

# **Energy Use in Homes**

**A series of reports on domestic energy use in  
England**

## **Space and Water Heating**



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### Space and Water Heating

**This is one of a series of five reports on the energy characteristics of the stock as observed by the 2001 English House Condition Survey.**

**The reports in this series are:**

- 1. Energy Summary Report**
- 2. Space and Water Heating**
- 3. Thermal Insulation**
- 4. Fuel Consumption**
- 5. Energy Efficiency**

*The English House Condition Survey is funded and provided courtesy of the Office of the Deputy Prime Minister. More information about this survey can be found at [www.odpm.gov.uk/ehcs](http://www.odpm.gov.uk/ehcs)*

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# **Space & Water Heating**

## *Executive Summary*

The period 1996-2001 shows increasing levels of central heating throughout the English housing stock. 86% of dwellings in 2001 have central heating as their primary heating provision (up from 80% in 1996), 8% have programmable heating (approximately the same level as in 1996), while only 6% have fixed heating (down from 12% in 1996). All tenures show increased levels of central heating, although they continue to show considerable differences in its overall incidence – the lowest levels of central heating are seen in the private rented sector (70%), and the highest in the owner occupied sector (89%). Houses, and in particular detached houses, are more likely to have central heating systems than flats.

Households with older HRP's are less likely to have central heating. In addition, there is a strong correlation between the combined income of the HRP and their partner and the presence of central heating - households with a higher income are more likely to have central heating installed.

Over 90% of central heating systems are gas-fired, approximately the same proportion as in 1996. However, since 1996 there has been a shift within these systems from ducted air and back-boiler appliances to those using a single purpose boiler. Gas fired combination boilers are found in around a quarter of dwellings with central heating, and are particularly prevalent in private rented dwellings.

Where central heating is not available, the favoured form of space heating is the programmable electric storage radiator. These systems are heavily concentrated in dwellings with no gas supply (74% of storage radiators are found in the 14% of the stock without mains gas). The proportion of dwellings for which programmable appliances such as these form the primary heating system is approximately the same as in 1996 (8%).

Almost all dwellings have some means of heating water - most commonly this is in a combined central heating / hot water boiler. The proportion of households able to heat water by this method has increased from 74% in 1996 to 84% in 2001.

The second most common form of water heating appliance is the electric immersion heater, three quarters of which are used as a backup to a combined central heating / hot water systems. The number of dwellings with an immersion heater (either as the main method of heating water or as a supplementary method) has dropped slightly, from 64% in 1996 to 59% in 2001. Households with an older HRP are more likely to rely on an immersion heater for their hot water, as are households on lower incomes.

40% of all dwellings rely on a single fuel for all their space and water heating needs (30% mains gas, 9% electricity, <1% other). Among the private rented and RSL tenures a disproportionately high percentage of dwellings rely on electricity for their space and water heating. Dwellings in the South West are less likely to use gas as their primary heating fuel (74%) than the rest of the country and more likely to use electricity (16%). Relatively high levels of fuel oil use are seen in the Eastern region (9% of dwellings).

# Space & Water Heating

## INTRODUCTION

*This report is concerned with the provision of space and water heating facilities within the English housing stock in 2001, as described by the 2001 English House Condition Survey (EHCS). It presents a general overview of the provision within the stock as a whole, and considers how space and water heating provision vary by physical and socio-economic factors. It also considers the fuels used to provide space and water heating.*

*The EHCS is a five yearly survey undertaken in order to assess the condition of the housing stock in England. The results presented here are from the sections of the survey that provide information on both the dwelling characteristics and the occupants. The survey results are based upon a sample of approximately 17,500 dwellings.*

## Space Heating

Dwellings may be heated by utilising one or more heating systems. Where several appliances are available the situation can become complex and difficult to interpret. However, for the majority of dwellings it is possible to define a primary heating system (i.e. the heating system which is of most importance within a dwelling). If a dwelling has central heating then this is assumed to be the primary heating system. Otherwise the appliance that heats the main living area is assumed to be the primary heating system.

There are three methods of space heating which are defined within the context of the EHCS.

**Central Heating:** A system which is able to distribute heat to at least one room other than that which contains the boiler – an example of this is a gas boiler which heats water to be distributed around a dwelling. All central heating systems can be fitted with some method of temperature control but the sensitivity and flexibility of these controls can vary. The two main types of control relate to the timing of the system and the adaptability of the system to room temperature.

**Programmable Heating:** Individual room-heaters that may be automatically operated by timers – for example a storage radiator.

**Other Heating:** Individual room-heaters that may *not* be automatically operated by timers – an example is a portable electric heater. Other heating is subdivided into **fixed** and **non-fixed** (i.e. portable) heaters.

- 1.1 86% of dwellings have central heating as their primary heating system; 8% of dwellings have programmable heating as their primary provision, 6% have fixed heaters and <1% have non-fixed heaters (see figure 1.1 and table 1.1).
- 1.2 The general pattern of heating provision is similar across tenures. Central heating plays the dominant role in all, but is more often supplemented by other forms of heating in the owner occupied sector than in the rented accommodation sector; secondary heating systems are least common in the social rented sector.

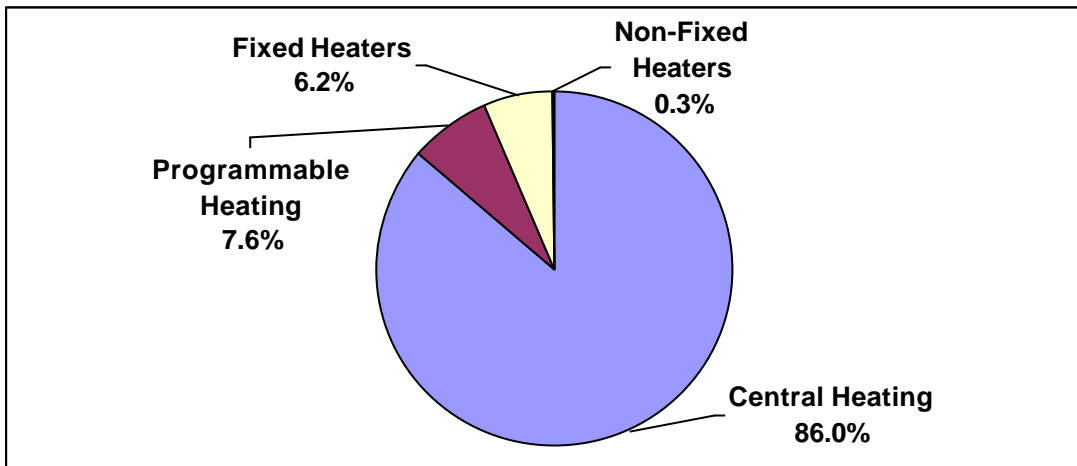


Figure 1.1 – Primary Heating Provision (all dwellings).

1.3 Figure 1.2 displays how owner occupied dwellings are most likely to have central heating (89% of dwellings) and those in private rented dwellings least likely (70%). A high proportion of private rented dwellings have fixed heaters as their primary heating provision (14%). Programmable heaters are most prevalent as the primary provision in registered social landlord and private rented dwellings (16% in both tenures) - see table 1.2.

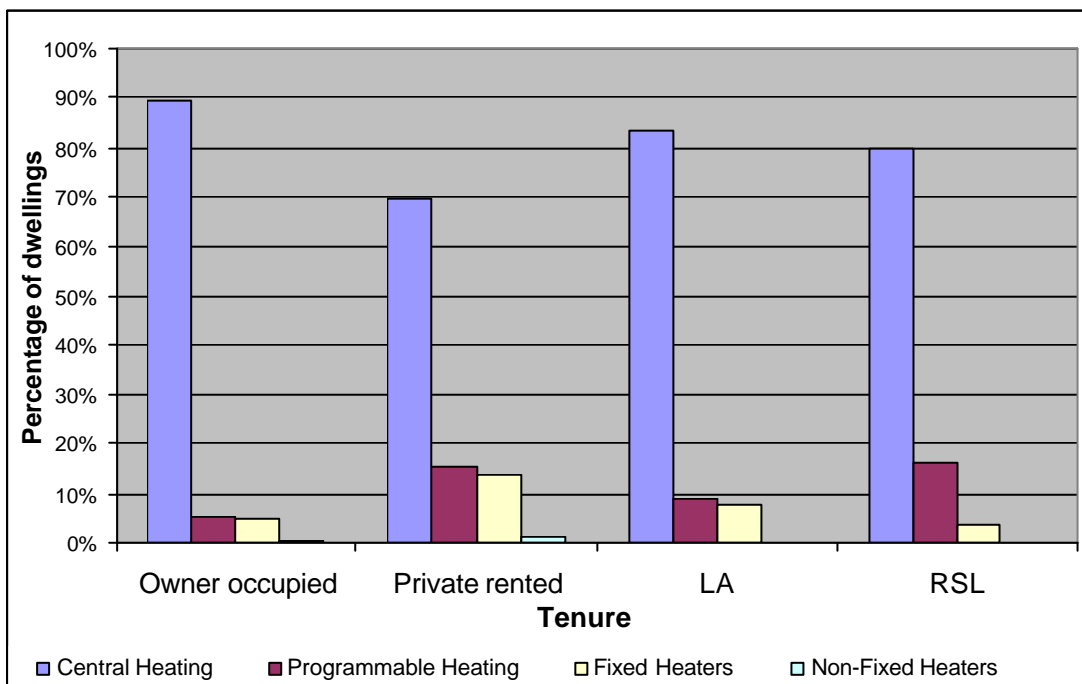


Figure 1.2 – Primary heating provision by tenure (all dwellings).

1.4 Central heating is most common regardless of the age of the dwelling, however it is more often found exclusively in modern dwellings. Between 78% and 89% of all dwellings in all age bands use central heating. A relatively high proportion of post 1980 dwellings use programmable heaters as their primary heating provision (14%). Other non-programmable heating systems play a more significant role in older dwellings. The use of fixed heaters as the primary heating system declines over time, from 12% in pre-1919 dwellings to 2% in post-1980 dwellings (see table 1.3).

- 1.5 Detached houses are most likely to have central heating: 97% have a central heating system installed. Flats are least likely to have central heating with high rise purpose built flats displaying the lowest incidence (67%). There is a corresponding high incidence of programmable heating as the primary heating system in flats. A high proportion of terraced houses and converted flats rely on other forms of heating system (13-14%) - see table 1.4.
- 1.6 Dwellings in the North East are the most likely to have a central heating system installed (92%) and those in the South West the least likely (80%). Programmable systems as the primary heating provision show the reverse pattern, being most common in the South West and rarest in the North East. While levels of central heating are slightly above average in London (88%), a high proportion of dwellings in this region rely solely on these systems (47%), no other form of heating being present as a backup - see table 1.5.
- Where central heating is not available, programmable heating is generally the primary heating provision across the regions. Exceptions to this are seen in Yorkshire & Humberside, the North West & Merseyside and the West Midlands where ~10% of dwellings use fixed heaters (see table 1.5).
- 1.7 The household reference person (HRP) is defined as the principal earner in a household. Households with an old (over 85) or young (under 25) HRP are least likely to have central heating installed (74% and 76%, respectively). In households where the HRP is over 65 years old, programmable and other room heaters are increasingly the primary heating source. 10% of those within the over 85 age band rely solely on other forms of heating (see table 1.6).
- 1.8 Households which comprise of only one person under 60 years old are least likely to have central heating (75%), and most likely to rely solely on non-programmable room heaters. Couples with dependent children are most likely to have central heating (93%) - see table 1.7.
- 1.9 There is a correlation between size of income and the availability of central heating: as household income increases, there is a definitive preference for central heating. 95% of those in the highest income quintile have central heating, compared to just 78% in the lowest quintile as can be seen in figure 1.3.

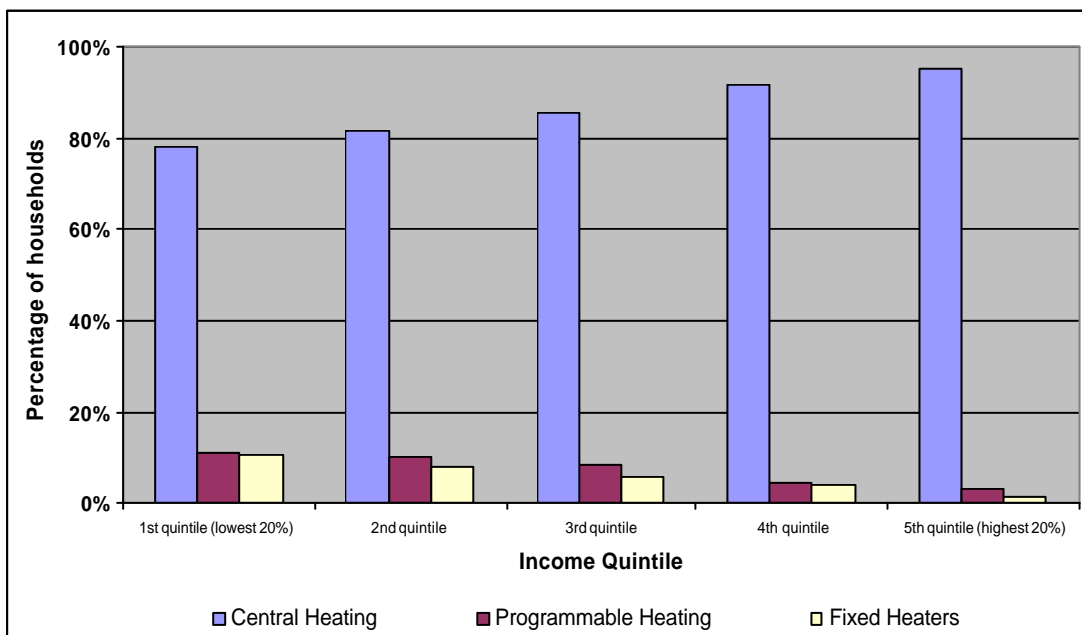
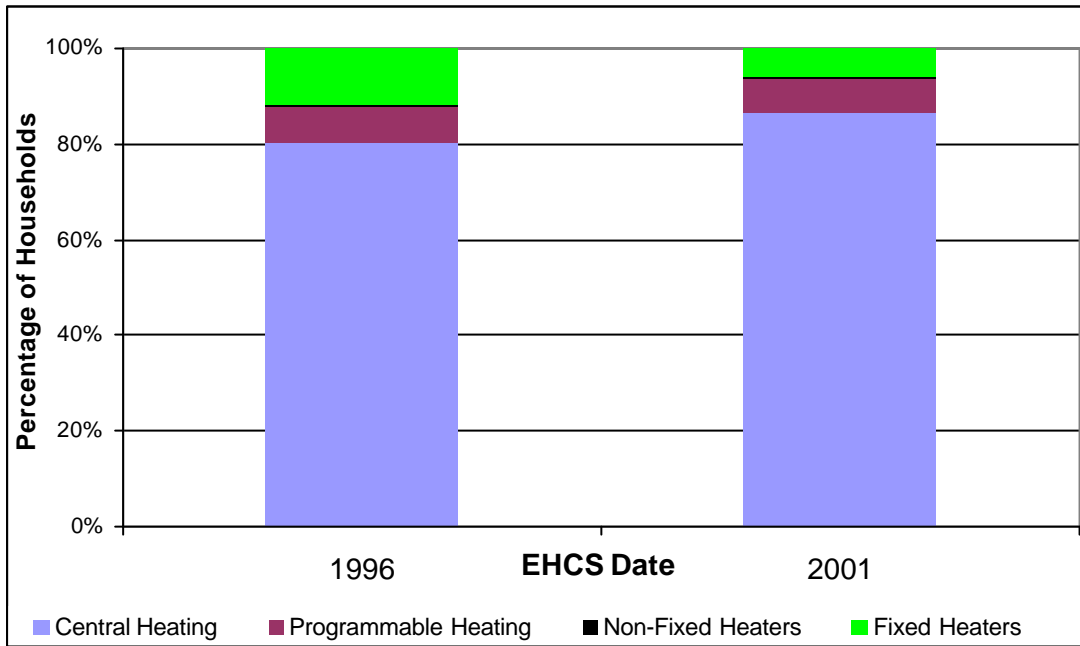


Figure 1.3 – Primary heating provision by income (all households).

11% of those in the lowest quintile have programmable heating with the remaining 11% using fixed/unfixed heaters, the highest proportion compared to all other income groups (see figure 1.3 and table 1.8).

*CHANGE IN SPACE HEATING PROVISION SINCE 1996:*

1.10 Between 1996 and 2001, the number of households with central heating increased from 80% to 86% whilst the number that used fixed heaters as their primary heat source decreased from 12% to 6%. The number with programmable systems remained approximately constant at ~8% of the stock – see figure 1.4.



**Figure 1.4 – Primary heating provision – proportion of stock in 1996 and 2001 (All households).**

1.11 This trend is reflected across most tenures: fixed heaters are seen to decrease, central heating increases and programmable heating levels remain approximately the same. However, in the private rented sector both central heating and programmable are seen to increase. The largest proportional decrease in fixed heaters can be seen within this sector, decreasing from 26% in 1996 to 14% in 2001.

1.12 The proportion of high rise flats with central heating has remained the same at 66%, and the numbers that use fixed heaters as the primary heating source have fallen from 12% to 2% in favour of programmable heating (increasing from 21% to 31%). Converted flats show an increase in both programmable and central heating and a corresponding fall in fixed heaters. For all other dwelling types (all houses and low-rise flats), central heating levels have risen, fixed heaters have reduced in number and programmable heating levels have remained approximately constant.

1.13 All regions show a similar change in primary heating provision since 1996. All show a similar increase in central heating use and a reduction in fixed heater use, with programmable heating remaining at around the same level.

## Central Heating Systems

1.14 The vast majority of central heating systems (91%) are mains gas fired systems, and the majority of these (76% of all central heating systems) are of the water borne single purpose type (see figure 1.5). There has been a barely perceptible shift towards mains gas fired systems since 1996, but within this category there has been a move from ducted air to water borne systems. For the heating source, there is a move from back boiler type systems to those relying on a single purpose boiler (see table 1.9 and figure 1.5).

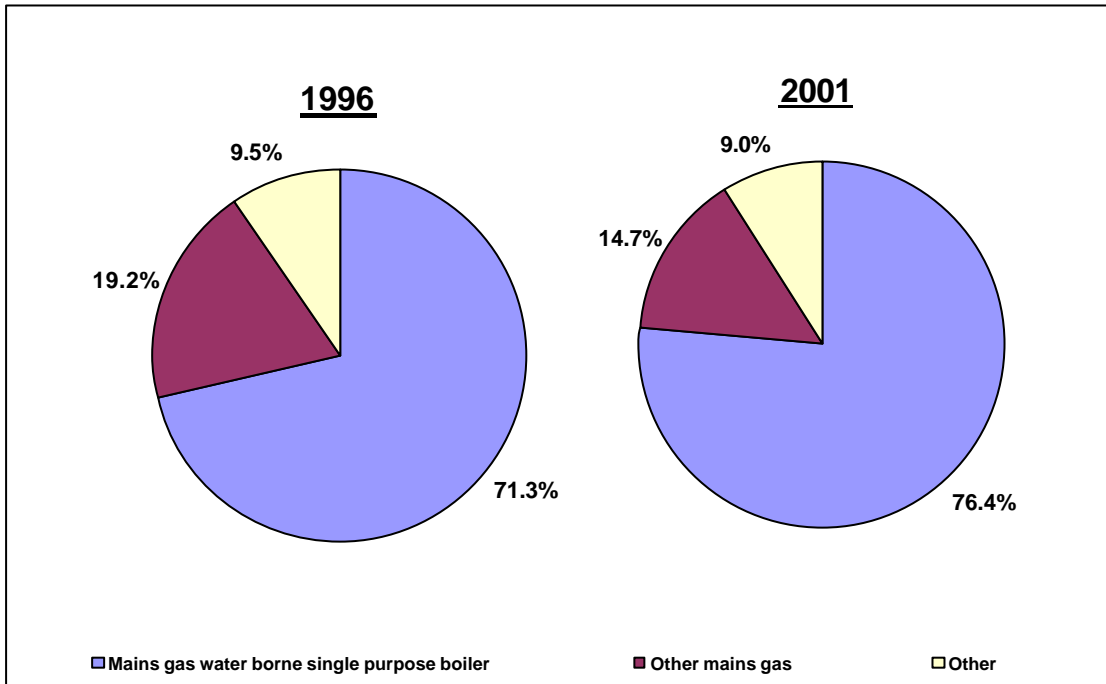


Figure 1.5 – Type of central heating system: proportion of stock in 1996 and 2001 (all dwellings with central heating).

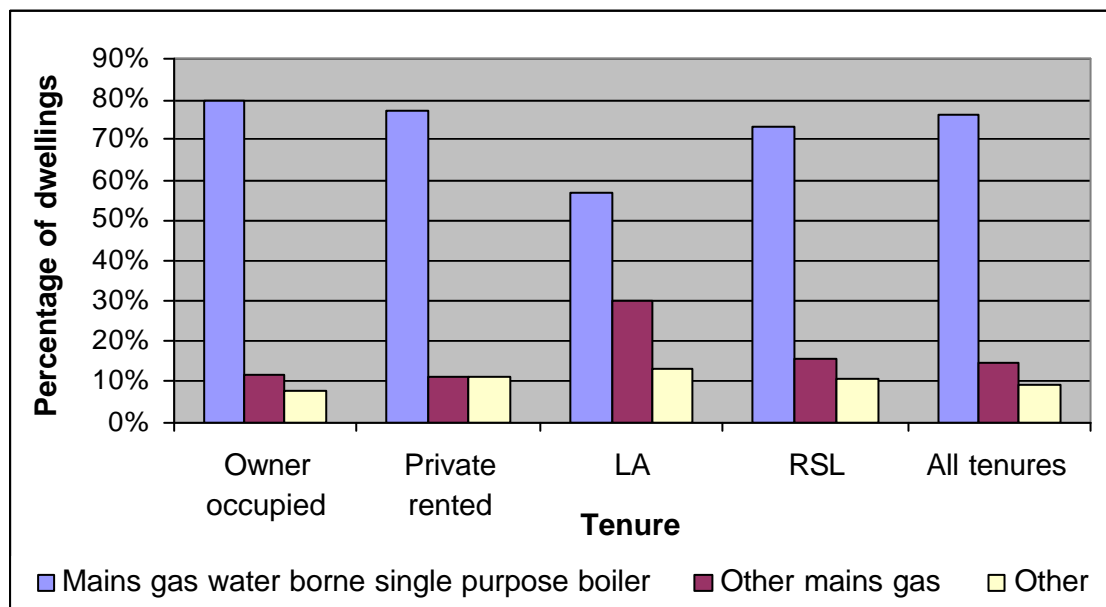


Figure 1.6 – Type of central heating by tenure (all dwellings with central heating).



- 1.15 Over one quarter of central heating boilers are combination boilers (which heat water on demand). These are particularly favoured in the private rented sector (38%) and to a lesser extent in the social rented sector. Combination boilers are most likely to be found in all types of flats, particularly in flat conversions (see table 1.11 and figure 1.6).
- 1.16 Overall, central heating boilers are spread throughout the age range, as shown in figure 1.7. Most solid fuel systems are relatively old; only 10% are under 5 years old and the average age is around 16 years (compared to an average age of 12 years for all central heating systems). These systems are being replaced by mains gas or oil fired systems (see table 1.12).

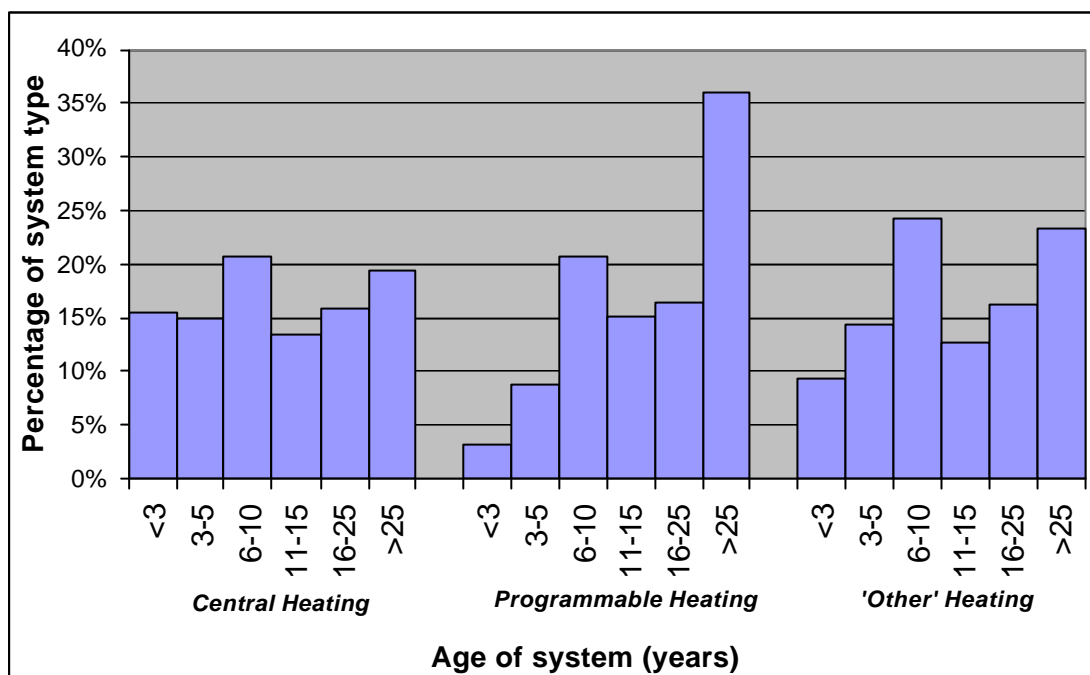


Figure 1.7 – Age of central heating systems (all dwellings).

- 1.17 Under the assumption that a boiler that is 15 years old or more is coming up for replacement, there is scope for upgrading or installing new central heating systems. 70% of dwellings are already adequately served by relatively modern efficient systems. 14% of households have old gas powered central heating systems and half of the 14% without central heating have gas available; therefore a further 21% of the stock could have modern gas systems installed (see table 1.13).
- 1.18 Only 2% of the English housing stock is heated using communal systems or combined heat and power - this has remained almost constant between 1996 and 2001 (see table 1.14).
- 1.19 The vast majority of systems are controlled by a central timer – over 95% of the most popular gas and oil systems may be controlled in this way. Time control is considerably less common for solid fuel and communal systems (see table 1.14).
- 1.20 Room thermostats switch off a heating system if the room temperature rises above the demand temperature. Thermostatic radiator valves (TRVs) provide temperature control for each radiator in the system. The latter is less common than the former but around 90% or so of the most popular systems have access to at least one of these temperature regulatory devices. Solid fuel and communal systems are less likely to have these types of control (table 1.14).
- 1.21 Central heating is most common in the owner occupied stock (present in around 90% of dwellings) and least common in the private rented sector (around 70%) - see table 1.2 and

figure 1.2. In all tenures the favoured system is the mains gas water borne system, particularly in the owner occupied stock. Many local authority and social rented dwellings (up to 25%) use ducted air or other alternative gas systems. Not surprisingly, communal heating is concentrated in the local authority and social rented sectors (around 7% of dwellings in each of these tenures rely upon this form of heating) - see table 1.10 and figure 1.6.

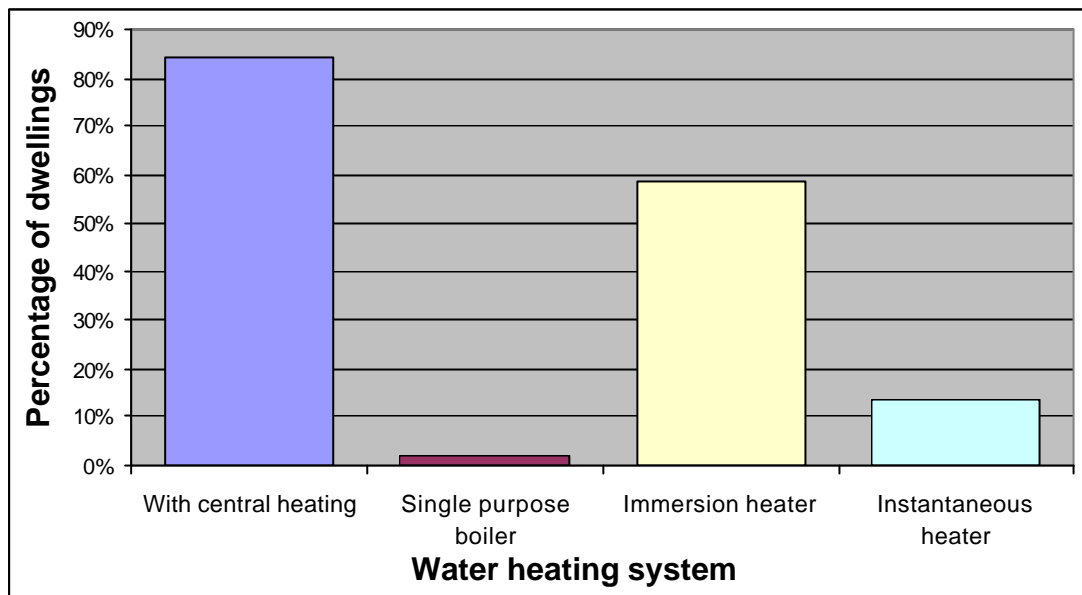
## **Programmable Heating Systems**

- 1.22 The most common programmable heating systems are electric storage radiators. Around 13% of dwellings with storage radiators also have central heating, although 20% of dwellings with storage radiators rely on these systems entirely for their space heating needs (see table 1.15). The use of storage radiators is concentrated in the 14% of the housing stock with no gas supply - 74% of all storage radiators are found in these dwellings (see table 1.16).
- 1.23 The other forms of programmable heaters (gas convectors, and non-storage electrical radiators) are fairly rare, being found in only 7% of all dwellings with a programmable system. Half of these dwellings also have central heating and so these heaters would be considered as subsidiary heating (table 1.15).
- 1.24 Programmable heating systems tend to be old (as shown in figure 1.7 and table 1.17). 36% of all programmable systems are more than 25 years old.
- 1.25 The use of programmable heating is concentrated in the private and social rented tenures and in all types of flats but particularly purpose built ones. The demographic characteristics of the main users tend to be the under 25s and the over 65s; in general the older the household the more likely it is that programmable heating is employed (see table 1.18).

## **Other Space Heating Systems**

- 1.26 There is a range of individual room devices used either for the primary heating in a home or supplementary heating alongside central heating/programmable systems. Around 75% of dwellings have other forms of heating but just 6% have only this type of heating (see table 1.1).
- 1.27 The dominant type of room heater is the mains gas fire, making up around 61% of all types. It is even more prevalent in dwellings where individual room appliances are the sole source of warmth. Electric fires/radiators, electrical portable heaters, solid fuel fires or stoves make up the other types of room heater employed (table 1.19). Electrical heaters are frequently used to supplement storage radiator systems.
- 1.28 Amongst properties with gas or oil fired central heating, supplementary heating tends to provide some visual focus, such as gas or solid fuel fires. Solid fuel central heating systems are often backed up by solid fuel fires, and electrical central heating systems or communally supplied heating are more often supplemented by other electrical appliances (see table 1.20).
- 1.29 The age distribution of other heating systems is shown in figure 1.7 and table 1.21. Solid fuel fireplaces are seldom found in modern dwellings whereas solid fuel stoves, though relatively few in number, are found across the entire age range. More than 30% of solid fuel stoves are 5 years old or less, underlining a trend for this type of heating that probably relates more to aesthetic appeal than to being particularly effective space heating appliances.

## Water Heating



**Figure 2.1: Types of water heating system (all dwellings).**

- 2.1 Almost all dwellings in 2001 have a system for supplying hot water on demand.
- 2.2 Hot water is supplied by combined central heating / hot water systems (~85% of dwellings), immersion heaters (~59%), instantaneous heaters (~14%) and a few separate single purpose water boilers (~2%) - see table 2.1 and figure 2.1.
- 2.3 Around three quarters of those with central heating / hot water systems make use of a cylinder for storage of the water, and the rest employ a combination boiler (see table 1.11).
- 2.4 Around 47% of dwellings have only one source of hot water available, with 34% relying on hot water from central heating boilers. 6% of the stock has access to three or more sources (see table 2.2).
- 2.5 Over three quarters of immersion heaters are used as back-up to a central heating system, or perhaps as an alternative in the summer months, with only 11% of dwellings relying entirely on an immersion heater. Similarly, individual instantaneous heaters are infrequently used as the sole means of heating water but generally as back up to the central heating system (table 2.2).
- 2.6 13% of all dwellings have some form of individual instantaneous water heater. The majority of these are of the 'electric – single point' type, for example, power showers (see table 2.12).
- 2.7 Traditional heating systems – separate hot water boilers and immersion heaters - tend to be relatively old. Instantaneous heaters and combined space and water heating systems are of all ages (see table 2.11).
- 2.8 Owner occupied dwellings are most likely to obtain hot water from a central heating system. The greatest proportion of immersion heaters is found in private and social rental properties (see table 2.3).

- 2.9 Water heating provision does not vary dramatically with dwelling age. Older dwellings are slightly less likely to have hot-water supplied by a central heating system. A relatively high proportion of the post 1980 stock rely exclusively on immersion heaters for hot water (16%) - see table 2.4.
- 2.10 Flats are less likely to have combined hot-water / central heating systems than houses or bungalows - 95% of detached houses use these systems compared with only 53% of high-rise flats. Immersion heaters are more prevalent in flats with 36% of high rise purpose built flats relying solely on immersion heaters. Smaller houses are also more likely to use immersion heaters – 15% of small terraced houses rely solely on an immersion heater, compared to 3% of detached houses (see table 2.5).
- 2.11 It is most common to heat hot water within a combined central heating / hot water boiler in the North East (where central heating is most prevalent) and least common in the South West (where it is rarest). Reliance on immersion heaters is most common in the South West and least common in the North East. There are considerable regional differences when considering those dwellings that rely solely on a combined central heating / hot water systems and those employing multiple systems. Within both London and the South East ~83% of dwellings have the capacity to heat water together with their central heating system. In the South East around three-quarters of these dwellings also have access to at least one additional method of heating water, whereas in London only half have such access (see table 2.6).
- 2.12 Households in which the HRP is under 25 or over 75 are less likely to employ a combined hot water / central heating system and more likely to rely solely on an immersion heater. In the over 85 age band, a high percentage (22%) are entirely dependent on an immersion heater for hot water (see table 2.7).
- 2.13 Dwellings housing one person are least likely to employ a combined hot water / central heating system (70-73%) and couples with dependent child(ren) are most likely (90%). Where a combined system is not used, the majority of households rely solely on an immersion heater (see table 2.8).
- 2.14 Households where at least one person works full time are most likely to heat hot water along with a central heating boiler (86%), those working part-time less so (81%) and those where none are working the least of all (77-78%) - see table 2.9.
- 2.15 Households on lower incomes are more likely to rely solely on an instantaneous or immersion heater for their hot water - 20% of those in the lowest income quintile have instantaneous or immersion heaters as their sole water heating provision, compared to just 4% of those in the top income quintile (see table 2.10).

*CHANGE IN WATER HEATING PROVISION SINCE 1996:*

- 2.16 There has been an increase in the proportion of households able to heat water along with their central heating system since 1996. In 1996 around 74% of households had a combined hot water / central heating system – this rises to 84% in 2001. This rise partly reflects the increased levels of central heating. The amount of dwellings able to make use of an immersion heater has dropped from 64% to 59% (see table 2.1 and figure 2.2).
- 2.17 The incidence of individual instantaneous heaters has increased. The majority of these are likely to be power showers which in recent years have become popular in dwellings where the plumbing facilities do not permit stored water showers to operate (see table 2.2)

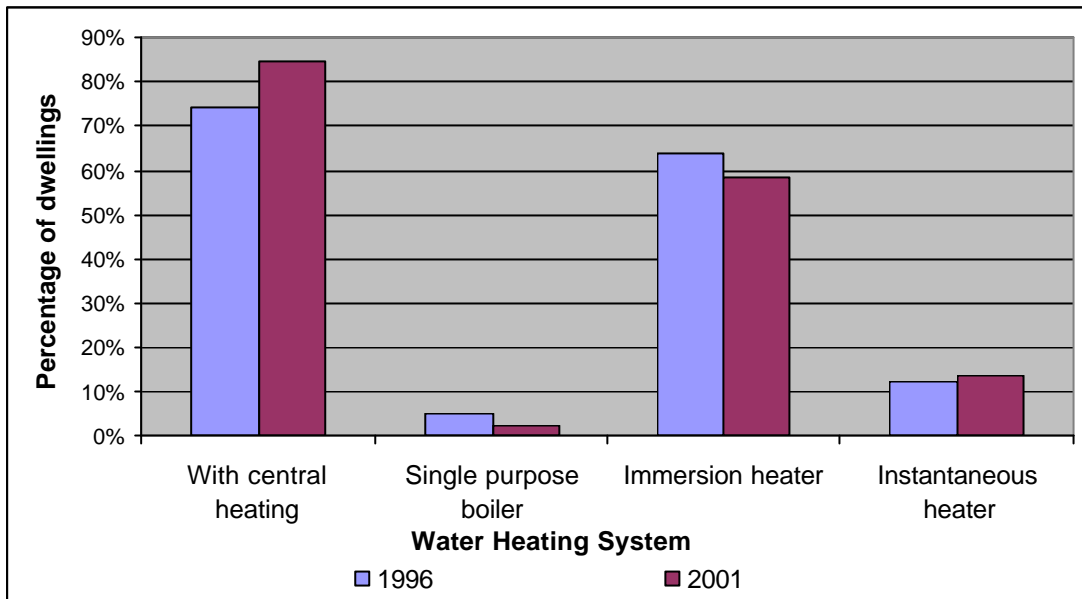


Figure 2.2: Types of water heating system 1996 and 2001 (all dwellings).

## Fuel Use for Space & Water Heating

- 3.1 40% of dwellings use only one fuel for space and water heating: 30% rely on mains gas, 9% on electricity and <1% on solid fuel or fuel oil. The use of electricity as the single fuel is highest in the private rented and registered social landlord sectors, with almost 20% of dwellings in these sectors only using electricity for their heating needs. Most householders use a combination of mains gas with electricity (~48%) - see table 3.1 and figure 3.1.
- 3.2 3% of the stock uses fuel oil, and these are mostly in the owner occupied sector. The private rented and local authority tenures are the main users of solid fuel, with almost 1% of the private rented sector using only solid fuel for their space and water heating needs.

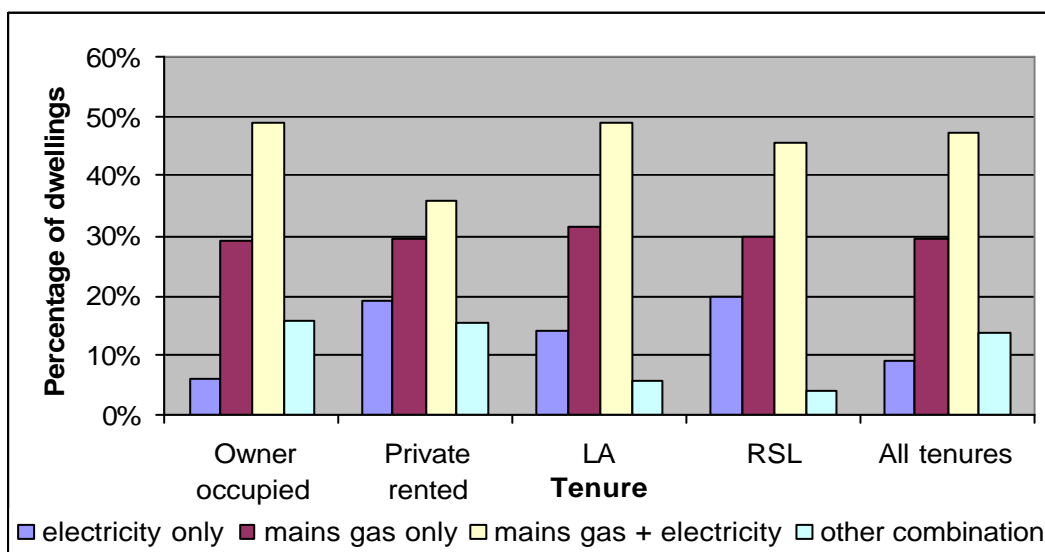


Figure 3.1: Combination of heating fuels by tenure (all dwellings).

3.3 91% of central heating systems are fuelled by mains gas. This is approximately the same proportion as were powered by mains gas in 1996. The proportion of central heating systems powered by solid fuel has reduced to about two-thirds the number seen in 1996 (from 2.9% to 1.9% of the stock), whilst the proportion using oil has grown marginally in the same period, from 3.5% to 3.9% in 2001 (table 1.9 and figure 3.2 below).

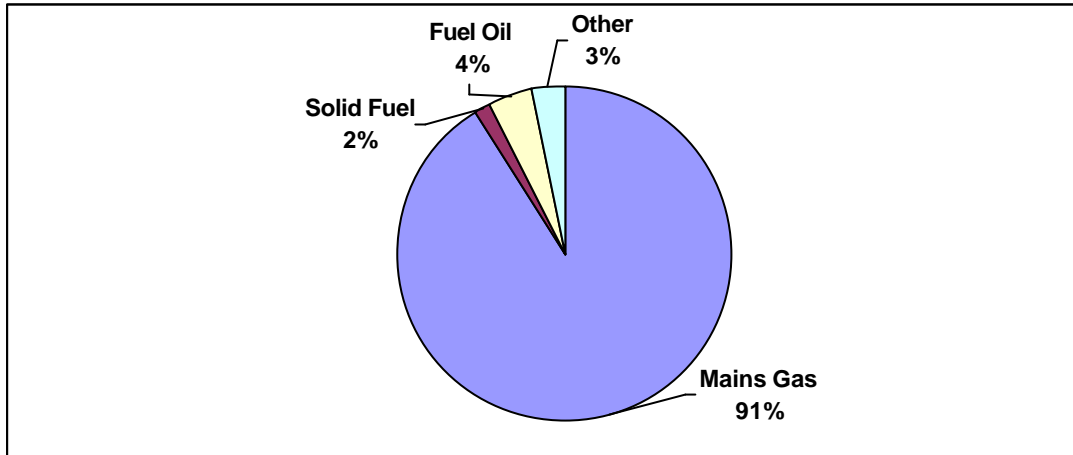


Figure 3.2: Fuel used for central heating (all dwellings with central heating).

3.4 Around 75% of the stock (16 million dwellings) has some form of other heating. The majority of these are fuelled by mains gas (61%). The remainder are split between electric and solid fuel systems (18% and 16% respectively), with a few appliances (~5%) employing other fuels (table 1.19 and figure 3.3).

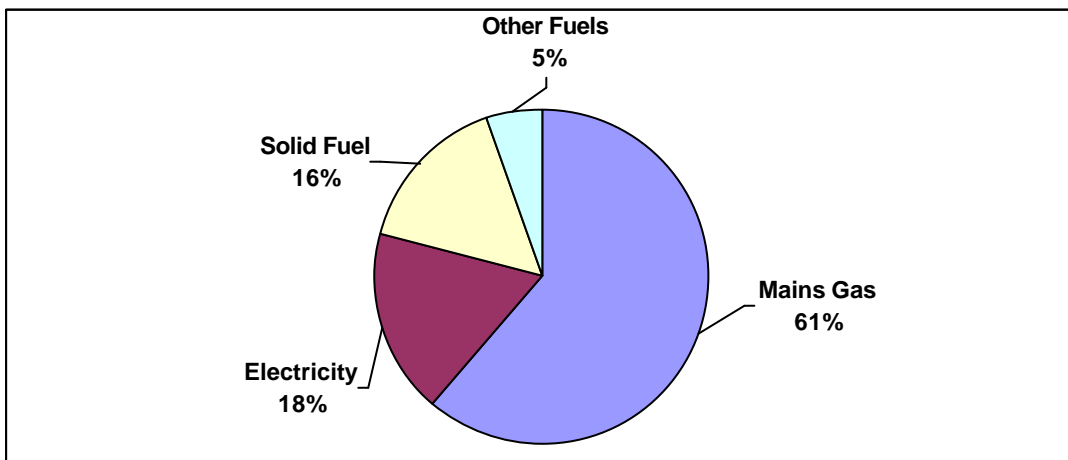


Figure 3.3 – Fuel used for other heating (all dwellings with other heating systems).

3.5 Over 81% of dwellings use mains gas to fuel their primary heating system. Around 9% use electricity, with other fuels and communal systems make up the remaining 10% (table 3.2).

3.6 The fuel used for the primary heating system shows considerable regional variation. The South West shows lower levels of gas fuelled systems (74%) and higher levels of electric (16%), solid fuel (4%) and fuel oil (6%) systems. High levels of fuel oil use are seen in the Eastern region (9%), which also shows low levels of gas fuelled systems (76%) and increased levels of electric systems (12%). The three northern regions (North East, Yorkshire & Humberside and the North West & Merseyside) generally show higher levels of gas use (88 to 89%) than the rest of England (table 3.2).

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Table 1.1: Space heating provision 2001

count (000s), (column%)

| <b>Full Heating Provision</b>    | <b>Number of dwellings</b> |
|----------------------------------|----------------------------|
| None                             | 29                         |
|                                  | ( 0.1 )                    |
| Other only                       | 1,290                      |
|                                  | ( 6.1 )                    |
| Programmable only                | 380                        |
|                                  | ( 1.8 )                    |
| Programmable + other             | 1,262                      |
|                                  | ( 6.0 )                    |
| CH only                          | 4,787                      |
|                                  | ( 22.6 )                   |
| CH + other                       | 13,006                     |
|                                  | ( 61.5 )                   |
| CH + programmable                | 88                         |
|                                  | ( 0.4 )                    |
| CH + programmable + other        | 298                        |
|                                  | ( 1.4 )                    |
| Total                            | 21,140                     |
|                                  | ( 100.0 )                  |
| <b>Primary Heating Provision</b> |                            |
| Central heating                  | 18,177                     |
|                                  | ( 86.0 )                   |
| Programable                      | 1,600                      |
|                                  | ( 7.6 )                    |
| Fixed heaters                    | 1,305                      |
|                                  | ( 6.2 )                    |
| Non-fixed heaters                | 58                         |
|                                  | ( 0.3 )                    |
| Total                            | 21,140                     |
|                                  | ( 100.0 )                  |

base: All dwellings  
(grossed by dwellings).



Table 1.2: Space heating provision by Tenure

count(000s), (row%), (column%)

| <b>Full Heating Provision</b>    | <b>Tenure:</b>        |                       |           |            | <b>All tenures</b> |
|----------------------------------|-----------------------|-----------------------|-----------|------------|--------------------|
|                                  | <i>Owner occupied</i> | <i>Private rented</i> | <i>LA</i> | <i>RSL</i> |                    |
| None                             | 13                    | 11                    | 4         | 1          | 29                 |
|                                  | ( 45.8)               | ( 38.6)               | ( 12.3)   | ( 3.4)     | ( 100.0)           |
|                                  | ( 0.1)                | ( 0.5)                | ( 0.1)    | ( 0.1)     | ( 0.1)             |
| Other only                       | 732                   | 301                   | 207       | 51         | 1,290              |
|                                  | ( 56.8)               | ( 23.3)               | ( 16.0)   | ( 3.9)     | ( 100.0)           |
|                                  | ( 5.0)                | ( 13.7)               | ( 7.4)    | ( 3.6)     | ( 6.1)             |
| Programmable only                | 142                   | 95                    | 70        | 73         | 380                |
|                                  | ( 37.3)               | ( 25.0)               | ( 18.5)   | ( 19.2)    | ( 100.0)           |
|                                  | ( 1.0)                | ( 4.3)                | ( 2.5)    | ( 5.2)     | ( 1.8)             |
| Programmable + other             | 674                   | 256                   | 178       | 154        | 1,262              |
|                                  | ( 53.4)               | ( 20.2)               | ( 14.1)   | ( 12.2)    | ( 100.0)           |
|                                  | ( 4.6)                | ( 11.7)               | ( 6.4)    | ( 11.1)    | ( 6.0)             |
| CH only                          | 2,810                 | 610                   | 811       | 556        | 4,787              |
|                                  | ( 58.7)               | ( 12.7)               | ( 16.9)   | ( 11.6)    | ( 100.0)           |
|                                  | ( 19.0)               | ( 27.8)               | ( 29.1)   | ( 40.1)    | ( 22.6)            |
| CH + other                       | 10,133                | 872                   | 1,477     | 525        | 13,006             |
|                                  | ( 77.9)               | ( 6.7)                | ( 11.4)   | ( 4.0)     | ( 100.0)           |
|                                  | ( 68.6)               | ( 39.8)               | ( 52.9)   | ( 37.8)    | ( 61.5)            |
| CH + programmable                | 52                    | 10                    | 15        | 11         | 88                 |
|                                  | ( 58.8)               | ( 11.6)               | ( 16.5)   | ( 13.1)    | ( 100.0)           |
|                                  | ( 0.4)                | ( 0.5)                | ( 0.5)    | ( 0.8)     | ( 0.4)             |
| CH + programmable + other        | 215                   | 37                    | 29        | 17         | 298                |
|                                  | ( 72.1)               | ( 12.6)               | ( 9.6)    | ( 5.7)     | ( 100.0)           |
|                                  | ( 1.5)                | ( 1.7)                | ( 1.0)    | ( 1.2)     | ( 1.4)             |
| Total                            | 14,771                | 2,191                 | 2,790     | 1,388      | 21,140             |
|                                  | ( 69.9)               | ( 10.4)               | ( 13.2)   | ( 6.6)     | ( 100.0)           |
|                                  | ( 100.0)              | ( 100.0)              | ( 100.0)  | ( 100.0)   | ( 100.0)           |
| <b>Primary heating provision</b> |                       |                       |           |            |                    |
| Central heating                  | 13,210                | 1,527                 | 2,331     | 1,109      | 18,177             |
|                                  | ( 72.7)               | ( 8.4)                | ( 12.8)   | ( 6.1)     | ( 100.0)           |
|                                  | ( 89.4)               | ( 69.7)               | ( 83.5)   | ( 79.9)    | ( 86.0)            |
| Programmable                     | 795                   | 340                   | 242       | 223        | 1,600              |
|                                  | ( 49.7)               | ( 21.3)               | ( 15.1)   | ( 14.0)    | ( 100.0)           |
|                                  | ( 5.4)                | ( 15.5)               | ( 8.7)    | ( 16.1)    | ( 7.6)             |
| Fixed heaters                    | 734                   | 304                   | 213       | 54         | 1,305              |
|                                  | ( 56.2)               | ( 23.3)               | ( 16.3)   | ( 4.1)     | ( 100.0)           |
|                                  | ( 5.0)                | ( 13.9)               | ( 7.6)    | ( 3.9)     | ( 6.2)             |
| Non-fixed heaters                | 32                    | 20                    | 4         | 1          | 58                 |
|                                  | ( 55.9)               | ( 34.6)               | ( 7.2)    | ( 2.3)     | ( 100.0)           |
|                                  | ( 0.2)                | ( 0.9)                | ( 0.1)    | ( 0.1)     | ( 0.3)             |
| Total                            | 14,771                | 2,191                 | 2,790     | 1,388      | 21,140             |
|                                  | ( 69.9)               | ( 10.4)               | ( 13.2)   | ( 6.6)     | ( 100.0)           |
|                                  | ( 100.0)              | ( 100.0)              | ( 100.0)  | ( 100.0)   | ( 100.0)           |

base: All dwellings  
(grossed by dwellings).

Table 1.3: Space heating provision by dwelling age

count(000s), (row%), (column%)

| <b>Full Heating Provision</b>    | <b>Dwelling age</b> |                  |                  |                  |                  | <b>Total</b> |
|----------------------------------|---------------------|------------------|------------------|------------------|------------------|--------------|
|                                  | <i>Pre 1919</i>     | <i>1919-1944</i> | <i>1945-1964</i> | <i>1965-1980</i> | <i>Post 1980</i> |              |
| None                             | 18                  | 6                | 3                | 2                | 0                | 29           |
|                                  | ( 62.5)             | ( 19.8)          | ( 10.9)          | ( 6.8)           | ( 0.0)           | ( 100.0)     |
|                                  | ( 0.4)              | ( 0.2)           | ( 0.1)           | ( 0.0)           | ( 0.0)           | ( 0.1)       |
| Other only                       | 534                 | 269              | 300              | 104              | 83               | 1,290        |
|                                  | ( 41.4)             | ( 20.9)          | ( 23.3)          | ( 8.0)           | ( 6.5)           | ( 100.0)     |
|                                  | ( 12.1)             | ( 7.2)           | ( 6.7)           | ( 2.3)           | ( 2.1)           | ( 6.1)       |
| Programmable only                | 44                  | 21               | 44               | 94               | 177              | 380          |
|                                  | ( 11.5)             | ( 5.6)           | ( 11.5)          | ( 24.6)          | ( 46.7)          | ( 100.0)     |
|                                  | ( 1.0)              | ( 0.6)           | ( 1.0)           | ( 2.0)           | ( 4.5)           | ( 1.8)       |
| Programmable + other             | 236                 | 101              | 235              | 288              | 402              | 1,262        |
|                                  | ( 18.7)             | ( 8.0)           | ( 18.6)          | ( 22.8)          | ( 31.8)          | ( 100.0)     |
|                                  | ( 5.4)              | ( 2.7)           | ( 5.2)           | ( 6.3)           | ( 10.3)          | ( 6.0)       |
| CH only                          | 799                 | 669              | 693              | 1,472            | 1,155            | 4,787        |
|                                  | ( 16.7)             | ( 14.0)          | ( 14.5)          | ( 30.7)          | ( 24.1)          | ( 100.0)     |
|                                  | ( 18.1)             | ( 17.9)          | ( 15.5)          | ( 32.0)          | ( 29.5)          | ( 22.6)      |
| CH + other                       | 2,665               | 2,631            | 3,123            | 2,563            | 2,023            | 13,006       |
|                                  | ( 20.5)             | ( 20.2)          | ( 24.0)          | ( 19.7)          | ( 15.6)          | ( 100.0)     |
|                                  | ( 60.5)             | ( 70.4)          | ( 69.8)          | ( 55.7)          | ( 51.7)          | ( 61.5)      |
| CH + programmable                | 14                  | 9                | 15               | 26               | 24               | 88           |
|                                  | ( 15.7)             | ( 10.2)          | ( 16.7)          | ( 29.8)          | ( 27.7)          | ( 100.0)     |
|                                  | ( 0.3)              | ( 0.2)           | ( 0.3)           | ( 0.6)           | ( 0.6)           | ( 0.4)       |
| CH + programmable + other        | 95                  | 33               | 64               | 56               | 50               | 298          |
|                                  | ( 32.0)             | ( 11.2)          | ( 21.4)          | ( 18.7)          | ( 16.7)          | ( 100.0)     |
|                                  | ( 2.2)              | ( 0.9)           | ( 1.4)           | ( 1.2)           | ( 1.3)           | ( 1.4)       |
| Total                            | 4,406               | 3,739            | 4,476            | 4,604            | 3,915            | 21,140       |
|                                  | ( 20.8)             | ( 17.7)          | ( 21.2)          | ( 21.8)          | ( 18.5)          | ( 100.0)     |
|                                  | ( 100.0)            | ( 100.0)         | ( 100.0)         | ( 100.0)         | ( 100.0)         | ( 100.0)     |
| <b>Primary heating provision</b> |                     |                  |                  |                  |                  |              |
| Central heating                  | 3,573               | 3,342            | 3,894            | 4,116            | 3,252            | 18,177       |
|                                  | ( 19.7)             | ( 18.4)          | ( 21.4)          | ( 22.6)          | ( 17.9)          | ( 100.0)     |
|                                  | ( 81.1)             | ( 89.4)          | ( 87.0)          | ( 89.4)          | ( 83.1)          | ( 86.0)      |
| Programmable                     | 274                 | 117              | 269              | 374              | 567              | 1,600        |
|                                  | ( 17.1)             | ( 7.3)           | ( 16.8)          | ( 23.4)          | ( 35.4)          | ( 100.0)     |
|                                  | ( 6.2)              | ( 3.1)           | ( 6.0)           | ( 8.1)           | ( 14.5)          | ( 7.6)       |
| Fixed heaters                    | 541                 | 264              | 296              | 109              | 95               | 1,305        |
|                                  | ( 41.5)             | ( 20.2)          | ( 22.7)          | ( 8.3)           | ( 7.3)           | ( 100.0)     |
|                                  | ( 12.3)             | ( 7.1)           | ( 6.6)           | ( 2.4)           | ( 2.4)           | ( 6.2)       |
| Non-fixed heaters                | 18                  | 16               | 18               | 5                | 1                | 58           |
|                                  | ( 31.1)             | ( 27.6)          | ( 31.0)          | ( 8.8)           | ( 1.5)           | ( 100.0)     |
|                                  | ( 0.4)              | ( 0.4)           | ( 0.4)           | ( 0.1)           | ( 0.0)           | ( 0.3)       |
| Total                            | 4,406               | 3,739            | 4,476            | 4,604            | 3,915            | 21,140       |
|                                  | ( 20.8)             | ( 17.7)          | ( 21.2)          | ( 21.8)          | ( 18.5)          | ( 100.0)     |
|                                  | ( 100.0)            | ( 100.0)         | ( 100.0)         | ( 100.0)         | ( 100.0)         | ( 100.0)     |

base: All dwellings  
(grossed by dwellings).

Table 1.4: Space heating provision by dwelling type

| Full heating provision           | Dwelling Type        |                               |                     |                |          |                |                              |                               | All Dwellings |
|----------------------------------|----------------------|-------------------------------|---------------------|----------------|----------|----------------|------------------------------|-------------------------------|---------------|
|                                  | Small terraced house | Medium / large terraced house | Semi-detached house | Detached house | Bungalow | Converted flat | Purpose built flat, low rise | Purpose built flat, high rise |               |
| None                             | 6                    | 5                             | 2                   | 3              | 5        | 7              | 1                            | 0                             | 29            |
|                                  | ( 20.2)              | ( 16.3)                       | ( 6.8)              | ( 11.3)        | ( 18.7)  | ( 23.9)        | ( 2.8)                       | ( 0.0)                        | ( 100.0)      |
|                                  | ( 0.2)               | ( 0.1)                        | ( 0.0)              | ( 0.1)         | ( 0.3)   | ( 1.0)         | ( 0.0)                       | ( 0.0)                        | ( 0.1)        |
| Other only                       | 362                  | 251                           | 313                 | 36             | 33       | 94             | 195                          | 7                             | 1,290         |
|                                  | ( 28.0)              | ( 19.5)                       | ( 24.2)             | ( 2.8)         | ( 2.5)   | ( 7.3)         | ( 15.1)                      | ( 0.5)                        | ( 100.0)      |
|                                  | ( 13.6)              | ( 7.5)                        | ( 5.3)              | ( 1.1)         | ( 1.6)   | ( 13.6)        | ( 6.7)                       | ( 2.0)                        | ( 6.1)        |
| Programmable only                | 35                   | 25                            | 25                  | 2              | 26       | 26             | 196                          | 43                            | 380           |
|                                  | ( 9.3)               | ( 6.6)                        | ( 6.7)              | ( 0.6)         | ( 6.9)   | ( 7.0)         | ( 51.5)                      | ( 11.4)                       | ( 100.0)      |
|                                  | ( 1.3)               | ( 0.8)                        | ( 0.4)              | ( 0.1)         | ( 1.3)   | ( 3.8)         | ( 6.7)                       | ( 12.9)                       | ( 1.8)        |
| Programmable + other             | 178                  | 112                           | 219                 | 46             | 154      | 68             | 425                          | 62                            | 1,262         |
|                                  | ( 14.1)              | ( 8.9)                        | ( 17.4)             | ( 3.6)         | ( 12.2)  | ( 5.4)         | ( 33.6)                      | ( 4.9)                        | ( 100.0)      |
|                                  | ( 6.7)               | ( 3.4)                        | ( 3.7)              | ( 1.4)         | ( 7.5)   | ( 9.8)         | ( 14.5)                      | ( 18.6)                       | ( 6.0)        |
| CH only                          | 697                  | 915                           | 928                 | 425            | 326      | 242            | 1,105                        | 149                           | 4,787         |
|                                  | ( 14.6)              | ( 19.1)                       | ( 19.4)             | ( 8.9)         | ( 6.8)   | ( 5.1)         | ( 23.1)                      | ( 3.1)                        | ( 100.0)      |
|                                  | ( 26.2)              | ( 27.4)                       | ( 15.9)             | ( 13.0)        | ( 15.9)  | ( 35.0)        | ( 37.7)                      | ( 44.4)                       | ( 22.6)       |
| CH + other                       | 1,330                | 1,967                         | 4,298               | 2,701          | 1,466    | 243            | 934                          | 67                            | 13,006        |
|                                  | ( 10.2)              | ( 15.1)                       | ( 33.0)             | ( 20.8)        | ( 11.3)  | ( 1.9)         | ( 7.2)                       | ( 0.5)                        | ( 100.0)      |
|                                  | ( 50.0)              | ( 58.8)                       | ( 73.4)             | ( 82.5)        | ( 71.3)  | ( 35.2)        | ( 31.9)                      | ( 20.0)                       | ( 61.5)       |
| CH + programmable                | 11                   | 9                             | 16                  | 10             | 4        | 4              | 30                           | 3                             | 88            |
|                                  | ( 12.5)              | ( 10.8)                       | ( 18.3)             | ( 10.9)        | ( 4.9)   | ( 5.1)         | ( 33.8)                      | ( 3.8)                        | ( 100.0)      |
|                                  | ( 0.4)               | ( 0.3)                        | ( 0.3)              | ( 0.3)         | ( 0.2)   | ( 0.6)         | ( 1.0)                       | ( 1.0)                        | ( 0.4)        |
| CH + programmable + other        | 42                   | 60                            | 51                  | 51             | 41       | 7              | 44                           | 4                             | 298           |
|                                  | ( 14.0)              | ( 19.9)                       | ( 17.1)             | ( 16.9)        | ( 13.7)  | ( 2.2)         | ( 14.8)                      | ( 1.3)                        | ( 100.0)      |
|                                  | ( 1.6)               | ( 1.8)                        | ( 0.9)              | ( 1.5)         | ( 2.0)   | ( 0.9)         | ( 1.5)                       | ( 1.2)                        | ( 1.4)        |
| Total                            | 2,660                | 3,344                         | 5,853               | 3,273          | 2,055    | 691            | 2,929                        | 335                           | 21,140        |
|                                  | ( 12.6)              | ( 15.8)                       | ( 27.7)             | ( 15.5)        | ( 9.7)   | ( 3.3)         | ( 13.9)                      | ( 1.6)                        | ( 100.0)      |
|                                  | ( 100.0)             | ( 100.0)                      | ( 100.0)            | ( 100.0)       | ( 100.0) | ( 100.0)       | ( 100.0)                     | ( 100.0)                      | ( 100.0)      |
| <b>Primary heating provision</b> |                      |                               |                     |                |          |                |                              |                               |               |
| Central heating                  | 2,080                | 2,951                         | 5,292               | 3,185          | 1,837    | 496            | 2,113                        | 223                           | 18,177        |
|                                  | ( 11.4)              | ( 16.2)                       | ( 29.1)             | ( 17.5)        | ( 10.1)  | ( 2.7)         | ( 11.6)                      | ( 1.2)                        | ( 100.0)      |
|                                  | ( 78.2)              | ( 88.2)                       | ( 90.4)             | ( 97.3)        | ( 89.4)  | ( 71.8)        | ( 72.1)                      | ( 66.6)                       | ( 86.0)       |
| Programmable                     | 210                  | 133                           | 234                 | 49             | 178      | 91             | 600                          | 105                           | 1,600         |
|                                  | ( 13.1)              | ( 8.3)                        | ( 14.6)             | ( 3.1)         | ( 11.1)  | ( 5.7)         | ( 37.5)                      | ( 6.6)                        | ( 100.0)      |
|                                  | ( 7.9)               | ( 4.0)                        | ( 4.0)              | ( 1.5)         | ( 8.6)   | ( 13.1)        | ( 20.5)                      | ( 31.4)                       | ( 7.6)        |
| Fixed heaters                    | 365                  | 255                           | 310                 | 38             | 39       | 91             | 199                          | 7                             | 1,305         |
|                                  | ( 27.9)              | ( 19.6)                       | ( 23.7)             | ( 2.9)         | ( 3.0)   | ( 7.0)         | ( 15.3)                      | ( 0.5)                        | ( 100.0)      |
|                                  | ( 13.7)              | ( 7.6)                        | ( 5.3)              | ( 1.2)         | ( 1.9)   | ( 13.2)        | ( 6.8)                       | ( 2.1)                        | ( 6.2)        |
| Non-fixed heaters                | 5                    | 5                             | 16                  | 1              | 1        | 13             | 16                           | 0                             | 58            |
|                                  | ( 9.4)               | ( 8.8)                        | ( 27.9)             | ( 2.5)         | ( 1.5)   | ( 21.9)        | ( 28.1)                      | ( 0.0)                        | ( 100.0)      |
|                                  | ( 0.2)               | ( 0.2)                        | ( 0.3)              | ( 0.0)         | ( 0.0)   | ( 1.8)         | ( 0.6)                       | ( 0.0)                        | ( 0.3)        |
| Total                            | 2,660                | 3,344                         | 5,853               | 3,273          | 2,055    | 691            | 2,929                        | 335                           | 21,140        |
|                                  | ( 12.6)              | ( 15.8)                       | ( 27.7)             | ( 15.5)        | ( 9.7)   | ( 3.3)         | ( 13.9)                      | ( 1.6)                        | ( 100.0)      |
|                                  | ( 100.0)             | ( 100.0)                      | ( 100.0)            | ( 100.0)       | ( 100.0) | ( 100.0)       | ( 100.0)                     | ( 100.0)                      | ( 100.0)      |

base: All dwellings

(grossed by dwellings).

Table 1.5: Space heating provision by Government Office region

count(000s), (row%), (column%)

| Full Heating Provision           | Government Office Region |                        |                         |               |               |            |          |            |          | All Dwellings |
|----------------------------------|--------------------------|------------------------|-------------------------|---------------|---------------|------------|----------|------------|----------|---------------|
|                                  | North East               | Yorkshire & Humberside | North West & Merseyside | East Midlands | West Midlands | South West | Eastern  | South East | London   |               |
| None                             | 0                        | 1                      | 5                       | 3             | 2             | 0          | 5        | 4          | 8        | 29            |
|                                  | ( 0.0)                   | ( 5.2)                 | ( 16.5)                 | ( 10.7)       | ( 8.0)        | ( 1.7)     | ( 16.4)  | ( 15.1)    | ( 26.4)  | ( 100.0)      |
|                                  | ( 0.0)                   | ( 0.1)                 | ( 0.2)                  | ( 0.2)        | ( 0.1)        | ( 0.0)     | ( 0.2)   | ( 0.1)     | ( 0.2)   | ( 0.1)        |
| Other only                       | 31                       | 228                    | 272                     | 63            | 200           | 134        | 83       | 124        | 155      | 1,290         |
|                                  | ( 2.4)                   | ( 17.6)                | ( 21.1)                 | ( 4.9)        | ( 15.5)       | ( 10.4)    | ( 6.5)   | ( 9.6)     | ( 12.0)  | ( 100.0)      |
|                                  | ( 2.9)                   | ( 10.3)                | ( 9.3)                  | ( 3.4)        | ( 9.3)        | ( 6.3)     | ( 3.6)   | ( 3.6)     | ( 5.0)   | ( 6.1)        |
| Programmable only                | 11                       | 15                     | 23                      | 24            | 18            | 63         | 63       | 75         | 87       | 380           |
|                                  | ( 3.0)                   | ( 4.0)                 | ( 6.0)                  | ( 6.3)        | ( 4.7)        | ( 16.7)    | ( 16.6)  | ( 19.8)    | ( 22.9)  | ( 100.0)      |
|                                  | ( 1.0)                   | ( 0.7)                 | ( 0.8)                  | ( 1.3)        | ( 0.8)        | ( 3.0)     | ( 2.7)   | ( 2.2)     | ( 2.8)   | ( 1.8)        |
| Programmable + other             | 41                       | 94                     | 177                     | 109           | 137           | 215        | 161      | 212        | 116      | 1,262         |
|                                  | ( 3.2)                   | ( 7.5)                 | ( 14.0)                 | ( 8.7)        | ( 10.9)       | ( 17.0)    | ( 12.7)  | ( 16.8)    | ( 9.2)   | ( 100.0)      |
|                                  | ( 3.8)                   | ( 4.3)                 | ( 6.1)                  | ( 5.9)        | ( 6.4)        | ( 10.2)    | ( 6.9)   | ( 6.2)     | ( 3.8)   | ( 6.0)        |
| CH only                          | 157                      | 251                    | 322                     | 247           | 261           | 437        | 646      | 1,030      | 1,437    | 4,787         |
|                                  | ( 3.3)                   | ( 5.2)                 | ( 6.7)                  | ( 5.2)        | ( 5.5)        | ( 9.1)     | ( 13.5)  | ( 21.5)    | ( 30.0)  | ( 100.0)      |
|                                  | ( 14.6)                  | ( 11.4)                | ( 11.0)                 | ( 13.4)       | ( 12.1)       | ( 20.6)    | ( 27.8)  | ( 30.1)    | ( 46.7)  | ( 22.6)       |
| CH + other                       | 813                      | 1,598                  | 2,077                   | 1,357         | 1,495         | 1,200      | 1,319    | 1,914      | 1,232    | 13,006        |
|                                  | ( 6.2)                   | ( 12.3)                | ( 16.0)                 | ( 10.4)       | ( 11.5)       | ( 9.2)     | ( 10.1)  | ( 14.7)    | ( 9.5)   | ( 100.0)      |
|                                  | ( 75.6)                  | ( 72.4)                | ( 71.1)                 | ( 73.7)       | ( 69.5)       | ( 56.7)    | ( 56.7)  | ( 55.9)    | ( 40.1)  | ( 61.5)       |
| CH + programmable                | 7                        | 4                      | 3                       | 5             | 2             | 13         | 19       | 16         | 19       | 88            |
|                                  | ( 8.2)                   | ( 4.1)                 | ( 3.7)                  | ( 5.5)        | ( 2.6)        | ( 14.7)    | ( 21.4)  | ( 18.5)    | ( 21.2)  | ( 100.0)      |
|                                  | ( 0.7)                   | ( 0.2)                 | ( 0.1)                  | ( 0.3)        | ( 0.1)        | ( 0.6)     | ( 0.8)   | ( 0.5)     | ( 0.6)   | ( 0.4)        |
| CH + programmable + other        | 14                       | 16                     | 41                      | 33            | 36            | 55         | 31       | 51         | 22       | 298           |
|                                  | ( 4.8)                   | ( 5.2)                 | ( 13.7)                 | ( 11.0)       | ( 12.0)       | ( 18.4)    | ( 10.4)  | ( 17.1)    | ( 7.5)   | ( 100.0)      |
|                                  | ( 1.3)                   | ( 0.7)                 | ( 1.4)                  | ( 1.8)        | ( 1.7)        | ( 2.6)     | ( 1.3)   | ( 1.5)     | ( 0.7)   | ( 1.4)        |
| Total                            | 1,074                    | 2,207                  | 2,919                   | 1,841         | 2,151         | 2,119      | 2,327    | 3,428      | 3,076    | 21,140        |
|                                  | ( 5.1)                   | ( 10.4)                | ( 13.8)                 | ( 8.7)        | ( 10.2)       | ( 10.0)    | ( 11.0)  | ( 16.2)    | ( 14.5)  | ( 100.0)      |
|                                  | ( 100.0)                 | ( 100.0)               | ( 100.0)                | ( 100.0)      | ( 100.0)      | ( 100.0)   | ( 100.0) | ( 100.0)   | ( 100.0) | ( 100.0)      |
| <b>Primary heating provision</b> |                          |                        |                         |               |               |            |          |            |          |               |
| Central heating                  | 991                      | 1,866                  | 2,441                   | 1,642         | 1,794         | 1,705      | 2,015    | 3,012      | 2,710    | 18,177        |
|                                  | ( 5.5)                   | ( 10.3)                | ( 13.4)                 | ( 9.0)        | ( 9.9)        | ( 9.4)     | ( 11.1)  | ( 16.6)    | ( 14.9)  | ( 100.0)      |
|                                  | ( 92.3)                  | ( 84.6)                | ( 83.6)                 | ( 89.2)       | ( 83.4)       | ( 80.5)    | ( 86.6)  | ( 87.9)    | ( 88.1)  | ( 86.0)       |
| Programmable                     | 51                       | 110                    | 192                     | 130           | 152           | 272        | 219      | 277        | 198      | 1,600         |
|                                  | ( 3.2)                   | ( 6.9)                 | ( 12.0)                 | ( 8.1)        | ( 9.5)        | ( 17.0)    | ( 13.7)  | ( 17.3)    | ( 12.4)  | ( 100.0)      |
|                                  | ( 4.8)                   | ( 5.0)                 | ( 6.6)                  | ( 7.1)        | ( 7.1)        | ( 12.8)    | ( 9.4)   | ( 8.1)     | ( 6.4)   | ( 7.6)        |
| Fixed heaters                    | 30                       | 224                    | 278                     | 67            | 199           | 135        | 89       | 129        | 153      | 1,305         |
|                                  | ( 2.3)                   | ( 17.2)                | ( 21.3)                 | ( 5.1)        | ( 15.2)       | ( 10.4)    | ( 6.8)   | ( 9.9)     | ( 11.8)  | ( 100.0)      |
|                                  | ( 2.8)                   | ( 10.2)                | ( 9.5)                  | ( 3.7)        | ( 9.2)        | ( 6.4)     | ( 3.8)   | ( 3.8)     | ( 5.0)   | ( 6.2)        |
| Non-fixed heaters                | 2                        | 6                      | 7                       | 2             | 6             | 6          | 4        | 10         | 14       | 58            |
|                                  | ( 2.7)                   | ( 10.8)                | ( 12.6)                 | ( 2.7)        | ( 11.1)       | ( 10.7)    | ( 7.1)   | ( 17.4)    | ( 24.9)  | ( 100.0)      |
|                                  | ( 0.1)                   | ( 0.3)                 | ( 0.3)                  | ( 0.1)        | ( 0.3)        | ( 0.3)     | ( 0.2)   | ( 0.3)     | ( 0.5)   | ( 0.3)        |
| Total                            | 1,074                    | 2,207                  | 2,919                   | 1,841         | 2,151         | 2,119      | 2,327    | 3,428      | 3,076    | 21,140        |
|                                  | ( 5.1)                   | ( 10.4)                | ( 13.8)                 | ( 8.7)        | ( 10.2)       | ( 10.0)    | ( 11.0)  | ( 16.2)    | ( 14.5)  | ( 100.0)      |
|                                  | ( 100.0)                 | ( 100.0)               | ( 100.0)                | ( 100.0)      | ( 100.0)      | ( 100.0)   | ( 100.0) | ( 100.0)   | ( 100.0) | ( 100.0)      |

base: All dwellings  
(grossed by dwellings).

Table 1.6: Space heating provision by age of HRP

count(000s), (row%), (column%)

| Full Heating Provision           | Age of household reference person (HRP). |         |         |         |         |         |         | All households |         |
|----------------------------------|--|---------|---------|---------|---------|---------|---------|----------------|---------|
|                                  | up to 25                                 | 26-35   | 36-50   | 51-65   | 66-75   | 76-85   | over 85 |                | Unknown |
| None                             | 3  | 1       | 7       | 0       | 0       | 0       | 0       | 0              | 11      |
|                                  | ( 25.3)                                  | ( 7.5)  | ( 63.3) | ( 3.9)  | ( 0.0)  | ( 0.0)  | ( 0.0)  | ( 0.0)         | (100.0) |
|                                  | ( 0.3)                                   | ( 0.0)  | ( 0.1)  | ( 0.0)  | ( 0.0)  | ( 0.0)  | ( 0.0)  | ( 0.0)         | ( 0.1)  |
| Other only                       | 82                                       | 189     | 305     | 272     | 184     | 146     | 39      | 0              | 1,216   |
|                                  | ( 6.7)                                   | ( 15.5) | ( 25.1) | ( 22.4) | ( 15.1) | ( 12.0) | ( 3.2)  | ( 0.0)         | (100.0) |
|                                  | ( 7.7)                                   | ( 5.1)  | ( 5.0)  | ( 5.5)  | ( 7.1)  | ( 8.2)  | ( 10.3) | ( 0.0)         | ( 5.9)  |
| Programmable only                | 79                                       | 87      | 63      | 50      | 30      | 42      | 9       | 0              | 359     |
|                                  | ( 21.9)                                  | ( 24.3) | ( 17.4) | ( 13.9) | ( 8.5)  | ( 11.6) | ( 2.5)  | ( 0.0)         | (100.0) |
|                                  | ( 7.4)                                   | ( 2.3)  | ( 1.0)  | ( 1.0)  | ( 1.2)  | ( 2.3)  | ( 2.4)  | ( 0.0)         | ( 1.8)  |
| Programmable + other             | 90                                       | 225     | 245     | 222     | 193     | 191     | 49      | 0              | 1,215   |
|                                  | ( 7.4)                                   | ( 18.5) | ( 20.1) | ( 18.3) | ( 15.9) | ( 15.7) | ( 4.0)  | ( 0.0)         | (100.0) |
|                                  | ( 8.5)                                   | ( 6.1)  | ( 4.1)  | ( 4.5)  | ( 7.4)  | ( 10.7) | ( 13.0) | ( 0.0)         | ( 5.9)  |
| CH only                          | 382                                      | 1,181   | 1,408   | 837     | 410     | 311     | 62      | 0              | 4,593   |
|                                  | ( 8.3)                                   | ( 25.7) | ( 30.7) | ( 18.2) | ( 8.9)  | ( 6.8)  | ( 1.4)  | ( 0.0)         | (100.0) |
|                                  | ( 36.0)                                  | ( 31.7) | ( 23.3) | ( 16.9) | ( 15.8) | ( 17.4) | ( 16.7) | (100.0)        | ( 22.4) |
| CH + other                       | 406                                      | 1,987   | 3,914   | 3,471   | 1,702   | 1,053   | 200     | 0              | 12,733  |
|                                  | ( 3.2)                                   | ( 15.6) | ( 30.7) | ( 27.3) | ( 13.4) | ( 8.3)  | ( 1.6)  | ( 0.0)         | (100.0) |
|                                  | ( 38.3)                                  | ( 53.4) | ( 64.8) | ( 70.2) | ( 65.7) | ( 59.1) | ( 53.5) | ( 0.0)         | ( 62.1) |
| CH + programmable                | 6  | 13      | 24      | 22      | 12      | 5       | 4       | 0              | 86      |
|                                  | ( 6.9)                                   | ( 15.0) | ( 27.7) | ( 26.0) | ( 14.2) | ( 6.1)  | ( 4.1)  | ( 0.0)         | (100.0) |
|                                  | ( 0.6)                                   | ( 0.3)  | ( 0.4)  | ( 0.5)  | ( 0.5)  | ( 0.3)  | ( 0.9)  | ( 0.0)         | ( 0.4)  |
| CH + programmable + other        | 14                                       | 37      | 72      | 67      | 60      | 34      | 12      | 0              | 296     |
|                                  | ( 4.7)                                   | ( 12.5) | ( 24.5) | ( 22.7) | ( 20.1) | ( 11.4) | ( 4.0)  | ( 0.0)         | (100.0) |
|                                  | ( 1.3)                                   | ( 1.0)  | ( 1.2)  | ( 1.4)  | ( 2.3)  | ( 1.9)  | ( 3.2)  | ( 0.0)         | ( 1.4)  |
| Total                            | 1,062                                    | 3,720   | 6,038   | 4,943   | 2,591   | 1,781   | 375     | 0              | 20,510  |
|                                  | ( 5.2)                                   | ( 18.1) | ( 29.4) | ( 24.1) | ( 12.6) | ( 8.7)  | ( 1.8)  | ( 0.0)         | (100.0) |
|                                  | (100.0)                                  | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0)        | (100.0) |
| <b>Primary heating provision</b> |  |         |         |         |         |         |         |                |         |
| Central heating                  | 809                                      | 3,218   | 5,419   | 4,397   | 2,184   | 1,402   | 277     | 0              | 17,706  |
|                                  | ( 4.6)                                   | ( 18.2) | ( 30.6) | ( 24.8) | ( 12.3) | ( 7.9)  | ( 1.6)  | ( 0.0)         | (100.0) |
|                                  | ( 76.2)                                  | ( 86.5) | ( 89.7) | ( 88.9) | ( 84.3) | ( 78.7) | ( 74.0) | (100.0)        | ( 86.3) |
| Programmable                     | 166                                      | 295     | 303     | 265     | 219     | 228     | 58      | 0              | 1,534   |
|                                  | ( 10.8)                                  | ( 19.2) | ( 19.7) | ( 17.3) | ( 14.3) | ( 14.9) | ( 3.8)  | ( 0.0)         | (100.0) |
|                                  | ( 15.7)                                  | ( 7.9)  | ( 5.0)  | ( 5.4)  | ( 8.4)  | ( 12.8) | ( 15.5) | ( 0.0)         | ( 7.5)  |
| Fixed heaters                    | 80                                       | 199     | 306     | 264     | 182     | 147     | 37      | 0              | 1,214   |
|                                  | ( 6.6)                                   | ( 16.4) | ( 25.2) | ( 21.7) | ( 15.0) | ( 12.1) | ( 3.1)  | ( 0.0)         | (100.0) |
|                                  | ( 7.6)                                   | ( 5.3)  | ( 5.1)  | ( 5.3)  | ( 7.0)  | ( 8.2)  | ( 9.9)  | ( 0.0)         | ( 5.9)  |
| Non-fixed heaters                | 6  | 8       | 11      | 18      | 7       | 4       | 2       | 0              | 56      |
|                                  | ( 11.2)                                  | ( 13.8) | ( 19.1) | ( 31.9) | ( 12.8) | ( 7.1)  | ( 4.0)  | ( 0.0)         | (100.0) |
|                                  | ( 0.6)                                   | ( 0.2)  | ( 0.2)  | ( 0.4)  | ( 0.3)  | ( 0.2)  | ( 0.6)  | ( 0.0)         | ( 0.3)  |
| Total                            | 1,062                                    | 3,720   | 6,038   | 4,943   | 2,591   | 1,781   | 375     | 0              | 20,510  |
|                                  | ( 5.2)                                   | ( 18.1) | ( 29.4) | ( 24.1) | ( 12.6) | ( 8.7)  | ( 1.8)  | ( 0.0)         | (100.0) |
|                                  | (100.0)                                  | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0)        | (100.0) |

base: All households  
(grossed by households).

Table 1.7: Space heating provision by household type

count(000s), (row%), (column%)

| Full Heating Provision           | Type of household                         |   |                                   |                                       |                              |                     |                       | All households |
|----------------------------------|---|---|-----------------------------------|---------------------------------------|------------------------------|---------------------|-----------------------|----------------|
|                                  | Couple, under 60: no dependent child(ren) | Couple, 60 or over: no dependent child(ren) | Couple: with dependent child(ren) | lone parent with dependent child(ren) | other multi-person household | one person under 60 | one person 60 or over |                |
| None                             | 1   | 0   | 1                                 | 0                                     | 1                            | 8                   | 0                     | 11             |
|                                  | ( 13.0)                                   | ( 0.0)                                      | ( 11.5)                           | ( 0.0)                                | ( 7.0)                       | ( 68.5)             | ( 0.0)                | ( 100.0)       |
|                                  | ( 0.0)                                    | ( 0.0)                                      | ( 0.0)                            | ( 0.0)                                | ( 0.1)                       | ( 0.3)              | ( 0.0)                | ( 0.1)         |
| Other only                       | 171                                       | 183   | 174                               | 110                                   | 107                          | 231                 | 239                   | 1,216          |
|                                  | ( 14.0)                                   | ( 15.1)                                     | ( 14.3)                           | ( 9.1)                                | ( 8.8)                       | ( 19.0)             | ( 19.7)               | ( 100.0)       |
|                                  | ( 4.2)                                    | ( 6.3)                                      | ( 3.5)                            | ( 6.9)                                | ( 7.4)                       | ( 9.6)              | ( 7.8)                | ( 5.9)         |
| Programmable only                | 58  | 32  | 45                                | 39                                    | 23                           | 91                  | 71                    | 359            |
|                                  | ( 16.0)                                   | ( 8.8)                                      | ( 12.6)                           | ( 10.8)                               | ( 6.4)                       | ( 25.4)             | ( 19.8)               | ( 100.0)       |
|                                  | ( 1.4)                                    | ( 1.1)                                      | ( 0.9)                            | ( 2.4)                                | ( 1.6)                       | ( 3.8)              | ( 2.3)                | ( 1.8)         |
| Programmable + other             | 170                                       | 186   | 126                               | 79                                    | 80                           | 270                 | 304                   | 1,215          |
|                                  | ( 14.0)                                   | ( 15.3)                                     | ( 10.4)                           | ( 6.5)                                | ( 6.6)                       | ( 22.2)             | ( 25.0)               | ( 100.0)       |
|                                  | ( 4.2)                                    | ( 6.3)                                      | ( 2.5)                            | ( 4.9)                                | ( 5.5)                       | ( 11.3)             | ( 9.9)                | ( 5.9)         |
| CH only                          | 841                                       | 403   | 1,174                             | 528                                   | 395                          | 666                 | 586                   | 4,593          |
|                                  | ( 18.3)                                   | ( 8.8)                                      | ( 25.6)                           | ( 11.5)                               | ( 8.6)                       | ( 14.5)             | ( 12.8)               | ( 100.0)       |
|                                  | ( 20.6)                                   | ( 13.8)                                     | ( 23.6)                           | ( 33.1)                               | ( 27.4)                      | ( 27.8)             | ( 19.0)               | ( 22.4)        |
| CH + other                       | 2,783                                     | 2,055                                       | 3,383                             | 827                                   | 802                          | 1,092               | 1,792                 | 12,733         |
|                                  | ( 21.9)                                   | ( 16.1)                                     | ( 26.6)                           | ( 6.5)                                | ( 6.3)                       | ( 8.6)              | ( 14.1)               | ( 100.0)       |
|                                  | ( 68.1)                                   | ( 70.3)                                     | ( 67.8)                           | ( 51.8)                               | ( 55.6)                      | ( 45.6)             | ( 58.3)               | ( 62.1)        |
| CH + programmable                | 15  | 4   | 14                                | 4                                     | 12                           | 15                  | 23                    | 86             |
|                                  | ( 17.5)                                   | ( 4.6)                                      | ( 16.2)                           | ( 4.6)                                | ( 13.4)                      | ( 16.9)             | ( 26.9)               | ( 100.0)       |
|                                  | ( 0.4)                                    | ( 0.1)                                      | ( 0.3)                            | ( 0.2)                                | ( 0.8)                       | ( 0.6)              | ( 0.8)                | ( 0.4)         |
| CH + programmable + other        | 46  | 63  | 67                                | 10                                    | 23                           | 25                  | 62                    | 296            |
|                                  | ( 15.7)                                   | ( 21.1)                                     | ( 22.7)                           | ( 3.5)                                | ( 7.8)                       | ( 8.3)              | ( 20.8)               | ( 100.0)       |
|                                  | ( 1.1)                                    | ( 2.1)                                      | ( 1.4)                            | ( 0.7)                                | ( 1.6)                       | ( 1.0)              | ( 2.0)                | ( 1.4)         |
| Total                            | 4,085                                     | 2,925                                       | 4,986                             | 1,597                                 | 1,443                        | 2,397               | 3,077                 | 20,510         |
|                                  | ( 19.9)                                   | ( 14.3)                                     | ( 24.3)                           | ( 7.8)                                | ( 7.0)                       | ( 11.7)             | ( 15.0)               | ( 100.0)       |
|                                  | ( 100.0)                                  | ( 100.0)                                    | ( 100.0)                          | ( 100.0)                              | ( 100.0)                     | ( 100.0)            | ( 100.0)              | ( 100.0)       |
| <b>Primary heating provision</b> |   |   |                                   |                                       |                              |                     |                       |                |
| Central heating                  | 3,684                                     | 2,524                                       | 4,639                             | 1,369                                 | 1,231                        | 1,797               | 2,461                 | 17,706         |
|                                  | ( 20.8)                                   | ( 14.3)                                     | ( 26.2)                           | ( 7.7)                                | ( 7.0)                       | ( 10.1)             | ( 13.9)               | ( 100.0)       |
|                                  | ( 90.2)                                   | ( 86.3)                                     | ( 93.0)                           | ( 85.7)                               | ( 85.3)                      | ( 75.0)             | ( 80.0)               | ( 86.3)        |
| Programmable                     | 217                                       | 211   | 168                               | 116                                   | 98                           | 355                 | 369                   | 1,534          |
|                                  | ( 14.1)                                   | ( 13.7)                                     | ( 11.0)                           | ( 7.6)                                | ( 6.4)                       | ( 23.1)             | ( 24.1)               | ( 100.0)       |
|                                  | ( 5.3)                                    | ( 7.2)                                      | ( 3.4)                            | ( 7.3)                                | ( 6.8)                       | ( 14.8)             | ( 12.0)               | ( 7.5)         |
| Fixed heaters                    | 175                                       | 179   | 173                               | 109                                   | 106                          | 235                 | 238                   | 1,214          |
|                                  | ( 14.4)                                   | ( 14.7)                                     | ( 14.3)                           | ( 8.9)                                | ( 8.7)                       | ( 19.3)             | ( 19.6)               | ( 100.0)       |
|                                  | ( 4.3)                                    | ( 6.1)                                      | ( 3.5)                            | ( 6.8)                                | ( 7.3)                       | ( 9.8)              | ( 7.7)                | ( 5.9)         |
| Non-fixed heaters                | 9   | 11  | 6                                 | 3                                     | 7                            | 11                  | 9                     | 56             |
|                                  | ( 16.4)                                   | ( 20.1)                                     | ( 10.2)                           | ( 5.9)                                | ( 12.8)                      | ( 19.0)             | ( 15.6)               | ( 100.0)       |
|                                  | ( 0.2)                                    | ( 0.4)                                      | ( 0.1)                            | ( 0.2)                                | ( 0.5)                       | ( 0.4)              | ( 0.3)                | ( 0.3)         |
| Total                            | 4,085                                     | 2,925                                       | 4,986                             | 1,597                                 | 1,443                        | 2,397               | 3,077                 | 20,510         |
|                                  | ( 19.9)                                   | ( 14.3)                                     | ( 24.3)                           | ( 7.8)                                | ( 7.0)                       | ( 11.7)             | ( 15.0)               | ( 100.0)       |
|                                  | ( 100.0)                                  | ( 100.0)                                    | ( 100.0)                          | ( 100.0)                              | ( 100.0)                     | ( 100.0)            | ( 100.0)              | ( 100.0)       |

base: All households

(grossed by households).

Table 1.8: Space heating provision by household income quintile.

count(000s), (row%), (column%)

| Full Heating Provision           | Income Quintile              |              |              |              |                               | All Households |
|----------------------------------|------------------------------|--------------|--------------|--------------|-------------------------------|----------------|
|                                  | 1st quintile<br>(lowest 20%) | 2nd quintile | 3rd quintile | 4th quintile | 5th quintile<br>(highest 20%) |                |
| None                             | 4                            | 4            | 1            | 1            | 2                             | 11             |
|                                  | ( 37.3)                      | ( 33.5)      | ( 7.5)       | ( 7.0)       | ( 14.7)                       | ( 100.0)       |
|                                  | ( 0.1)                       | ( 0.1)       | ( 0.0)       | ( 0.0)       | ( 0.0)                        | ( 0.1)         |
| Other only                       | 429                          | 343          | 238          | 146          | 60                            | 1,216          |
|                                  | ( 35.3)                      | ( 28.2)      | ( 19.6)      | ( 12.0)      | ( 4.9)                        | ( 100.0)       |
|                                  | ( 10.5)                      | ( 8.4)       | ( 5.8)       | ( 3.6)       | ( 1.5)                        | ( 5.9)         |
| Programmable only                | 90                           | 94           | 87           | 45           | 43                            | 359            |
|                                  | ( 25.1)                      | ( 26.2)      | ( 24.2)      | ( 12.5)      | ( 11.9)                       | ( 100.0)       |
|                                  | ( 2.2)                       | ( 2.3)       | ( 2.1)       | ( 1.1)       | ( 1.0)                        | ( 1.8)         |
| Programmable + other             | 381                          | 318          | 270          | 158          | 88                            | 1,215          |
|                                  | ( 31.3)                      | ( 26.1)      | ( 22.2)      | ( 13.0)      | ( 7.3)                        | ( 100.0)       |
|                                  | ( 9.3)                       | ( 7.7)       | ( 6.6)       | ( 3.9)       | ( 2.2)                        | ( 5.9)         |
| CH only                          | 936                          | 846          | 886          | 1,004        | 921                           | 4,593          |
|                                  | ( 20.4)                      | ( 18.4)      | ( 19.3)      | ( 21.9)      | ( 20.1)                       | ( 100.0)       |
|                                  | ( 22.8)                      | ( 20.6)      | ( 21.6)      | ( 24.5)      | ( 22.5)                       | ( 22.4)        |
| CH + other                       | 2,184                        | 2,400        | 2,560        | 2,650        | 2,940                         | 12,733         |
|                                  | ( 17.2)                      | ( 18.8)      | ( 20.1)      | ( 20.8)      | ( 23.1)                       | ( 100.0)       |
|                                  | ( 53.2)                      | ( 58.5)      | ( 62.4)      | ( 64.6)      | ( 71.7)                       | ( 62.1)        |
| CH + programmable                | 28                           | 14           | 14           | 17           | 14                            | 86             |
|                                  | ( 32.5)                      | ( 15.8)      | ( 16.1)      | ( 19.8)      | ( 15.9)                       | ( 100.0)       |
|                                  | ( 0.7)                       | ( 0.3)       | ( 0.3)       | ( 0.4)       | ( 0.3)                        | ( 0.4)         |
| CH + programmable + other        | 50                           | 85           | 46           | 81           | 34                            | 296            |
|                                  | ( 16.9)                      | ( 28.7)      | ( 15.5)      | ( 27.5)      | ( 11.4)                       | ( 100.0)       |
|                                  | ( 1.2)                       | ( 2.1)       | ( 1.1)       | ( 2.0)       | ( 0.8)                        | ( 1.4)         |
| Total                            | 4,102                        | 4,103        | 4,102        | 4,102        | 4,101                         | 20,510         |
|                                  | ( 20.0)                      | ( 20.0)      | ( 20.0)      | ( 20.0)      | ( 20.0)                       | ( 100.0)       |
|                                  | ( 100.0)                     | ( 100.0)     | ( 100.0)     | ( 100.0)     | ( 100.0)                      | ( 100.0)       |
| <b>Primary heating provision</b> |                              |              |              |              |                               |                |
| Central heating                  | 3,196                        | 3,344        | 3,504        | 3,752        | 3,908                         | 17,706         |
|                                  | ( 18.1)                      | ( 18.9)      | ( 19.8)      | ( 21.2)      | ( 22.1)                       | ( 100.0)       |
|                                  | ( 77.9)                      | ( 81.5)      | ( 85.4)      | ( 91.5)      | ( 95.3)                       | ( 86.3)        |
| Programmable                     | 460                          | 409          | 345          | 192          | 128                           | 1,534          |
|                                  | ( 30.0)                      | ( 26.6)      | ( 22.5)      | ( 12.5)      | ( 8.3)                        | ( 100.0)       |
|                                  | ( 11.2)                      | ( 10.0)      | ( 8.4)       | ( 4.7)       | ( 3.1)                        | ( 7.5)         |
| Fixed heaters                    | 429                          | 327          | 239          | 154          | 65                            | 1,214          |
|                                  | ( 35.3)                      | ( 26.9)      | ( 19.7)      | ( 12.7)      | ( 5.4)                        | ( 100.0)       |
|                                  | ( 10.5)                      | ( 8.0)       | ( 5.8)       | ( 3.8)       | ( 1.6)                        | ( 5.9)         |
| Non-fixed heaters                | 16                           | 23           | 13           | 3            | 0                             | 56             |
|                                  | ( 29.4)                      | ( 41.6)      | ( 23.2)      | ( 5.8)       | ( 0.0)                        | ( 100.0)       |
|                                  | ( 0.4)                       | ( 0.6)       | ( 0.3)       | ( 0.1)       | ( 0.0)                        | ( 0.3)         |
| Total                            | 4,102                        | 4,103        | 4,102        | 4,102        | 4,101                         | 20,510         |
|                                  | ( 20.0)                      | ( 20.0)      | ( 20.0)      | ( 20.0)      | ( 20.0)                       | ( 100.0)       |
|                                  | ( 100.0)                     | ( 100.0)     | ( 100.0)     | ( 100.0)     | ( 100.0)                      | ( 100.0)       |

base: All households  
(grossed by households).

Table 1.9: Type of central heating system in use in 2001 and 1996 (percentages of all dwellings with central heating)

| <b>Central heating system</b>                | <b>2001</b>                                    | <b>1996</b>                                    |
|--|--|--|
|  | <b>% of dwellings with this type of system</b> | <b>% of dwellings with this type of system</b> |
| Mains gas water borne single purpose boiler  | 76.4%  | 71.3%  |
| Mains gas water borne other e.g. back boiler | 12.6%  | 15.8%  |
| Mains gas ducted air                         | 2.1%   | 3.4%   |
| LPG bottled gas                              | 0.5%   | 0.4%   |
| Solid fuel single purpose boiler             | 0.3%   | 0.5%   |
| Solid fuel other e.g. back boiler            | 1.6%   | 2.4%   |
| Fuel oil                                     | 3.9%   | 3.5%   |
| Communal or CHP                              | 2.0%   | 1.5%   |
| Other Central Heating System                 | 0.7%   | 1.2%   |
| <b>Total</b>                                 | <b>100.0%</b>                                  | <b>100.0%</b>                                  |

base: All dwellings with central heating  
(grossed by dwellings).



Table 1.10: Type of central heating by tenure (percentage of dwellings with central heating within each tenure)

| Type of central heating system               | Tenure:        |                |        |        |             |
|--|----------------|----------------|--------|--------|-------------|
|  | Owner occupied | Private rented | LA     | RSL    | All tenures |
| Mains gas water borne single purpose boiler  | 80.0%          | 77.2%          | 56.9%  | 73.0%  | 76.4%       |
| Mains gas water borne other e.g. back boiler | 10.5%          | 9.6%           | 25.4%  | 14.2%  | 12.6%       |
| Mains gas ducted air                         | 1.7%           | 1.8%           | 4.7%   | 1.9%   | 2.1%        |
| LPG bottled gas                              | 0.6%           | 0.3%           |        |        | 0.5%        |
| Solid fuel single purpose boiler             | 0.2%           | 0.6%           | 0.2%   | 0.1%   | 0.3%        |
| Solid fuel other e.g. back boiler            | 1.1%           | 3.0%           | 3.6%   | 1.6%   | 1.6%        |
| Fuel oil                                     | 4.8%           | 4.1%           | 0.5%   | 0.3%   | 3.9%        |
| Electric boiler                              | 0.2%           | 0.1%           | 0.5%   | 0.7%   | 0.3%        |
| Other non-electric boiler                    | 0.1%           |                | 0.1%   | 0.2%   | 0.1%        |
| Electric floor/ceiling                       | 0.3%           | 0.3%           | 0.9%   | 0.4%   | 0.4%        |
| Communal or CHP                              | 0.5%           | 3.0%           | 7.3%   | 7.5%   | 2.0%        |
| Total  | 100.0%         | 100.0%         | 100.0% | 100.0% | 100.0%      |

base: All dwellings with central heating  
(grossed by dwellings).

Table 1.11: Use of 'Combi' type systems for central heating and hot water (percentages by tenure and dwelling type)

| <b>Type of central heating /<br/>water system</b> | <b>Tenure</b>             |                       |           |            |                    |
|---|---------------------------|-----------------------|-----------|------------|--------------------|
|   | <b>Owner<br/>occupied</b> | <b>Private rented</b> | <b>LA</b> | <b>RSL</b> | <b>All tenures</b> |
| Cylinder  | 73.8%                     | 61.9%                 | 79.2%     | 70.4%      | 73.3%              |
| Combi   | 26.2%                     | 38.1%                 | 20.8%     | 29.6%      | 26.7%              |

| <b>Type of central heating /<br/>water system</b> | <b>Building Type</b> |                       |                      |                       |                  |
|---|----------------------|-----------------------|----------------------|-----------------------|------------------|
|   | <b>house</b>         | <b>converted flat</b> | <b>low rise flat</b> | <b>high rise flat</b> | <b>All types</b> |
| Cylinder  | 75.5%                | 42.5%                 | 64.4%                | 63.3%                 | 73.3%            |
| Combi   | 24.5%                | 57.5%                 | 35.6%                | 36.7%                 | 26.7%            |

base: All dwellings with combined central heating and hot water system  
(grossed by dwellings).

Table 1.12: Age of central heating systems in 2001 (age profile in percentages for each type of central heating system)

| Type Of Central heating system               | <u>HEAT SOURCE</u>            |       |       |       |       |       | Total  | <u>CH DISTRIBUTION SYSTEM</u> |       |       |       |       |       | Total  |
|--|-------------------------------|-------|-------|-------|-------|-------|--------|-------------------------------|-------|-------|-------|-------|-------|--------|
|  | Age of system in years (2001) |       |       |       |       |       |        | Age of system in years (2001) |       |       |       |       |       |        |
|  | <3                            | 3-5   | 6-10  | 11-15 | 16-25 | >25   |        | <3                            | 3-5   | 6-10  | 11-15 | 16-25 | >25   |        |
| Mains gas water borne single purpose boiler  | 17.5%                         | 16.0% | 21.0% | 12.6% | 13.6% | 19.3% | 100.0% | 8.2%                          | 10.1% | 16.1% | 13.7% | 22.9% | 29.0% | 100.0% |
| Mains gas water borne other e.g. back boiler | 7.2%                          | 11.6% | 23.1% | 19.4% | 28.0% | 10.7% | 100.0% | 2.0%                          | 5.0%  | 16.7% | 20.1% | 37.1% | 19.0% | 100.0% |
| Mains gas ducted air                         | 4.1%                          | 7.4%  | 6.8%  | 8.6%  | 10.7% | 62.4% | 100.0% | 0.5%                          | 1.0%  | 2.0%  | 0.6%  | 9.2%  | 86.7% | 100.0% |
| LPG bottled gas                              | 19.5%                         | 17.8% | 15.5% | 21.4% | 10.8% | 15.1% | 100.0% | 9.9%                          | 10.2% | 17.9% | 22.0% | 17.5% | 22.5% | 100.0% |
| Solid fuel single purpose boiler             | 4.6%                          | 3.8%  | 19.9% | 17.1% | 30.8% | 23.7% | 100.0% | 4.8%                          | 3.2%  | 5.7%  | 16.4% | 48.5% | 21.4% | 100.0% |
| Solid fuel other e.g. back boiler            | 2.6%                          | 8.7%  | 16.4% | 19.9% | 23.8% | 28.6% | 100.0% | 1.1%                          | 7.9%  | 15.0% | 15.4% | 29.9% | 30.6% | 100.0% |
| Fuel oil                                     | 17.4%                         | 15.8% | 20.1% | 12.4% | 13.7% | 20.7% | 100.0% | 7.8%                          | 7.5%  | 14.1% | 13.6% | 20.0% | 37.1% | 100.0% |
| Electric boiler                              | 20.7%                         | 1.4%  | 28.3% |       | 7.8%  | 41.8% | 100.0% | 11.6%                         | 1.2%  | 19.4% | 1.6%  | 8.6%  | 57.6% | 100.0% |
| Other non-electric boiler                    |                               |       |       | 34.9% | 40.2% | 24.9% | 100.0% | 9.8%                          |       |       | 52.5% | 22.7% | 15.0% | 100.0% |
| Electric floor/ceiling                       |                               |       |       | 13.4% |       | 86.6% | 100.0% |                               |       |       | 7.1%  |       | 92.9% | 100.0% |
| Communal or CHP                              | 7.4%                          | 2.1%  | 2.9%  | 3.9%  | 19.1% | 64.5% | 100.0% | 3.7%                          | 1.5%  | 2.0%  | 5.8%  | 17.1% | 69.7% | 100.0% |
| All  | 15.6%                         | 15.0% | 20.7% | 13.5% | 15.7% | 19.5% | 100.0% | 7.1%                          | 9.0%  | 15.6% | 14.3% | 24.4% | 29.5% | 100.0% |

base: All dwellings with central heating  
(grossed by dwellings).

Table 1.13: The 'need' for renewal of existing central heating, and the scope installing a gas system (percentages of the 21.1 million dwellings within the stock)

| Form of heating  | House type: Gas availability                 | CH boiler < 15 years old or no CH | CH boiler > 15 years old |
|--|--|-----------------------------------|--------------------------|
| Central heating  | House : no gas                               | 4.2%                              | 1.0%                     |
|  | Converted flat : no gas                      | 0.1%                              | 0.1%                     |
|  | Low rise purpose built flat : no gas         | 1.1%                              | 0.2%                     |
|  | High rise purpose built flat : no gas        | 0.3%                              | 0.0%                     |
|  | House : gas available                        | 54.4%                             | 13.0%                    |
|  | Converted flat : gas available               | 1.8%                              | 0.4%                     |
|  | Low rise purpose built flat : gas available  | 7.7%                              | 1.1%                     |
|  | High rise purpose built flat : gas available | 0.7%                              | 0.0%                     |
| No central heating                                       | House : no gas                               | 3.3%                              |                          |
|  | Converted flat : no gas                      | 0.5%                              |                          |
|  | Low rise purpose built flat : no gas         | 2.7%                              |                          |
|  | High rise purpose built flat : no gas        | 0.4%                              |                          |
|  | House : gas available                        | 5.4%                              |                          |
|  | Converted flat : gas available               | 0.4%                              |                          |
|  | Low rise purpose built flat : gas available  | 1.2%                              |                          |
|  | High rise purpose built flat : gas available | 0.1%                              |                          |
| <b>No gas supply, and with old central heating</b>       |  |                                   |                          |
| <b>Candidates for upgrading / installation of gas CH</b> |  |                                   |                          |

| Current situation                     | % of dwellings |
|---------------------------------------|----------------|
| Current 'modern' central heating      | 70.3%          |
| Older central heating : gas available | 14.4%          |
| Older central heating : no gas supply | 1.3%           |
| No central heating : gas available    | 7.1%           |
| No central heating : no gas supply    | 6.9%           |

base: All dwellings.  
(grossed by dwellings).

Table 1.14: Provision of controls in central heating systems in 2001 (percentage of each type of system with given controls)

| <i>Type of central heating system</i>        | <i>overall on/off</i> | <i>central timer</i> | <i>room thermostat</i> | <i>radiator controls (TRVs)</i> | <i>room thermostat or TRVs</i> |
|--|-----------------------|----------------------|------------------------|---------------------------------|--------------------------------|
| Mains gas water borne single purpose boiler  | 98.8%                 | 98.2%                | 73.1%                  | 37.7%                           | 89.4%                          |
| Mains gas water borne other e.g. back boiler | 99.2%                 | 95.1%                | 67.0%                  | 22.4%                           | 76.9%                          |
| Mains gas ducted air                         | 98.7%                 | 90.3%                | 90.1%                  | 0.2%                            | 90.1%                          |
| LPG bottled gas                              | 100.0%                | 98.5%                | 69.3%                  | 40.1%                           | 83.9%                          |
| Solid fuel single purpose boiler             | 85.8%                 | 61.5%                | 42.0%                  | 16.0%                           | 56.4%                          |
| Solid fuel other e.g. back boiler            | 50.3%                 | 16.2%                | 10.9%                  | 14.1%                           | 22.4%                          |
| Fuel oil                                     | 98.7%                 | 95.1%                | 76.0%                  | 42.1%                           | 91.2%                          |
| Electric boiler                              | 98.3%                 | 79.6%                | 65.2%                  | 15.1%                           | 66.4%                          |
| Other non-electric boiler                    | 100.0%                | 66.0%                | 84.9%                  | 50.7%                           | 91.1%                          |
| Electric floor/ceiling                       | 88.4%                 | 47.6%                | 82.2%                  |                                 | 82.2%                          |
| Communal or CHP                              | 43.0%                 | 31.4%                | 31.3%                  | 38.1%                           | 62.6%                          |

base: All dwellings with central heating  
(grossed by dwellings).

Table 1.15: Characteristics of programmable heating systems (percentages of dwellings with programmable heating)

|  | <b>Type of programmable heating:</b> |                                |                               | <b>All</b> |
|--|--------------------------------------|--------------------------------|-------------------------------|------------|
|  | <i>Programmable gas convector</i>    | <i>Electric storage heater</i> | <i>Electric (non-storage)</i> |            |
| <b>Profile of programmable heating</b> | 2.3%                                 | 93.1%                          | 4.7%                          | 100.0%     |
| <b>Heating profile for dwelling</b>    |                                      |                                |                               |            |
| Programmable only                      | 8.1%                                 | 20.4%                          | 9.1%                          | 19.6%      |
| Programmable + other                   | 49.7%                                | 66.5%                          | 33.5%                         | 64.5%      |
| CH + programmable                      | 22.4%                                | 2.8%                           | 14.6%                         | 3.8%       |
| CH + programmable + other              | 19.8%                                | 10.4%                          | 42.7%                         | 12.1%      |
| All                                    | 100.0%                               | 100.0%                         | 100.0%                        | 100.0%     |

base: All dwellings with programmable heating  
(grossed by dwellings).

Table 1.16: The relationship between gas supply and use of electric storage radiators (percentages of dwellings with storage radiators)

|                         | Percentage of electric storage radiators within each type. |
|-------------------------|--|
| <b>No gas supply</b>    |  |
| House / converted flat  | 38.8%  |
| Flat in low rise block  | 30.7%  |
| Flat in high rise block | 4.8%   |
|                         |  |
| <b>Gas available</b>    |  |
| House / converted flat  | 19.1%  |
| Flat in low rise block  | 5.1%   |
| Flat in high rise block | 1.4%   |
|                         |  |
| All                     | 100.0%   |

base: All dwellings with electric storage radiators.  
(grossed by dwellings).

Table 1.17: Age of programmable heating systems (percentages of dwellings with a given type of programmable heating)

|                            | Age of programmable heating system |       |       |       |       |       | All    |
|----------------------------|------------------------------------|-------|-------|-------|-------|-------|--------|
|                            | 0-2                                | 3-5   | 6-10  | 11-15 | 15-25 | >25   |        |
| Programmable gas convector |                                    | 15.8% | 30.4% | 9.1%  | 24.9% | 19.9% | 100.0% |
| Electric storage heater    | 2.6%                               | 8.8%  | 20.0% | 15.7% | 17.0% | 36.0% | 100.0% |
| Electric (non-storage)     | 14.4%                              | 5.6%  | 29.6% | 6.3%  | 1.8%  | 42.3% | 100.0% |
| All                        | 3.1%                               | 8.8%  | 20.7% | 15.1% | 16.4% | 35.9% | 100.0% |

base: All dwellings with programmable heating  
(grossed by dwellings).



Table 1.18: Characteristics of dwellings with programmable heating (percentages of dwellings within in each subgroup which have programmable heating)

|                                    | <b>Tenure</b>  |                |       |       |            | <b>Dwelling Type</b> |                |               |                |           | <b>Age of head of household</b> |       |       |       |       |       |         |          |
|------------------------------------|----------------|----------------|-------|-------|------------|----------------------|----------------|---------------|----------------|-----------|---------------------------------|-------|-------|-------|-------|-------|---------|----------|
|                                    | Owner occupied | Private rented | LA    | RSL   | All tenure | House                | Converted flat | Low rise flat | High rise flat | All types | Up to 25                        | 26-35 | 36-50 | 51-65 | 66-75 | 76-85 | Over 85 | All ages |
| <b>% with programmable heating</b> | 7.3%           | 18.3%          | 10.5% | 18.4% | 9.6%       | 6.5%                 | 15.3%          | 23.7%         | 33.7%          | 9.6%      | 18.0%                           | 9.8%  | 6.7%  | 7.3%  | 11.4% | 15.3% | 19.6%   | 9.6%     |

base: All dwellings with programmable heating (grossed by dwellings).

Table 1.19: Characteristics of 'other' heating systems (percentages of dwellings with 'other' heating)

| <b>Heating profile for dwelling:</b> | <b>Other heating - type of system</b> |                 |                |                   |                      |                                 |                        |        |
|--------------------------------------|---------------------------------------|-----------------|----------------|-------------------|----------------------|---------------------------------|------------------------|--------|
|                                      | Mains gas                             | Other fixed gas | Electric fires | Electric portable | Solid fuel open fire | Solid fuel stove / space heater | Portable paraffin /LPG | All    |
| Other only                           | 73.3%                                 | 5.0%            | 8.1%           | 4.1%              | 6.8%                 | 2.3%                            | 0.3%                   | 100.0% |
| Programmable + other                 | 16.3%                                 | 2.3%            | 57.4%          | 7.8%              | 11.3%                | 3.0%                            | 1.8%                   | 100.0% |
| CH + other                           | 64.7%                                 | 5.3%            | 11.5%          | 2.2%              | 13.6%                | 2.4%                            | 0.3%                   | 100.0% |
| CH + programmable + other            | 40.0%                                 | 4.6%            | 23.8%          | 4.5%              | 21.8%                | 4.4%                            | 1.0%                   | 100.0% |
| All                                  | 61.1%                                 | 5.0%            | 15.1%          | 2.8%              | 13.0%                | 2.5%                            | 0.4%                   | 100.0% |

base: All dwellings with other heating  
(grossed by dwellings).

Table 1.20: 'Other' heating used in association with central and programmable heating systems.  
(percentages of dwellings with given type of central heating using other heating)

|                                     | Type of heating system                       | Other heating - type of system |                 |                |                   |                      |                                 |                         | All types |
|-------------------------------------|--|--------------------------------|-----------------|----------------|-------------------|----------------------|---------------------------------|-------------------------|-----------|
|                                     |  | Mains gas                      | Other fixed gas | Electric fires | Electric portable | Solid fuel open fire | Solid fuel stove / Space Heater | Portable paraffin / LPG |           |
| <b>CENTRAL HEATING SYSTEMS</b>      | Mains gas water borne single purpose boiler  | 67.4%                          | 4.6%            | 11.7%          | 2.0%              | 12.7%                | 1.4%                            | 0.2%                    | 100.0%    |
|                                     | Mains gas water borne other e.g. back boiler | 85.8%                          | 9.4%            | 1.6%           | 0.7%              | 2.0%                 | 0.2%                            | 0.2%                    | 100.0%    |
|                                     | Mains gas ducted air                         | 31.2%                          | 2.2%            | 46.1%          | 14.0%             | 3.7%                 | 0.8%                            | 1.9%                    | 100.0%    |
|                                     | LPG bottled gas                              |                                | 37.5%           | 9.9%           | 2.9%              | 29.5%                | 15.6%                           | 4.6%                    | 100.0%    |
|                                     | Solid fuel single purpose boiler             | 7.8%                           |                 | 17.9%          | 8.4%              | 57.3%                | 8.6%                            |                         | 100.0%    |
|                                     | Solid fuel other e.g. back boiler            | 5.1%                           |                 | 6.9%           | 5.3%              | 43.2%                | 36.1%                           | 3.4%                    | 100.0%    |
|                                     | Fuel oil                                     | 2.4%                           | 3.1%            | 16.8%          | 3.0%              | 60.5%                | 13.2%                           | 0.8%                    | 100.0%    |
|                                     | Electric boiler                              | 14.6%                          | 1.4%            | 37.2%          | 10.8%             | 25.1%                | 10.3%                           | 0.7%                    | 100.0%    |
|                                     | Other non-electric boiler                    | 32.7%                          |                 | 15.1%          | 17.6%             |                      | 34.7%                           |                         | 100.0%    |
|                                     | Electric floor/ceiling                       |                                |                 | 78.5%          | 12.2%             | 6.2%                 |                                 | 3.1%                    | 100.0%    |
|                                     | Communal or CHP                              | 5.1%                           | 1.9%            | 81.4%          | 9.7%              | 1.9%                 |                                 |                         | 100.0%    |
| All                                 | 64.4%  | 5.3%                           | 11.6%           | 2.2%           | 13.7%             | 2.5%                 | 0.3%                            | 100.0%                  |           |
| <b>PROGRAMMABLE HEATING SYSTEMS</b> | Programmable gas convector                   | 80.7%                          |                 | 4.8%           | 14.5%             |                      |                                 |                         | 100.0%    |
|                                     | Electric storage heater                      | 14.5%                          | 2.4%            | 58.3%          | 7.8%              | 11.9%                | 3.2%                            | 1.9%                    | 100.0%    |
|                                     | Electric (non-storage)                       | 43.2%                          |                 | 44.4%          | 8.2%              | 4.3%                 |                                 |                         | 100.0%    |
|                                     | All programmable systems                     | 16.2%                          | 2.3%            | 57.0%          | 7.9%              | 11.6%                | 3.1%                            | 1.8%                    | 100.0%    |

base: All dwellings with Other heating and either central and / or programmable heating (grossed by dwellings).

Table 1.21: Age of 'other' heating provision (percentages of dwellings with a given type of heating)

| <b>Heating Provision</b>      | <b>Age of 'other' heating provision in years</b> |            |             |              |              |               | <b>All</b> |
|-------------------------------|--|------------|-------------|--------------|--------------|---------------|------------|
|                               | <b>0-2</b>                                       | <b>3-5</b> | <b>6-10</b> | <b>11-15</b> | <b>16-25</b> | <b>&gt;25</b> |            |
| Mains gas                     | 10.0%  | 16.8%      | 27.2%       | 15.1%        | 18.4%        | 12.5%         | 100.0%     |
| Other fixed gas               | 7.9%   | 13.6%      | 29.5%       | 13.5%        | 19.6%        | 16.0%         | 100.0%     |
| Electric fires                | 10.8%  | 13.5%      | 23.8%       | 12.3%        | 15.0%        | 24.6%         | 100.0%     |
| Electric portable             | 13.1%  | 20.5%      | 35.6%       | 8.1%         | 15.6%        | 7.2%          | 100.0%     |
| Solid fuel open fire          | 2.2%   | 3.5%       | 6.2%        | 2.8%         | 6.2%         | 79.1%         | 100.0%     |
| Solid fuel stove/space heater | 15.3%  | 16.5%      | 23.7%       | 12.8%        | 12.4%        | 19.3%         | 100.0%     |
| Portable paraffin/LPG         | 22.9%  | 18.9%      | 33.7%       | 8.1%         | 7.2%         | 9.3%          | 100.0%     |
| All types                     | 9.3%   | 14.5%      | 24.2%       | 12.7%        | 16.1%        | 23.3%         | 100.0%     |

base: All dwellings with other heating  
(grossed by dwellings).

Table 2.1: Water heating provision 2001 and 1996 (percent of dwellings overall; and percent of dwellings with a hot water supply)

| Year | % of dwellings with water heating system | <i>Type of water heating system available if any present</i> |                              |                                   |                         |                                      |
|------|--|--|------------------------------|-----------------------------------|-------------------------|--------------------------------------|
|      |  | <i>With central heating</i>                                  | <i>Single purpose boiler</i> | <i>Single purpose back boiler</i> | <i>Immersion heater</i> | <i>Separate instantaneous heater</i> |
| 2001 | 99.5%                                    | 84.5%  | 1.0%                         | 1.1%                              | 58.7%                   | 13.5%                                |
| 1996 | 99.3%                                    | 74.3%  | 3.1%                         | 1.9%                              | 63.9%                   | 12.0%                                |

base: All dwellings  
(grossed by dwellings).

Table 2.2: Water heating provision: combinations of appliances (percent of dwellings)

| Combination of water heating appliances | Year   |        |
|---|--------|--------|
|   | 2001   | 1996   |
| None                                    | 0.5%   | 0.7%   |
| Instantaneous only                      | 1.6%   | 3.7%   |
| Immersion only                          | 11.3%  | 14.8%  |
| Instantaneous + immersion               | 1.7%   | 1.8%   |
| Dedicated boiler only                   | 0.2%   | 2.3%   |
| Boiler + instantaneous                  | 0.0%   | 0.3%   |
| Boiler + immersion                      | 0.4%   | 1.8%   |
| Boiler + instantaneous + immersion      | 0.1%   | 0.1%   |
| With CH only                            | 33.7%  | 26.8%  |
| CH + instantaneous                      | 4.7%   | 2.2%   |
| CH + immersion                          | 39.4%  | 41.4%  |
| CH + immersion + instantaneous          | 5.0%   | 3.8%   |
| CH + boiler                             | 0.6%   | 0.1%   |
| CH + boiler + instantaneous             | 0.1%   | 0.0%   |
| CH + boiler + immersion                 | 0.4%   | 0.2%   |
| CH + boiler + immersion + instantaneous | 0.1%   | 0.1%   |
| All combinations                        | 100.0% | 100.0% |

base: All dwellings  
(grossed by dwellings).

Table 2.3: Water heating provision by tenure

count(000s), (row%), (column%)

| Water Heating Provision               | Tenure         |                |          |          | Total    |
|---------------------------------------|----------------|----------------|----------|----------|----------|
|                                       | Owner occupied | Private rented | LA       | RSL      |          |
| None                                  | 71             | 23             | 10       | 6        | 109      |
|                                       | ( 64.7)        | ( 21.3)        | ( 9.0)   | ( 5.1)   | ( 100.0) |
| Instantaneous only                    | ( 0.5)         | ( 1.1)         | ( 0.4)   | ( 0.4)   | ( 0.5)   |
|                                       | 214            | 70             | 43       | 18       | 344      |
| Immersion only                        | ( 62.2)        | ( 20.3)        | ( 12.4)  | ( 5.1)   | ( 100.0) |
|                                       | ( 1.4)         | ( 3.2)         | ( 1.5)   | ( 1.3)   | ( 1.6)   |
| Instantaneous + immersion             | 1,167          | 486            | 430      | 269      | 2,352    |
|                                       | ( 49.6)        | ( 20.7)        | ( 18.3)  | ( 11.4)  | ( 100.0) |
| With CH only                          | ( 7.9)         | ( 22.2)        | ( 15.4)  | ( 19.4)  | ( 11.1)  |
|                                       | 214            | 64             | 43       | 25       | 346      |
| CH + instantaneous                    | ( 61.7)        | ( 18.5)        | ( 12.5)  | ( 7.2)   | ( 100.0) |
|                                       | ( 1.4)         | ( 2.9)         | ( 1.6)   | ( 1.8)   | ( 1.6)   |
| CH + immersion                        | 4,849          | 706            | 998      | 496      | 7,049    |
|                                       | ( 68.8)        | ( 10.0)        | ( 14.2)  | ( 7.0)   | ( 100.0) |
| CH + immersion + instantaneous        | ( 32.8)        | ( 32.2)        | ( 35.8)  | ( 35.8)  | ( 33.3)  |
|                                       | 791            | 69             | 97       | 31       | 987      |
| Combination including seperate boiler | ( 80.1)        | ( 7.0)         | ( 9.8)   | ( 3.1)   | ( 100.0) |
|                                       | ( 5.4)         | ( 3.1)         | ( 3.5)   | ( 2.2)   | ( 4.7)   |
| hot water, system unknown             | 6,148          | 612            | 976      | 470      | 8,206    |
|                                       | ( 74.9)        | ( 7.5)         | ( 11.9)  | ( 5.7)   | ( 100.0) |
| Total                                 | ( 41.6)        | ( 27.9)        | ( 35.0)  | ( 33.9)  | ( 38.8)  |
|                                       | 861            | 49             | 94       | 36       | 1,041    |
| Total                                 | ( 82.8)        | ( 4.7)         | ( 9.1)   | ( 3.5)   | ( 100.0) |
|                                       | ( 5.8)         | ( 2.2)         | ( 3.4)   | ( 2.6)   | ( 4.9)   |
| Total                                 | 292            | 64             | 58       | 26       | 440      |
|                                       | ( 66.3)        | ( 14.5)        | ( 13.2)  | ( 6.0)   | ( 100.0) |
| Total                                 | ( 2.0)         | ( 2.9)         | ( 2.1)   | ( 1.9)   | ( 2.1)   |
|                                       | 165            | 48             | 41       | 12       | 266      |
| Total                                 | ( 61.8)        | ( 18.2)        | ( 15.5)  | ( 4.5)   | ( 100.0) |
|                                       | ( 1.1)         | ( 2.2)         | ( 1.5)   | ( 0.9)   | ( 1.3)   |
| Total                                 | 14,771         | 2,191          | 2,790    | 1,388    | 21,140   |
|                                       | ( 69.9)        | ( 10.4)        | ( 13.2)  | ( 6.6)   | ( 100.0) |
| Total                                 | ( 100.0)       | ( 100.0)       | ( 100.0) | ( 100.0) | ( 100.0) |

base: All dwellings  
(grossed by dwellings).

Table 2.4: Water heating provision by dwelling age

count(000s), (row%), (column%)

| Water Heating Provision               | Dwelling Age                 |                              |                              |                              |                              | Total                          |
|---------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--------------------------------|
|                                       | Pre 1919                     | 1919-1944                    | 1945-1964                    | 1965-1980                    | Post 1980                    |                                |
| None                                  | 48<br>( 43.6)<br>( 1.1)      | 27<br>( 24.9)<br>( 0.7)      | 8<br>( 7.3)<br>( 0.2)        | 11<br>( 10.5)<br>( 0.2)      | 15<br>( 13.6)<br>( 0.4)      | 109<br>( 100.0)<br>( 0.5)      |
| Instantaneous only                    | 158<br>( 46.1)<br>( 3.6)     | 57<br>( 16.5)<br>( 1.5)      | 58<br>( 16.8)<br>( 1.3)      | 32<br>( 9.3)<br>( 0.7)       | 39<br>( 11.3)<br>( 1.0)      | 344<br>( 100.0)<br>( 1.6)      |
| Immersion only                        | 480<br>( 20.4)<br>( 10.9)    | 266<br>( 11.3)<br>( 7.1)     | 492<br>( 20.9)<br>( 11.0)    | 496<br>( 21.1)<br>( 10.8)    | 619<br>( 26.3)<br>( 15.8)    | 2,352<br>( 100.0)<br>( 11.1)   |
| Instantaneous + immersion             | 87<br>( 25.2)<br>( 2.0)      | 29<br>( 8.5)<br>( 0.8)       | 79<br>( 22.9)<br>( 1.8)      | 73<br>( 21.1)<br>( 1.6)      | 77<br>( 22.3)<br>( 2.0)      | 346<br>( 100.0)<br>( 1.6)      |
| With CH only                          | 1,714<br>( 24.3)<br>( 38.9)  | 1,466<br>( 20.8)<br>( 39.2)  | 1,395<br>( 19.8)<br>( 31.2)  | 1,404<br>( 19.9)<br>( 30.5)  | 1,070<br>( 15.2)<br>( 27.3)  | 7,049<br>( 100.0)<br>( 33.3)   |
| CH + instantaneous                    | 248<br>( 25.1)<br>( 5.6)     | 175<br>( 17.8)<br>( 4.7)     | 234<br>( 23.7)<br>( 5.2)     | 221<br>( 22.4)<br>( 4.8)     | 109<br>( 11.1)<br>( 2.8)     | 987<br>( 100.0)<br>( 4.7)      |
| CH + immersion                        | 1,235<br>( 15.0)<br>( 28.0)  | 1,379<br>( 16.8)<br>( 36.9)  | 1,856<br>( 22.6)<br>( 41.5)  | 2,013<br>( 24.5)<br>( 43.7)  | 1,723<br>( 21.0)<br>( 44.0)  | 8,206<br>( 100.0)<br>( 38.8)   |
| CH + immersion + instantaneous        | 173<br>( 16.6)<br>( 3.9)     | 200<br>( 19.3)<br>( 5.4)     | 231<br>( 22.2)<br>( 5.2)     | 231<br>( 22.2)<br>( 5.0)     | 205<br>( 19.7)<br>( 5.2)     | 1,041<br>( 100.0)<br>( 4.9)    |
| Combination including separate boiler | 175<br>( 39.8)<br>( 4.0)     | 73<br>( 16.7)<br>( 2.0)      | 79<br>( 18.0)<br>( 1.8)      | 85<br>( 19.2)<br>( 1.8)      | 28<br>( 6.3)<br>( 0.7)       | 440<br>( 100.0)<br>( 2.1)      |
| hot water, system unknown             | 88<br>( 33.2)<br>( 2.0)      | 66<br>( 24.7)<br>( 1.8)      | 45<br>( 16.8)<br>( 1.0)      | 38<br>( 14.1)<br>( 0.8)      | 30<br>( 11.3)<br>( 0.8)      | 266<br>( 100.0)<br>( 1.3)      |
| Total                                 | 4,406<br>( 20.8)<br>( 100.0) | 3,739<br>( 17.7)<br>( 100.0) | 4,476<br>( 21.2)<br>( 100.0) | 4,604<br>( 21.8)<br>( 100.0) | 3,915<br>( 18.5)<br>( 100.0) | 21,140<br>( 100.0)<br>( 100.0) |

base: All dwellings  
(grossed by dwellings).



Table 2.5: Water heating provision by dwelling type

count(000s), (row%), (column%)

| Water Heating Provision               | Dwelling Type        |                             |                     |                |          |                |                              |                               | Total    |
|---------------------------------------|----------------------|-----------------------------|---------------------|----------------|----------|----------------|------------------------------|-------------------------------|----------|
|                                       | Small terraced house | Medium/large terraced house | Semi-detached house | Detached house | Bungalow | Converted flat | Purpose built flat, low rise | Purpose built flat, high rise |          |
| None                                  | 15                   | 12                          | 25                  | 12             | 11       | 16             | 16                           | 1                             | 109      |
|                                       | ( 14.2)              | ( 11.1)                     | ( 23.0)             | ( 11.3)        | ( 10.5)  | ( 14.6)        | ( 14.5)                      | ( 0.8)                        | ( 100.0) |
|                                       | ( 0.6)               | ( 0.4)                      | ( 0.4)              | ( 0.4)         | ( 0.6)   | ( 2.3)         | ( 0.5)                       | ( 0.3)                        | ( 0.5)   |
| Instantaneous only                    | 102                  | 69                          | 55                  | 3              | 14       | 33             | 63                           | 4                             | 344      |
|                                       | ( 29.8)              | ( 20.1)                     | ( 15.9)             | ( 0.9)         | ( 4.2)   | ( 9.7)         | ( 18.3)                      | ( 1.2)                        | ( 100.0) |
|                                       | ( 3.9)               | ( 2.1)                      | ( 0.9)              | ( 0.1)         | ( 0.7)   | ( 4.8)         | ( 2.1)                       | ( 1.2)                        | ( 1.6)   |
| Immersion only                        | 388                  | 270                         | 400                 | 82             | 190      | 138            | 764                          | 120                           | 2,352    |
|                                       | ( 16.5)              | ( 11.5)                     | ( 17.0)             | ( 3.5)         | ( 8.1)   | ( 5.9)         | ( 32.5)                      | ( 5.1)                        | ( 100.0) |
|                                       | ( 14.6)              | ( 8.1)                      | ( 6.8)              | ( 2.5)         | ( 9.3)   | ( 20.0)        | ( 26.1)                      | ( 35.7)                       | ( 11.1)  |
| Instantaneous + immersion             | 68                   | 50                          | 72                  | 12             | 39       | 12             | 86                           | 9                             | 346      |
|                                       | ( 19.6)              | ( 14.4)                     | ( 20.7)             | ( 3.5)         | ( 11.2)  | ( 3.4)         | ( 24.7)                      | ( 2.6)                        | ( 100.0) |
|                                       | ( 2.5)               | ( 1.5)                      | ( 1.2)              | ( 0.4)         | ( 1.9)   | ( 1.7)         | ( 2.9)                       | ( 2.7)                        | ( 1.6)   |
| With CH only                          | 966                  | 1,260                       | 1,953               | 769            | 650      | 325            | 1,016                        | 112                           | 7,049    |
|                                       | ( 13.7)              | ( 17.9)                     | ( 27.7)             | ( 10.9)        | ( 9.2)   | ( 4.6)         | ( 14.4)                      | ( 1.6)                        | ( 100.0) |
|                                       | ( 36.3)              | ( 37.7)                     | ( 33.4)             | ( 23.5)        | ( 31.6)  | ( 47.0)        | ( 34.7)                      | ( 33.3)                       | ( 33.3)  |
| CH + instantaneous                    | 121                  | 243                         | 324                 | 106            | 76       | 19             | 91                           | 8                             | 987      |
|                                       | ( 12.2)              | ( 24.6)                     | ( 32.8)             | ( 10.8)        | ( 7.7)   | ( 1.9)         | ( 9.2)                       | ( 0.8)                        | ( 100.0) |
|                                       | ( 4.5)               | ( 7.3)                      | ( 5.5)              | ( 3.2)         | ( 3.7)   | ( 2.8)         | ( 3.1)                       | ( 2.3)                        | ( 4.7)   |
| CH + immersion                        | 806                  | 1,175                       | 2,473               | 1,941          | 907      | 118            | 731                          | 55                            | 8,206    |
|                                       | ( 9.8)               | ( 14.3)                     | ( 30.1)             | ( 23.7)        | ( 11.1)  | ( 1.4)         | ( 8.9)                       | ( 0.7)                        | ( 100.0) |
|                                       | ( 30.3)              | ( 35.1)                     | ( 42.3)             | ( 59.3)        | ( 44.2)  | ( 17.1)        | ( 24.9)                      | ( 16.4)                       | ( 38.8)  |
| CH + immersion + instantaneous        | 85                   | 138                         | 358                 | 276            | 114      | 11             | 55                           | 5                             | 1,041    |
|                                       | ( 8.1)               | ( 13.2)                     | ( 34.4)             | ( 26.5)        | ( 11.0)  | ( 1.0)         | ( 5.3)                       | ( 0.4)                        | ( 100.0) |
|                                       | ( 3.2)               | ( 4.1)                      | ( 6.1)              | ( 8.4)         | ( 5.6)   | ( 1.5)         | ( 1.9)                       | ( 1.4)                        | ( 4.9)   |
| Combination including separate boiler | 58                   | 82                          | 145                 | 69             | 41       | 4              | 36                           | 5                             | 440      |
|                                       | ( 13.3)              | ( 18.5)                     | ( 33.0)             | ( 15.6)        | ( 9.4)   | ( 0.9)         | ( 8.1)                       | ( 1.1)                        | ( 100.0) |
|                                       | ( 2.2)               | ( 2.4)                      | ( 2.5)              | ( 2.1)         | ( 2.0)   | ( 0.6)         | ( 1.2)                       | ( 1.5)                        | ( 2.1)   |
| hot water, system unknown             | 52                   | 46                          | 49                  | 3              | 11       | 15             | 73                           | 18                            | 266      |
|                                       | ( 19.4)              | ( 17.3)                     | ( 18.3)             | ( 1.2)         | ( 4.2)   | ( 5.5)         | ( 27.4)                      | ( 6.7)                        | ( 100.0) |
|                                       | ( 1.9)               | ( 1.4)                      | ( 0.8)              | ( 0.1)         | ( 0.5)   | ( 2.1)         | ( 2.5)                       | ( 5.3)                        | ( 1.3)   |
| Total                                 | 2,660                | 3,344                       | 5,853               | 3,273          | 2,055    | 691            | 2,929                        | 335                           | 21,140   |
|                                       | ( 12.6)              | ( 15.8)                     | ( 27.7)             | ( 15.5)        | ( 9.7)   | ( 3.3)         | ( 13.9)                      | ( 1.6)                        | ( 100.0) |
|                                       | ( 100.0)             | ( 100.0)                    | ( 100.0)            | ( 100.0)       | ( 100.0) | ( 100.0)       | ( 100.0)                     | ( 100.0)                      | ( 100.0) |

base: All dwellings  
(grossed by dwellings).

Table 2.6: Water heating provision by Government Office region

count(000s), (row%), (column%)

| Water Heating Provision               | Government Office Region |                        |                         |               |               |            |          |            |          | All regions. |
|---------------------------------------|--------------------------|------------------------|-------------------------|---------------|---------------|------------|----------|------------|----------|--------------|
|                                       | North East               | Yorkshire & Humberside | North West & Merseyside | East Midlands | West Midlands | South West | Eastern  | South East | London   |              |
| None                                  | 5                        | 6                      | 16                      | 8             | 5             | 10         | 10       | 20         | 29       | 109          |
|                                       | ( 4.4)                   | ( 5.8)                 | ( 14.5)                 | ( 7.6)        | ( 5.0)        | ( 9.1)     | ( 8.8)   | ( 18.0)    | ( 26.8)  | ( 100.0)     |
|                                       | ( 0.5)                   | ( 0.3)                 | ( 0.5)                  | ( 0.5)        | ( 0.3)        | ( 0.5)     | ( 0.4)   | ( 0.6)     | ( 1.0)   | ( 0.5)       |
| Instantaneous only                    | 9                        | 66                     | 62                      | 8             | 30            | 43         | 26       | 47         | 52       | 344          |
|                                       | ( 2.6)                   | ( 19.3)                | ( 18.2)                 | ( 2.4)        | ( 8.7)        | ( 12.4)    | ( 7.5)   | ( 13.8)    | ( 15.0)  | ( 100.0)     |
|                                       | ( 0.8)                   | ( 3.0)                 | ( 2.1)                  | ( 0.4)        | ( 1.4)        | ( 2.0)     | ( 1.1)   | ( 1.4)     | ( 1.7)   | ( 1.6)       |
| Immersion only                        | 80                       | 232                    | 335                     | 154           | 272           | 318        | 263      | 392        | 306      | 2,352        |
|                                       | ( 3.4)                   | ( 9.9)                 | ( 14.3)                 | ( 6.5)        | ( 11.5)       | ( 13.5)    | ( 11.2)  | ( 16.7)    | ( 13.0)  | ( 100.0)     |
|                                       | ( 7.4)                   | ( 10.5)                | ( 11.5)                 | ( 8.4)        | ( 12.6)       | ( 15.0)    | ( 11.3)  | ( 11.4)    | ( 9.9)   | ( 11.1)      |
| Instantaneous + immersion             | 3                        | 22                     | 61                      | 53            | 63            | 64         | 36       | 33         | 11       | 346          |
|                                       | ( 1.0)                   | ( 6.3)                 | ( 17.7)                 | ( 15.2)       | ( 18.3)       | ( 18.3)    | ( 10.4)  | ( 9.5)     | ( 3.3)   | ( 100.0)     |
|                                       | ( 0.3)                   | ( 1.0)                 | ( 2.1)                  | ( 2.9)        | ( 2.9)        | ( 3.0)     | ( 1.6)   | ( 1.0)     | ( 0.4)   | ( 1.6)       |
| With CH only                          | 546                      | 896                    | 1,110                   | 474           | 668           | 653        | 555      | 835        | 1,313    | 7,049        |
|                                       | ( 7.7)                   | ( 12.7)                | ( 15.7)                 | ( 6.7)        | ( 9.5)        | ( 9.3)     | ( 7.9)   | ( 11.9)    | ( 18.6)  | ( 100.0)     |
|                                       | ( 50.8)                  | ( 40.6)                | ( 38.0)                 | ( 25.7)       | ( 31.0)       | ( 30.8)    | ( 23.8)  | ( 24.4)    | ( 42.7)  | ( 33.3)      |
| CH + instantaneous                    | 55                       | 122                    | 228                     | 117           | 138           | 118        | 63       | 73         | 74       | 987          |
|                                       | ( 5.5)                   | ( 12.4)                | ( 23.1)                 | ( 11.8)       | ( 14.0)       | ( 12.0)    | ( 6.4)   | ( 7.4)     | ( 7.5)   | ( 100.0)     |
|                                       | ( 5.1)                   | ( 5.5)                 | ( 7.8)                  | ( 6.3)        | ( 6.4)        | ( 5.6)     | ( 2.7)   | ( 2.1)     | ( 2.4)   | ( 4.7)       |
| CH + immersion                        | 326                      | 694                    | 826                     | 773           | 711           | 705        | 1,211    | 1,837      | 1,123    | 8,206        |
|                                       | ( 4.0)                   | ( 8.5)                 | ( 10.1)                 | ( 9.4)        | ( 8.7)        | ( 8.6)     | ( 14.8)  | ( 22.4)    | ( 13.7)  | ( 100.0)     |
|                                       | ( 30.3)                  | ( 31.5)                | ( 28.3)                 | ( 42.0)       | ( 33.1)       | ( 33.3)    | ( 52.0)  | ( 53.6)    | ( 36.5)  | ( 38.8)      |
| CH + immersion + instantaneous        | 14                       | 72                     | 158                     | 211           | 174           | 132        | 105      | 114        | 62       | 1,041        |
|                                       | ( 1.3)                   | ( 6.9)                 | ( 15.1)                 | ( 20.3)       | ( 16.7)       | ( 12.7)    | ( 10.1)  | ( 10.9)    | ( 6.0)   | ( 100.0)     |
|                                       | ( 1.3)                   | ( 3.3)                 | ( 5.4)                  | ( 11.5)       | ( 8.1)        | ( 6.2)     | ( 4.5)   | ( 3.3)     | ( 2.0)   | ( 4.9)       |
| Combination including seperate boiler | 25                       | 56                     | 90                      | 38            | 63            | 59         | 36       | 40         | 33       | 440          |
|                                       | ( 5.7)                   | ( 12.6)                | ( 20.4)                 | ( 8.7)        | ( 14.4)       | ( 13.4)    | ( 8.2)   | ( 9.0)     | ( 7.6)   | ( 100.0)     |
|                                       | ( 2.3)                   | ( 2.5)                 | ( 3.1)                  | ( 2.1)        | ( 2.9)        | ( 2.8)     | ( 1.6)   | ( 1.2)     | ( 1.1)   | ( 2.1)       |
| hot water, system unknown             | 12                       | 39                     | 34                      | 5             | 27            | 18         | 22       | 37         | 72       | 266          |
|                                       | ( 4.6)                   | ( 14.8)                | ( 12.6)                 | ( 2.0)        | ( 10.1)       | ( 6.6)     | ( 8.4)   | ( 13.9)    | ( 27.0)  | ( 100.0)     |
|                                       | ( 1.1)                   | ( 1.8)                 | ( 1.2)                  | ( 0.3)        | ( 1.3)        | ( 0.8)     | ( 1.0)   | ( 1.1)     | ( 2.3)   | ( 1.3)       |
| Total                                 | 1,074                    | 2,207                  | 2,919                   | 1,841         | 2,151         | 2,119      | 2,327    | 3,428      | 3,076    | 21,140       |
|                                       | ( 5.1)                   | ( 10.4)                | ( 13.8)                 | ( 8.7)        | ( 10.2)       | ( 10.0)    | ( 11.0)  | ( 16.2)    | ( 14.5)  | ( 100.0)     |
|                                       | ( 100.0)                 | ( 100.0)               | ( 100.0)                | ( 100.0)      | ( 100.0)      | ( 100.0)   | ( 100.0) | ( 100.0)   | ( 100.0) | ( 100.0)     |

base: All dwellings  
(grossed by dwellings).

Table 2.7: Water heating provision by age of HRP

count(000s), (row%), (column%)

| Water Heating Provision               | Age of head of household |         |         |         |         |         |         | All households. |         |
|---------------------------------------|--------------------------|---------|---------|---------|---------|---------|---------|-----------------|---------|
|                                       | up to 25                 | 26-35   | 36-50   | 51-65   | 66-75   | 76-85   | over 85 |                 | unknown |
| None                                  | 6                        | 23      | 24      | 14      | 4       | 6       | 0       | 0               | 78      |
|                                       | ( 7.6)                   | ( 29.9) | ( 30.7) | ( 18.4) | ( 5.6)  | ( 7.6)  | ( 0.0)  | ( 0.0)          | (100.0) |
|                                       | ( 0.6)                   | ( 0.6)  | ( 0.4)  | ( 0.3)  | ( 0.2)  | ( 0.3)  | ( 0.0)  | ( 0.0)          | ( 0.4)  |
| Instantaneous only                    | 16                       | 64      | 87      | 63      | 58      | 28      | 4       | 0               | 321     |
|                                       | ( 5.0)                   | ( 20.1) | ( 27.0) | ( 19.7) | ( 18.2) | ( 8.8)  | ( 1.1)  | ( 0.0)          | (100.0) |
|                                       | ( 1.5)                   | ( 1.7)  | ( 1.4)  | ( 1.3)  | ( 2.2)  | ( 1.6)  | ( 1.0)  | ( 0.0)          | ( 1.6)  |
| Immersion only                        | 210                      | 396     | 487     | 432     | 314     | 330     | 83      | 0               | 2,251   |
|                                       | ( 9.3)                   | ( 17.6) | ( 21.6) | ( 19.2) | ( 14.0) | ( 14.6) | ( 3.7)  | ( 0.0)          | (100.0) |
|                                       | ( 19.8)                  | ( 10.7) | ( 8.1)  | ( 8.7)  | ( 12.1) | ( 18.5) | ( 22.2) | ( 0.0)          | ( 11.0) |
| Instantaneous + immersion             | 27                       | 48      | 72      | 66      | 59      | 47      | 19      | 0               | 338     |
|                                       | ( 7.9)                   | ( 14.3) | ( 21.3) | ( 19.6) | ( 17.5) | ( 14.0) | ( 5.5)  | ( 0.0)          | (100.0) |
|                                       | ( 2.5)                   | ( 1.3)  | ( 1.2)  | ( 1.3)  | ( 2.3)  | ( 2.7)  | ( 5.0)  | ( 0.0)          | ( 1.6)  |
| With CH only                          | 461                      | 1,371   | 2,040   | 1,559   | 762     | 510     | 103     | 0               | 6,806   |
|                                       | ( 6.8)                   | ( 20.1) | ( 30.0) | ( 22.9) | ( 11.2) | ( 7.5)  | ( 1.5)  | ( 0.0)          | (100.0) |
|                                       | ( 43.4)                  | ( 36.9) | ( 33.8) | ( 31.5) | ( 29.4) | ( 28.6) | ( 27.4) | (100.0)         | ( 33.2) |
| CH + instantaneous                    | 29                       | 189     | 302     | 245     | 121     | 62      | 14      | 0               | 963     |
|                                       | ( 3.0)                   | ( 19.7) | ( 31.3) | ( 25.5) | ( 12.6) | ( 6.4)  | ( 1.5)  | ( 0.0)          | (100.0) |
|                                       | ( 2.7)                   | ( 5.1)  | ( 5.0)  | ( 5.0)  | ( 4.7)  | ( 3.5)  | ( 3.8)  | ( 0.0)          | ( 4.7)  |
| CH + immersion                        | 259                      | 1,387   | 2,531   | 2,085   | 1,040   | 624     | 118     | 0               | 8,044   |
|                                       | ( 3.2)                   | ( 17.2) | ( 31.5) | ( 25.9) | ( 12.9) | ( 7.8)  | ( 1.5)  | ( 0.0)          | (100.0) |
|                                       | ( 24.4)                  | ( 37.3) | ( 41.9) | ( 42.2) | ( 40.1) | ( 35.0) | ( 31.4) | ( 0.0)          | ( 39.2) |
| CH + immersion + instantaneous        | 18                       | 148     | 344     | 298     | 117     | 93      | 16      | 0               | 1,035   |
|                                       | ( 1.8)                   | ( 14.3) | ( 33.2) | ( 28.8) | ( 11.3) | ( 9.0)  | ( 1.6)  | ( 0.0)          | (100.0) |
|                                       | ( 1.7)                   | ( 4.0)  | ( 5.7)  | ( 6.0)  | ( 4.5)  | ( 5.2)  | ( 4.4)  | ( 0.0)          | ( 5.0)  |
| Combination including separate boiler | 13                       | 54      | 103     | 132     | 59      | 56      | 7       | 0               | 423     |
|                                       | ( 3.1)                   | ( 12.7) | ( 24.3) | ( 31.2) | ( 13.9) | ( 13.3) | ( 1.5)  | ( 0.0)          | (100.0) |
|                                       | ( 1.3)                   | ( 1.4)  | ( 1.7)  | ( 2.7)  | ( 2.3)  | ( 3.2)  | ( 1.7)  | ( 0.0)          | ( 2.1)  |
| hot water, system unknown             | 22                       | 38      | 49      | 48      | 57      | 25      | 12      | 0               | 252     |
|                                       | ( 8.9)                   | ( 15.2) | ( 19.7) | ( 19.2) | ( 22.4) | ( 9.9)  | ( 4.8)  | ( 0.0)          | (100.0) |
|                                       | ( 2.1)                   | ( 1.0)  | ( 0.8)  | ( 1.0)  | ( 2.2)  | ( 1.4)  | ( 3.2)  | ( 0.0)          | ( 1.2)  |
| Total                                 | 1,062                    | 3,720   | 6,038   | 4,943   | 2,591   | 1,781   | 375     | 0               | 20,510  |
|                                       | ( 5.2)                   | ( 18.1) | ( 29.4) | ( 24.1) | ( 12.6) | ( 8.7)  | ( 1.8)  | ( 0.0)          | (100.0) |
|                                       | (100.0)                  | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0)         | (100.0) |

base: All households  
(grossed by households).

Table 2.8: Water heating provision by household type

count(000s), (row%), (column%)

| Water Heating Provision               | Type of household                         |   |                                   |                                       |                               |                                |                                | All households                   |
|---------------------------------------|---|---|-----------------------------------|---------------------------------------|-------------------------------|--------------------------------|--------------------------------|----------------------------------|
|                                       | Couple, under 60: no dependent child(ren) | Couple, 60 or over: no dependent child(ren) | Couple: with dependent child(ren) | lone parent with dependent child(ren) | other multi-person household  | one person under 60            | one person 60 or over          |                                  |
| None                                  | 12<br>( 15.4 )<br>( 0.3 )                 | 2<br>( 1.9 )<br>( 0.1 )                     | 18<br>( 23.0 )<br>( 0.4 )         | 5<br>( 5.9 )<br>( 0.3 )               | 4<br>( 5.1 )<br>( 0.3 )       | 26<br>( 34.0 )<br>( 1.1 )      | 11<br>( 14.7 )<br>( 0.4 )      | 78<br>( 100.0 )<br>( 0.4 )       |
| Instantaneous only                    | 39<br>( 12.1 )<br>( 1.0 )                 | 45<br>( 14.1 )<br>( 1.6 )                   | 55<br>( 17.0 )<br>( 1.1 )         | 27<br>( 8.5 )<br>( 1.7 )              | 32<br>( 10.1 )<br>( 2.2 )     | 66<br>( 20.5 )<br>( 2.7 )      | 56<br>( 17.6 )<br>( 1.8 )      | 321<br>( 100.0 )<br>( 1.6 )      |
| Immersion only                        | 313<br>( 13.9 )<br>( 7.7 )                | 314<br>( 13.9 )<br>( 10.7 )                 | 256<br>( 11.4 )<br>( 5.1 )        | 184<br>( 8.2 )<br>( 11.5 )            | 164<br>( 7.3 )<br>( 11.3 )    | 503<br>( 22.3 )<br>( 21.0 )    | 518<br>( 23.0 )<br>( 16.8 )    | 2,251<br>( 100.0 )<br>( 11.0 )   |
| Instantaneous + immersion             | 65<br>( 19.2 )<br>( 1.6 )                 | 62<br>( 18.2 )<br>( 2.1 )                   | 44<br>( 13.0 )<br>( 0.9 )         | 16<br>( 4.7 )<br>( 1.0 )              | 24<br>( 7.0 )<br>( 1.6 )      | 52<br>( 15.3 )<br>( 2.2 )      | 77<br>( 22.7 )<br>( 2.5 )      | 338<br>( 100.0 )<br>( 1.6 )      |
| With CH only                          | 1,339<br>( 19.7 )<br>( 32.8 )             | 807<br>( 11.9 )<br>( 27.6 )                 | 1,760<br>( 25.9 )<br>( 35.3 )     | 618<br>( 9.1 )<br>( 38.7 )            | 511<br>( 7.5 )<br>( 35.4 )    | 821<br>( 12.1 )<br>( 34.2 )    | 950<br>( 14.0 )<br>( 30.9 )    | 6,806<br>( 100.0 )<br>( 33.2 )   |
| CH + instantaneous                    | 225<br>( 23.4 )<br>( 5.5 )                | 135<br>( 14.0 )<br>( 4.6 )                  | 242<br>( 25.1 )<br>( 4.8 )        | 59<br>( 6.1 )<br>( 3.7 )              | 68<br>( 7.1 )<br>( 4.7 )      | 104<br>( 10.8 )<br>( 4.3 )     | 130<br>( 13.5 )<br>( 4.2 )     | 963<br>( 100.0 )<br>( 4.7 )      |
| CH + immersion                        | 1,745<br>( 21.7 )<br>( 42.7 )             | 1,253<br>( 15.6 )<br>( 42.8 )               | 2,193<br>( 27.3 )<br>( 44.0 )     | 577<br>( 7.2 )<br>( 36.1 )            | 517<br>( 6.4 )<br>( 35.8 )    | 712<br>( 8.9 )<br>( 29.7 )     | 1,046<br>( 13.0 )<br>( 34.0 )  | 8,044<br>( 100.0 )<br>( 39.2 )   |
| CH + immersion + instantaneous        | 235<br>( 22.7 )<br>( 5.8 )                | 189<br>( 18.2 )<br>( 6.4 )                  | 285<br>( 27.6 )<br>( 5.7 )        | 64<br>( 6.1 )<br>( 4.0 )              | 68<br>( 6.6 )<br>( 4.7 )      | 62<br>( 6.0 )<br>( 2.6 )       | 132<br>( 12.8 )<br>( 4.3 )     | 1,035<br>( 100.0 )<br>( 5.0 )    |
| Combination including separate boiler | 73<br>( 17.2 )<br>( 1.8 )                 | 79<br>( 18.7 )<br>( 2.7 )                   | 90<br>( 21.3 )<br>( 1.8 )         | 29<br>( 6.8 )<br>( 1.8 )              | 30<br>( 7.0 )<br>( 2.1 )      | 34<br>( 7.9 )<br>( 1.4 )       | 89<br>( 20.9 )<br>( 2.9 )      | 423<br>( 100.0 )<br>( 2.1 )      |
| hot water, system unknown             | 39<br>( 15.4 )<br>( 1.0 )                 | 40<br>( 15.8 )<br>( 1.4 )                   | 43<br>( 17.1 )<br>( 0.9 )         | 19<br>( 7.7 )<br>( 1.2 )              | 24<br>( 9.6 )<br>( 1.7 )      | 19<br>( 7.5 )<br>( 0.8 )       | 68<br>( 26.8 )<br>( 2.2 )      | 252<br>( 100.0 )<br>( 1.2 )      |
| Total                                 | 4,085<br>( 19.9 )<br>( 100.0 )            | 2,925<br>( 14.3 )<br>( 100.0 )              | 4,986<br>( 24.3 )<br>( 100.0 )    | 1,597<br>( 7.8 )<br>( 100.0 )         | 1,443<br>( 7.0 )<br>( 100.0 ) | 2,397<br>( 11.7 )<br>( 100.0 ) | 3,077<br>( 15.0 )<br>( 100.0 ) | 20,510<br>( 100.0 )<br>( 100.0 ) |

base: All households  
(grossed by households).

Table 2.9: Water heating provision by employment status of HRP

count(000s), (row%), (column%)

| Water Heating Provision               | Employment Status Of Head Of Household |                             |                                   |                               |                          | Total                          |
|---------------------------------------|--|-----------------------------|-----------------------------------|-------------------------------|--------------------------|--------------------------------|
|                                       | 1 or more work full time               | 1 or more work part time    | none working, one or more retired | none working and none retired | other / unknown          |                                |
| None                                  | 47<br>( 60.8)<br>( 0.4)                | 6<br>( 7.8)<br>( 0.4)       | 14<br>( 17.6)<br>( 0.3)           | 11<br>( 13.8)<br>( 0.4)       | 0<br>( 0.0)<br>( 0.0)    | 78<br>( 100.0)<br>( 0.4)       |
| Instantaneous only                    | 142<br>( 44.2)<br>( 1.3)               | 35<br>( 11.1)<br>( 2.4)     | 92<br>( 28.6)<br>( 1.7)           | 52<br>( 16.2)<br>( 2.2)       | 0<br>( 0.0)<br>( 0.0)    | 321<br>( 100.0)<br>( 1.6)      |
| Immersion only                        | 960<br>( 42.6)<br>( 8.5)               | 158<br>( 7.0)<br>( 10.7)    | 791<br>( 35.2)<br>( 14.9)         | 341<br>( 15.1)<br>( 14.2)     | 1<br>( 0.0)<br>( 7.9)    | 2,251<br>( 100.0)<br>( 11.0)   |
| Instantaneous + immersion             | 161<br>( 47.6)<br>( 1.4)               | 24<br>( 7.2)<br>( 1.6)      | 118<br>( 34.8)<br>( 2.2)          | 33<br>( 9.7)<br>( 1.4)        | 2<br>( 0.7)<br>( 17.2)   | 338<br>( 100.0)<br>( 1.6)      |
| With CH only                          | 3,812<br>( 56.0)<br>( 33.7)            | 489<br>( 7.2)<br>( 33.1)    | 1,592<br>( 23.4)<br>( 29.9)       | 909<br>( 13.4)<br>( 38.0)     | 3<br>( 0.0)<br>( 22.6)   | 6,806<br>( 100.0)<br>( 33.2)   |
| CH + instantaneous                    | 594<br>( 61.7)<br>( 5.3)               | 77<br>( 8.0)<br>( 5.2)      | 209<br>( 21.7)<br>( 3.9)          | 82<br>( 8.5)<br>( 3.4)        | 1<br>( 0.1)<br>( 5.3)    | 963<br>( 100.0)<br>( 4.7)      |
| CH + immersion                        | 4,676<br>( 58.1)<br>( 41.4)            | 559<br>( 6.9)<br>( 37.8)    | 2,007<br>( 25.0)<br>( 37.7)       | 796<br>( 9.9)<br>( 33.3)      | 5<br>( 0.1)<br>( 38.6)   | 8,044<br>( 100.0)<br>( 39.2)   |
| CH + immersion + instantaneous        | 604<br>( 58.4)<br>( 5.3)               | 73<br>( 7.0)<br>( 4.9)      | 272<br>( 26.3)<br>( 5.1)          | 85<br>( 8.2)<br>( 3.6)        | 1<br>( 0.1)<br>( 8.3)    | 1,035<br>( 100.0)<br>( 5.0)    |
| Combination including seperate boiler | 198<br>( 46.8)<br>( 1.8)               | 36<br>( 8.5)<br>( 2.5)      | 134<br>( 31.6)<br>( 2.5)          | 55<br>( 13.1)<br>( 2.3)       | 0<br>( 0.0)<br>( 0.0)    | 423<br>( 100.0)<br>( 2.1)      |
| hot water, system unknown             | 107<br>( 42.6)<br>( 0.9)               | 18<br>( 7.2)<br>( 1.2)      | 97<br>( 38.7)<br>( 1.8)           | 29<br>( 11.5)<br>( 1.2)       | 0<br>( 0.0)<br>( 0.0)    | 252<br>( 100.0)<br>( 1.2)      |
| Total                                 | 11,301<br>( 55.1)<br>( 100.0)          | 1,477<br>( 7.2)<br>( 100.0) | 5,326<br>( 26.0)<br>( 100.0)      | 2,393<br>( 11.7)<br>( 100.0)  | 13<br>( 0.1)<br>( 100.0) | 20,510<br>( 100.0)<br>( 100.0) |

base: All households  
(grossed by households).

Table 2.10: Water heating provision by income quintile

count(000s), (row%), (column%)

| Water Heating Provision               | Income Quintile           |              |              |              |                            | Total    |
|---------------------------------------|---------------------------|--------------|--------------|--------------|----------------------------|----------|
|                                       | 1st quintile (lowest 20%) | 2nd quintile | 3rd quintile | 4th quintile | 5th quintile (highest 20%) |          |
| None                                  | 21                        | 13           | 11           | 13           | 20                         | 78       |
|                                       | ( 26.4)                   | ( 16.9)      | ( 14.8)      | ( 16.7)      | ( 25.2)                    | ( 100.0) |
|                                       | ( 0.5)                    | ( 0.3)       | ( 0.3)       | ( 0.3)       | ( 0.5)                     | ( 0.4)   |
| Instantaneous only                    | 104                       | 73           | 86           | 53           | 5                          | 321      |
|                                       | ( 32.3)                   | ( 22.6)      | ( 26.9)      | ( 16.4)      | ( 1.7)                     | ( 100.0) |
|                                       | ( 2.5)                    | ( 1.8)       | ( 2.1)       | ( 1.3)       | ( 0.1)                     | ( 1.6)   |
| Immersion only                        | 724                       | 634          | 439          | 276          | 179                        | 2,251    |
|                                       | ( 32.2)                   | ( 28.2)      | ( 19.5)      | ( 12.2)      | ( 7.9)                     | ( 100.0) |
|                                       | ( 17.6)                   | ( 15.5)      | ( 10.7)      | ( 6.7)       | ( 4.4)                     | ( 11.0)  |
| Instantaneous + immersion             | 84                        | 87           | 85           | 48           | 34                         | 338      |
|                                       | ( 25.0)                   | ( 25.9)      | ( 25.0)      | ( 14.1)      | ( 10.0)                    | ( 100.0) |
|                                       | ( 2.1)                    | ( 2.1)       | ( 2.1)       | ( 1.2)       | ( 0.8)                     | ( 1.6)   |
| With CH only                          | 1,399                     | 1,324        | 1,398        | 1,423        | 1,261                      | 6,806    |
|                                       | ( 20.6)                   | ( 19.5)      | ( 20.5)      | ( 20.9)      | ( 18.5)                    | ( 100.0) |
|                                       | ( 34.1)                   | ( 32.3)      | ( 34.1)      | ( 34.7)      | ( 30.8)                    | ( 33.2)  |
| CH + instantaneous                    | 130                       | 197          | 225          | 240          | 171                        | 963      |
|                                       | ( 13.5)                   | ( 20.4)      | ( 23.4)      | ( 24.9)      | ( 17.8)                    | ( 100.0) |
|                                       | ( 3.2)                    | ( 4.8)       | ( 5.5)       | ( 5.8)       | ( 4.2)                     | ( 4.7)   |
| CH + immersion                        | 1,310                     | 1,410        | 1,504        | 1,716        | 2,104                      | 8,044    |
|                                       | ( 16.3)                   | ( 17.5)      | ( 18.7)      | ( 21.3)      | ( 26.2)                    | ( 100.0) |
|                                       | ( 31.9)                   | ( 34.4)      | ( 36.7)      | ( 41.8)      | ( 51.3)                    | ( 39.2)  |
| CH + immersion + instantaneous        | 151                       | 203          | 197          | 243          | 241                        | 1,035    |
|                                       | ( 14.6)                   | ( 19.6)      | ( 19.1)      | ( 23.5)      | ( 23.3)                    | ( 100.0) |
|                                       | ( 3.7)                    | ( 4.9)       | ( 4.8)       | ( 5.9)       | ( 5.9)                     | ( 5.0)   |
| Combination including separate boiler | 97                        | 96           | 103          | 70           | 57                         | 423      |
|                                       | ( 23.0)                   | ( 22.8)      | ( 24.3)      | ( 16.4)      | ( 13.6)                    | ( 100.0) |
|                                       | ( 2.4)                    | ( 2.3)       | ( 2.5)       | ( 1.7)       | ( 1.4)                     | ( 2.1)   |
| hot water, system unknown             | 82                        | 66           | 53           | 23           | 28                         | 252      |
|                                       | ( 32.7)                   | ( 26.1)      | ( 21.0)      | ( 8.9)       | ( 11.2)                    | ( 100.0) |
|                                       | ( 2.0)                    | ( 1.6)       | ( 1.3)       | ( 0.5)       | ( 0.7)                     | ( 1.2)   |
| Total                                 | 4,102                     | 4,103        | 4,102        | 4,102        | 4,101                      | 20,510   |
|                                       | ( 20.0)                   | ( 20.0)      | ( 20.0)      | ( 20.0)      | ( 20.0)                    | ( 100.0) |
|                                       | ( 100.0)                  | ( 100.0)     | ( 100.0)     | ( 100.0)     | ( 100.0)                   | ( 100.0) |

base: All households  
(grossed by households).

Table 2.11: Age of water heaters (percent of heaters in a given age band)

| Type of water heaters               | Age of system in years (2001) |       |       |       |       |       | Total  |
|-------------------------------------|-------------------------------|-------|-------|-------|-------|-------|--------|
|                                     | <3                            | 3-5   | 6-10  | 11-15 | 16-25 | >25   |        |
| In association with central heating | 15.6%                         | 15.0% | 20.7% | 13.5% | 15.7% | 19.5% | 100.0% |
| Separate hot water boiler           | 8.8%                          | 5.9%  | 16.4% | 11.8% | 13.7% | 43.4% | 100.0% |
| Immersion heaters                   | 6.1%                          | 9.8%  | 19.4% | 14.2% | 19.9% | 30.5% | 100.0% |
| Instantaneous heaters               | 18.2%                         | 25.3% | 26.7% | 11.0% | 8.1%  | 10.6% | 100.0% |

base: All dwellings with water heating.  
(grossed by dwellings).

Table 2.12: The use of individual instantaneous heaters (percent of dwellings with this form of provision)

| Profile of water heating provision      | Type of instantaneous heaters         |                            |                           |                                 |                                |           |
|---|---------------------------------------|----------------------------|---------------------------|---------------------------------|--------------------------------|-----------|
|   | Instantaneous heaters of unknown type | Gas - Single point heaters | Gas - Multi-point heaters | Electric - Single point heaters | Electric - Multi-point heaters | All types |
| Instantaneous only                      | 1.4%                                  | 0.3%                       | 8.6%                      | 1.5%                            | 0.4%                           | 12.3%     |
| Instantaneous + immersion               | 1.6%                                  | 0.4%                       | 0.0%                      | 10.2%                           | 0.2%                           | 12.4%     |
| Boiler + instantaneous                  |                                       |                            |                           | 0.3%                            |                                | 0.3%      |
| Boiler + instantaneous + immersion      | 0.1%                                  |                            | 0.1%                      | 0.8%                            |                                | 1.0%      |
| CH + instantaneous                      | 2.9%                                  | 1.1%                       | 3.3%                      | 27.7%                           | 0.2%                           | 35.2%     |
| CH + immersion + instantaneous          | 4.2%                                  | 0.5%                       |                           | 32.2%                           | 0.2%                           | 37.1%     |
| CH + boiler + instantaneous             | 0.1%                                  | 0.1%                       | 0.2%                      | 0.3%                            |                                | 0.7%      |
| CH + boiler + immersion + instantaneous | 0.2%                                  |                            |                           | 0.8%                            |                                | 1.1%      |
| All combinations                        | 10.5%                                 | 2.3%                       | 12.2%                     | 73.9%                           | 1.0%                           | 100.0%    |

base: All dwellings with instantaneous water heaters.  
(grossed by dwellings).



Table 3.1: Profile of fuel usage for space and water heating by tenure (percentages within each tenure)

| Profile of fuel usage              | Tenure         |                |        |        |             |
|------------------------------------|----------------|----------------|--------|--------|-------------|
|                                    | Owner occupied | Private rented | LA     | RSL    | All tenures |
| Electricity only                   | 6.0%           | 19.1%          | 13.8%  | 19.9%  | 9.2%        |
| Solid fuel only                    | 0.3%           | 0.8%           | 0.5%   | 0.1%   | 0.4%        |
| Solid fuel + electricity           | 2.4%           | 5.8%           | 3.7%   | 2.7%   | 2.9%        |
| Fuel oil only                      | 0.2%           | 0.4%           | 0.1%   | 0.0%   | 0.2%        |
| Fuel oil + electricity             | 1.4%           | 0.8%           | 0.3%   | 0.1%   | 1.1%        |
| Fuel oil + solid fuel              | 2.6%           | 1.8%           | 0.0%   | 0.1%   | 2.0%        |
| Mains gas only                     | 29.3%          | 29.8%          | 31.5%  | 30.1%  | 29.7%       |
| Mains gas + electricity            | 49.0%          | 35.9%          | 48.9%  | 45.8%  | 47.5%       |
| Mains gas + solid fuel             | 8.6%           | 5.7%           | 1.1%   | 1.2%   | 6.9%        |
| Mains gas + fuel oil + electricity | 0.1%           |                |        |        | 0.1%        |
| All combinations                   | 100.0%         | 100.0%         | 100.0% | 100.0% | 100.0%      |

base: All dwellings with space or water heating.  
(grossed by dwellings).

Table 3.2: Fuel used for primary heating system by Government Office Region

count(000s), (row%), (column%)

| Fuel used for primary heating system | Government Office Region |                        |                         |               |               |            |          |            |          | Total    |
|--------------------------------------|--------------------------|------------------------|-------------------------|---------------|---------------|------------|----------|------------|----------|----------|
|                                      | North East               | Yorkshire & Humberside | North West & Merseyside | East Midlands | West Midlands | South West | Eastern  | South East | London   |          |
| Gas                                  | 945                      | 1,932                  | 2,589                   | 1,489         | 1,819         | 1,563      | 1,779    | 2,836      | 2,647    | 17,599   |
|                                      | ( 5.4)                   | ( 11.0)                | ( 14.7)                 | ( 8.5)        | ( 10.3)       | ( 8.9)     | ( 10.1)  | ( 16.1)    | ( 15.0)  | ( 100.0) |
|                                      | ( 88.0)                  | ( 87.6)                | ( 88.7)                 | ( 80.9)       | ( 84.6)       | ( 73.8)    | ( 76.4)  | ( 82.7)    | ( 86.1)  | ( 83.2)  |
| Electricity                          | 62                       | 138                    | 233                     | 157           | 196           | 334        | 268      | 363        | 259      | 2,012    |
|                                      | ( 3.1)                   | ( 6.9)                 | ( 11.6)                 | ( 7.8)        | ( 9.8)        | ( 16.6)    | ( 13.3)  | ( 18.1)    | ( 12.9)  | ( 100.0) |
|                                      | ( 5.8)                   | ( 6.3)                 | ( 8.0)                  | ( 8.5)        | ( 9.1)        | ( 15.8)    | ( 11.5)  | ( 10.6)    | ( 8.4)   | ( 9.5)   |
| Solid Fuel                           | 36                       | 75                     | 19                      | 83            | 59            | 76         | 49       | 39         | 7        | 444      |
|                                      | ( 8.0)                   | ( 17.0)                | ( 4.3)                  | ( 18.8)       | ( 13.3)       | ( 17.2)    | ( 11.1)  | ( 8.7)     | ( 1.7)   | ( 100.0) |
|                                      | ( 3.3)                   | ( 3.4)                 | ( 0.7)                  | ( 4.5)        | ( 2.7)        | ( 3.6)     | ( 2.1)   | ( 1.1)     | ( 0.2)   | ( 2.1)   |
| Fuel Oil                             | 13                       | 32                     | 34                      | 81            | 61            | 135        | 202      | 140        | 12       | 708      |
|                                      | ( 1.8)                   | ( 4.5)                 | ( 4.8)                  | ( 11.4)       | ( 8.6)        | ( 19.1)    | ( 28.5)  | ( 19.8)    | ( 1.7)   | ( 100.0) |
|                                      | ( 1.2)                   | ( 1.4)                 | ( 1.2)                  | ( 4.4)        | ( 2.8)        | ( 6.4)     | ( 8.7)   | ( 4.1)     | ( 0.4)   | ( 3.4)   |
| Communal                             | 19                       | 29                     | 44                      | 30            | 16            | 11         | 29       | 49         | 150      | 377      |
|                                      | ( 5.0)                   | ( 7.7)                 | ( 11.8)                 | ( 8.0)        | ( 4.2)        | ( 2.8)     | ( 7.6)   | ( 13.1)    | ( 39.8)  | ( 100.0) |
|                                      | ( 1.8)                   | ( 1.3)                 | ( 1.5)                  | ( 1.6)        | ( 0.7)        | ( 0.5)     | ( 1.2)   | ( 1.4)     | ( 4.9)   | ( 1.8)   |
| Total                                | 1,074                    | 2,207                  | 2,919                   | 1,841         | 2,151         | 2,119      | 2,327    | 3,428      | 3,076    | 21,140   |
|                                      | ( 5.1)                   | ( 10.4)                | ( 13.8)                 | ( 8.7)        | ( 10.2)       | ( 10.0)    | ( 11.0)  | ( 16.2)    | ( 14.5)  | ( 100.0) |
|                                      | ( 100.0)                 | ( 100.0)               | ( 100.0)                | ( 100.0)      | ( 100.0)      | ( 100.0)   | ( 100.0) | ( 100.0)   | ( 100.0) | ( 100.0) |

base: All dwellings  
(grossed by dwellings).