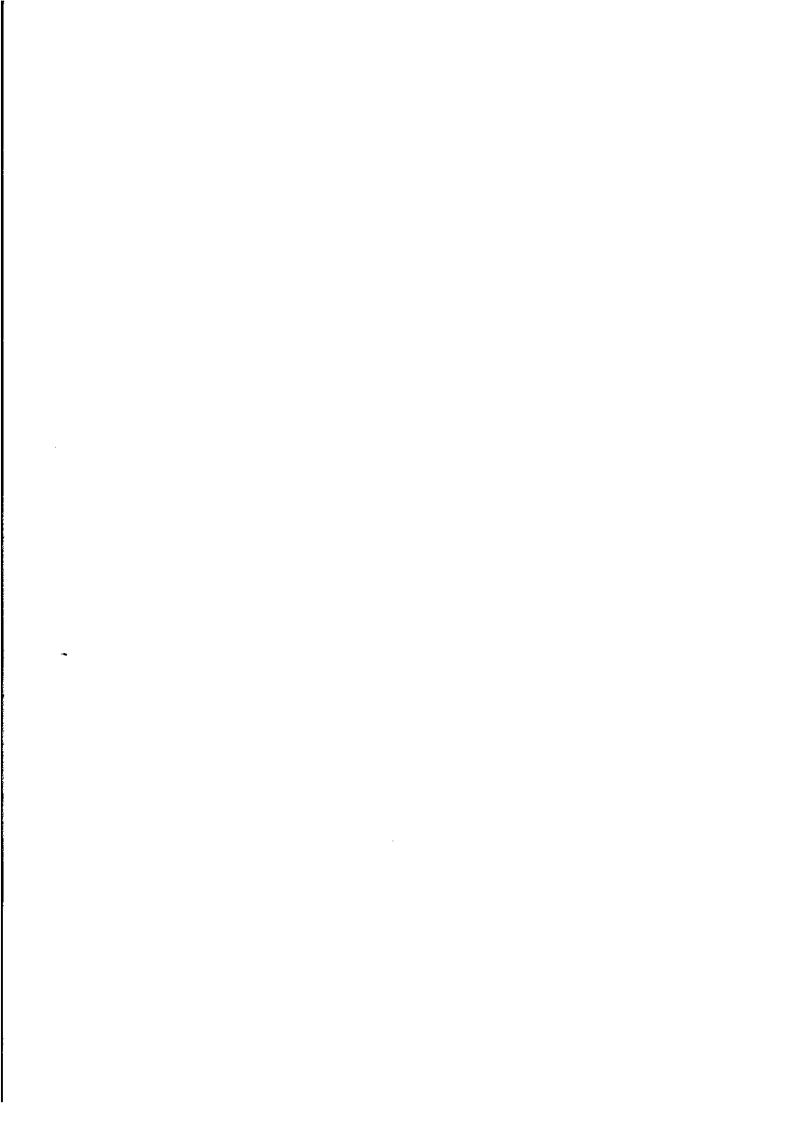


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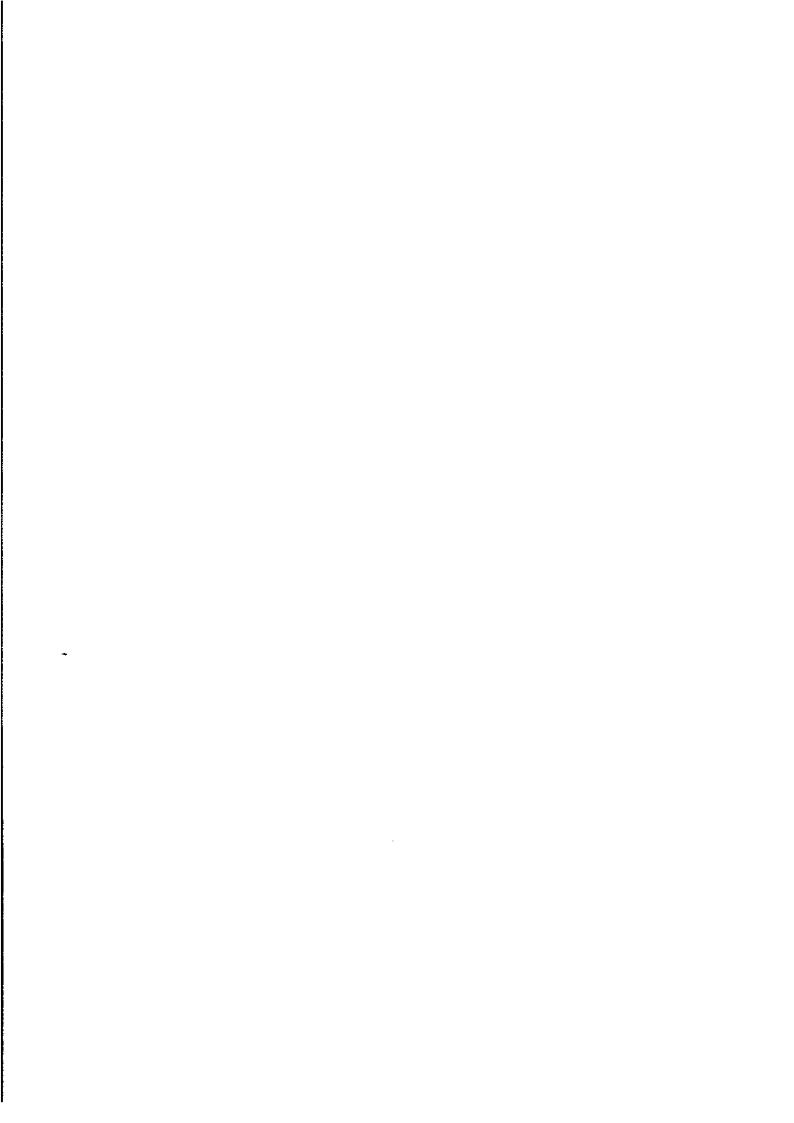
Conservation of Energy, Water and the Environment

Perth Statistical Division

November 1992



Conservation of Energy, Water and the Environment Perth Statistical Division November 1992



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Comparison with previous surveys

The proportion of households using gas for either cooking, room heating or water heating increased between 1985-86 and November 1992. The proportion of households using gas hotplates increased from 36.7 per cent to 43.9 per cent; those using gas ovens increased from 29.1 per cent to 35.2 per cent; those using gas room heating increased from 21.2 per cent to 35.5 per cent and those using gas water heating increased from 30.6 per cent to 45.1 per cent.

Microwave ovens were in 69.6 per cent of households according to the November 1992 survey compared with 34.1 per cent in 1985-86.

Some 82.9 per cent of households reported having an automatic washing machine in the November 1992 survey compared to 63.6 per cent in June 1983. Over the same period the proportion of households with washing machines, other than automatic, decreased from 27.3 per cent to 11.1 per cent.

Households with clothes dryers increased from 30.6 per cent of households in June 1983 to 44.5 per cent in November 1992.

Wood/solid fuel as a source of main heating increased from 20.6 per cent of households in 1985-86 to 24.1 per cent by November 1992.

The proportion of households using solar hot water systems increased from 21.5 per cent to 25.0 per cent between June 1983 and 1985-86. There had been little change since, with 24.1 per cent of households indicating they used solar hot water in the November 1992 survey.

Roof or ceiling insulation was reported in 45.7 per cent of dwellings in 1985-86 and this increased to 55.3 per cent of dwellings by November 1992.

TABLE 1. HOUSEHOLDS: APPLIANCES/FACILITIES BY YEAR (a)

	June 1983(b)	1985-86(c)	Nov. 1992	June 1983	1985-86	Nov. 1992
	Nu	mber of households ((000)	Propor	tion of households	(per cent)
Refrigerator	317.8	346.4	448.2	99.9	99.7	99.8
Hotplates	n.a.	344.8	432.6	n.a.	99.3	96.3
Electric only	200.7	213.4	223.3	63.1	61.4	49.7
Gas only	115.1	127.5	197.2	36.2	36.7	43.9
Conventional Ovens						
Electric	211,3	213.4	280.6	66.4	60.5	62.5
Gas	101.0	127.5	157.9	31.7	29.1	35.2
Microwave oven	n.a.	118.5	312.7	n.a.	34.1	69.6
Dishwasher	n.a.	53.5	79.7	n.a.	15.4	17.8
Washing machine	289.3	319.3	422.2	90.9	91.9	94.0
Automatic	202.4	241.8	372.2	63.6	69.6	82.9
Other	86.9	77.5	50.0	27.3	22.3	11.1
Clothes dryer	97.5	123.3	199.9	30.6	35.5	44.5
Air conditioning	n.a.	131.6	177.8	n.a.	37.9	39.6
Main heating	n.a.	325.7	416.5	n.a.	93.8	92.8
Electric	n.a.	108.9	116.6	n.a.	31.3	26.0
Gas	n.a.	73.8	159.4	n.a.	21.2	35.5
Wood/solid fuel	n.a.	71.4	108.3	n.a.	20.6	24.1
Other	n.a.	71.7	32.3	n.a.	20.6	7.2
No heating	n.a.	21.7	32.5	n.a.	6.2	7.2
Water heating						
Electric	115.0	116.9	123.7	36.1	33.6	27.6
Gas	90.8	106.2	202.5	28.6	30.6	45.1
Solar	68.4	86.8	108.1	21.5	25.0	24.1
Other	29.1	20.5	14.3	9.1	5.9	3.2
Roof insulation	п.а.	158.9	248.1	n.a.	45.7	55.3
Swimming pool	n.a.	50.8	67.1	n.a.	14.6	14.9
Bore /well pump	n.a.	81.0	99.6	n.a.	23.3	22.2
Total households	318.2	347.4	449.0	100.0	100.0	100.0

See Explanatory Notes, (a) Numbers of households are not directly comparable for different years due to changes in collection methodology. Estimates of proportions of the population having a certain appliance, etc, are relatively independent of the methodology used. It is recommended that where comparisons are made across years that figures shown in 'Proportion of households (per cent)' be used. (b) Source National Energy Survey: Household Appliances, Facilities and Insulation Australia June 1983. (c) Source National Energy Survey Household Appliances, Facilities and Insulation, Australia 1985-86.

Dwellings

It is estimated there were 449,000 occupied dwellings in the Perth Statistical Division at November 1992. Households reported 54.6 percent of dwellings were less than 20 years old and 36.8 per cent of dwellings were 20 years or older; 8.5 per cent of households reported the age of dwellings as unknown.

External walls

Dwellings with double brick external walls were reported by 86.4 per cent of households. Dwellings with double brick external walls accounted for 96.2 per cent of dwellings less than 20 years old. For dwellings 20 years or older, approximately 73.4 per cent had external double brick walls; 14.1 per cent had timber/fibro veneer walls and about 10.0 per cent had brick veneer walls.

TABLE 2. HOUSEHOLDS: TYPE OF EXTERNAL WALLS BY AGE OF DWELLING NOVEMBER 1992

				Age of d	welling							Age of a	lwelling			
Type of	Less than 5		14	19	20 to 39	or	Do noi	T. 1	Less than 5		14	15 to 19	39		Da not	<i>a</i> r .
external walls	years	years	years	years	years	more	know	Total	years	years	years	years	years	more	know	1010
		٨	iumber -	of house	holds (000)				Propor	tion of a	ill house	eholds (į	per cent)	
Double brick	59.2	64.0	57.2	55.6	78.1	42.8	31.1	387.9	97.7	97 .9	94.6	94.5	74.4	70.7	80.9	86.
Brick veneer	**0.2	**0.3	1.6	2.7	16.1	**0.5	3.6	25.0	**0.4	**0.5	2.7	4.5	15.3	**0.9	9.3	5.6
Timber/fibro veneer	* 0.9	* 1.1	**0.6	**0.6	10.5	12.8	2.5	28.8	* 1.4	• 1.6	**0.9	1.0	10.0	21.1	6.4	6.4
Other	**0.3	**	* 1.1	**	**0.3	4.4	* 1.3	7.3	**0.4	**	* 1.8	**	**0.3	7.3	* 3.4	1.0
TOTAL	60.5	65.4	60.5	58.8	104.9	60.6	38.4	449.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100

Sec Explanatory Notes.

Internal walls

Of the total households, 85.2 per cent reported dwellings with internal brick walls and 13.1 per cent had plasterboard/gyprock internal walls. For dwellings less than 20 years old, 94.7 per cent had brick internal walls and just 4.7 per cent had plasterboard gyprock internal walls. For dwellings 20 years or older, 72.4 per cent had brick internal walls and 24.1 per cent had plasterboard/gyprock internal walls.

TABLE 3. HOUSEHOLDS: TYPE OF INTERNAL WALLS BY AGE OF DWELLING NOVEMBER 1992

		· · · · · -		ge of a	lwelling							Age of a	twelling			
Type of internal walls	Less than 5 years	S to 9 years	10 to 14 years	15 to 19 years	20 to 39 years	or	Do nos know	Total	Less than 5 years		14	19	20 to 39 years	07	Do not know	
		Nur	nber of h	wuseho	ids ('000))			Pr	oportio	of all	househo	ilds (per	cent)		
Brick Plasterboard/gyprock Other	56.9 2.8 • 0.8	63.7 * 1.4 **0.3	56.7 3.5 **0.3	54.9 3.9 **	77,3 25.6 2.0	42.6 14.3 3.6	30.6 7.3 **0.5	382.6 58.8 7.6	93.9 4.7 * 1.4	97.4 * 2.2 **0.4	93.7 5.9 **0.5	93.4 6.6 **	73.7 24.4 1.9	70.3 23.7 6.0	79.7 18.9 1.3	85.2 13.1 1.7
TOTAL	60.5	65.4	60.5	58.8	104.9	60.6	38.4	449.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Roofs

Overall, 84.5 per cent of dwellings had tile roofs and 13.0 per cent had metal/fibro (asbestos) roofs. Of the dwellings with metal/fibro (asbestos) roofs, 64.8 per cent were 20 years or older. Dwellings being built with tile roofs had declined over the last 10 years. There has been an increase in dwellings built with metal/fibro (asbestos) roofs over the same period.

For dwellings 10 to 14 years old, 95.5 per cent had tile roofs and 3.3 per cent had metal/fibro (asbestos) roofs.

For dwellings less than 10 years old 89.2 per cent had tile roofs and 10.3 per cent had metal/fibro (asbestos) roofs.

TABLE 4. HOUSEHOLDS: TYPE OF ROOF BY AGE OF DWELLING NOVEMBER 1992

				Age of d	welling							Age of d	welling			
Type of	Less than 5		14	15 to 19	39		Do not	Total	Less than 5		10 to 14	15 to 19	20 to 39		Do not	Tota
roof	years	years	years	years	years	more	lotow	10141	years	years	years	years	years	more	know	1014
		N	umber d	f house	holds (1	0 0 0)				Proport	ion of a	ll house	holds (p	er cent)	
Tile	53.6	58.7	57.8	54.5	84.1	40.9	30.1	379.5	88.5	89.8	95.5	92.7	80.2	67.4	78.4	84.5
Metal/Fibro (asbestos)	6.9	6.1	2.0	2.6	18.6	19.2	2.9	58.3	11.5	9.3	3.2	4.4	17.7	31.7	7.7	13.0
Other	**	* 0.6	* 0.8	1.8	2.2	**0.5	5.4	11.2	**	* 0.9	• 1.3	3.0	2.1	**0.8	14.0	2.5
TOTAL	60.5	65.4	60.5	58.8	104.9	6 0.6	38.4	449.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Roof and ceiling insulation

Of the households surveyed, 55.2 per cent reported having roof or ceiling insulation; 33.1 per cent said they had no insulation and 11.7 per cent said they didn't know if the dwelling was insulated.

Households with a combined income of up to \$40,000 constituted 62.2 per cent of households. Of these, 50.6 per cent reported having insulation; 36.3 per cent said they had no insulation and 13.1 per cent said they didn't know.

For households with a combined income of over \$60,000, 70.3 per cent said they had insulation; 22.8 per cent reported no insulation and 7.1 per cent said they didn't know.

TABLE 5, HOUSEHOLDS: WHETHER ROOF OR CEILING INSULATED BY TOTAL HOUSEHOLD INCOME NOVEMBER 1992

			Househol	d income					Househol	d income		
Whether roof or ceiling is insulated	\$20,000 or less	\$20,001 to \$40,000	\$40,001 to \$60,000	\$60,001 and over	Do not know	Total	\$20,000 or less	\$20,001 to \$40,000	\$40,001 10 \$60,000	\$60,001 and over	Do not know	Total
		Numb	er of house	eholds ('000))		P_{I}	roportion o	fall house	holds (per	cent)	
Yes	70.3	71.0	53.1	41.6	12.1	248.1	47.9	53.6	59.1	70.2	59.0	55.:
No	53.3	48.1	28.6	13.5	5.0	148.5	36.3	36.3	31.8	22.7	24.6	33.1
Do not know	23.3	13.4	8.2	4.2	3.4	52.4	15.9	10.1	9.1	7.1	16.4	11.3
TOTAL	146.9	132.5	89.9	59.2	20.5	449.0	100.0	100.0	100.0	100.0	100.0	100.0

Type of Insulation

Insulation was installed in the roof or ceiling of 61.2 per cent of dwellings aged less than 40 years, while only 44.0 per cent of dwellings aged 40 years or more were insulated.

Of the households which reported having insulation, 78.5 per cent said they had batts or blow-in insulation; 10.7 per cent said they had other insulation (including sisalation and reflective insulation) and 10.8 per cent said they didn't know which type of insulation they had.

Separate houses were reported as having insulation in 61.6 per cent of cases. Of these, 79.0 per cent said they had batts or blow-in insulation; 10.8 per cent said they had other insulation and 10.2 percent said they had insulation but didn't know which type.

For dwellings reported as semi-detached, row or terrace house, townhouse etc, 36.2 per cent had some form of insulation installed in the roof or ceiling.

TABLE 6. HOUSEHOLDS: TYPE OF ROOF OR CEILING INSULATION BY AGE OF DWELLING NOVEMBER 1992

				age of a	lwelling							Age of a	lwelling			
Type of insulation	Less than 5 years	5 to 9 years	10 to 14 years	15 to 19 years	20 to 39 years	-	Do not know	Total		S to 9 years	10 to 14 years	15 to 19 years	20 to 39 years	07	Do not know	_
		N	umber a	f house	holds ("	000)				Propon	ion of a	ll house	holds (p	er cent)	
Batts or blow-in Other(s) Do not know	24.9 4.0 2.6	33.5 5.7 4.4	32.4 2.2 4.4	33.7 3.2 3.6	46.8 8.1 4.6	21.1 2.2 3.4	2.2 • 1.2 3.9	194.7 26.6 26.9	41.1 6.7 4.3	51.3 8.7 6.7	53.6 3.6 7.3	57.3 5.4 6.1	44.6 7.7 4.4	34.8 3.6 5.7	5.7 * 3.0 10.1	43.3 5.9 6.0
No insulation(b)	29.0	21.7	21.5	18.4	45.4	33.9	31.1	201.0	47.9	33.3	35.5	31.2	43.3	55.9	81.1	44.8
TOTAL	60.5	65.4	60.5	58.8	104.9	60.6	38.4	449.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes. (a) Other includes sisulation, reflective foil and other. (b) Includes households who did not know if their dwelling was insulated.

TABLE 7. HOUSEHOLDS: TYPE OF ROOF OR CEILING INSULATION BY DWELLING TYPE NOVEMBER 1992

		Dwelling	type			Dwelling	type		
	ć	Semi- letached, row or terrace				Semi- letached, row or terrace			
Type of insulation	Separate house	house, Iownhouse elc.	Other(a)	Total	Separate house	house, townhouse etc.	Other(a)	Total	
	Num	ber of household	s ('000)		Proportion	Proportion of all households (per cent)			
Batts or blow-in Other(b) Do not know	176.9 24.1 22.8	16.5 * 1.3 3.3	* 1.3 * 1.1 * 0.8	194.7 26.6 26.9	48.7 6.6 6.3	28.3 • 2.2 5.7	* 4.7 * 4.2 * 2.9	43 .3 5 .9 6 .0	
No insulation(c)	139.6	37.1	24.3	201.0	38.4	63.8	88.3	44.8	
TOTAL	363.4	58.2	27.5	449.0	100.0	100.0	100.0	100.0	

See Explanatory Notes. (a) Other includes flat or apartment in 1 to 4 storey block and other. (b) Other includes sizulation, reflective foil and other. (c) Includes households who did not know if their dwelling was insulated.

No insulation

Of the households which reported no insulation, 30.8 per cent said it was due to cost; 26.5 per cent said it was because they were not the owner or were not responsible and 16.8 per cent said they believed it wouldn't make much difference.

For separate houses which reported no insulation, 35.1 per cent said it was due to cost. A further 58.1 per cent said it was due to one of the following reasons: doesn't make much difference (19.5 per cent); not owner/not responsible (19.4 per cent) and other (19.2 per cent).

For dwellings classified as semi-detached, row or terrace houses, town house etc. who reported no insulation, 39.0 per cent gave the reason that they were not the owner or were not responsible.

Where a house was owned or being purchased by the householder and the householder reported no insulation, cost was the reason given by 43.0 per cent of respondents. A further 23.7 per cent said they believed insulation wouldn't make much difference.

Where the dwelling was rented, 84.3 per cent of respondents gave the reason not owner/not responsible.

TABLE 8. HOUSEHOLDS: REASON NO ROOF OR CEILING INSULATION BY DWELLING TYPE NOVEMBER 1992

		Dwelling ty	уре			Dwelling typ	oe -	
Reason	Separate house	Semi detached, row or terrace house, townkouse etc.	Other(a)	Total	Separate house	Semi detached, row or terrace house, townhouse etc.	Other(a)	Total
		Number of househ	iolds ('000)		Propor	tion of household	is (per cent)	
Cost	39.4	5.7	**0.6	45.7	35.1	22.9	**5.2	30.8
Not owner/not responsible	21.8	9.7	7.8	39.3	19.4	39.0	67.2	26.5
Does not make much difference	21.9	2.7	**0.3	24.9	19.5	10.8	**2.6	16.8
Other	21.5	5.1	1.7	28.3	19.2	20.5	14.7	19.1
Do not know	7.4	1.6	*1.3	10.4	6 .6	6.4	*11.2	7.0
TOTAL	112.1	24.9	11.6	148.5	100.0	100.0	100.0	100.0

See Explanatory Notes. (a) Other includes flats or apartments in 1 to 4 storey blocks and other.

TABLE 9. HOUSEHOLDS: REASON NO ROOF OR CEILING INSULATION BY TYPE OF OCCUPANCY NOVEMBER 1992

		Type of oc	сирапсу			Type of o	ссирапсу	
Reason	Owner/being purchased	Rented	Other	Total	Owner/being purchased	Rented	Other	Total
	Nun	ber of househol	ds ('000)		Proporti	on of household	ls (per cent)	
Cost	43.8	1.9	**	45.7	43.Ô	4.2	**	30.8
Not owner/not responsible	*0.9	38.2	**0.3	39.3	*0.9	84.3	**23.1	26.5
Does not make much difference	24.1	**0.3	**0.5	- 24.9	23.7	**0.7	**38.5	16.8
Other	25.8	2.0	**0.5	28.3	25.3	4.4	**38.5	19.1
Do not know	7.3	3.0	**	10.4	7.2	6.6	**	7.0
TOTAL	101.9	45.3	*1.3	148.5	100.0	100.0	100.0	100.0

Heating of main room

Natural gas was used in main room heating in 35.5 per cent of households, electricity was used by 26.0 per cent and firewood by 24.1 per cent. There were 32,500 households (7.2 per cent) which had no main room heating.

Separate houses constituted 80.9 per cent of dwellings. Natural gas main room heating was used in 36.3 per cent of separate houses, firewood in 28.8 per cent, electricity in 21.4 per cent and 5.5 per cent had no heating.

Semi-detached, row or terrace houses, townhouses etc., constituted 13.0 per cent of dwellings. Electrical heating was used by 43.5 per cent and natural gas heating was used by 38.9 per cent. Firewood was used by 5.4 per cent and 8.5 per cent had no heating.

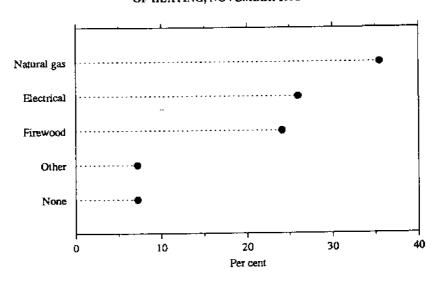
Other dwellings including flats or apartments in 1 to 4 storey blocks constituted 6.1 per cent of dwellings. Electrical heating was used by 49.1 per cent of other dwellings; natural gas heating was used by 17.1 per cent and 27.6 per cent had no heating.

TABLE 10. HOUSEHOLDS: SOURCE OF HEATING OF MAIN ROOM BY DWELLING TYPE NOVEMBER 1992

		Dwelling	typė			Dwelling.	type	
	4	Semi- letached, row or terrace house.			é	Semi- letached, row or terrace house,		
	Separate	townhouse			Separate	townhouse		
Source of heating	house	etc.	Other(a)	Total	house	eic.	Other(a)	Total
	Numb	er of households	('000)		Proportion of	fall households	(per cent)	
Natural gas (mains)	132.1	22.6	4.7	159.4	36.3	38.9	17.1	35.5
Electrical	77.8	25.3	13.5	116.6	21.4	43.5	49.1	26.0
Firewood	104.8	3.2	**0.3	108.3	28.8	5.4	**1,1	24.1
Other	28.8	2.1	* 1.4	32.3	7.9	3.6	* 5.0	7.2
None	20.0	4.9	7.6	32.5	5.5	8.5	27.6	7.2
TOTAL	363.4	58.2	27.5	449.0	100.0	100.0	100.0	100.0

See Explanatory Notes. (a) Other includes flat or apartment in 1 to 4 storey block and other.

PROPORTION OF ALL HOUSEHOLDS BY SOURCE OF HEATING, NOVEMBER 1992



Air conditioning

At the time of the survey, 39.6 per cent of dwellings had one or more air conditioners. For dwellings reported as separate houses, the proportion was 43.9 per cent and for semi-detached, row or terrace houses, town houses etc., it was 25.2 per cent.

For households in separate houses which reported air conditioning, 37.3 per cent had reverse cycle air conditioning; 36.0 per cent had refrigerated air conditioning and 25.0 per cent had evaporative air conditioning.

TABLE 11. HOUSEHOLDS: NUMBER OF AIR CONDITIONERS BY DWELLING TYPE NOVEMBER 1992

	 "	Dwelling	type			Dwelling	гуре		
Number of air conditioners	Separate house	Semi- detached, row or terrace house, townhouse etc.	Other(a)	Semi- detached, row or terrace house, Separate townhouse Total house etc. Other(a) Proportion of all households (per cent) 147.7 36.2 23.1 10.0					
	Numb	er of households	('000)		Proportion (of all households	(per cent)		
One Two or more None	131.5 27.9 204.0	13.4 * 1.3 43.4	2.8 * 0.9 23.9	147.7 30.1 271.3	36.2 7.7 56.1	23.1 * 2.3 74.7	10.0 * 3.2 86.8	32.9 6.7 60.4	
TOTAL	363.4	58.2	27.5	449.0	100.0	100.0	100.0	100.0	

See Explanatory Notes. (a) Other includes flat or apartment in 1 to 4 storey block and other.

TABLE 12. HOUSEHOLDS: TYPE OF AIR CONDITIONER BY DWELLING TYPE NOVEMBER 1992

		Dwellin	g type			Dwelling	type	
Type of air conditioner	Separate house	Semi detached, row or terrace house, townhouse etc.	Other(a)	Total	Separate house	Semi detached, row or terrace house, townhouse etc.	Other(a)	Total
	Nun	nber of household	is ('000)		Proportion	of all household	ls (per cens)	
Reverse cycle Refrigerated Evaporative Do not know	59.5 57.4 39.8 2.7	5.4 3.4 5.4 **0.6	1.7 *0.8 *0.8 **0.3	66.6 61.6 46.0 3.6	37.3 36.0 25.0 1.7	36.7 23.1 36.7 **4.1	47.2 *22.2 *22.2 **8.3	37.5 34.6 25.9 2.0
TOTAL	159.4	14.7	3.6	177.8	100.0	100.0	100.0	100.0

See Explanatory Notes. (a) Other includes flats or apartments in 1 to 4 storey blocks and other.

Hot water

During the summer of 1992, 45.1 per cent of households used natural gas as the main energy source for their hot water system. A further 27.5 per cent used electricity and 24.1 per cent used solar energy.

In separate houses, 67.5 per cent of households reported using natural gas or electricity as their main source and 28.7 per cent reported using solar energy.

In semi-detached, row or terrace houses, townhouses etc., 95.2 per cent of households said they used natural gas or electricity for their hot water and 4.8 per cent said they used solar energy.

In households classified as owner/being purchased, natural gas hot water systems were used by 43.5 per cent and solar hot water systems were used by 29.0 per cent.

Electricity was used to boost 93.3 per cent of solar hot water systems. A further 3.5 per cent used natural gas and 3.1 per cent used other energy sources.

TABLE 13. HOUSEHOLDS: MAIN ENERGY SOURCE FOR HOT WATER DURING THE SUMMER BY DWELLING TYPE NOVEMBER 1992

_		Dwelling	type			Dwelling	type	
	4	Semi- detached, row or terrace			4	Semi- detached, row or terrace		
Main energy source for hot water	Separate house	house, townhouse etc.	Other(a)	Total	Separate house	house, townhouse etc.	Other(a)	Total
	Numb	er of households	('000)		Proportion of	f all households	(per cent)	
Natural gas (mains) Electricity Solar Other	158.5 86.9 104.2 13.4	29.5 25.9 2.8	14.5 10.8 * 1.1 * 0.8	202.5 123.7 108.1 14.3	43.6 23.9 28.7 3.7	50.7 44.5 4.8 **	52.7 39.4 * 4.0 * 3.0	45.1 27.5 24.1 3.2
TOTAL	363.4	58.2	27.5	449.0	100.0	100.0	100.0	100.0

See Explanatory Notes. (a) Other includes flat or apartment in 1 to 4 storey block and other.

TABLE 14. HOUSEHOLDS: MAIN ENERGY SOURCE FOR HOT WATER SYSTEMS BY TYPE OF OCCUPANCY NOVEMBER 1992

		Type of occup	pancy		Type of occupancy					
Main energy source for hot water	Owner/being purchased	Rented	Other	Total	Owner/being purchased	Rensed	Other	Tota.		
	Number	of households ((000)		Proportion of	all households (per cent)			
Natural gas (mains)	145.4	54.2	2.9	202.5	43.5	50.2	42.6	45.1		
Electricity	79.7	40.9	3.0	123.7	23.9	37.9	45.1	27.5		
Solar	96.9	10.6	**0.6	108.1	29.0	9.8	**8.5	24.1		
Other	11.6	2.4	**0.3	14.3	3.5	2.2	**3.8	3.2		
TOTAL	334.3	108.1	6.7	449.0	100.0	100.0	100.0	100.0		

See Explanatory Notes.

TABLE 15. HOUSEHOLDS: ENERGY SOURCE FOR BOOSTING SOLAR HOT WATER SYSTEM BY TYPE OF OCCUPANCY NOVEMBER 1992

		Type of occu	фапсу		Type of occupancy						
Energy source of booster	Owner/being purchased	Rented	Other	Total	Owner/being purchased	Rented	Other	Total			
	Nun	nber of househol	ds ('000)	Proporti	on of household	ls (per cent)					
Electricity	91.1	9.2	**0.6	100.9	94.0	86.8	**100.0	93.3			
Natural gas (mains)	2.9	*0.8	**	3.8	3.0	*7.5	**	3.5			
Other	2.9	**0.6	**	3.4	3.0	**5.7	**	3.1			
TOTAL	96.9	10.6	**0.6	108.1	100.0	100.0	100.0	100.0			

Cooking

Of all the households surveyed, 62.5 per cent reported having an electric oven and 35.2 per cent said they had a natural gas oven.

Electric hotplates were in 49.7 per cent of all households and natural gas hotplates were in 43.9 per cent of households.

For dwellings less than 5 years old, 68.9 per cent reported having an electric oven and 30.2 per cent reported having a gas oven.

Electric hot plates were in 38.5 per cent of dwellings less than 5 years old and natural gas hotplates were in 56.1 per cent of dwellings less than 5 years old.

TABLE 16. HOUSEHOLDS: TYPE OF COOKING FACILITIES(a) BY AGE OF DWELLING NOVEMBER 1992

				ge of d	welling							age of d	welling	<u>_</u>		
						40								40		
	Less		10 to	15 to	20 to	years			Less		10 to	15 to		years		
Type of cooking	than 5	5 to 9	14	19	39	OF	Do noi		than 5	5 10 9	14	19	39	OF	Do not	
facilities	years	years	years	years	years	more	bnow	Total	years	years	years	years	years	more	know	Total
		Num	ber of h	ousehol	ds ('000))			Pr	oportion	of all h	ousehol	ds (per	cent)		
Electric oven	41.7	49.3	45.5	39.6	62.9	22.3	19.2	280.6	68.9	75.4	75.1	67.4	60.0	36.8	50.1	62.5
Natural gas oven	18.3	15.0	12.6	17.3	41.4	34.6	18.6	157.9	30.2	22.9	20.9	29.5	39.5	57.2	48.5	35.2
Other oven	2.0	2.2	4.3	3.8	2.9	7.3	* 1.1	23.7	3.3	3.4	7.2	6.5	2.7	12.1	* 2.8	5.3
Electric hotolates	23.3	37.9	36.8	32.3	57.4	18.5	17.1	223.3	38.5	57.9	60.8	55.0	54.8	30.5	44.6	49.3
Natural gas hotplates	33.9	23.7	21.1	21.3	42.4	36.0	18.8	197.2	56.1	36.3	34.8	36.2	40.4	59.4	48.9	43.9
Other hotplates	**0.3	1.6	1.6	2.7	1.5	3.8	**0.5	12.1	**0.4	2.5	2.6	4.6	1.5	6.2	1.4	2.7
TOTAL	60.5	65.4	60.5	58.8	104.9	60.6	38.4	449.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes. (a) Because an individual household could report more than one item, figures given for individual items may not add to the total.

Clothes dryer

It is estimated that 44.5 per cent of households had a clothes dryer. For married couples living with a child or children, the estimate was 65.9 per cent and for lone parents living with a child or children, the estimate was 39.6 per cent. Almost 20.0 per cent of persons living alone reported having a clothes dryer.

TABLE 17. HOUSEHOLDS: WHETHER HAS CLOTHES DRYER BY HOUSEHOLD TYPE NOVEMBER 1992

			Househo	ld type					Househo	ld type		
Whether has clothes dryer	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total
		Number oj	f household	ds ('000)			Prope	ortion of ali	househol	ds (per ce	nt)	
Yes No	40.9 63.1	107.6 55.6	17.6 71.9	13.8 21.0	20.0 37.5	199.9 249.1	39.3 60.7	65 .9 34 .1	19.7 80.3	39.6 60.4	34.8 65.2	44.5 55.5
TOTAL	104.1	163.1	89.5	34.8	57.5	449.0	100.0	100.0	100.0	100.0	100.0	100.0

Dishwashers

In November 1992, 17.8 per cent of households reported having a dishwasher. Dishwashers were in 6.4 per cent of households, which had a combined income of \$20,000 or less, and in 45.2 per cent of households with a combined income of over \$60,000.

TABLE 18. HOUSEHOLDS: WHETHER HAS DISHWASHER BY TOTAL HOUSEHOLD INCOME NOVEMBER 1992

			Househol	d income			.		Househo	ld income		
Whether has dishwasher	\$20,000 or less	\$20,001 to \$40,000	\$40,001 10 \$60,000	\$60,001 and over	Do not know	Total	\$20,000 or less	\$20,001 to \$40,000	\$40,001 to \$60,000	\$60,001 and over	Do not know	Total
		Number o	[househol	ds ('000)			Propo	rtion of al	househol	ds (per cen	1)	
Yes No	9.4 137.6	18.4 114.1	1 9 .9 70 .0	26.8 32.5	5.3 15.2	79.7 369.3	6.4 93.6	13.9 86.1	22.1 77.9	45.2 54.8	25.8 74.2	17.8 82.2
TOTAL	146.9	132.5	89 .9	59.2	20.5	449.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes

Washing machines

It is estimated that 94.0 per cent of households had a washing machine. Of these, 88.1 per cent had automatic washing machines and 11.8 per cent had a twin tub or other type of washing machine.

For persons living alone 16.6 per cent did not have a washing machine and 4.4 per cent of lone parents living with a child or children did not have a washing machine. Overall, 6.0 per cent of households reported no washing machine.

TABLE 19. HOUSEHOLDS: TYPE OF WASHING MACHINE BY HOUSEHOLD TYPE NOVEMBER 1992

			Househo	ld type					Househo	old type		
Washing machine	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	Ail other house- holds	Total	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house-	Tota!
		Number o	f househol	ds ('000)			Propo	ortion of al	l househol	ds (per ce	nt)	
Automatic Twin tub & other No washing machine	90.8 11.2 2.1	150.9 11.4 * 0.8	58.1 16.5 14.9	27.6 5.7 1.5	44.9 5.2 7.4	372.2 50.0 26.8	87.2 10.7 2.0	92.5 7.0 * 0 .5	64.9 18.5 16.6	79.2 16.3 4.4	78.1 9.0 12.9	82.9 11.1 6.0
TOTAL	104.1	163.1	89.5	34.8	5 7.5	449.0	100.0	100.0	100.0	100.0	100.0	100.0

Automatic washing machines

Top loading machines constituted 91.5 per cent of automatic washing machines and front loading machines 8.6 per cent.

TABLE 20. HOUSEHOLDS: TYPE OF AUTOMATIC WASHING MACHINE BY HOUSEHOLD TYPE NOVEMBER 1992

			Househo	ld type					Househo	ld type		
Type of washing machine	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total
		۸	lumber of	household	s ('000)			Proportion	of house	holds (per	ceni)	
Top loading Front loading	82.0 8.8	140.8 10.1	53.2 4.9	25.4 2.2	39.1 5.9	340.4 31.9	90.3 9.7	93.3 6.7	91.6 8.4	92.0.0 8.0	87.1 13.1	91.5 8.6
TOTAL	90.8	150.9	58.1	27.6	44.9	372.2	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes.

Size of washing machine

For households with a combined income of \$40,000 or less, 49.8 per cent had a medium size washing machine; 29.2 per cent had a large machine and 20.6 per cent had a small machine.

For households with a combined income of over \$40,000, 50.6 per cent had a large machine; 41.4 per cent had a medium size machine and 7.5 per cent had a small machine.

Overall, 46.4 per cent of households reported having a medium size machine; 37.1 per cent reported having a large machine; 16.1 per cent said they had a small machine while 0.4 per cent were not aware of the size of their machine.

TABLE 21. HOUSEHOLDS: LOAD CAPACITY OF MAIN WASHING MACHINE BY TOTAL HOUSEHOLD INCOME NOVEMBER 1992

			Househ	old income					Househol	d income		
Load capacity of machine	\$20,000 or less	\$20,001 to \$40,000	\$40,001 to \$60,000	\$60,001 and over	Do not know	Total	\$20,000 or less	\$20,001 to \$40,000	\$40,001 to \$60,000	\$60,00! and over	Do nos know	Tota
			Number of	households	('000)			Proportio	n of house	holds (per a	ent)	
Small	33.7	19.8	7.7	3.2	3.7	68.1	25.4	15.7	9.0	5.5	19.4	16.1
Medium	68.1	60.7	36.7	23.0	7.4	195.8	51.2	48.2	42.7	39.4	38.7	46.4
Large	30.6	45.1	41.3	31.7	8.0	156.7	23.0	35.8	48.1	54.3	41.9	37.1
Do not know	**0.5	**0.3	••0.3	**0.6	**	1.6	**0.4	**0.2	**0.3	**1.0	**	0.4
TOTAL	132.9	125.9	85.9	58.4	19.1	422.3	100.0	100.0	100.0	100.0	100.0	100.0

Refrigerators

Refrigerators were in 99.8 per cent of households. Of these, 70.0 per cent reported having one refrigerator and 29.8 per cent two or more refrigerators. Of the households which reported having two or more refrigerators, 75.4 per cent were either married couples only or married couple with a child or children households. However, only 15.5 per cent of lone parents living with his/her child or children reported having two or more refrigerators compared over 37.5 per cent for married couples and married couples with a child or children.

TABLE 22. HOUSEHOLDS: NUMBER OF REFRIGERATORS IN HOUSEHOLD BY HOUSEHOLD TYPE NOVEMBER 1992

			Househo	ld type					Househo	id type		
Number of refrigerators in household	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total
		Numbe	r of house.	holds (*00	0)		Pr	aportian aj	fall house.	holds (per	cent)	
One Two Three or more None	64.3 35.8 3.7 **0.3	102.3 56.6 4.2 **	76.7 11.7 * 0.8 **0.3	29.1 4.9 **0.5 **0.3	42.1 14.6 * 0.8 **	314.5 123.7 10.0 * 0.8	61.8 34.4 3.5 **0.3	62.7 34.7 2.6	85.7 13.1 * 0.9 •*0.3	83.5 14.2 **1.5 **0.8	73.2 25.4 * 1.4 **	70.0 27.6 2.2 * 0.2
TOTAL	104.1	163.1	89.5	34.8	57.5	449.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes.

Size of refrigerator

It is estimated that 64.3 per cent of households had a two door refrigerator as their main refrigerator and 35.5 per cent had a one door refrigerator as their main refrigerator. Persons living alone were most likely to report having a single door refrigerator as their main refrigerator (43.7 per cent). Lone parents with a child or children were most likely to report having a two door refrigerator as their main refrigerator (69.9 per cent).

TABLE 23. HOUSEHOLDS: NUMBER OF DOORS ON MAIN REFRIGERATOR BY HOUSEHOLD TYPE NOVEMBER 1992

			Househo	ld type					Househo	id type		
Number of doors on main refrigerator (a)	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total
		Numbe	r of house	holds ('00	0)		Pr	oportion of	all house	holds (per	cent)	
One Two	34.0 69.8	52.4 110.7	39.2 50.1	10.2 24.3	23.6 33.9	159.3 288.9	32.6 67.1	32.1 67.9	43 .7 56 .0	29.4 69.9		35.5 64.3
TOTAL	103.8	163.1	89.2	34.5	57.5	448.2	99.7	100.0	99.7	99.2	100.0	99.8

See Explanatory Notes. (a) External doors only.

Microwave ovens

Microwave ovens were reported in 54.4 per cent of households with a combined income of \$20,000 or less and in 86.8 percent of households with a combined income of over \$60,000. Overall, 69.6 per cent of households reported having a microwave oven.

TABLE 24. HOUSEHOLDS: WHETHER HAS MICROWAVE OVEN BY TOTAL HOUSEHOLD INCOME NOVEMBER 1992

			Househol	d income					Househol	d income		
Whether has microwave oven	\$20,000 or less	\$20,001 to \$40,000	\$40,001 to \$60,000	\$60,001 and over	Do not know	Totai	\$20,000 or less	\$20,001 to \$40,000	\$40,001 to \$60,000	\$60,001 and over	Do not know	Total
		Numb	er of house	eholds (*000	2)		Pr	oportion o	f all house	holds (per	cent)	
Yes No	80.0 66.9	97.3 35.2	68.1 21.8	51.4 7.8	15.9 4.6	312.7 136.4	54.4 45.6	73.4 26.6	75.8 24.2	86.8 13.2	77.4 22.6	69.6 30.4
TOTAL	146.9	132.5	89.9	59.2	20.5	449.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes.

Water saving appliances

Dual flush toilets were in 35.8 per cent of dwellings and 21.2 per cent of dwellings had reduced flow shower heads. Households with neither of these accounted for 53.2 per cent of dwellings.

Of households classified as married couples living with their child or children, 44.0 per cent reported having dual flush toilets and 25.9 per cent reported having reduced flow shower heads. This type of household constituted 36.3 per cent of all households.

In comparison, 26.9 per cent of persons living alone had dual flush toilets and only 15.5 per cent had reduced flow shower heads. Persons living alone constituted 19.9 per cent of all households.

TABLE 25. HOUSEHOLDS: WATER SAVING APPLIANCES BY HOUSEHOLD TYPE NOVEMBER 1992

			Househo	id type					Househo	id type		
Water saving appliances	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with histher child- (ren)	All other house- holds	Total	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	_Total
		Numbe	r of house	holds ('00	0)		Pr	oportion of	f all house	holds (per	cent)	
Dual flush toilets Reduced flow shower	35.1	71.8	24.1	10.5	18.9	160.5	33.8	44.0	26.9	30.3	32.9	35.8
heads	22.8	42.2	13.9	6.6	9.9	95.4	21.9	25.9	15.5	19.0	17.2	21.2
Neither of the above	54.2	73.3	56 .9	20.7	33.6	238.7	52.1	45.0	63.5	59.6	58.4	53.2
TOTAL	104.1	163.1	89.5	34.8	57.5	449.0	100.0	100.0	100.0	100.0	100.0	100 .0

Recycling

Throughout the Perth Statistical Division, the survey estimated that 289,000 households (64.4 per cent) recycled paper/newspapers 283,000 households (63.0 per cent) recycled glass and bottles; 236,500 households (52.7 per cent) recycled old clothing and rags and 171,700 households (38.2 per cent) recycled vegetable/garden waste. Some households participated in recycling all items.

Married couples living with their child or children had comparatively high recycling rates: 68.0 per cent recycled glass, bottles, papers/newspapers; 64.8 per cent recycled old clothing/rags and 58.1 per cent recycled cans/aluminium.

Persons living alone had lower recycling rates: 56.1 per cent of these households recycled paper/newspapers; 50.7 per cent recycled glass and bottles; 35.9 per cent recycled old clothing/rags and 30.0 per cent recycled cans/aluminium

TABLE 26. HOUSEHOLDS: ITEMS RECYCLED(a) BY HOUSEHOLD TYPE NOVEMBER 1992

			Househo	ld type					Howeho	ld type		
liems recycled	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total
		· · · · · · · · · · · · · · · · · · ·	r of housel))			portion of				
Glass and bottles Paper/newspapers Cans/aluminium Plastic Old clothing/rags Vegetable/garden waste Other	68.3 72.0 54.2 37.3 56.3 47.2	114.1 112.2 94.7 72.3 105.8 69.0 2.4	45.4 50.2 26.9 21.1 32.2 23.1 **0.5	19.5 20.1 14.1 10.8 14.6 12.7 * 0.8	35.7 34.5 27.9 18.4 27.7 19.7 **0.5	283.0 289.0 217.8 159.9 236.5 171.7 5.1	65.6 69.2 52.1 35.8 54.1 45.3 • 0.8	70.0 68.8 58.1 44.3 64.8 42.3	50.7 56.1 30.0 23.6 35.9 25.8 **0.6	56.1 57.8 40.4 31.0 42.1 36.6 * 2.3	62.0 60.0 48.6 32.0 48.1 34.3 **0.9	63.0 64.4 48.5 35.6 52.7 38.2 1.1
TOTAL	104.1	163.1	89.5	34.8	57.5	449.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes (a) Because an individual household could report more than one item, figures given for individual items may not add to the total.

-Recycling by dwelling type

Separate houses constituted 80.9 per cent of all dwellings in the Perth Statistical Division. They recycled a higher proportion of all items than other dwelling types. Paper/newspapers were recycled by 65.7 per cent of separate houses; 65.6 per cent recycled glass and bottles and 55.4 per cent recycled old clothing/rags.

Semi-detached, row or terrace houses, townhouses etc constituted 12.9 per cent of all dwellings. Paper/newspapers were recycled by 63.1 per cent of these households; 52.5 per cent recycled glass and bottles, and 42.8 per cent recycled old clothing/rags

TABLE 27. HOUSEHOLDS: ITEMS RECYCLED(2) BY DWELLING TYPE NOVEMBER 1992

_	<u> </u>	Dwelling	type			Dwelling	type	
		Semi-				Semi-		
	4	letached, row			4	detached, row		
		or terrace				or terrace		
		house,				house,		
	Separate	townhouse			Separate	townhouse		
Items recycled	house	eic.	Other(a)	Total	house	eic.	Other(a)	Total
	Nı	umber of househo	olds ('000)		Proporti	on of all househo	lds (per cent)	
Glass and bottles	238.3	30.5	14.2	283.0	65.6	52.5	51.5	63.0
Paper/newspapers	238.8	36.7	13.5	289.0	65.7	63.1	49.1	64.4
Cans/aluminium	189.2	20.3	8.2	217.8	52.1	35.0	30.0	48.5
Plastic	138.8	14.5	6.6	159.9	38.2	25.0	24.0	35.6
Old clothing/rags	201.0	24.9	10.6	236.5	55.3	42.8	38.5	52.7
Vegetable/garden waste	15 1 .7	16.0	4.1	171.7	41.7	27.5	14.8	38.2
Other	4.8	**0.3	**	5.1	1.3	**0.5	**	1.1
TOTAL	363.4	58.2	27.5	449.0	100.0	100.0	100.0	100.0

See Explanatory Notes. (a) Because an individual household could report more than one item, figures given for individual items will not add to the total. (b) Other includer that or apartment in 1 to 4 storey block and other.

Recycling facilities

Recyclable waste collection from dwellings was used by 52.5 per cent of households. Taking waste to central collection points was used by 50.1 per cent and composting and/or mulching was used by 34.5 per cent.

A higher proportion of households classified as married couple living with their child or children used recycling facilities, such as central collection points (59.1 per cent) and collection from their dwelling (57.1 per cent), than did other types of households.

Almost 42.0 per cent of households classified as married couple only used the compost mulch facility, while 38.3 per cent of households classed as married couple living with their child or children and 33.0 per cent of households classified as lone parent living with his/her child or children used such a facility.

TABLE 28. HOUSEHOLDS: RECYCLING FACILITIES(a) USED BY HOUSEHOLD TYPE NOVEMBER 1992

			Househo	ld type					Househo	old type		
Recycling facilities used	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total	Married couple only	Married couple living with their child- (ren)	Person living alone	Lone parent living with his/her child- (ren)	All other house- holds	Total
		Numbe	r of house	holds ('00	0)		Pr	oportion o	fall house	holds (per	cent)	
Collection from your house	56.2	93.1	40.6	17.1	28.9	236.0	54.0	5 7.1	45.4	49.2	50.2	52.5
Special areas at the dump	6.3	14.8	3.3	* 0.8	3 .0	28.3	6.1	9.1	3.7	* 2.2	5.2	6.3
Central collection points Compost/mulch	53.6 43.4	96.3 62.5	32.1 20.2	15.9 11.5	27.2 17.3	225.1 154.9	51.5 41.7 3.7	59.1 38.3 3.2	35.9 22.5 5.8	45.8 33.0 * 2.4	47.2 30.1 2.8	50.1 34.5 3.7
Other	3.8 104.1	5.2 163.1	5.2 89.5	* 0.8	1.6 57.5	16.6 449.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes. (a) Because an individual household could report more than one item, figures given for individual items may not add to the total.

Recycling by Statistical Subdivision

Throughout the Perth Statistical Division it was estimated in November 1992 that 348,100 households, (77.5 percent) participated in some form of recycling of domestic waste.

The 84.5 per cent participation rate for Central Metropolitan and East Metropolitan Statistical subdivisions (SSD) was the highest in the Perth Statistical Division. (Refer to attached map for outline of Statistical subdivisions).

TABLE 29. HOUSEHOLDS: WHETHER OR NOT RECYCLES WASTE BY STATISTICAL SUBDIVISION NOVEMBER 1992

		S	tatistical su	ıbdivision				Si	atistical si	ibdivision		
Whether or not recycles waste	Central Metropo- litan	East Metropo litan	North Metropo- N litan	South West Ietropo- M litan	South East Metropo- litan	i Total	Central Metropo- M litan	East letropo- M litan	North Letropo- N litan	South West Metropo- M litan	South East Aetropo- litan	Total
			er of housel		1)		Pro	portion of	all house	holds (per c	cent)	
Yes No	45.5 8.3	56.6 10.4	100.5 29.8	74.4 17.6	71.0 34.8	348.1 101.0	84.5 15.5	84.5 15.5	77.1 22.9	80.9 19.1	67.1 32.9	77.5 22.5
TOTAL	53.9	67.0	130.4	92.0	105.8	449.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes. Refer to map.

Non recyclers

Overall, there were 101,000 households (22.5 per cent) which did not recycle waste. Of these, 31.8 per cent said they did not recycle because there was no collection service; 30.6 per cent said it took too long or required too much effort and 16.3 per cent said they had not got around to it.

South East Metropolitan Statistical Subdivision (SSD) had the highest proportion of households which did not recycle (34.8 per cent). Of these, 38.2 per cent said they did not recycle because it took too long/too much effort; 23.3 per cent said it was because there was no collection service and 19.0 per cent said they had not got around to it.

TABLE 30. HOUSEHOLDS: REASON FOR NOT RECYCLING BY STATISTICAL SUBDIVISION NOVEMBER 1992

			Statistical	subdivisio	1				Statistical	subdivisio	1	
	Central Metrop- olitan	East Metrop- olitan	North Metrop- olitan	South West Metrop- olitan	South East Metrop- olitan	Total	Central Metrop- olitan	East Metrop- olitan	North Metrop- olitan	South West Metrop- olitan	South East Metrop- olitan	Total
		Nı	umber of h	ouseholds ('000)			Proportio	on of all ho	useholds (p	er cent)	
No collection service	3.2	6.0	11.8	3.0	8.1	32.1	38.6	57.7	39.6	17.0	23.3	31.8
Takes too long/too												
much effort	1.6	*1.4	8.3	6.4	13.3	30.9	19.3	*13.5	27.9	36.4	38.2	30.6
Have not got around												
to it	1.7	*0.8	4.8	2.7	6 .6	16.5	20.5	*7,7	16.1	15.3	19.0	16.3
Other	*1.3	1.6	4.2	3.2	5.5	15.8	*15.7	15.4	14.1	18.2	15.8	15.6
Do not know	**0.5	**0.6	*0.8	2.4	*1.3	5.6	**6.0	**5.8	*2.7	13.6	*3.7	5.5
TOTAL	8.3	10.4	29.8	17.6	34.8	101.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes.

Main source of garden water

Mains water was used by 71.2 per cent of households as their main source of garden of water, ranging from 65.1 per cent of households in East Metropolitan SSD to 77.8 per cent of households in North Metropolitan SSD.

Bore or well water was used by 22.2 per cent of households, ranging from 13.6 per cent of households in North Metropolitan SSD to 32.1 per cent in East Metropolitan SSD.

Over 6.2 per cent of households reported no garden/do not water, ranging from around 1.6 per cent in East Metropolitan SSD to 16.6 per cent in Central Metropolitan SSD.

TABLE 31. HOUSEHOLDS: MAIN SOURCE OF GARDEN WATER SUPPLY IN SUMMER BY STATISTICAL SUBDIVISION NOVEMBER 1992

			Statistical	subdivision				S	tatistical si	ubdivision		
Main source of garden	•	Metropo-	Metropo-	Metropo- M			Central Metropo- N			•		T-4-1
water supply in summer	litan	litan	litan	litan	litan	Total	litan	litan	litan	litan	litan	Total
-		Numi	er of hous	eholds ('000	J		Pro	portion of	all housel	iolds (per	cent)	
Mains	35.4	43.6	101.4	66.1	73.4	319.9	65.7	65.1	77.8	71.8	69.4	71.2
Bore or well	9.5	21.5	17.8	23.2	27.6	99.6	17.6	32.1	13.7	25.2	26.0	22.2
Other	**	* 0.8	**0.5	**0.3	**	1.6	**	* 1.2	**0.4	**0.3	**	0.4
No garden/do not water	9.0	* 1.1	10.6	2.4	4.9	28.0	16.6	* 1.6	8.2	2.6	4.6	6.2
TOTAL	53.9	67.0	130.4	92.0	105.8	449.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes. Refer to map

Spas

There were 13,900 (3.1 per cent) households which had separate spa baths. Of these 4,400 or 31.6 per cent were in households with a combined income of over \$60,000.

TABLE 32 HOUSEHOLDS: WHETHER DWELLING HAS A SEPARATE SPA BATH BY TOTAL HOUSEHOLD INCOME NOVEMBER 1992

			Househol	d income					Househol	d income		
Whether dwelling has a separate spa bath	\$20,000 or less	\$20,001 to \$40,000	10	\$60,001 and over	Do not know	Total	\$20,000 or less	\$20,001 to \$40,000	\$40,001 to \$60,000	\$60,001 and over	Do not know	Total
	-	Numb	er of hous	eholds ('000	9)		P	oportion o	f all house	eholds (per	cent)	
Yes No	* 1.4 145.5	3.6 128.9	3.8 86.1	4.4 54.8	* 0.8 19.7	13.9 435.1	• 0.9 99.1	2.7 97.3	4.2 95.8	7.4 92.6	* 3.9 96.1	3.1 96.9
TOTAL	146.9	132.5	89.9	59.2	20.5	449.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes.

Swimming pools

In the Perth Statistical Division, 67,100 dwellings or 14.9 per cent of households reported having a swimming pool. Only 6.1 per cent of households with a combined income of \$20,000 or less reported having a swimming pool. For households with a combined income of over \$60,000, the rate was 33.4 per cent.

TABLE 33. HOUSEHOLDS: WHETHER DWELLING HAS A SWIMMING POOL BY TOTAL HOUSEHOLD INCOME NOVEMBER 1992

			Househoi	d income					Househol	d income		
Whether dwelling has a swimming pool	\$20,000 or less	\$20,001 to \$40.000	\$40,001 to \$60,000	\$60,001 and over	Do not know	Total	\$20,000 or less	\$20,001 to \$40,000	\$40,001 to \$60,000	\$60,001 and over	Do not know	Total
The state of the s				eholds ('000	7)		Pr	oportion o	f all house	holds (per	cent)	
Yes No	8.9 138.1	13.6 118.9	19.7 70.2	19.8 39.5	5.1 15.4	67.1 382.0	6.0 94.0	10.3 89.7	21.9 78.1	33.4 66.6	24.8 75.2	14.9 85.1
TOTAL	146.9	132.5	89.9	59.2	20.5	449.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes.

The Statistical Subdivision (SSD) with the largest number of swimming pools was North Metropolitan SSD, where 21,800 households had pools, followed by East Metropolitan SSD, where 13,600 households had pools. East Metropolitan SSD was the highest proportion of households with swimming pools at 20.3 per cent. In North Metropolitan SSD, the proportion was 16.7 per cent. Central Metropolitan SSD had the lowest proportion of households with swimming pools (10.7 per cent).

TABLE 34. HOUSEHOLDS: WHETHER DWELLING HAS A SWIMMING POOL BY STATISTICAL SUBDIVISION NOVEMBER 1992

		S	tatistical su	ıbdivis <u>ion</u>				St	at <u>istical su</u>	ıbdivision		
Whether dwelling has a			North Metropo- h litan	South West 1etropo- M litan	South East Aetropo- litan	M Total	Central Metropo- M litan	East etropo- M litan	North (etropo- h litan	South West 1etropo- M litan	South East Ietropo- litan	Total
swimming pool	litan	litan				2 0/124				rolds (per		
		Numbe	er of housel	holds (1000	")		110	pornon oj	un nonce.	1p	1	
	5.8	13.6	21.8	12.5	13.4	67.1	10.7	20.3	16.7	13.5	12.7	14.9
Yes						382.0	89.3	79.7	83.3	86.5	87.3	85.1
No	48.1	53.4	108.6	79.5	92.4	362.0	69.3	13.1	63.3	60.5	07.5	
TOTAL	53.9	67.0	130.4	92.0	105.8	449.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes. Refer to map.

Motor vehicles

Care should be taken in interpreting data in the following three motor vehicle tables. The figures in each table are the number of households, not the number of vehicles or drivers. Where a household reported having more than one motor vehicle usually garaged or parked at the dwelling and all the vehicles are in the same classification, the household was counted once. Where a household had several vehicles which are in different classifications, usually garaged or parked at the dwelling that household could be counted several times.

Over 38.0 per cent of households reported having a medium size vehicle; 31.5 per cent had a small vehicle, 28.7 per cent had a large vehicle and 16.9 per cent reported having a vehicle which is classified as 'Other'.

Motor vehicles manufactured in the period 1981 to 1985 were reported by 39.0 per cent of households; 28.8 per cent reported having vehicles made in the period 1976 to 1980 and 26.6 per cent had vehicles made from 1986 to 1989.

TABLE 35. HOUSEHOLDS: MOTOR VEHICLE BY SIZE(a) BY YEAR OF MANUFACTURE NOVEMBER 1992

	Year of manufacture						Year of manufacture							
	Pre 1970 to 1976 to 1981 to 1986 to 1990 to				1990 to		Pre 1970 to 1976 to 1981 to 1986 to 1990						0	
Vehicle size	1970	1975	1980	1985	1989	1992	Total	1970	1975	1980	1985	1989	1992	Total
	Number of households ('000)						Proportion of all households (per cent)							
Very small	**	**	**0.3	8.8	7.1	5.7	21.8	++	**	**0.2	5.0	5.9	6.6	4.8
Small	4.5	23.4	35.8	42.6	26.1	22.5	141.5	16.9	30.3	27.7	24.3	21.9	26.4	31.5
Medium	4.4	15.6	42.5	68.4	37.0	24.7	172.4	16.7	20.2	32.9	39.1	30.9	28.9	38.4
Large	4,3	17.2	33.7	35.0	30.5	20.8	128.7	16.3	22.3	26.1	20.0	25.5	24.4	28.7
Very large	1.7	3.9	4.2	3.5	3.1	* 0.9	16.4	6.4	5.1	3.3	2.0	2.6	* 1.0	3.6
Panel van	**	* 1.1	1.9	10.4	5.5	4.4	22,7	**	* 1.5	1.4	5.9	4.6	5.2	5.1
Utility	**0.6	3.3	6.1	10.7	6.7	3.5	29.9	**2.2	4.3	4.7	6.1	5.6	4.1	6.7
Other	12.4	16.0	18.7	14.1	12.4	8.4	76.0	46.7	20.7	14.5	8.1	10.4	9.8	16.9
Unknown	**0.5	2.0	* 0.9	**0.5	* 1.1	**0.3	5.0	**2.1	2.5	* 0.7	**0.3	* 0.9	**0.3	1.1
Motor cycle	* 0.8	1.7	3.3	6.9	2.7	1.6	16.5	* 3.2	2.2	2.6	3.9	2.3	1.9	3.7
TOTAL	26.4	77.2	129.4	175.1	119.5	85.2	449.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

See Explanatory Notes. (a) Recause an individual household could report more than one item, figures given for individual items may not add to the total.

TABLE 36. HOUSEHOLDS: MOTOR VEHICLE YEAR OF MANUFACTURE(a) BY STATISTICAL SUBDIVISION NOVEMBER 1992

		Statistical subdivision							Statistical subdivision				
Vehicle year of	Central Metropo-	East Metropo-	Метгоро-	Metropo- M	•		Central Metropo- M	•	•				
manufacture	litan	litan	litan	litan	litan	Total	litan	litan	litan	litan	litan	Total	
		Number	of househo	olds ('000)			Propor	tion of all	household	ls (per cen	t)		
Pre 1970	3.6	4.5	7.0	4.2	7.2	26.4	6.7	6.7	5.4	4.6	6.8	5.9	
1970 to 1975	7.6	11.3	20.5	17.9	19.8	77.2	14.1	16.9	15.7	19.5	18.7	17.2	
1976 to 1980	12.0	20.9	37.3	28.0	31.1	129.4	22.3	31.2	28.6	30.4	29.4	28.8	
1981 to 1985	16.7	30.6	55.9	32.4	39.4	175.1	31.0	45.8	42.9	35.2	37.3	39.0	
1986 to 1989	11.7	22.2	35.3	23.7	. 26.6	119.5	21.7	33.1	27.1	25.8	25.1	26.6	
1990 to 1992	12.0			20.7	18.1	85.2	22.3	18.4	16.9	22.5	17.1	19.0	
TOTAL	53.9	67.0	130.4	92.0	105.8	449.0	100.0	100.0	100.0	100.0	100.0	100.0	

See Explanatory Notes. Refer to map. (a) Because an individual household could report more than one item, figures given for individual items may not add to the total.

In North Metropolitan Statistical subdivision 130,400 households (42.9 per cent) reported having a vehicle made in the period 1981 to 1985; 28.6 per cent had vehicles from the period 1976 to 1980 and 27.1 per cent had vehicles made from 1986 to 1989.

It is estimated there were 49,500 households with a vehicle made in the period 1981 to 1985 which was driven by a person in the age group 25 to 34. Similarly there were 43,000 households with vehicles made in the same period and with drivers in the age group 35 to 44.

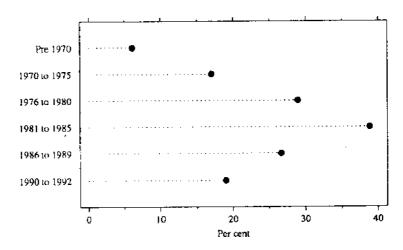
TABLE 37, HOUSEHOLDS: MOTOR VEHICLE YEAR OF MANUFACTURE(a) BY AGE OF DRIVER NOVEMBER 1992

		Age of driver						Age of driver						
Vehicle year of manufacture	24 or less	25 to 34	35 to 44	45 to 54	55 to 64	65 and over	Total	24 or less	25 to 34	35 to 44	45 to 54	55 to 64	65 and over	Total
	Number of households ('000)					Proportion of all households (per cent)					ent)			
Pre 1970	6.9	7.5	4.5	3.5	2.8	3.1 7.7	26.4 77.2	8.6 21.9	6.0 17.3	3.6 14.6	4.0 11.9	5.2 8.9	5.8 14.4	5.9 17.2
1970 to 1975 1976 to 1980	17.5 29.5	21.8 33.2	18.4 35.2	10.4 18.4	4.8 11.2	12.1	129.4	37.0	26.4	28.0	21.1	20.8	22.8	28.8
1981 to 1985 1986 to 1989	26.7 13.3	49.5 31.3	43.0 34.5	32.1 22.9	23.6 14.5	17.7 11.6	175.1 119.5	33.4 16.6	39.4 24.9	34.1 27.4	36.8 26.3	43.7 26.8	33.2 21.8	39.0 26.6
1990 to 1992	6.8	19.8	25.4	22.2	8.2	6.6	85.2	8.5	15.7	20.2	25.4	15.1	12.4	19.0
TOTAL	79.8	125.7	125.9	87.2	54.0	53.2	449.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

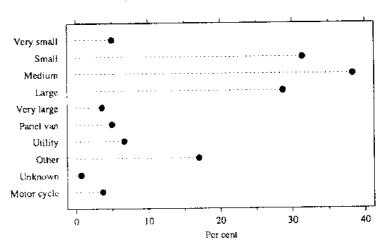
See Explanatory Notes. (a) Because an individual household could report more than one item, figures given for individual items may not add to the total.

There were 35,200 households with a driver in the age group 35 to 44 who drove a vehicle made in the period 1976 to 1980.

PROPORTION OF ALL HOUSEHOLDS BY MOTOR VEHICLE YEAR OF MANUFACTURE, NOVEMBER 1992



PROPORTION OF ALL HOUSEHOLDS BY MOTOR VEHICLE SIZE NOVEMBER 1992



EXPLANATORY NOTES

Supplementary Survey of Conservation of Energy, Water and the Environment

This publication contains results from a survey to ascertain the use of energy, water usage, recycling items and the usage of certain electrical goods in the community. The survey was run in association with the November Monthly Population Survey (MPS).

2. Information was collected from households about their usage of water, methods of watering and sources of water supply, types of air conditioning, heating, washing machines and other electrical goods, whether the property had a swimming pool or spa, types of dwellings, structure material and whether insulation was used and the usage of motor vehicles.

Survey Methodology

3. The survey was conducted during the two weeks beginning 9 November 1992 using the Metropolitan Perth component of the Western Australian Monthly Population Survey (MPS).

The Monthly Population Survey

- 4. The MPS is based on a multi-stage area sample of private dwellings (houses, flats, etc) and special dwellings (hotels, motels, caravan parks, holiday camps, prisons, hospitals, boarding schools, etc).
- 5. The sample covered approximately 1 household in every 270 households in the Perth Statistical Division.
- 6. The MPS consists of the Labour Survey (LFS) and, for most months of the year, a supplementary survey. The main emphasis of the MPS is on the regular collection of specific data on the demographic and labour force characteristics of the population. For this reason this component is usually referred to as the Labour Force Survey. Supplementary surveys are conducted on a variety of topics such as the Conservation of Energy, Water and the Environment Survey.

Scope

- 7. The LFS includes all persons aged 15 years and over except:
- (a) members of the Australian permanent defence forces;
- (b) certain diplomatic personnel of foreign governments customarily excluded from the census and estimated population;
- (c) overseas residents holidaying in Australia;
- (d) members of non-Australian defence forces (and their dependants) stationed in Australia.

Coverage

- 8. In the survey, coverage rules were applied which aim to ensure that each person is associated with only one dwelling and hence has only one chance of selection in the survey.
- 9. The supplementary survey was conducted using a sub-set of the same sample of dwellings included in the MPS for Western Australia contained within the Perth Statistical Division. This provided a sample of 1,657 where a full response was obtained.

Information relating to each household was obtained by personally interviewing any responsible adult, i.e., any available adult household member who was able to answer these questions on behalf of all household members.

Comparability with data from other sources

10. Differences between estimates in this publication and in other publications that include Perth Statistical Division population estimates are due to differences in scope and response rates as mentioned above.

Definitions

11. Appendix A provides survey details on questions asked. These should be read in conjunction with the following terms

Household: A group of one or more persons in a private dwelling who consider themselves to be separate from other persons (if any) in the dwelling, and who make regular provision to take

meals separately from other persons, i.e. at different times or in different rooms. Lodgers who receive accommodation but not meals are treated as separate households. Boarders who receive both accommodation and meals are not treated as separate households. A household may consist of any number of families and non-family members.

Related publications

The ABS produces a wide range of publications of social and demographic statistics. Other ABS publications which relate to this topic:

Catalogue No.

Social Indicators, Australia 1992	4101.0
Australia's Environment, Issues and Facts 1992	4140.0
Attitudes to Environmental Issues, Australia 1992	4602.0
Cost of Environment Protection, Australia, 1990-91	4603.0

TECHNICAL NOTES

The figures contained in this publication are estimates based on a sample of 1,657 households in Perth Statistical Division in November 1992.

Estimation procedure

Estimates derived from the survey were obtained by using a complex ratio estimation procedure which ensures that the survey estimates conform to an independently estimated distribution of the population by age and sex rather than to the age and sex distribution within the sample itself.

Reliability of estimates

The estimates provided in this publication may be subject to two types of error:

Non-sampling error

Inaccuracies may occur because of imperfections in reporting by respondents and errors made in coding and processing the data. These errors can occur whether the estimates are derived from a sample or a complete enumeration. Every effort is made to reduce non-sampling error to a minimum.

These reporting errors and inconsistencies may include, for example:

- (a) recall errors for questions relating to make and year of vehicles
- (b) misreporting when one household member answers on behalf of another house hold member
- (c) different interpretations of various terms used in the questions.

Sampling error

Since the estimates in this publication are based on information obtained from occupants from a sample they are subject to sampling variability; that is, they may differ from figures that would have been produced if all dwellings and persons 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 the 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.

A standard error expressed as a percentage of the estimate is known as the *relative standard error*. For example, if an estimate of 4,000 households has a standard error of 1200, then the relative standard error of $1200/4,000 \times 100 = 29.8$ per cent. The relative standard error is useful measure in that it provides an immediate indication of the percentage of errors likely to have occurred due to sampling.

Standard error of population estimates

Table 38 on the following page, gives standard errors for general application to estimates of number of households. 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.

As can be seen from the standard errors table, the size of the standard error increases with the size of the estimate. However, the smaller the estimates the higher the relative standard error. Thus, large estimates will be relatively more reliable than small estimates. Very small estimates are subject to such high standard errors (relative to the size of the estimate) as to detract seriously from their value for most reasonable uses. Only estimates with relative standard errors of 50 per cent or less are considered sufficiently reliable for most purposes. Estimates with relative standard errors greater than 50 percent are included but are indicated with the symbol **. Estimates with relative standard errors between 25 and 50 per cent are indicated with *.

An example of the calculation and of standard errors is as follows:

From Table 2 an estimate of 387.9 thousand households indicated that the dwelling material of the outer wall of their dwelling was "Double brick". Referring to table 38, an estimate of

387,900 has a standard error of between 13,900 and 16,300 households. In this case the conservative choice would be 16,300 households.

There are therefore two chances in three (66.6%) that the number that would have been produced if all dwellings had been included in the survey lies between 371,600 and 404,200 [i.e., $387,900 + 1 (1 \times 16,300)$].

There are about 19 chances in 20 (95%) that the number lies between 355,300 and 420,500 [i.e., $387,900 + (2 \times 16,300)$].

TABLE 38. STANDARD ERROR OF ESTIMATES CONSERVATION OF ENERGY, WATER AND THE ENVIRONMENT PERTH STATISTICAL DIVISION, NOVEMBER 1992

Size estimate	Standard error of estimate	Relative standard error (%)	There are 2 chances that the a population will fall	in 3 actual	There are about 19 chances in 20 that the actual population figurwill fall in thi	
300 400 500 600 700 800 900 1200 1200 1300 1400 1500 1600 1700 2000 2100 2200 2300 2400 2500 3000 4500 6000 6000 10000 20000 30000 4000 4000 4000 4000 400	270 320 370 410 440 480 510 570 600 630 730 760 730 780 83C 87G 890 910 1100 1200 1300 1500 1750 2000 3750 2000 3750 400 7400 11000 1	91.3 803.2 67.7 63.3 59.8 564.3 50.2 48.5 46.6 44.3 43.2 44.1 40.2 42.1 40.2 39.4 637.2 38.6 9.3 37.2 28.3 27.0 20.1 11.0 7.4 5.6 4.1	30 - 130 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 180 - 1	570 720 870 1010 1140 1280 1410 1540 1670 1800 1930 2060 2180 2310 2430 2560 2800 2930 3170 3290 3410 4000 4600 5800 6350 7500 9750 12000 23000 33750 44400 55000 107400 211000 211900 211900 211900 211900 211900 211900 211900 211900 211900 211900 211900 211900		840 10440 1240 1580 1760 1920 22400 2560 2760 2760 2760 2760 33460 2760 3760 40180 3760 40180 40
500000 1000000	18500 27500	3.7 2.7	481500 - 972500 -	51 8500 1027500		37000 355000

APPENDIX A.

The following is an abridged version of the questionnaire for the State Supplementary Survey, Western Australia, November 1992.

DWELLING

Are the external walls of this dwelling double brick, brick veneer or timber (fibro) veneer?

Are the walls between the rooms of this dwelling brick or plasterboard/gyprock?

Is the floor of this dwelling a concrete slab or timber?

Is the roof of this dwelling tile, metal or fibro?

What is the age of this dwelling?

Less than 5 years

5 years to less than 10 years

10 years to less than 15 years

15 years to less than 20 years

20 years to less than 40 years

40 years or more

Don't know

Is this dwelling owned, being purchased, or rented by any member of this household?

ROOF INSULATION

Does this dwelling have insulation in the roof or ceiling?

What type of insulation is there in the roof or ceiling?

Batts or blow-in

Sisalation

Reflective foil

Other (Specify)

Don't know

What is the main reason insulation is not installed in the roof or ceiling of this dwelling?

Cost

Not owner/not responsible

Doesn't make much difference

Other (Specify)

Don't know

ROOM HEATING

What is the energy source of main room heating used in this dwelling?

Electrical

Natural gan (mains)

Firewood

Other (Specify)

None

Is this heating provided by a reverse cycle air conditioner or some other type of electrical heater?

AIR CONDITIONING

How many air conditioners are there in this dwelling?

Is the (main) air conditioner refrigerated, reverse evele or evaporative?

Is the (main) air conditioner ducted, in the wall or portable?

CLOTHES DRYER

Is there a clothes drying machine in this dwelling?

DISHWASHER

Is there a dishwashing machine in this dwelling?

WASHING MACHINE

Is there a washing machine in this dwelling?

Is the (main) washing machine automatic?

Is the washing machine front or top loading?

What type of washing machine do you have?

Is the load capacity small, medium or large?

HOT WATER SYSTEM

Is this households hot water system a storage or instantaneous model?

What is the main energy source for the hot water system during the summer?

Electricity

Natural gas (mains)

Solar

Other (Specify)

Is the solar hot water system boosted by electricity or natural gas?

REFRIGERATOR

How many refrigerators are there in this dwelling?

One

Two

Three or more

None

How many doors are there on the main refrigerator?

OVEN HOTPLATES

Do you have a microwave oven in this dwelling?

What (other) cooking facilities do you have?

Electric oven

Naturai gas oven

Other oven (Specify)

Electric hotplates

Natural gas hotplates

Other hotplates (Specify)

FREEZER

How many free standing freezers are there in this dwelling?

POOL SPA BATH

Is there a swimming pool on this property?

Is there a separate spa bath in this dwelling?

WATER CONSERVATION

When watering the garden during the summer what is the main source of water?

Mains

Bore or well

Other (Specify)

No garden/do not water

Which of the following does this household use when water the garden during the summer?

Reticulation

Operated by a time clock

Manually operated

Drip watering system

Hose with sprinkler

With timer attached

Without timer

Hand held hose

Other (Specify)

Does this household have either of the following installed?

Duel flush toilets

Reduced flow shower heads

Neither of the above

RECYCLING

Do you sort any of your household waste for recycling?

What is the main reason you don't sort any of your household waste for recycling?

Haven't got around to it

Takes too long/too much effort

No collection services

Other (Specify)

Don't know

What items do you recycle?

Glass and bottles

Paper/newspapers

Cans/aluminium

Plastic

Old clothing/rags

Vegetable/garden waste

Other (Specify)

What type of recycling facilities does this household use?

Collection from your house

Special areas at the dump

Central collection points

Compost/mulch

Other (Specify)

INCOME

Gross household income?

Income \$20,000 or less

\$20,001 to \$40,000

\$40,001 to \$60,000

\$60,001 to \$80,000

\$80,001 to \$100,000 More than \$100,000

Don't know

TRANSPORT

How many motor cycles or motor vehicles are usually garaged or parked at this dwelling?

One to five

Six to ten

More than ten

None

Is this vehicle a:

Motor cycle

Car (Sedan/wagon)

Light commercial (Van/utility)

Heavy commercial (Over 2 tonnes)

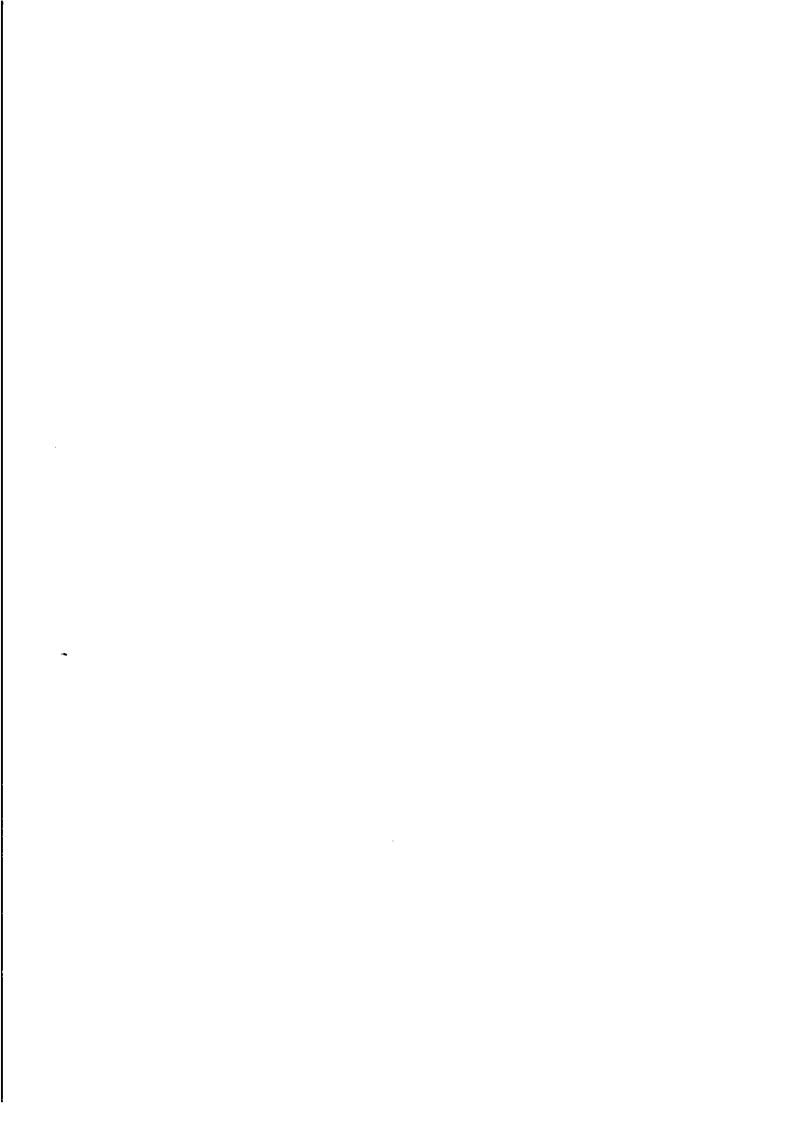
Who is the usual driver of the vehicle?

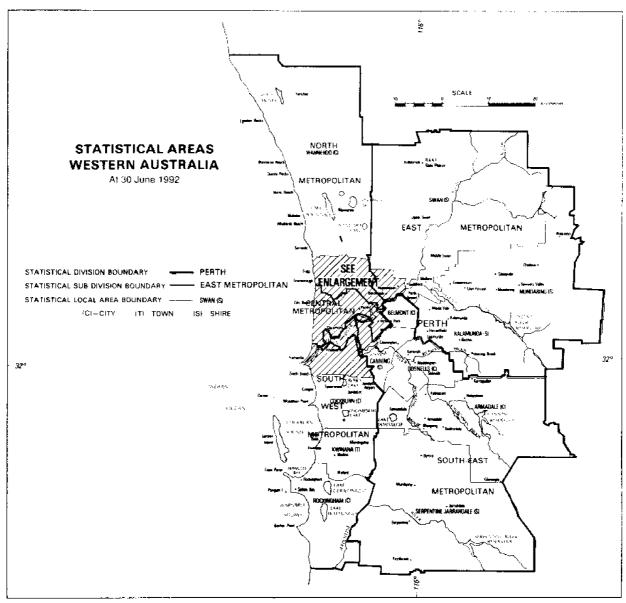
Who owns the vehicle?

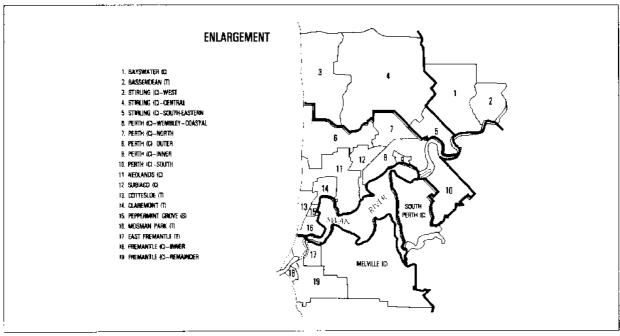
What is the make and model of this vehicle?

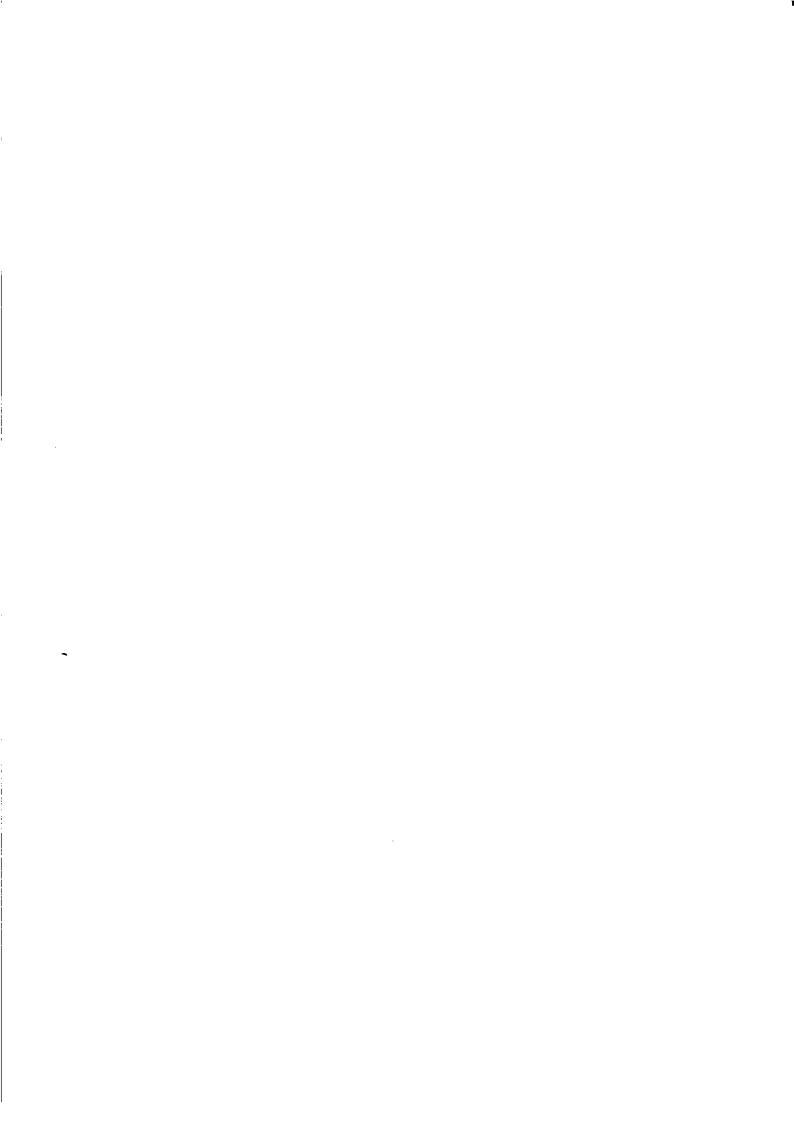
What is the year of manufacture of this vehicle?

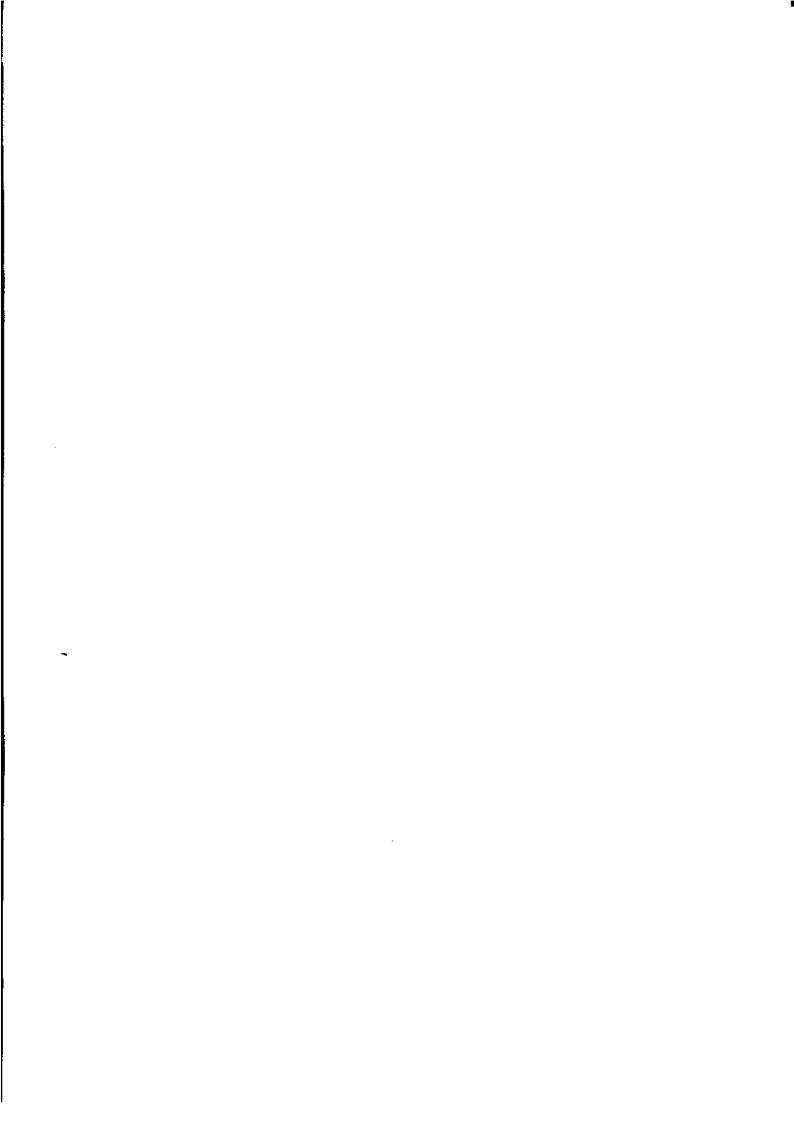
Is the vehicle air-conditioned?













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