4	38.7	59.1
Roof insulation(f)	417.1	688.0	562.0	786.9	54.2	128.9	229.7	293.3
Swimming pool(e)	145.5	189.2	96.0	122.1	50.4	88.4	34.5	41.3
Filtered	144.9	187.3	92.6	117.7	49.7	86.4	34.3	41.1
Heated	*5.5	*5.5	22.8	25.5	*1.9	*3.0	3.4	4.0
Bore/well pump(e)	15.4	77.1	8.1	26.9	*2.2	53.3	4.9	19.8
Domestic use	12.4	64.0	7.8	23.3	*1.6	48.4	*3.3	13.7
Non-domestic use	*3.0	13.0	*	*3.6	*	4.9	*1.6	6.1
Total	1,119.5	1,744.5	939.3	1,300.2	381.7	811.1	352.1	475.1
Separate dwellings, etc.(f)	857.9	1,451.8	830.4	1,183.4	341.7	731.7	333.9	456.1

For footnotes see end of table.

TABLE 3. APPLIANCES/FACILITIES BY STATE AND STATE CAPITAL CITIES, 1985-86—continued
(^c 000 of single households in private dwellings)

Appliance/facility	W.A.		Tas.		N.T.	A.C.T.	Australia	
	Perth	Total	Hobart	Total			State capitals	Total
Refrigerator	346.4	460.7	59.9	144.3	26.5	78.6	3,189.4	5,023.5
One door(a)	144.7	206.0	34.5	84.5	7.3	28.0	1,285.9	2,106.1
Two door(a)	147.3	186.8	21.2	50.5	15.7	41.9	1,471.5	2,242.7
Combination(a)	54.4	67.9	4.2	9.3	3.5	8.7	432.0	674.7
Freezer	134.2	210.3	36.0	93.2	15.4	38.8	1,223.5	2,342.4
Top opening	81.9	138.2	28.2	77.3	11.7	24.7	752.3	1,583.3
Front opening	52.3	72.1	7.7	15.9	3.7	14.1	471.2	759.1
Hotplates	344.8	455.7	59.7	142.2	25.7	78.4	3,183.1	4,953.1
Electric only	213.4	254.3	58.9	137.1	21.7	74.8	1,881.4	3,224.9
Gas only	127.5	195.8	*0.6	4.4	3.5	*3.6	1,277.8	1,682.0
Combination	3.9	5.7	*	*0.7	*	*	23.9	46.2
Conventional oven	341.3	456.0	59.8	144.5	25.3	78.2	3,162.9	4,980.4
Only one oven(b)	313.3	410.0	57.3	138.4	25.0	69.1	3,005.3	4,651.4
Electric	210.2	247.7	56.2	131.3	22.6	66.8	1,890.0	3,117.0
Gas	101.0	153.9	*0.5	4.0	*2.4	*2.3	1,107.8	1,446.4
Wood solid fuel	*2.1	8.4	*0.5	3.0	*	*	7.5	65.7
Two or more ovens (all fuels)	28.0	46.0	2.6	6.1	*	9.1	157.6	329.0
Microwave oven(c)	118.5	154.8	15.9	32.0	9.7	28.0	931.1	1,509.5
Electric frypan skillet(e)	225.9	301.1	50.6	123.5	16.7	57.8	2,075.6	3,521.2
Vertical grill(e)	40.7	53.7	14.9	35.4	3.8	7.4	477.2	777.7
Dishwasher	53.5	68.5	10.9	24.0	6.7	25.5	654.0	995.2
Washing machine	319.3	425.8	58.9	141.4	24.8	74.4	2,939.1	4,684.6
Automatic	241.8	306.1	44.7	96.2	21.7	69.4	2,418.4	3,595.1
Other	77.5	119.7	14.2	45.2	*3.1	5.0	520.8	1,089.5
Clothes dryer	123.3	159.1	35.9	82.4	9.4	41.8	1,542.1	2,428.3
Rotary	117.5	152.0	34.4	79.5	9.4	41.2	1,469.5	2,318.8
Cabinet	5.7	7.1	*1.5	2.9	*	*	72.7	109.4
Waterbed with heater	12.6	15.5	3.0	9.1	*2.7	13.7	211.4	405.8
Ceiling fan	86.7	113.0	*0.6	*1.0	19.2	4.4	456.1	852.7
One	43.0	52.8	*	*0.6	*0.9	*3.4	258.1	415.5
Two or more	43.7	60.2	*	*	18.3	*	198.0	437.2
Air-conditioning	131.6	186.4	*0.5	*0.7	17.4	23.2	1,107.4	1,783.0
Main heating	325.7	421.9	60.1	144.7	*2.3	78.8	3,024.7	4,662.0
Shared(e)	*	*	*	*	*	*	14.6	15.3
Non-shared	325.7	421.9	60.1	144.7	*2.3	78.2	3,010.1	4,646.8
Electric	108.9	130.3	24.9	47.1	*0.9	46.2	1,443.9	2,103.1
Gas	73.8	82.8	1.8	4.2	*	7.0	977.1	1,232.1
Oil	33.3	42.3	8.0	14.5	*	11.3	151.3	281.3
Wood solid fuel	71.4	120.1	25.0	77.4	*	13.2	292.6	794.6
Other source	38.4	46.3	*	*1.5	*	*	145.2	235.7
No heating at all	21.7	40.7	*	*	24.4	*	175.5	382.1
Hot water system(d)	347.2	459.6	60.0	142.7	25.5	78.8	3,194.1	5,001.8
Shared(e)	*3.0	*3.2	*	*	*	*1.9	109.1	126.6
Non-shared	343.7	455.9	59.8	142.4	25.0	76.9	3,076.5	4,864.2
Wall insulation(e)	7.8	21.3	7.4	28.1	4.5	13.2	345.1	672.8
Roof insulation(e)	158.9	201.5	30.1	72.4	9.3	59.1	1,452.0	2,239.4
Swimming pool(e)	50.8	56.6	3.8	8.0	4.6	8.1	381.0	518.3
Filtered	49.5	55.3	3.6	7.7	4.6	7.9	374.6	507.8
Heated	*	*	*1.2	*1.7	*	*	35.6	41.8
Bore/well pump(e)	81.0	96.4	*0.8	5.5	*	*	112.4	279.5
Domestic use	77.6	90.0	*0.6	4.7	*	*	103.4	244.7
Non-domestic use	*3.4	6.4	*	*0.9	*	*	9.0	34.8
Total	347.4	462.6	60.3	145.1	26.7	78.8	3,200.2	5,044.1
Separate dwellings, etc.(f)	321.8	435.7	56.2	138.6	23.2	75.1	2,741.8	4,495.4

(a) External doors only. (b) Includes ovens using other fuels. (c) Refer Explanatory Notes, paragraph 30. (d) Includes respondents who did not know if the facility was shared. (e) Not asked at mobile/improvised, high or low rise dwellings, see Table 2. (f) Total dwellings asked about insulation, etc. (see previous footnote).

TABLE 4. APPLIANCES/FACILITIES BY NUMBER OF ADULTS AND CHILDREN USUALLY RESIDENT, AUSTRALIA, 1985-86
('000 of single households in private dwellings)

Appliance/facility	Household composition							
	One adult				Two adults			
	Number of children				Number of children			
	None	1 or 2	3 or more	Total	None	1 or 2	3 or more	Total
Refrigerator	898.5	117.7	24.2	1,040.4	1,490.0	946.3	312.9	2,749.2
One door(a)	510.5	53.2	12.1	575.7	606.8	348.0	122.0	1,076.8
Two door(a)	347.9	59.3	11.2	418.5	693.6	460.7	145.2	1,299.5
Combination(a)	40.1	*5.2	*	46.2	189.7	137.6	45.7	372.9
Freezer	191.1	37.7	10.5	239.2	639.4	525.6	207.3	1,372.2
Top opening	122.4	25.7	7.8	155.9	416.5	354.2	144.9	915.6
Front opening	68.7	12.0	*2.6	83.3	222.9	171.4	62.4	456.6
Hotplates	877.6	117.7	24.2	1,019.5	1,467.9	938.6	310.6	2,717.1
Electric only	556.8	74.4	14.6	645.8	951.3	626.8	214.3	1,792.4
Gas only	316.1	41.8	9.6	367.5	502.6	305.7	94.1	902.5
Combination	*4.7	*	*	6.2	14.0	6.1	*2.2	22.2
Conventional oven	885.3	118.2	24.0	1,027.6	1,480.8	935.9	309.8	2,726.6
Only one oven(b)	850.5	112.3	22.4	985.3	1,383.3	884.9	283.2	2,551.3
Electric	540.3	71.5	13.0	624.9	914.1	622.4	204.0	1,740.5
Gas	287.7	38.8	9.4	335.8	442.5	248.4	75.3	766.2
Wood solid fuel	21.9	*2.0	*	24.0	26.4	13.8	*3.6	43.8
Two or more ovens (all fuels)	34.8	*5.9	*	42.3	97.5	51.0	26.7	175.2
Microwave oven(c)	123.9	28.6	6.9	159.4	394.0	377.3	118.3	889.7
Electric frypan skillet(c)	517.5	72.8	17.5	607.9	1,063.4	715.8	246.0	2,025.2
Vertical grill(c)	96.1	13.8	*3.9	113.8	256.2	160.1	55.9	472.2
Dishwasher	55.2	12.5	*2.9	70.6	220.4	272.6	103.9	596.9
Washing machine	720.2	109.9	23.8	853.9	1,391.8	928.4	308.9	2,629.0
Automatic	443.5	81.0	17.9	542.4	1,027.2	794.2	259.8	2,081.2
Other	276.7	28.9	*5.9	311.4	364.6	134.1	49.1	547.8
Clothes dryer	204.7	67.9	15.3	288.0	589.2	646.2	230.2	1,465.6
Rotary	187.3	65.7	14.9	267.9	550.4	631.8	222.7	1,404.9
Cabinet	17.4	*2.2	*	20.1	38.8	14.4	7.5	60.7
Waterbed with heater	24.1	8.7	*2.7	35.6	96.7	117.6	41.9	256.3
Ceiling fan	97.3	12.8	*3.0	113.2	271.6	179.2	65.3	516.0
One	56.9	7.8	*	66.6	142.7	78.3	30.3	251.3
Two or more	40.4	*5.0	*	46.6	128.9	100.9	34.9	264.7
Air-conditioning	218.7	27.2	6.8	252.7	545.1	367.9	121.9	1,034.9
Main heating	815.5	107.6	20.8	943.8	1,389.4	879.5	289.9	2,558.8
Shared(e)	6.3	*	*	7.0	*3.4	*	*	*4.4
Non-shared	809.2	106.8	20.8	936.8	1,386.1	878.5	289.9	2,554.5
Electric	487.1	48.4	8.1	543.6	657.0	339.9	104.9	1,101.8
Gas	173.6	31.2	*5.5	210.3	357.6	255.1	73.3	686.0
Oil	33.3	*5.1	*	38.7	90.7	38.9	18.9	148.4
Wood solid fuel	90.2	13.1	*5.3	108.6	214.3	193.1	74.5	481.9
Other source	24.9	9.1	*	35.7	66.5	51.5	18.3	136.3
No heating at all	90.7	11.8	*3.5	105.9	105.5	69.8	23.9	199.2
Hot water system(d)	885.2	118.9	24.2	1,028.3	1,484.2	944.5	312.3	2,741.0
Shared(e)	64.6	*2.9	*	67.6	37.7	7.8	*	46.4
Non-shared	816.3	115.2	24.2	955.8	1,442.7	936.3	311.4	2,690.4
Wall insulation(e)	52.2	9.2	*	61.9	180.7	167.1	58.2	406.0
Roof insulation(e)	250.7	37.1	9.1	296.9	639.7	480.4	167.1	1,287.3
Swimming pool(f)	15.2	7.3	*4.3	26.8	90.7	150.9	56.9	298.4
Filtered	14.1	7.0	*4.0	25.1	89.2	149.2	55.9	294.3
Heated	*	*	*	*	10.2	9.4	*3.0	22.6
Total	906.1	119.3	24.2	1,049.7	1,494.9	949.3	313.8	2,758.0
Separate dwellings, etc(f)	666.6	95.0	23.7	785.3	1,310.5	901.9	308.1	2,520.5

For footnotes see end of table.

TABLE 4. APPLIANCES/FACILITIES BY NUMBER OF ADULTS AND CHILDREN USUALLY RESIDENT, AUSTRALIA,
1985-86—continued
(* 000 of single households in private dwellings)

Appliance/facility	Household composition							
	Three or more adults				Total			
	Number of children			Total	Number of children			Total
	None	1 or 2	3 or more		None	1 or 2	3 or more	
Refrigerator	745.3	429.1	59.4	1,233.9	3,133.8	1,493.1	396.6	5,023.5
One door(a)	269.9	157.2	26.4	453.5	1,387.1	550.4	160.6	2,106.1
Two door(a)	330.6	178.9	25.3	534.8	1,362.0	698.9	181.7	2,242.7
Combination(a)	154.8	93.1	7.7	255.6	384.6	235.9	54.2	674.7
Freezer	413.6	276.2	41.2	731.0	1,244.1	839.5	258.9	2,342.4
Top opening	283.0	199.3	29.5	511.8	822.0	579.2	182.2	1,583.3
Front opening	130.6	76.9	11.7	219.2	422.1	260.3	76.7	759.1
Hotplates	736.6	421.1	58.8	1,216.5	3,082.0	1,477.4	393.7	4,953.1
Electric only	472.7	282.1	31.9	786.8	1,980.7	983.4	260.8	3,224.9
Gas only	254.1	133.1	24.8	412.0	1,072.8	480.6	128.5	1,682.0
Combination	9.7	*5.9	*2.1	17.7	28.4	13.5	*4.3	46.2
Conventional oven	740.4	426.2	59.6	1,226.2	3,106.6	1,480.3	393.5	4,980.4
Only one oven(b)	675.8	384.6	54.4	1,114.7	2,909.6	1,381.8	359.9	4,651.4
Electric	451.2	269.0	31.4	751.7	1,905.7	962.9	248.5	3,117.0
Gas	214.6	107.7	22.1	344.4	944.8	394.8	106.8	1,446.4
Wood/solid fuel	9.2	*7.9	*	17.9	57.5	23.7	*4.5	85.7
Two or more ovens (all fuels)	64.6	41.6	*5.3	111.5	196.9	98.5	33.5	329.0
Microwave oven(c)	269.8	170.7	19.9	460.4	787.7	576.7	145.1	1,509.5
Electric frypan/skillet(c)	539.7	308.6	39.8	888.1	2,120.6	1,097.3	303.3	3,521.2
Vertical grill(c)	120.3	65.9	*5.5	191.7	472.6	239.8	65.3	777.7
Dishwasher	181.5	129.5	16.8	327.8	457.0	414.7	123.5	995.2
Washing machine	719.9	422.8	59.0	1,201.7	2,831.9	1,461.1	391.6	4,684.6
Automatic	571.9	353.7	45.9	971.5	2,042.6	1,228.9	323.6	3,595.1
Other	148.1	69.1	13.1	230.2	789.3	232.1	68.1	1,089.5
Clothes dryer	385.5	253.4	35.8	674.7	1,179.4	967.5	281.3	2,428.3
Rotary	366.4	243.7	35.8	646.0	1,104.2	941.2	273.5	2,318.8
Cabinet	19.0	9.6	*	28.7	75.3	26.3	7.9	109.4
Waterbed with heater	66.6	43.3	*3.9	113.9	187.5	169.6	48.6	405.8
Ceiling fan	133.8	78.7	11.0	223.6	502.7	270.7	79.3	852.7
One	60.0	33.5	*4.1	97.6	259.6	119.6	36.3	415.5
Two or more	73.8	45.2	6.9	126.0	243.1	151.1	43.0	437.2
Air-conditioning	301.6	170.7	23.1	495.3	1,065.4	565.8	151.7	1,783.0
Main heating	701.6	401.6	56.2	1,159.4	2,906.5	1,388.7	366.9	4,662.0
Shared(c)	*	*2.3	*	*3.9	11.2	*4.1	*	15.3
Non-shared	700.0	399.3	56.2	1,155.5	2,895.3	1,384.6	366.9	4,646.8
Electric	286.6	152.5	18.6	457.8	1,430.8	540.7	131.6	2,103.1
Gas	208.4	108.5	18.9	335.8	739.6	394.8	97.7	1,232.1
Oil	63.1	28.4	*2.8	94.2	187.0	72.3	21.9	281.3
Wood/solid fuel	104.0	87.9	12.1	204.0	408.5	294.2	91.9	794.6
Other source	37.9	22.0	*3.8	63.7	129.4	82.6	23.7	235.7
No heating at all	45.0	28.2	*3.8	77.0	241.2	109.7	31.2	382.1
Hot water system(d)	744.4	429.0	59.0	1,232.5	3,113.8	1,492.4	395.6	5,001.8
Shared(c)	8.8	*3.3	*	12.6	111.2	14.1	*	126.6
Non-shared	734.3	425.2	58.5	1,218.0	2,993.3	1,478.7	394.2	4,864.2
Wall insulation(e)	114.6	81.3	9.0	204.9	347.5	257.6	67.8	672.8
Roof insulation(e)	392.2	235.4	27.7	655.3	1,282.7	752.9	203.8	2,239.4
Swimming pool(e)	88.1	94.9	10.0	193.0	194.0	253.1	71.2	518.3
Filtered	86.9	91.5	10.0	188.4	190.2	247.7	69.9	507.8
Heated	9.8	7.3	*	18.1	20.8	16.7	*4.3	41.8
Total	746.6	429.7	60.0	1,236.4	3,147.7	1,498.4	398.0	5,044.1
Separate dwellings, etc.(f)	712.5	418.2	58.9	1,189.5	2,689.5	1,415.2	390.7	4,495.4

(a) External doors only. (b) Includes ovens using other fuels. (c) Refer Explanatory Notes, paragraph 30. (d) Includes respondents who did not know if the facility was shared. (e) Not asked at mobile, improvised, high or low rise dwellings, see Table 2. (f) Total dwellings asked about insulation, etc. (see previous footnote).

TABLE 5. APPLIANCES/FACILITIES BY ANNUAL HOUSEHOLD INCOME (a), AUSTRALIA, 1985-86.
(¹ 000 of single households in private dwellings)

Appliance/facility	Annual Household Income(a)										Not stated	Total
	Under \$5,200	\$5,201 to \$10,400	\$10,401 to \$15,600	\$15,601 to \$20,800	\$20,801 to \$26,000	\$26,001 to \$31,200	\$31,201 to \$36,400	\$36,401 to \$46,800	\$46,801 and over			
Refrigerator	330.8	904.5	627.8	758.1	642.3	504.8	339.2	434.0	355.7	126.4	5,023.5	
One door(b)	201.8	429.3	292.3	317.2	245.7	189.3	124.6	149.1	108.1	48.9	2,106.1	
Two door(b)	114.6	404.7	265.8	340.5	302.6	231.9	155.6	202.7	169.7	54.5	2,242.7	
Combination(b)	14.4	70.5	69.7	100.4	94.0	83.6	58.9	82.2	77.9	23.0	674.7	
Freezer	94.2	384.0	303.9	378.3	333.0	259.1	167.9	205.0	157.9	59.1	2,342.4	
Top opening	62.1	262.4	217.2	267.9	225.5	170.2	107.9	133.3	98.9	38.1	1,583.3	
Front opening	32.1	121.6	86.7	110.4	107.6	89.0	59.9	71.7	59.1	21.1	759.1	
Hotplates	318.7	883.3	616.3	750.3	635.2	500.3	338.7	433.1	353.1	124.1	4,953.1	
Electric only	196.5	552.0	399.2	485.3	413.3	331.7	231.0	293.4	229.8	92.7	3,224.9	
Gas only	119.7	326.1	210.8	257.0	215.3	166.2	105.2	135.4	115.8	30.5	1,682.0	
Combination	*2.5	*5.2	6.3	8.0	6.6	*2.3	*2.5	*4.3	7.4	*	46.2	
Conventional oven	325.2	899.2	623.2	754.2	634.7	501.6	338.1	428.7	352.4	123.1	4,980.4	
Only one oven(c)	305.7	841.9	585.8	713.6	592.5	471.3	320.0	394.8	310.4	113.4	4,651.4	
Electric	186.9	525.5	383.6	477.2	401.7	326.5	229.2	285.5	218.0	82.9	3,117.0	
Gas	104.2	288.3	187.5	226.4	186.0	139.6	88.3	107.1	91.1	27.8	1,446.4	
Wood solid fuel	14.5	28.9	14.8	10.0	*4.5	*4.7	*2.5	*2.1	*	*2.7	85.7	
Two or more ovens (all fuels)	19.5	55.2	37.4	40.6	42.1	30.4	18.1	34.0	42.0	9.7	329.0	
Microwave oven(d)	39.0	171.8	153.9	228.9	223.5	189.4	132.7	185.2	145.6	39.4	1,509.5	
Electric frypan/skillet(d)	207.3	609.9	436.2	533.3	477.2	368.7	248.8	313.1	240.4	86.4	3,521.2	
Vertical grill(d)	38.5	128.7	96.6	123.9	104.1	84.1	55.7	69.4	58.0	18.6	777.7	
Dishwasher	12.2	62.8	85.5	126.8	142.1	123.8	100.0	149.0	161.8	31.4	995.2	
Washing machine	277.3	830.5	583.2	709.0	603.0	478.4	324.5	416.6	341.3	118.7	4,684.6	
Automatic	148.3	521.0	418.6	551.1	490.4	410.3	274.9	372.8	311.1	96.6	3,595.1	
Other	129.0	309.5	164.7	157.9	112.6	68.1	49.6	43.9	32.2	22.1	1,089.5	
Clothes dryer	57.6	279.3	273.9	388.1	360.6	290.3	204.5	272.1	236.1	65.7	2,428.3	
Rotary	54.0	259.1	259.3	372.7	344.3	278.3	197.8	261.1	229.7	62.4	2,318.8	
Cabinet	*3.6	20.2	14.6	15.4	16.4	11.9	6.8	10.9	6.4	*3.3	109.4	
Waterbed with heater	*5.7	30.8	48.0	68.5	65.6	47.4	35.2	53.6	39.8	11.1	405.8	
Ceiling fan	39.2	145.3	100.5	128.2	106.7	88.6	66.3	83.4	65.7	28.9	852.7	
One	25.6	77.8	47.6	64.4	51.3	41.9	32.9	36.3	27.9	9.9	415.5	
Two or more	13.6	67.5	53.0	63.8	55.4	46.7	33.3	47.1	37.8	19.0	437.2	
Air-conditioning	84.7	298.3	225.3	279.1	240.8	180.4	127.2	161.9	139.8	45.4	1,783.0	
Main heating	303.3	834.5	578.3	709.5	595.7	468.2	316.9	401.7	337.3	116.5	4,662.0	
Shared(f)	*4.3	*3.6	*	*3.4	*	*	*	*	*	*	15.3	
Non-shared	299.0	831.0	576.8	706.2	594.8	467.8	316.5	401.4	336.9	116.5	4,646.8	
Electric	156.6	403.8	256.7	304.7	263.2	196.3	138.5	176.3	153.1	54.0	2,103.1	
Gas	68.0	196.7	141.2	190.5	166.0	132.3	98.0	118.0	99.9	21.5	1,232.1	
Oil	12.0	46.1	37.5	40.1	32.7	29.2	19.1	25.8	25.3	13.6	281.3	
Wood solid fuel	49.4	138.0	110.6	130.8	103.6	84.6	47.3	61.5	48.0	20.7	794.6	
Other source	13.1	46.4	30.8	40.1	29.4	25.8	13.6	19.8	10.6	6.7	235.7	
No heating at all	30.2	75.6	53.3	51.6	47.3	37.7	24.3	32.3	18.6	11.3	382.1	
Hot water system(g)	321.5	898.1	623.3	757.3	641.1	505.6	340.3	433.3	355.9	125.4	5,001.8	
Shared(f)	15.6	23.1	15.4	18.7	18.4	10.3	8.2	6.9	7.5	*2.5	126.6	
Non-shared	305.8	873.0	606.2	736.7	621.8	494.6	331.8	424.1	347.2	122.9	4,864.2	
Wall insulation(f)	19.5	87.0	64.1	110.2	98.2	86.7	63.8	69.2	58.4	16.0	672.8	
Roof insulation(f)	95.7	348.8	254.9	341.8	296.0	257.7	171.8	226.0	189.2	57.4	2,239.4	
Swimming pool(f)	*4.0	28.2	40.6	77.2	76.2	64.6	55.4	75.1	77.5	19.4	518.3	
Filtered	*4.0	26.5	38.6	76.4	72.9	63.3	54.7	74.7	77.3	19.4	507.8	
Heated	*	*	*	*4.4	*4.8	*3.0	*3.5	8.6	13.2	*	41.8	
Total	333.5	910.1	631.6	761.1	642.9	505.9	341.2	434.0	355.9	127.8	5,044.1	
Separate dwellings, etc.(g)	282.8	799.3	560.1	678.6	574.3	453.9	309.3	394.6	327.7	114.8	4,495.4	

(a) Excludes income of household members who did not contribute directly to the payment of household bills, refer Explanatory Notes, paragraph 19. (b) External doors only. (c) Includes ovens using other fuels. (d) Refer Explanatory Notes, paragraph 30. (e) Includes respondents who did not know if the facility was shared. (f) Not asked at mobile/improved, high or low rise dwellings, see Table 2. (g) Total dwellings asked about insulation, etc. (see previous footnote).

TABLE 6. TYPE OF HOT WATER SYSTEM BY STATE AND STATE CAPITAL CITIES, 1985-86.
(^c 000 of single households in private dwellings)

Type of hot water system	N.S.W.		Vic.		Qld		S.A.	
	Sydney	Total	Melbourne	Total	Brisbane	Total	Adelaide	Total
Has a hot water system(a)	1,115.8	1,731.5	938.9	1,295.0	380.7	796.4	351.5	472.2
Shared hot water system(b)	40.9	45.7	49.0	49.4	12.4	19.6	3.8	6.2
Non-shared hot water system	1,072.6	1,685.8	886.2	1,241.2	367.2	775.8	347.0	465.2
Has only one hot water system	1,034.1	1,620.5	865.9	1,203.5	367.2	775.8	347.0	465.2
Electric	824.8	1,297.7	360.4	553.0	264.4	761.3	329.8	444.2
Instantaneous(c)	130.7	187.3	7.5	12.8	1.5	5.1	3.5	8.4
Storage(d)	683.4	1,097.2	347.8	532.4	293.0	623.3	344.4	444.2
Don't know(d)	8.6	13.2	5.0	7.8	*	617.4	142.9	231.5
Was using off-peak tariff	291.4	361.7	40.9	50.8	125.6	327.1	17.4	26.4
Was not using off-peak tariff	372.1	700.6	295.2	470.4	141.4	237.6	118.7	197.3
Did not know if using off-peak tariff	30.5	48.1	16.7	18.9	26.2	53.5	8.9	10.4
Gas(e)	176.2	239.6	496.8	605.4	55.1	81.1	170.4	182.6
Instantaneous	67.7	86.7	138.4	165.7	32.0	43.5	53.7	56.9
Storage	104.1	137.1	355.1	435.3	22.8	37.1	115.5	124.3
Don't know	4.3	5.9	3.3	4.4	*	*	4.2	4.4
Solar	32.2	62.3	*	8.3	11.8	40.4	10.6	15.1
Electric boosted	30.5	57.3	*	7.0	11.8	38.6	10.0	14.3
Was using off-peak tariff	19.5	34.1	*	*	11.3	36.6	6.0	9.4
Was not using off-peak tariff	9.8	20.9	*	6.3	*	*	3.6	4.5
Did not know if using off-peak tariff	*	*	*	*	*	*	*	*
Gas boosted (c)	*	*	*	*	*	*	*	*
Other boosted	*	*	*	*	*	*	*	*
Not boosted	*	33.2	*	*	*	11.7	*	*
Wood/solid fuel	*	29.9	7.7	35.3	*	16.6	*	33.2
Other source	*	*	*	*	*	*	*	30.9
Has more than one hot water system	38.5	61.4	20.3	37.7	44.8	14.5	17.1	21.0
At least one system is electric storage type	23.5	37.1	15.3	31.8	33.6	12.0	11.6	14.6
At least one system is using off-peak tariff	12.4	16.1	3.6	4.5	1.4	8.2	2.7	2.5
None were using off-peak tariff	10.1	19.8	11.3	26.7	11.0	33.3	5.9	9.2
Did not know if using off-peak tariff	*	*	*	*	*	*	*	*
None were electric, storage type systems	15.0	24.2	55.0	55.9	*	22.5	8.9	9.4
Subtotal — has a non-shared storage type hot water system using off-peak tariff electricity	323.3	411.9	44.9	56.0	138.3	371.9	25.8	38.4
Did not have a hot water system	33.7	12.9	*	5.2	*	14.6	*	2.9
Total	1,119.5	1,744.5	939.3	1,300.2	381.7	811.1	352.1	475.1

TABLE 6. TYPE OF HOT WATER SYSTEM BY STATE AND STATE CAPITAL CITIES, 1985-86—continued
(^c 000 of single households in private dwellings)

Type of hot water system	W.A.		Tas.		N.T.		A.C.T.		Australia	
	Perth	Total	Hobart	Total					capitals	State Total
Has a hot water system(a)	347.2	459.6	60.0	142.7	25.5	78.8	3,194.1	17.1	5,001.8	
Shared hot water system(b)	33.0	33.2	*	*	*	1.9	109.1	126.6		
Non-shared hot water system	314.2	426.4	59.8	142.4	25.0	76.9	3,076.5	4,864.2		
Has only one hot water system	330.5	438.6	57.3	137.5	24.5	72.6	2,980.1	4,702.7		
Electric	116.9	142.9	56.4	132.0	13.9	64.5	1,801.5	3,069.6		
Instantaneous(c)	62.6	66.7	*	*	*	11.0	205.8	281.8		
Storage(d)	54.1	75.9	56.3	131.3	12.1	63.9	1,579.5	2,761.8		
Don't know(d)	*	*	*	*	*	*	16.2	26.1		
Was using off-peak tariff	53.7	75.5	51.9	121.4	12.5	62.9	581.0	1,038.4		
Was not using off-peak tariff	*	*	8.9	14.4	*	1.4	931.2	1,616.9		
Did not know if using off-peak tariff	*	*	11.0	14.4	*	*	83.5	132.6		
Gas(e)	106.2	141.5	*	11.4	*	22.9	1,004.6	1,244.8		
Instantaneous	73.4	100.1	*	*	*	*	365.2	453.6		
Storage	32.4	41.0	*	10.9	*	22.9	629.9	778.7		
Don't know	*	*	*	*	*	*	9.5	12.5		
Solar	86.8	107.3	*	*	*	10.4	4.8	142.1	248.7	
Electric boosted	83.1	101.9	*	*	*	8.0	4.7	136.0	231.9	
Was using off-peak tariff	82.7	101.3	*	*	7.5	4.4	119.9	194.2		
Was not using off-peak tariff	*	*	*	*	*	*	14.3	33.5		
Did not know if using off-peak tariff	*	*	*	*	*	*	*	4.2		
Gas boosted (c)	*	*	*	*	*	*	*	2.6		
Other boosted	22.7	33.5	*	*	*	*	33.0	53.3		
Not boosted	*	11.6	*	*	23.3	*	2.2	8.9		
Wood/solid fuel	14.0	39.3	10.6	3.7	*	*	24.5	128.0		
Other source	6.5	7.6	*	*	*	*	7.3	11.5		
Has more than one hot water system	13.2	17.2	2.4	4.9	*	4.3	96.5	161.4		
Has at least one electric, storage type system	6.1	8.5	2.5	4.9	*	11.1	59.2	109.5		
At least one system is using off-peak tariff	5.9	8.2	1.5	3.6	*	22.9	37.1	46.4		
None were using off-peak tariff	*	*	10.7	11.0	*	*	30.3	60.4		
Did not know if using off-peak tariff	*	*	*	*	*	*	*	2.6		
None were electric, storage type systems	7.1	8.7	*	*	*	*	37.3	51.9		
Subtotal — has a non-shared storage type hot water system using off-peak tariff electricity	142.3	185.1	53.4	125.2	20.4	70.2	728.0	1,279.0		
Did not have a hot water system	*	33.0	*	2.5	11.3	*	6.1	42.4		
Total	347.4	462.6	60.3	145.1	26.7	78.8	3,200.2	5,044.1		

(a) Includes a small number of households where the respondent did not know if the hot water system was shared. (b) Whether the hot water system was shared was not asked at separate houses, mobile/improved dwellings and combined shop, etc./dwellings, see Table 2. Where the hot water system was shared, the energy source was not determined. (c) Not asked whether the hot water system was using an off-peak tariff. (d) Includes some households who were using an off-peak tariff.

TABLE 7. TYPE OF ENERGY USED BY STATE AND STATE CAPITAL CITIES, 1985-86
(^{'000 of single households in private dwellings})

Type of energy used	N.S.W.		Vic.		Qld		S.A.	
	Sydney	Total	Melbourne	Total	Brisbane	Total	Adelaide	Total
Households using electricity	1,119.5	1,735.1	939.3	1,298.4	381.4	806.9	351.9	474.9
Households not using electricity	*	9.4	*	*1.8	*	*4.2	*	*
Households using gas	367.1	538.2	780.1	971.9	100.2	183.8	221.5	253.5
Reticulated (mains) gas	327.5	398.3	753.3	879.9	77.3	86.2	214.6	223.7
Bottled gas	35.8	126.2	18.8	81.2	22.8	92.2	4.9	26.0
Not asked type of gas	*3.8	13.7	8.0	10.8	*	5.4	*2.0	3.8
Households using wood/solid fuel	123.6	337.3	132.5	288.9	24.4	96.4	69.3	128.0
Households using oil	63.5	126.0	43.3	82.6	*4.1	15.8	34.0	54.9
Households using kerosene	63.3	114.9	18.7	29.7	43.7	92.7	19.2	27.8
Households using solar energy	35.2	67.2	7.1	17.9	13.0	43.0	12.7	18.2
Main energy combinations —								
Electricity only	555.8	762.7	99.9	151.4	222.6	453.1	58.3	84.2
Electricity and gas only	267.9	312.3	637.2	732.2	61.6	68.0	166.0	172.5
Electricity and wood only	74.4	213.4	27.8	102.8	14.7	60.0	33.0	70.3
Electricity and oil only	47.2	99.4	20.6	37.8	*2.8	10.6	25.5	38.9
Electricity and solar energy only	17.5	34.2	*	*2.8	7.3	24.1	*1.7	*2.5
Electricity, gas and wood only	24.9	38.8	82.5	106.5	*4.2	5.4	25.4	26.3
Total	987.6	1,440.8	868.3	1,133.4	313.3	621.2	309.9	394.6
All other combinations	131.9	303.6	71.0	166.8	68.4	189.9	42.2	80.5
Total	1,119.5	1,744.5	939.3	1,300.2	381.7	811.1	352.1	475.1

TABLE 7. TYPE OF ENERGY USED BY STATE AND STATE CAPITAL CITIES, 1985-86—continued
(^{'000 of single households in private dwellings})

Type of energy used	W.A.		Tas.		Australia			
	Perth	Total	Hobart	Total	N.T.	A.C.T.	capitals	State Total
Households using electricity	347.4	460.5	60.3	144.8	26.7	78.8	3,199.7	5,026.2
Households not using electricity	*	*2.1	*	*	*	*	*	17.9
Households using gas	173.3	250.4	3.3	13.0	4.1	10.3	1,645.4	2,225.2
Reticulated (mains) gas	153.2	199.4	*	1.8	*	5.6	1,525.8	1,754.8
Bottled gas	18.2	83.4	3.3	10.7	4.1	4.7	103.9	428.5
Not asked type of gas	*1.8	7.7	*	*0.5	*	*	15.7	41.8
Households using wood/solid fuel	99.6	162.5	30.6	89.6	*	19.2	480.5	1,122.4
Households using oil	43.3	54.7	12.4	23.0	*	17.4	200.6	374.9
Households using kerosene	47.4	61.0	*1.1	3.8	*	*1.7	193.4	332.3
Households using solar energy	92.3	114.2	*0.8	*1.4	10.6	5.6	161.3	278.1
Main energy combinations —								
Electricity only	54.9	65.5	17.9	31.3	13.5	35.2	1,009.4	1,596.9
Electricity and gas only	78.6	80.3	*	*	*	*3.4	1,211.3	1,368.9
Electricity and wood only	25.2	35.6	25.5	75.0	*	12.7	200.6	569.7
Electricity and oil only	11.0	12.1	8.8	16.2	*	11.7	115.9	216.6
Electricity and solar energy only	15.8	18.5	*	*	8.7	*1.6	42.8	82.5
Electricity, gas and wood only	24.3	27.0	*1.3	*	*	*	161.4	206.1
Total	209.8	239.0	52.3	124.0	22.3	65.3	2,741.3	4,040.7
All other combinations	137.6	223.6	7.9	21.1	4.5	13.5	458.9	1,003.4
Total	347.4	462.6	60.3	145.1	26.7	78.8	3,200.2	5,044.1

TABLE 8. HOUSEHOLDS USING GAS: PURPOSE FOR WHICH GAS USED BY TYPE OF GAS(a) BY STATE, 1985-86.
(Single households in private dwellings)

Purpose by type of gas(a)	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia
NUMBER ('000)									
Type of gas used for cooking—									
Reticulated (mains) gas	339.8	669.7	80.5	190.7	123.6	*1.6	*	*	1,406.9
Bottled gas	60.2	54.5	81.2	17.8	71.2	3.3	3.9	*2.6	294.6
Not asked type of gas	*8.0	7.3	5.1	*2.8	7.2	*	*	*	30.8
Total	408.1	731.5	166.7	211.3	201.9	5.2	3.9	*3.6	1,732.4
Type of gas used for room heating—									
Reticulated (mains) gas	164.2	771.7	*3.8	139.5	76.2	*	*	5.4	1,160.8
Bottled gas	85.1	39.5	8.8	10.4	18.9	7.9	*	*3.3	174.2
Not asked type of gas	8.9	*5.9	*	*1.6	*1.4	*	*	*	19.1
Total	258.1	817.1	13.6	151.3	96.5	8.2	*	8.7	1,354.1
Type of gas used for hot water system—									
Reticulated (mains) gas	221.9	589.6	47.0	181.5	113.8	*0.6	*	*1.9	1,156.3
Bottled gas	14.6	19.2	36.2	6.6	32.2	*0.9	*	*	111.2
Not asked type of gas	*4.1	8.0	*	*1.5	*1.9	*	*	*	16.5
Total	240.6	616.8	84.1	189.6	147.9	*1.5	*	*3.1	1,284.0
Type of gas used for pool heating—									
Reticulated (mains) gas	*	14.9	*	*1.3	*	*	*	*	17.1
Bottled gas	*	*	*	*	*	*	*	*	*2.0
Not asked type of gas	*	*	*	*	*	*	*	*	*
Total	*	16.6	*	*1.8	*	*	*	*	20.3
Total, type of gas—									
Reticulated (mains) gas	398.3	879.9	86.2	223.7	159.4	1.8	*	5.6	1,754.8
Bottled gas	126.2	81.2	92.2	26.0	83.4	10.7	4.1	4.7	428.5
Not asked type of gas	13.7	10.8	5.4	3.8	7.7	*0.5	*	*	41.8
Total	538.2	971.9	183.8	253.5	250.4	13.0	4.1	10.3	2,225.2
PER CENT									
Type of gas used for cooking—									
Reticulated (mains) gas	83.3	91.5	48.3	90.3	61.2	*30.2	*	*	81.2
Bottled gas	14.8	7.5	48.7	8.4	35.2	62.4	100.0	*71.0	17.0
Not asked type of gas	*2.0	1.0	3.1	*1.3	3.6	*	*	*	1.8
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	*100.0	100.0
Type of gas used for room heating—									
Reticulated (mains) gas	63.6	94.4	*28.0	92.1	79.0	*	*	62.3	85.7
Bottled gas	33.0	4.8	64.6	6.9	19.6	96.9	*	*37.7	12.9
Not asked type of gas	3.5	*0.7	*	*1.0	*1.4	*	*	*	1.4
Total	100.0	100.0	100.0	100.0	100.0	100.0	*	100.0	100.0
Type of gas used for hot water system—									
Reticulated (mains) gas	92.2	95.6	55.9	95.7	76.9	*40.8	*	*62.0	90.1
Bottled gas	6.0	3.1	43.1	3.5	21.8	*59.2	*	*	8.7
Not asked type of gas	*1.7	1.3	*	*0.8	*1.3	*	*	*	1.3
Total	100.0	100.0	100.0	100.0	100.0	*100.0	*	*100.0	100.0
Type of gas used for pool heating—									
Reticulated (mains) gas	*	89.8	*	*74.8	*	*	*	*	84.5
Bottled gas	*	*	*	*	*	*	*	*	*9.9
Not asked type of gas	*	*	*	*	*	*	*	*	*
Total	*	100.0	*	*100.0	*	*	*	*	100.0
Total, type of gas—									
Reticulated (mains) gas	74.0	90.5	46.9	88.2	63.6	13.9	*	54.3	78.9
Bottled gas	23.5	8.4	50.2	10.3	33.3	82.2	100.0	45.7	19.3
Not asked type of gas	2.5	1.1	2.9	1.5	3.1	*4.0	*	*	1.9
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) A household can be tallied against only one type of gas but may be tallied against more than one purpose.

TABLE 9. APPLIANCES/FACILITIES BY NATURE OF OCCUPANCY BY AGE OF DWELLING (a) BY STATE, 1985-86
('000 of single households in private dwellings)

	N.S.W.		Vic.		Qld		S.A.		W.A.	
	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total
DWELLING LESS THAN 2 YEARS OLD										
Air-conditioning (non-shared)	9.9	10.9	15.7	17.3	5.4	5.6	5.2	7.2	4.0	6.3
Reverse cycle	*5.1	*5.5	*5.6	*5.6	*	*	*2.1	*2.6	*1.2	*1.6
Other	*4.8	*5.4	10.2	11.7	*4.5	*4.8	*3.1	4.7	*2.8	4.7
Ceiling fans	*5.6	*7.0	8.0	8.4	13.2	14.7	*3.0	*3.3	4.3	5.3
One	*3.2	*4.0	*5.9	6.3	*3.1	*3.5	*2.1	*2.1	*2.1	*2.1
Two or more	*	*3.0	*2.1	*2.1	10.1	11.1	*1.0	*1.3	*2.2	*3.2
Swimming pool(a)	*3.8	*3.8	*1.8	*1.8	*4.0	*4.3	*	*	*2.0	*2.0
Wall insulation(a)(c)	8.6	9.6	29.7	30.1	13.9	14.7	7.8	9.6	*1.2	*1.6
Batt/blanket	*3.2	*3.2	7.7	7.7	*	*	6.1	6.6	*	*
Foil	*5.0	*6.0	20.7	21.1	12.0	12.8	*1.4	*2.2	*	*
Other	*	*	*	*	*	*	*	*	*	*
Roof insulation(a)(c)	19.4	22.0	41.9	43.4	12.9	13.7	9.9	12.5	7.6	9.2
Batt/blanket	8.7	10.5	23.1	23.5	*4.4	*4.7	8.7	10.5	4.8	6.1
Foil	*6.1	*6.6	*3.2	*3.2	8.0	8.2	*	*	*	*
Granular/loose fill	*3.4	*3.4	11.4	11.7	*	*	*	*0.9	*1.5	*1.6
Other	*	*	*3.5	*3.5	*	*	*	*	*	*
Material of outer walls(a)—										
Double brick	*3.3	*4.3	*6.0	7.1	*1.7	*2.3	*2.2	*2.7	15.2	17.6
Brick veneer	25.8	29.9	42.8	46.0	23.2	25.3	9.0	11.3	*	*2.6
Material of roof(a)—										
Tiles	29.3	34.0	36.6	40.1	17.3	18.5	9.7	12.6	15.1	18.5
Metal	*4.2	*5.3	17.3	18.0	19.9	23.6	*3.1	4.0	*1.9	*2.8
Total	33.5	39.3	53.8	58.1	37.4	42.3	13.0	16.8	17.0	21.3
DWELLING 2 TO 5 YEARS OLD										
Air-conditioning (non-shared)	25.8	30.5	25.2	29.3	9.4	11.8	10.1	16.5	9.0	11.4
Reverse cycle	13.0	16.5	9.5	10.4	*3.4	*4.0	5.2	7.0	*3.4	4.4
Other	12.8	14.0	15.7	18.9	5.9	7.8	4.9	9.6	5.5	7.0
Ceiling fans	13.9	15.3	7.8	7.8	25.4	28.9	3.7	4.4	7.7	8.6
One	*4.9	*5.2	*4.7	*4.7	8.7	9.4	*2.2	*2.6	*2.5	*2.5
Two or more	9.0	10.1	*3.1	*3.1	16.7	19.5	*1.6	*1.8	5.2	6.1
Swimming pool(a)	8.4	8.7	*5.9	6.2	9.4	10.0	*1.2	*1.5	3.6	3.9
Wall insulation(a)(c)	19.4	21.4	27.0	28.4	16.2	18.2	5.6	9.3	*1.6	*2.8
Batt/blanket	*5.7	*5.7	6.1	6.1	*2.1	*2.1	4.3	6.6	*	*
Foil	12.3	14.3	20.1	21.5	11.7	13.8	*0.9	*1.9	*1.2	*1.8
Other	*	*	*	*	*2.4	*2.4	*	*	*	*
Roof insulation(a)(c)	44.5	48.7	54.5	60.3	23.6	25.0	13.5	19.9	17.1	19.7
Batt/blanket	23.5	27.7	25.2	29.4	9.4	10.1	12.3	17.1	9.2	10.9
Foil	11.6	11.6	*3.5	*3.9	11.9	12.6	*	*	3.9	4.7
Granular/loose fill	*5.0	*5.0	20.7	21.5	*	*	*	*	3.8	3.8
Other	*	*	*3.2	*3.2	*	*	*	*	*	*
Material of outer walls(a)—										
Double brick	8.3	11.8	*5.7	6.1	*4.8	5.6	5.2	6.4	24.8	30.8
Brick veneer	57.7	66.7	53.8	62.1	37.2	42.4	9.1	13.0	*1.8	3.6
Material of roof(a)—										
Tiles	66.4	78.5	50.5	57.6	27.0	31.3	12.4	17.7	26.0	33.1
Metal	8.8	9.4	14.7	16.3	30.6	37.2	*3.3	6.9	3.7	5.3
Total	76.8	89.5	65.2	74.7	59.4	70.5	15.6	24.7	29.8	38.6

For footnotes see end of table.

TABLE 9. APPLIANCES/FACILITIES BY NATURE OF OCCUPANCY BY AGE OF DWELLING(a) BY STATE, 1985-86—continued
(* 000 of single households in private dwellings)

	Tas.		N.T.		A.C.T.		Australia		Per cent	
	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total
DWELLING LESS THAN 2 YEARS OLD										
Air-conditioning (non-shared)	*	*	*	*	*	*	41.5	48.8	25.9	26.3
Reverse cycle	*	*	*	*	*	*	15.2	16.5	9.5	8.9
Other	*	*	*	*	*	*	26.3	32.2	16.4	17.4
Ceiling fans	*	*	*0.9	*1.2	*	*	35.3	40.3	22.0	21.7
One	*	*	*	*	*	*	16.5	18.2	10.3	9.8
Two or more	*	*	*0.9	*1.2	*	*	18.8	22.1	11.7	11.9
Swimming pool(a)	*	*	*	*	*	*	12.3	12.7	7.7	6.8
Wall insulation(a)(c)	1.9	2.9	*	*	*1.6	*1.6	64.7	69.9	40.3	37.7
Batt/blanket	*	*0.6	*	*	*	*	19.3	20.3	12.0	11.0
Foil	*1.7	2.1	*	*	*	*	41.6	45.3	25.9	24.4
Other	*	*	*	*	*	*	*2.0	*2.0	*1.3	*1.1
Roof insulation(a)(c)	*1.6	2.6	*	*	*1.6	*1.6	95.4	105.7	59.5	57.0
Batt/blanket	*0.9	*1.0	*	*	*	*	51.7	57.4	32.2	30.9
Foil	*0.5	*0.8	*	*	*	*	19.2	20.4	11.9	11.0
Granular/loose fill	*	*0.7	*	*	*	*	17.3	18.7	10.8	10.1
Other	*	*	*	*	*	*	*4.9	*4.9	*3.1	*2.7
Material of outer walls(a)—										
Double brick	*	*	*	*	*	*	28.6	34.6	17.8	18.7
Brick veneer	*1.7	2.9	*	*	*2.6	*2.6	106.0	120.6	66.1	65.1
Material of roof(a)—										
Tiles	*1.4	2.2	*	*	*2.6	*2.8	112.0	129.0	69.8	69.6
Metal	*0.8	*1.2	*0.9	*0.9	*	*	48.1	55.9	29.9	30.2
Total	2.3	3.5	*0.9	*1.2	*2.6	*2.8	160.5	185.4	100.0	100.0
DWELLING 2 TO 5 YEARS OLD										
Air-conditioning (non-shared)	*	*	*	*1.6	*	*	80.9	102.1	31.4	32.6
Reverse cycle	*	*	*	*	*	*	34.7	42.6	13.5	13.6
Other	*	*	*	*1.5	*	*	46.2	59.5	17.9	19.0
Ceiling fans	*	*	*0.9	*2.3	*	*	60.2	68.0	23.4	21.7
One	*	*	*	*	*	*	23.0	24.5	8.9	7.8
Two or more	*	*	*0.9	*2.3	*	*	37.2	43.5	14.5	13.9
Swimming pool(a)	*0.8	*0.8	*	*	*	*	30.5	32.2	11.8	10.3
Wall insulation(a)(c)	3.8	4.9	*	*0.9	*2.5	*2.5	76.5	88.5	29.7	28.3
Batt/blanket	*0.9	*1.0	*	*	*1.7	*1.7	21.2	23.6	8.2	7.5
Foil	2.5	3.5	*	*0.8	*	*	49.0	57.6	19.1	18.4
Other	*	*	*	*	*	*	*4.7	*5.1	*1.8	*1.6
Roof insulation(a)(c)	4.2	6.0	*	*1.2	*3.5	*3.5	161.5	184.3	62.8	58.9
Batt/blanket	2.2	3.0	*	*	*2.4	*2.4	84.2	100.9	32.7	32.2
Foil	*0.6	*0.6	*	*	*	*	31.9	34.7	12.4	11.1
Granular/loose fill	*0.9	*1.3	*	*	*	*	32.6	33.7	12.6	10.8
Other	*	*	*	*	*	*	6.9	7.0	2.7	2.2
Material of outer walls(a)—										
Double brick	*0.5	*0.6	*	*	*	*	49.4	62.1	19.2	19.8
Brick veneer	4.1	6.0	*	*	*4.1	4.3	168.0	198.5	65.3	63.4
Material of roof(a)—										
Tiles	2.5	3.8	*	*1.2	4.2	4.5	189.5	227.8	73.6	72.7
Metal	2.8	4.0	*	*1.8	*	*	64.4	80.9	25.0	25.8
Total	5.3	7.8	*1.0	*2.0	4.2	4.5	257.4	313.1	100.0	100.0

For footnotes see end of table

TABLE 9. APPLIANCES/FACILITIES BY NATURE OF OCCUPANCY BY AGE OF DWELLING(a) BY STATE, 1985-86—continued
(* 000 of single households in private dwellings)

	N.S.W.		Vic.		Qld		S.A.		W.A.	
	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total
DWELLING MORE THAN 5 YEARS OLD										
Air-conditioning (non-shared)	422.9	510.2	406.6	463.6	100.3	128.1	221.1	268.2	125.7	164.3
Reverse cycle	258.7	283.3	157.7	170.6	31.9	39.2	119.2	134.8	56.0	69.8
Other	164.3	226.8	249.0	293.0	68.5	88.9	101.9	133.4	69.6	94.5
Ceiling fans	182.3	198.1	71.4	76.6	209.5	249.6	59.0	65.2	84.0	97.0
One	112.4	122.3	54.0	58.1	70.5	84.8	34.1	38.0	44.0	47.8
Two or more	70.0	75.8	17.5	18.6	139.1	164.8	24.9	27.3	40.1	49.2
Swimming pool(a)	158.5	176.2	107.6	114.2	65.6	73.0	36.8	39.4	47.1	50.7
Wall insulation(a)(c)	165.3	173.4	189.3	196.6	50.4	53.0	36.7	40.1	14.1	16.8
Batt/blanket	49.5	50.7	35.9	35.9	4.4	4.6	16.8	18.6	42.2	42.2
Foil	73.4	79.4	128.5	133.0	35.7	37.7	16.1	16.8	7.0	8.3
Other	38.4	38.7	17.5	18.3	9.1	9.4	*1.7	*1.9	4.1	4.7
Roof insulation(a)(c)	551.0	615.4	629.1	681.5	83.7	89.7	231.4	260.2	153.4	171.3
Batt/blanket	364.3	410.3	349.4	381.3	43.2	46.6	171.0	192.5	80.6	89.7
Foil	77.8	81.3	26.7	27.5	27.8	29.1	11.5	12.5	21.0	23.1
Granular/loose fill	62.2	64.8	180.6	188.3	*3.5	*3.7	32.2	34.0	31.9	32.9
Other	30.7	31.8	36.1	38.7	6.4	6.6	5.5	6.1	8.6	9.9
Material of outer walls(a)—										
Double brick	242.6	301.3	93.5	130.3	18.3	21.9	171.7	215.1	180.9	228.4
Brick veneer	323.9	384.8	419.6	484.4	100.3	120.3	53.5	69.6	23.0	34.1
Stone, concrete, concrete block	22.8	29.6	27.0	37.4	22.8	32.2	66.2	80.8	7.4	10.5
Weatherboard, timber	198.3	254.0	243.2	309.7	233.8	315.5	10.7	14.8	15.4	23.8
Fibro/asbestos	194.8	269.9	36.8	46.5	67.4	96.7	20.8	26.5	39.5	68.3
Material of roof(a)—										
Tiles	718.7	869.3	589.9	701.3	133.5	165.0	197.2	235.8	212.0	279.8
Metal	286.3	396.0	238.8	312.9	282.6	390.4	115.8	166.9	42.2	66.8
Total	1,039.5	1,305.9	849.0	1,040.2	460.9	608.4	319.9	410.5	268.4	368.0
TOTAL (INCLUDES AGE NOT KNOWN)										
Air-conditioning (non-shared)	459.6	554.2	448.5	512.5	115.5	147.9	236.6	294.0	139.4	184.6
Reverse cycle	277.7	306.3	172.7	186.5	36.6	44.6	126.5	144.5	61.1	76.9
Other	181.9	247.9	275.8	326.0	78.9	103.3	110.1	149.5	78.3	107.7
Ceiling fans	201.9	220.8	87.2	92.8	249.2	297.5	66.0	73.5	96.2	111.9
One	120.5	131.6	64.6	69.1	82.7	100.2	38.3	42.6	48.5	52.4
Two or more	81.4	89.3	22.7	23.8	166.5	197.3	27.6	30.8	47.7	59.5
Swimming pool(a)	170.6	189.2	115.3	122.1	79.2	88.4	38.4	41.3	52.7	56.6
Wall insulation(a)(c)	193.6	205.0	246.0	255.1	81.0	86.4	50.3	59.1	17.0	21.3
Batt/blanket	58.4	59.6	49.7	49.7	7.0	7.2	27.2	31.8	*3.4	*3.4
Foil	90.9	100.3	169.3	175.6	59.5	64.3	18.4	20.8	8.6	11.1
Other	39.6	39.9	18.8	19.6	11.7	12.0	*1.8	*2.3	4.1	4.9
Roof insulation(a)(c)	615.0	688.0	726.1	786.9	120.8	128.9	255.2	293.3	178.7	201.5
Batt/blanket	396.5	448.9	398.2	435.2	57.0	61.3	192.0	220.4	95.2	107.6
Foil	95.7	100.1	33.4	34.6	47.7	49.9	11.5	13.4	25.7	28.8
Granular/loose fill	70.6	73.6	212.7	221.5	*3.7	*4.0	33.6	35.6	37.2	38.3
Other	33.5	34.6	42.8	45.5	7.8	8.0	5.9	6.4	8.9	10.1
Material of outer walls(a)—										
Double brick	254.2	319.1	105.8	144.6	24.7	30.0	179.3	226.7	221.8	283.4
Brick veneer	409.0	490.1	517.7	599.5	161.6	193.5	71.5	95.0	25.6	41.2
Stone, concrete, concrete block	24.5	33.6	27.0	37.8	29.4	42.4	61.0	81.8	8.1	11.1
Weatherboard, timber	199.5	256.2	250.8	318.5	242.9	326.8	11.4	17.2	15.9	24.5
Fibro/asbestos	205.6	284.4	38.5	49.3	80.5	114.8	22.5	31.6	41.8	71.6
Material of roof(a)—										
Tiles	816.3	996.2	678.1	806.7	178.8	220.0	219.4	269.8	254.1	338.4
Metal	299.2	413.1	272.0	350.1	333.4	455.6	122.4	178.3	47.9	75.6
Total	1,132.0	1,451.8	970.4	1,183.4	558.9	731.7	349.0	456.1	316.4	435.7

For footnotes see end of table

TABLE 9. APPLIANCES/FACILITIES BY NATURE OF OCCUPANCY BY AGE OF DWELLING(a) BY STATE, 1985-86—continued
(^c 000 of single households in private dwellings)

	Tas.		N.T.		A.C.T.		Australia		Per cent	
	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total	Owned(b)	Total
DWELLING MORE THAN 5 YEARS OLD										
Air-conditioning (non-shared)	*0.5	*0.5	5.6	12.6	18.6	21.0	1,301.2	1,568.6	42.1	39.8
Reverse cycle	*	*	*	*2.1	8.6	9.6	632.5	709.6	20.4	18.0
Other	*	*	5.2	10.5	9.9	11.4	668.8	858.9	21.6	21.8
Ceiling fans	*0.7	*0.9	5.9	12.2	*3.2	*3.4	616.1	703.0	19.9	17.8
One	*	*0.6	*	*	*3.0	*3.2	318.4	354.9	10.3	9.0
Two or more	*	*	5.7	12.0	*	*	297.7	348.1	9.6	8.8
Swimming pool(a)	6.6	6.9	*2.6	3.9	6.8	7.4	431.6	471.8	13.9	12.0
Wall insulation(a)(c)	17.8	20.1	*2.1	3.6	8.4	9.1	484.2	512.6	15.6	13.0
Batt/blanket	*1.7	1.8	*0.8	*1.3	*3.0	*3.0	1,068.4	1,188.1	3.7	3.0
Foil	14.4	16.3	*1.0	*1.0	4.2	4.4	280.2	296.8	9.1	7.5
Other	*1.6	1.9	*	*1.3	*	*	73.3	77.0	2.4	2.0
Roof insulation(a)(c)	51.5	63.5	*3.1	6.8	45.9	53.8	1,749.0	1,942.1	56.5	49.2
Batt/blanket	30.3	33.0	*1.4	*2.6	28.3	32.3	1,068.4	1,188.1	34.5	30.1
Foil	3.0	3.5	*1.1	*1.3	*	*	169.2	178.7	5.5	4.5
Granular/loose fill	14.0	21.6	*	*	12.5	15.2	336.9	360.5	10.9	9.1
Other	2.2	2.5	*	*	*2.5	*3.2	92.2	99.5	3.0	2.5
Material of outer walls(a)—										
Double brick	10.6	13.1	*1.0	*3.2	7.9	10.4	726.4	923.8	23.5	23.4
Brick veneer	33.9	42.2	*	*1.4	40.7	52.7	995.5	1,189.3	32.2	30.2
Stone, concrete, concrete block	3.8	5.4	*0.8	4.3	*1.4	*2.2	146.3	202.4	4.7	5.1
Weatherboard, timber	41.6	54.8	*	*1.0	*	*1.7	744.5	975.3	24.1	24.7
Fibro/asbestos	2.9	4.5	*1.5	*1.8	*	*	363.8	514.7	11.8	13.0
Material of roof(a)—										
Tiles	22.4	26.6	*	*1.0	49.3	64.0	1,923.2	2,342.9	62.2	59.4
Metal	75.7	99.4	6.7	16.3	*1.5	*3.1	1,049.6	1,451.7	33.9	36.8
Total	98.6	126.5	6.8	17.3	51.1	67.5	3,094.2	3,944.2	100.0	100.0
TOTAL (INCLUDES AGE NOT KNOWN)										
Air-conditioning (non-shared)	*0.5	*0.6	6.4	14.9	20.5	23.0	1,426.9	1,731.7	40.5	38.5
Reverse cycle	*	*	*	*2.4	9.2	10.2	684.2	771.5	19.4	17.2
Other	*	*0.5	6.0	12.5	11.4	12.8	742.7	960.2	21.1	21.4
Ceiling fans	*0.8	*1.0	7.7	17.4	4.2	4.4	713.1	819.2	20.3	18.2
One	*	*0.6	*	*	*3.2	*3.4	358.4	400.5	10.2	8.9
Two or more	*	*	7.5	16.7	*	*	354.7	418.7	10.1	9.3
Swimming pool(a)	7.5	8.0	*3.2	4.6	7.5	8.1	474.6	518.3	13.5	11.5
Wall insulation(a)(c)	23.5	28.1	*2.4	4.5	12.5	13.2	626.2	672.8	17.8	15.0
Batt/blanket	2.7	3.4	*0.8	*1.3	5.5	5.5	154.6	162.0	4.4	3.6
Foil	18.5	22.2	*1.2	*1.7	4.7	5.0	371.1	400.9	10.5	8.9
Other	2.1	2.4	*	*1.5	*1.3	*1.5	80.0	84.2	2.3	1.9
Roof insulation(a)(c)	57.3	72.4	4.2	9.3	51.0	59.1	2,008.3	2,239.4	57.1	49.8
Batt/blanket	33.4	37.2	*1.8	*2.9	31.4	35.4	1,205.5	1,349.0	34.3	30.0
Foil	4.1	5.1	*1.9	*2.8	*	*	220.4	235.2	6.3	5.2
Granular/loose fill	15.1	23.5	*	*	14.0	16.7	386.8	413.3	11.0	9.2
Other	2.5	2.9	*	*	*2.5	*3.2	104.1	111.4	3.0	2.5
Material of outer walls(a)—										
Double brick	11.1	13.9	*1.2	4.9	8.0	10.8	806.2	1,033.4	22.9	23.0
Brick veneer	39.7	51.7	*0.9	*2.1	47.4	59.9	1,273.4	1,532.9	36.2	34.1
Stone, concrete, concrete block	4.2	5.9	*1.6	5.7	*1.4	*2.2	157.2	220.5	4.5	4.9
Weatherboard, timber	42.0	55.4	*	*1.0	*	*1.7	763.9	1,001.4	21.7	22.3
Fibro/asbestos	3.1	4.6	*1.5	*2.6	*	*	393.6	559.3	11.2	12.4
Material of roof(a)—										
Tiles	26.3	32.9	*	*3.0	56.2	71.6	2,229.8	2,738.5	63.4	60.9
Metal	79.3	105.2	8.1	20.0	*1.5	*3.1	1,164.0	1,600.9	33.1	35.6
Total	106.1	138.6	8.8	23.2	57.9	75.1	3,519.4	4,495.4	100.0	100.0

(a) Not asked at mobile/improvised, high or low rise dwellings, see Table 2. (b) Includes households purchasing the dwelling. (c) Includes respondents who did not know the type of material.

TABLE 10. ROOF INSULATION(a) BY MATERIAL OF ROOF(a) BY STATE, 1985-86
(Single households in private dwellings)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia
NUMBER ('000)									
TILED ROOF—									
Has roof insulation	515.3	578.7	47.0	202.6	162.9	23.7	*0.9	57.0	1,588.0
Batt blanket	334.3	308.6	21.7	154.1	87.0	12.9	*	33.9	952.5
Foil	74.7	16.6	20.6	7.1	18.4	*0.7	*	*	139.3
Granular/loose fill	60.4	184.0	*1.5	26.5	35.8	7.8	*	16.7	332.8
Foam	14.8	19.0	*	*3.1	7.5	*	*	*	48.3
Other	13.3	15.9	*	*	*1.2	*0.6	*	*	32.2
Don't know type	17.7	34.6	*1.7	11.8	13.0	*1.5	*	*2.7	82.9
Has no roof insulation	393.0	152.1	143.8	43.6	142.7	8.1	*	7.7	891.1
Not known if roof insulated	87.9	75.9	29.2	23.7	32.8	*1.1	*2.0	6.8	259.4
Total with tiled roof	996.2	806.7	220.0	269.8	338.4	32.9	*3.0	71.6	2,738.5
METAL ROOF—									
Has roof insulation	153.1	193.9	69.6	84.4	28.7	48.5	8.4	*1.7	588.2
Batt blanket	103.1	120.5	32.7	62.6	15.3	24.3	*2.8	*	362.4
Foil	20.1	16.1	26.3	5.1	8.1	4.3	*2.1	*	82.1
Granular/loose fill	11.5	34.0	*	5.5	*1.8	15.6	*	*	72.7
Foam	*2.9	6.4	*3.1	*1.2	*	*0.6	*	*	15.4
Other	*3.4	*2.9	*3.4	*1.6	*	*1.5	*	*	12.9
Don't know type	12.2	14.0	*2.8	5.3	*2.7	2.3	*2.8	*	42.7
Has no roof insulation	218.8	109.8	328.4	76.6	39.1	49.7	4.2	*	827.4
Not known if roof insulated	41.2	46.4	57.6	17.3	7.8	7.0	7.4	*	185.3
Total with metal roof	413.1	350.1	455.6	178.3	75.6	105.2	20.0	*3.1	1,600.9
TOTAL(b)—									
Has roof insulation	688.0	786.9	128.9	293.3	201.5	72.4	9.3	59.1	2,239.4
Batt blanket	448.9	435.2	61.3	220.4	107.6	37.2	*2.9	35.4	1,349.0
Foil	100.1	34.6	49.9	13.4	28.8	5.1	*2.8	*	235.2
Granular/loose fill	73.6	221.5	*4.0	35.6	38.3	23.5	*	16.7	413.3
Foam	17.7	26.3	*4.1	4.6	8.4	*0.8	*	*2.6	65.1
Other	17.0	19.2	*3.9	*1.8	*1.7	2.1	*	*	46.3
Don't know type	30.6	50.2	5.7	17.5	16.7	3.8	*2.8	*3.2	130.5
Has no roof insulation	631.1	270.9	511.4	121.4	191.1	58.0	4.4	8.5	1,796.9
Not known if roof insulated	132.7	125.6	91.4	41.4	43.0	8.2	9.5	7.4	459.1
Total(b)	1,451.8	1,183.4	731.7	456.1	435.7	138.6	23.2	75.1	4,495.4
PER CENT									
TILED ROOF—									
Has roof insulation	51.7	71.7	21.4	75.1	48.1	72.0	*28.6	79.7	58.0
Batt blanket	33.6	38.3	9.8	57.1	25.7	39.1	*	47.3	34.8
Foil	7.5	2.1	9.4	2.6	5.4	*2.0	*	*	5.1
Granular/loose fill	6.1	22.8	*0.7	9.8	10.6	23.8	*	*3.7	12.2
Foam	1.5	2.4	*	*1.2	2.2	*	*	*	1.2
Other	1.3	2.0	*	*	*0.4	*1.9	*	*	3.0
Don't know type	1.8	4.3	*0.8	4.4	3.8	*4.6	*	*10.8	32.5
Has no roof insulation	39.4	18.9	65.4	16.1	42.2	24.5	*65.7	9.6	9.5
Not known if roof insulated	8.8	9.4	13.3	8.8	9.7	*3.4			
Total with tiled roof	100.0	100.0	100.0	100.0	100.0	100.0	*100.0	100.0	100.0
METAL ROOF—									
Has roof insulation	37.1	55.4	15.3	47.3	38.0	46.1	42.0	*55.4	36.7
Batt blanket	25.0	34.4	7.2	35.1	20.3	23.1	*13.8	*	22.6
Foil	4.9	4.6	5.8	2.8	10.7	4.1	*10.6	*	5.1
Granular/loose fill	2.8	9.7	*	4.8	23.8	14.8	*	*	4.5
Foam	*0.7	1.8	*0.7	*0.7	*	*0.5	*	*	1.0
Other	*0.8	*0.8	*0.7	*0.9	*	*1.4	*	*	2.7
Don't know type	2.9	4.0	*0.6	3.0	*3.6	3.2	*13.9	*	51.7
Has no roof insulation	53.0	31.4	72.1	43.0	51.7	47.2	21.2	*3.5	11.6
Not known if roof insulated	10.0	13.2	12.6	9.7	10.3	6.7	36.8	*	
Total with metal roof	100.0	100.0	100.0	100.0	100.0	100.0	100.0	*100.0	100.0
TOTAL(b)—									
Has roof insulation	47.4	66.5	17.6	64.3	46.3	52.2	39.9	78.8	49.8
Batt blanket	30.9	36.8	8.4	48.3	24.7	26.8	*12.7	47.2	30.0
Foil	6.9	2.9	6.8	2.9	6.6	3.6	*12.1	*	5.2
Granular/loose fill	5.1	18.7	*0.5	7.8	8.8	17.0	*	22.3	9.2
Foam	1.2	2.2	*0.6	1.0	1.9	*0.5	*	*3.5	1.4
Other	1.2	1.6	*0.5	*0.4	*0.4	1.5	*	*	1.0
Don't know type	2.1	4.2	0.8	3.8	3.8	2.7	*12.0	*4.3	2.9
Has no roof insulation	43.5	22.9	69.9	26.6	43.9	41.9	19.1	11.4	40.0
Not known if roof insulated	9.1	10.6	12.5	9.1	9.9	5.9	41.0	9.9	10.2
Total(b)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Not asked at mobile/improvised, high or low rise dwellings, see Table 2. (b) Includes roofs of all other materials.

TABLE 11. ROOF INSULATION(a) BY MATERIAL OF OUTER WALLS(a) BY STATE, 1985-86
(^c 000 of single households in private dwellings)

Roof insulation(a)	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia
DOUBLE BRICK WALLS									
Has roof insulation	123.0	73.9	10.5	154.4	145.1	6.7	*1.1	8.4	523.2
Batt/blanket	80.8	47.3	6.0	118.0	77.5	4.8	*0.8	6.1	341.4
Foil	17.5	*3.8	*3.9	6.3	18.7	*	*	*	50.6
Granular/loose fill	*7.8	10.7	*	18.8	31.4	*1.0	*	*1.7	71.6
Foam	*4.3	*1.8	*	*1.4	5.5	*	*	*	13.6
Other	*4.6	*3.0	*	*	*	*	*	*	9.0
Don't know type	*8.0	7.3	*	9.7	11.2	*	*	*	37.1
Has no roof insulation	173.1	43.6	15.8	51.0	109.7	5.8	*	*	400.5
Not known if roof insulated	23.0	27.2	*3.7	21.3	28.6	*1.4	*3.2	*1.4	109.7
Total	319.1	144.6	30.0	226.7	283.4	13.9	4.9	10.8	1,033.4
BRICK VENEER WALLS									
Has roof insulation	291.4	462.3	57.8	72.5	20.1	35.3	*	48.0	987.8
Batt/blanket	178.8	232.3	25.4	55.7	9.6	17.9	*	28.3	548.2
Foil	46.6	16.6	28.2	*2.5	*3.0	2.1	*	*	99.6
Granular/loose fill	37.9	157.5	*	9.2	*3.0	11.9	*	13.7	234.5
Foam	8.6	16.2	*	*1.1	*1.5	*	*	*2.4	30.5
Other	*7.5	11.4	*	3.9	*	*0.8	*	*	21.2
Don't know type	12.1	28.4	*2.2	3.9	*2.4	2.3	*	*2.5	53.7
Has no roof insulation	150.0	81.2	112.1	13.2	17.9	13.0	*	6.1	393.9
Not known if roof insulated	48.7	55.9	23.6	9.2	*3.3	3.4	*1.3	5.8	151.2
Total	490.1	599.5	193.5	95.0	41.2	51.7	*2.1	59.9	1,532.9
STONE, CONCRETE OR CONCRETE BLOCK WALLS									
Has roof insulation	11.8	22.3	8.4	36.5	3.6	2.8	*3.1	*1.6	90.0
Batt/blanket	*4.3	16.9	*4.0	24.7	*1.9	*1.5	*	*	53.9
Foil	*5.4	*	*2.8	*1.9	*	*	*1.0	*	12.1
Granular/loose fill	*	*2.0	*	5.5	*	*1.0	*	*	11.3
Foam	*	*	*	*1.0	*	*	*	*	*2.8
Other	*	*	*	*1.0	*	*	*	*	*2.6
Don't know type	*	*1.8	*	*2.4	*	*	*1.3	*	7.3
Has no roof insulation	18.8	12.3	24.6	38.4	7.2	2.5	*	*	105.0
Not known if roof insulated	*3.0	*3.2	9.4	6.9	*	*0.6	*2.0	*	25.6
Total	33.6	37.8	42.4	81.8	11.1	5.9	5.7	*2.2	220.5
WEATHERBOARD, TIMBER, ETC. WALLS									
Has roof insulation	93.2	177.7	32.7	10.6	6.5	21.0	*	*	342.7
Batt/blanket	58.2	107.5	16.7	7.2	*3.3	10.1	*	*	203.4
Foil	14.1	10.8	9.4	*1.2	*1.7	*1.6	*	*	39.0
Granular/loose fill	11.7	39.3	*1.5	*0.9	*	7.7	*	*	62.4
Foam	*	*4.9	*	*	*	*	*	*	9.4
Other	*	*4.8	*2.1	*	*	*0.7	*	*	9.8
Don't know type	*4.5	10.3	*1.9	*0.9	*	*0.6	*	*	18.7
Has no roof insulation	136.9	109.4	260.3	5.2	15.4	32.1	*	*	560.5
Not known if roof insulated	26.2	31.4	33.8	*1.5	*2.6	2.3	*	*	98.1
Total	256.2	318.5	326.8	17.2	24.5	55.4	*1.0	*1.7	1,001.4
FIBRO/ASBESTOS WALLS									
Has roof insulation	135.9	29.2	15.6	17.8	24.7	2.2	*1.5	*	227.1
Batt/blanket	101.3	17.4	6.7	13.5	14.7	*0.9	*	*	155.3
Foil	13.4	*2.3	*4.7	*1.3	4.3	*0.6	*	*	26.6
Granular/loose fill	12.4	7.7	*	*1.3	*2.1	*0.7	*	*	24.4
Foam	*	*	*2.2	*0.9	*	*	*	*	7.0
Other	*	*	*	*	*	*	*	*	*3.0
Don't know type	*4.9	*	*	*	*2.6	*	*	*	10.8
Has no roof insulation	120.7	14.0	81.2	11.4	38.7	1.9	*	*	268.8
Not known if roof insulated	27.8	*6.0	18.0	*2.4	8.2	*0.5	*	*	63.3
Total	284.4	49.3	114.8	31.6	71.6	4.6	*2.6	*	559.3
TOTAL(b)									
Has roof insulation	688.0	786.9	128.9	293.3	201.5	72.4	9.3	59.1	2,239.4
Batt/blanket	448.9	435.2	61.3	220.4	107.6	37.2	*2.9	35.4	1,349.0
Foil	100.1	34.6	49.9	13.4	28.8	5.1	*2.8	*	235.2
Granular/loose fill	73.6	221.5	*4.0	35.6	38.3	23.5	*	16.7	413.3
Foam	17.7	26.3	*4.1	4.6	8.4	*0.8	*	*2.6	65.1
Other	17.0	19.2	*1.9	*1.8	*1.7	2.1	*	*	46.3
Don't know type	30.6	50.2	5.7	17.5	16.7	3.8	*2.8	*3.2	130.5
Has no roof insulation	631.1	270.9	511.4	121.4	191.1	58.0	4.4	8.5	1,796.9
Not known if roof insulated	132.7	125.6	91.4	41.4	43.0	8.2	9.5	7.4	459.1
Total(b)	1,451.8	1,183.4	731.7	456.1	435.7	138.6	23.2	75.1	4,495.4

(a) Not asked at mobile/improvised, high or low rise dwellings, see Table 2. (b) Includes outer walls of all other materials.

TABLE 12. WALL INSULATION(a) BY MATERIAL OF OUTER WALLS(a) BY STATE, 1985-86
(¹ 000 of single households in private dwellings)

Wall insulation(a)	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia
DOUBLE BRICK WALLS									
Has wall insulation(b)	13.8	14.7	*4.4	12.2	5.3	*1.7	*	*	53.3
Batt/blanket	*4.8	*3.6	*	6.3	*	*	*	*	17.2
Foil	*6.4	9.9	*3.0	4.5	*1.8	*1.5	*	*	27.4
Has no wall insulation	280.8	102.7	22.4	191.6	238.5	10.5	*2.0	7.5	855.9
Not known if wall insulated	24.5	27.2	*3.2	22.9	39.6	*1.6	*3.0	*2.1	124.2
Total	319.1	144.6	30.0	226.7	283.4	13.9	4.9	10.8	1,033.4
BRICK VENEER WALLS									
Has wall insulation(b)	82.6	153.5	43.8	28.3	3.6	18.2	*	11.6	341.8
Batt/blanket	26.4	21.6	*2.4	16.3	*	1.8	*	4.9	73.6
Foil	48.5	117.8	38.6	8.2	*1.8	15.4	*	4.5	235.0
Has no wall insulation	310.9	280.3	113.1	44.6	31.7	25.2	*0.8	36.5	843.1
Not known if wall insulated	96.6	165.7	36.7	22.1	5.8	8.2	*1.1	11.8	348.0
Total	490.1	599.5	193.5	95.0	41.2	51.7	*2.1	59.9	1,532.9
STONE, CONCRETE OR CONCRETE BLOCK WALLS									
Has wall insulation(b)	*	*3.6	*1.5	*3.3	*	*0.6	*	*	11.1
Batt/blanket	*	*	*	*2.0	*	*	*	*	2.6
Foil	*	*2.5	*	*1.3	*	*	*	*	7.2
Has no wall insulation	28.4	30.0	34.8	74.5	10.3	4.3	3.7	*1.6	187.6
Not known if wall insulated	*3.6	*4.2	6.1	3.9	*	*1.0	*2.0	*	21.9
Total	33.6	37.8	42.4	81.8	11.1	5.9	5.7	*2.2	220.5
WEATHERBOARD, TIMBER, ETC. WALLS									
Has wall insulation(b)	38.1	57.1	15.7	3.7	*3.2	4.7	*	*	122.6
Batt/blanket	10.7	19.5	*2.6	*1.3	*	*0.7	*	*	34.9
Foil	18.6	31.1	9.5	*2.2	*2.0	3.3	*	*	66.9
Has no wall insulation	185.1	207.9	277.8	10.9	19.6	46.1	*1.0	*	749.4
Not known if wall insulated	33.0	53.6	33.3	*2.7	*1.7	4.7	*	*	129.4
Total	256.2	318.5	326.8	17.2	24.5	55.4	*1.0	*1.7	1,001.4
FIBRO/ASBESTOS WALLS									
Has wall insulation(b)	45.9	15.9	16.6	11.2	8.5	*1.3	*1.5	*	101.0
Batt/blanket	14.9	*2.8	*1.6	5.7	*1.6	*	*0.8	*	27.7
Foil	19.9	9.6	9.7	4.3	5.2	*1.2	*	*	50.4
Has no wall insulation	193.2	24.4	81.2	17.7	54.2	2.6	*	*	374.3
Not known if wall insulated	45.3	9.0	16.9	*2.7	8.9	*0.7	*	*	84.0
Total	284.4	49.3	114.8	31.6	71.6	4.6	*2.6	*	559.3
WALLS OF OTHER MATERIALS									
Has wall insulation(b)	23.0	10.5	*4.4	*	*	*1.5	*2.8	*	43.2
Batt/blanket	*2.9	*1.8	*	*	*	*	*	*	6.0
Foil	*5.1	*4.8	*2.4	*	*	*	*1.0	*	13.9
Has no wall insulation	38.8	17.4	17.3	*3.1	*3.4	5.4	*1.4	*	86.7
Not known if wall insulated	*6.5	*5.8	*2.4	*	*	*	*2.8	*	17.9
Total	68.3	33.7	24.1	3.8	3.8	7.1	6.9	*	147.8
TOTAL									
Has wall insulation	205.0	255.1	86.4	59.1	21.3	28.1	4.5	13.2	672.8
Batt/blanket	59.6	49.7	7.2	31.8	*3.4	3.4	*1.3	5.5	162.0
Foil	100.3	175.6	64.3	20.8	11.1	22.2	*1.7	5.0	400.9
Granular/loose fill	*4.9	6.7	*	*1.2	*	*0.5	*	*	14.9
Foam	13.7	6.4	5.8	*	*3.5	*1.2	*1.3	*	33.1
Other	21.3	6.6	6.0	*	*1.2	*0.8	*	*	36.2
Type of insulation not known	*5.2	10.3	*2.8	4.3	*1.9	*	*	*	25.8
Has no wall insulation	1,037.1	662.8	546.6	342.4	357.7	94.1	9.2	47.1	3,097.1
Not known if wall insulated	209.6	265.5	98.7	54.5	56.6	16.3	9.5	14.8	725.5
Total	1,451.8	1,183.4	731.7	456.1	435.7	138.6	23.2	75.1	4,495.4

(a) Not asked at mobile/improvised, high or low rise dwellings, see Table 2. (b) Includes all other materials.

TABLE 13. NON-SHARED MAIN HEATING(a): TYPE OF MAIN HEATING BY TYPE OF SECONDARY HEATING(b) BY STATE, 1985-86
(^{000 of single households in private dwellings})

Type of secondary heating(b)	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia
ELECTRIC MAIN HEATING									
Households with secondary heating	352.2	136.4	65.8	100.0	50.4	33.5	*	32.8	771.1
Electric	271.8	101.9	39.7	71.8	33.8	24.4	*	26.5	572.0
Fixed	99.1	32.8	16.7	41.7	18.3	4.1	*	7.2	220.2
Portable	168.4	60.1	22.8	28.6	14.6	18.5	*	17.6	330.6
Both	*4.1	9.1	*	3.5	*	*1.7	*	*	11.1
Gas	23.6	20.2	*	15.4	*1.3	*1.5	*	*1.7	21.2
Oil	20.1	*5.9	*2.3	7.8	6.2	4.5	*	4.3	65.6
Wood/solid fuel	45.8	28.3	12.8	18.1	9.3	9.6	*	*3.6	127.5
Kerosene	17.1	*	*	3.6	3.6	*0.5	*	*	41.3
Other fuels	*	*	*	*	*	*	*	*	*
Households without secondary heating	662.9	124.4	354.0	82.9	79.9	13.5	*0.9	13.4	1,332.0
Total	1,015.1	260.8	419.8	182.9	130.3	47.1	*0.9	46.2	2,103.1
GAS MAIN HEATING									
Households with secondary heating	148.6	471.1	6.3	90.4	46.5	3.6	*	6.0	774.7
Electric	139.0	428.2	5.1	87.4	40.7	3.3	*	5.7	709.4
Fixed	36.5	134.0	*	29.9	14.3	*	*	*	164.4
Portable	96.4	266.9	*4.4	51.9	25.6	2.4	*	4.3	216.1
Both	*6.1	27.3	*	5.6	*	*0.8	*	*	45.1
Gas	*	33.9	*	*1.1	*2.7	*	*	*	41.5
Oil	*1.2	6.4	*	*	*1.5	*	*	*	40.8
Wood/solid fuel	15.9	69.7	*	5.0	4.9	*0.6	*	*	12.0
Kerosene	*6.1	8.2	*	*1.2	*	*	*	*	98.0
Other fuels	*	*	*	*	*	*	*	*	21.5
Households without secondary heating	73.5	301.5	5.3	39.1	36.3	*0.6	*	*	457.4
Total	222.1	774.6	11.6	129.4	82.8	4.2	*	7.0	1,232.1
OIL MAIN HEATING									
Households with secondary heating	74.3	51.3	7.0	34.7	29.1	14.0	*	10.8	221.3
Electric	69.7	49.3	6.5	34.1	27.3	13.8	*	10.8	211.7
Fixed	22.3	12.5	*	14.0	6.5	*	*	*	58.1
Portable	45.6	32.2	4.9	16.9	20.1	11.0	*	8.2	139.2
Both	*	*4.5	*	*1.2	*	2.4	*	*1.5	14.4
Gas	*	*	*	*	*1.3	*	*	*	*4.8
Oil	*	*	*	*	*	*	*	*	*2.8
Wood/solid fuel	*4.7	6.3	*	*1.7	*	*1.6	*	*1.7	17.2
Kerosene	*	*	*	*	*1.8	*	*	*	6.3
Other fuels	*	*	*	*	*	*	*	*	*
Households without secondary heating	22.3	11.7	*4.6	6.9	13.3	*0.6	*	*	60.0
Total	96.6	63.0	11.6	41.5	42.3	14.5	*	11.3	281.3
WOOD-SOLID FUEL MAIN HEATING									
Households with secondary heating	170.7	127.0	35.0	79.1	66.3	65.4	*	11.8	555.3
Electric	156.2	109.5	31.4	74.5	55.8	62.7	*	11.6	501.7
Fixed	36.9	26.8	*4.6	18.0	15.4	6.0	*	*3.9	111.5
Portable	113.7	76.5	25.3	49.6	39.6	47.6	*	6.5	357.7
Both	*5.7	6.3	*1.6	6.9	*	9.2	*	*2.2	32.5
Gas	9.6	19.4	*	5.3	7.8	2.5	*	*	45.3
Oil	*5.0	6.3	*1.4	4.6	4.2	3.7	*	*1.4	26.5
Wood/solid fuel	*	*3.3	*	*	*	*0.9	*	*	7.7
Kerosene	11.4	7.6	*3.5	*2.9	6.5	2.0	*	*	34.7
Other fuels	*	*	*	*	*	*	*	*	*
Households without secondary heating	84.7	36.8	30.7	19.6	53.8	11.9	*	*1.5	239.2
Total	255.4	163.8	65.7	98.7	120.1	77.4	*	13.2	794.6
MAIN HEATING USES OTHER FUELS									
Households with secondary heating	43.1	8.3	27.7	13.5	23.2	*1.1	*	*	117.3
Electric	41.1	*5.7	25.6	12.0	20.6	*1.1	*	*	108.5
Fixed	*6.2	*1.2	4.5	5.8	4.1	*	*	*	22.1
Portable	32.3	*3.2	21.6	7.3	14.1	*1.0	*	*	79.5
Both	*2.6	*	*	*	*	*	*	*	*4.9
Gas	*	*	*	*1.7	*1.5	*	*	*	*7.0
Oil	*	*	*	*	*	*	*	*	*3.6
Wood/solid fuel	*3.6	*	*2.1	*1.0	*2.2	*	*	*	10.3
Kerosene	*	*	*	*	*	*	*	*	*
Other fuels	*	*	*	*	*	*	*	*	*
Households without secondary heating	36.6	7.0	46.5	4.3	23.2	*	*	*	118.4
Total	79.7	15.4	74.2	17.8	46.3	*1.5	*	*	235.7
TOTAL - NON-SHARED MAIN HEATING									
Households with secondary heating	788.9	796.1	141.9	317.7	215.5	117.6	*	61.8	2,439.8
Electric	677.8	694.6	108.4	281.8	178.1	105.4	*	55.0	2,101.2
Fixed	201.1	208.1	26.4	108.0	60.3	10.8	*	13.4	638.0
Portable	456.4	438.9	78.9	154.3	114.0	80.5	*	35.6	1,358.7
Both	20.3	47.6	*3.1	19.5	3.8	4.1	*	6.1	114.5
Gas	38.9	76.4	*1.9	23.8	16.5	4.1	*	*2.0	163.5
Oil	29.7	21.2	*3.9	13.7	12.7	8.6	*	6.2	96.1
Wood/solid fuel	71.7	108.7	17.1	26.4	18.1	12.9	*	*1.3	260.8
Kerosene	37.0	17.1	19.4	10.3	15.2	3.0	*	*	103.4
Other fuels	*	*	*	*	*	*	*	*	*2.3
Households without secondary heating	880.0	481.4	441.0	152.7	206.5	27.1	*1.9	16.4	2,207.0
Totals	1,668.8	1,277.5	582.9	470.4	421.9	144.7	*2.3	78.2	4,646.8

(a) Excludes households with shared main heating or no heating at all.

(b) Households with more than one type of secondary heating are counted once for each type.

**TABLE 14. HOUSEHOLDS WITH NON-SHARED ELECTRIC, GAS OR OIL MAIN HEATING(a) OR AIR-CONDITIONING(b):
TYPE OF APPLIANCE BY STATE, 1985-86
(* 000 of single households in private dwellings)**

Type of appliance	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia
ELECTRIC MAIN HEATING(a)									
Central or ducted heating	*	11.5	*	*	*	*1.1	*	*1.9	16.9
Reverse cycle air-conditioning	136.2	31.8	17.2	37.8	17.6	*	*	6.6	247.5
Ducted	30.5	11.0	*2.6	6.1	3.7	*	*	*2.9	57.1
With thermostat	27.3	10.7	*2.6	5.3	*3.1	*	*	*2.9	52.1
Without thermostat	*3.3	*	*	*	*	*	*	*	*5.0
Non-ducted	105.7	20.8	14.6	31.7	13.9	*	*	*3.7	190.4
With thermostat	71.5	15.8	7.8	25.3	8.1	*	*	*3.1	131.6
Without thermostat	34.2	*5.0	6.7	6.5	5.8	*	*	*	58.8
Built in heaters	51.0	97.1	6.0	10.6	*3.0	21.3	*	22.4	211.5
With thermostat and fan	22.3	57.1	*	*1.3	*	11.6	*	15.2	108.1
With thermostat, without fan	*3.4	*3.2	*	*	*	*1.4	*	*	9.1
Without thermostat, with fan	14.3	24.8	*	5.8	*	6.2	*	5.5	57.8
With neither thermostat nor fan	11.0	12.1	*4.7	*3.3	*2.5	2.2	*	*	36.5
Portable heaters	825.8	120.4	396.4	134.5	109.6	24.7	*0.8	15.3	1,627.3
With thermostat and fan	133.5	17.9	42.9	21.7	16.1	6.1	*	4.8	243.2
With thermostat, without fan	105.8	14.9	44.3	11.7	12.4	3.3	*	*3.2	195.8
Without thermostat, with fan	168.3	37.3	87.6	27.5	24.8	4.0	*	4.2	353.8
With neither thermostat nor fan	418.2	50.2	221.6	73.7	56.3	11.2	*	*3.2	834.5
Total with electric main heating	1,015.1	260.8	419.8	182.9	130.3	47.1	*0.9	46.2	2,103.1
GAS MAIN HEATING(a)									
Central or ducted heating	*	173.6	*	*1.2	*	*	*	*	178.3
Heaters, portable or fixed	219.4	599.4	11.6	127.7	82.5	4.2	*	6.3	1,051.5
With thermostat and fan	21.2	294.6	*	49.3	15.3	*	*	*3.7	385.2
With thermostat, without fan	*19	9.1	*	*1.2	*	*	*	*	8.6
Without thermostat, with fan	83.5	253.7	5.6	39.2	33.3	3.6	*	*1.8	421.2
With neither thermostat nor fan	110.8	42.0	5.2	38.4	32.7	*	*	*	229.9
Total with gas main heating(c)	222.1	774.6	11.6	129.4	82.8	4.2	*	7.0	1,232.1
OIL MAIN HEATING(a)									
Central or ducted heating	*6.0	9.9	*	*	*	*0.7	*	*3.3	20.1
Other heaters	90.6	53.1	11.6	41.3	42.3	13.8	*	8.0	261.2
With thermostat and fan	8.5	*4.5	*	3.7	*1.8	*0.6	*	*	19.9
With thermostat, without fan	*3.1	*	*2.6	*1.2	*	*	*	*	8.6
Without thermostat, with fan	75.5	45.0	5.4	35.8	36.5	12.3	*	7.3	218.1
With neither thermostat nor fan	*3.4	*3.0	*3.1	*	*3.2	*0.7	*	*	14.5
Total with oil main heating	96.6	63.0	11.6	41.5	42.3	14.5	*	11.3	281.3
AIR-CONDITIONING(b)									
Ducted	66.5	42.7	10.3	32.5	25.0	*	6.5	*3.3	186.8
Refrigerative	50.4	27.4	4.9	16.6	18.9	*	4.9	*3.3	126.4
With thermostat	40.4	24.4	*3.8	13.6	16.3	*	4.9	*3.3	106.7
Reverse cycle(c)	38.7	19.0	*3.6	12.4	8.6	*	*1.3	*3.3	86.9
Other	*	*5.3	*	*1.2	7.7	*	3.6	*	19.8
Without thermostat	10.0	*3.0	*	*3.0	*2.6	*	*	*	19.8
Reverse cycle(c)	*5.3	*	*	*1.5	*	*	*	*	8.8
Other	*4.8	*1.9	*	*1.4	*1.8	*	*	*	11.0
Evaporative	16.1	15.3	5.3	16.0	6.0	*	*1.6	*	60.3
With thermostat	*	*	*	*2.8	*	*	*	*	7.3
Without thermostat	13.5	14.3	5.1	13.2	5.5	*	*1.6	*	53.0
Non-ducted	507.4	483.8	143.4	268.1	161.4	*0.7	10.1	20.0	1,595.0
Refrigerative	356.3	345.4	80.7	221.4	120.3	*	8.6	8.7	1,141.7
With thermostat	194.6	200.3	45.1	144.3	63.1	*	7.2	5.5	660.0
Reverse cycle(c)	153.8	106.8	21.2	93.2	38.3	*	*1.1	4.9	419.2
Other	40.8	93.5	23.9	51.1	24.8	*	6.1	*	240.8
Without thermostat	161.7	145.2	35.6	77.1	57.2	*	*1.4	*3.1	481.7
Reverse cycle(c)	114.5	66.9	14.0	36.7	29.9	*	*	*2.0	275.6
Other	47.2	78.2	21.5	40.4	27.3	*	*1.2	*	206.0
Evaporative	151.1	138.4	62.7	46.7	41.2	*	*1.5	11.3	453.3
With thermostat	*4.6	6.7	*	*3.1	*	*	*	*	17.0
Without thermostat	146.5	131.6	62.0	43.6	40.2	*	*0.9	11.1	436.3
Total with air-conditioning(c)	573.9	526.5	153.7	300.7	186.4	*0.7	16.6	23.2	1,781.7

(a) Excludes households with shared main heating or no heating at all. (b) Excludes households with shared air-conditioning. (c) Includes a small number of households with reverse cycle air-conditioning which uses gas as the heat source.

Survey design.

A sample of 19,331 private dwellings was selected in such a way that each dwelling within a State had the same chance of being selected. The sample was selected in three stages. Firstly, a sample of *Population Census Collectors Districts* (CD's) was selected. The second stage was to select a sample of *blocks* within each selected CD. Finally, a sample of *dwellings* was selected from a list of all the private dwellings within each selected block.

2. During the survey, measures designed to take into account constructions, conversions, demolitions, etc, ensure the selected sample of private dwellings continues to be representative of all such dwellings currently in existence in Australia.

Survey methodology.

Timing of interviews -

3. For the November 1980 and June 1983 surveys, all interviews were conducted over the second and third weeks of the respective month. For the 1985-86 survey, 25 interview periods commencing Monday, 17 June 1985, covered the twelve month period. The interview period which should have started on Monday, 16 December, was omitted. About 44% of the 1985-86 survey's "June" interviews were conducted in 1985 and the balance in 1986.

4. A number of separate contacts were necessary with the household as this survey required a diary to be kept to monitor the household's usage of certain appliances over a seven day period. All such contacts, etc, had to be finalised within six weeks from the commencement of the interview period.

The questionnaire -

5. Households were approached by specially trained interviewers. At the main interview, the interviewer went through the questionnaire with the head of the household (or another adult member) seeking the information outlined in paragraph 7 of the Explanatory notes.

6. If the household was not using reticulated electricity or more than one third of the domestic electricity bill was charged to a business, no further information was sought.

Annual consumption data -

7. During the main interview, but after they had completed the questionnaire, households who had resided in that dwelling for at least one year up to the time of interview (other than those exclusions from paragraph 6 above) were requested to authorise release of consumption data from the relevant suppliers of reticulated electricity and gas. The supply authorities were then approached to supply to ABS information on reticulated gas and electricity consumed by that household during the twelve months prior to the interview.

The diary -

8. At this point in the main interview the interviewer requested the co-operation of the head of the household (or another adult member) in completing a diary which allowed for the recording of the household's usage of selected appliances over a seven day period. Where agreement was given, the interviewer placed the diary, took a set of readings from the household's reticulated energy meters and made arrangements to contact the household by phone (or personal visit) midway through the seven day monitoring period to ensure no difficulties had been encountered.

9. On the day after the seven day monitoring period ended (or as soon thereafter as possible) the interviewer called back to collect the diary and take a second set of meter readings so reticulated energy consumption could be calculated over the seven day monitoring period.

Reliability of the estimates.

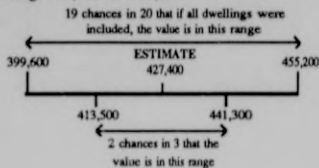
10. Since the estimates in this publication are based on information obtained from occupants of a sample of dwellings, they are subject to sampling variability; that is, they may differ from the figures that would have been produced if all dwellings had been included in the survey. One measure of the likely difference is given by the *standard error*, which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings was included. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all dwellings had been included, and about nineteen chances in twenty that the difference will be less than two standard errors. Another measure of the likely difference is the *relative standard error* (RSE) which is obtained by expressing the standard error as a percentage of the estimate.

11. Space does not allow for the separate indication of the standard errors of all estimates in this publication. A table of standard errors for general application is given on the following page. Since they are averages based on calculations for a limited number of characteristics, these figures will not give a precise measure of the standard error of a particular estimate but they will provide an indication of its magnitude.

12. An example of the calculation and use of standard errors in relation to estimates of households is as follows. Table 3 shows that the estimated number of households in Sydney with a one door fridge is 427,400. This estimate is between 300,000 and 500,000 in the *estimate* column of the standard error table. From the *New South Wales* column, the standard error will fall between 12,000 and 15,000 and can be pro rated as 13,900 (rounded to the nearest 100).

13. As the following diagram illustrates, there are about two chances in three that the value that would have been

produced if all dwellings had been included in the survey will fall in the range 413,500 to 441,300 and about nineteen chances in twenty that the value will fall within the range 399,600 to 455,200.



14. As can be seen from the standard error table, the smaller the estimate the higher is the relative standard error. Very small estimates are thus subject to such high standard errors (relative to the size of the estimate) as to detract seriously from their value for most reasonable uses. Therefore, in the tables in this publication where estimates are replaced or preceded by the symbol (*),

- estimates preceded by this symbol have a relative standard error of between 25 per cent and the lowest levels shown in the standard error table, thus care should be exercised in using them.
- estimates replaced by this symbol have a relative standard error worse than the lowest levels shown in the standard error table and so have not been published. Although figures for these estimates can, in some cases, be derived by subtraction they should not be regarded as reliable.

15. 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. The formula for the relative standard error (RSE) of a proportion is:

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

16. Considering the example from paragraph 13 above,

the proportion of households with a one door fridge (427,400) in Sydney (1,119,500) is 38.2%. Since the standard error for 1,119,500 is approximately 20,800 the relative standard error is 1.9%. The relative standard error of 427,400 is 3.3%. Applying the above formula, the relative standard error is:

$$RSE(38.2\%) = \sqrt{[3.3]^2 + [1.9]^2} = 2.7\%$$

17. Thus 2.7% of 38.2 percentage points gives a standard error of 1.0 percentage points. Therefore there are about two chances in three that the proportion of households in Sydney with a one door fridge is between 37.2% and 39.2% and nineteen chances in twenty that the proportion is within the range 36.2% and 40.2%.

18. Published figures may also be used to estimate the difference between two survey estimates (of numbers or percentages). Such a figure is itself an estimate and is therefore subject to sampling error. The sampling error of the difference between two estimates depends on their standard errors and the relationship (correlation) between them. An approximate standard error (SE) of the difference between two estimates ($x - y$) may be calculated by the formula:

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

While this formula will only be exact for difference between separate and uncorrelated characteristics or sub-populations, it is expected to provide a good approximation for all differences likely to be of interest in this publication.

19. The imprecision due to sampling variability, which is measured by the standard error, should not be confused with inaccuracies that may occur because of imperfections in reporting by interviewers and respondents, and errors made in the coding and processing of data. Inaccuracies of this kind are referred to as the non-sampling error, and they may occur in any enumeration, whether it be a full count or a sample.

APPROXIMATE STANDARD ERROR OF ESTIMATES

[illegible]