

**Table 3.27a. Conservation by Census Region and Climate Zone,
Million U.S. Households, 1993**

Conservation-Related Items	Total	Census Region				Climate Zone					RSE Row Factors
		Northeast	Midwest	South	West	Fewer than 2,000 CDD and --				More than 2,000 CDD and Few- er than 4,000 HDD	
						More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Few- er than 4,000 HDD		
RSE Column Factor:	0.4	0.8	0.8	0.7	0.8	2.3	1.4	1.3	1.5	1.2	
Total	96.6	19.5	23.3	33.5	20.4	8.7	26.5	22.5	17.8	21.2	6.5
Adequacy of Insulation (all households)											
Well Insulated	36.0	7.2	8.8	13.1	6.9	3.5	10.3	8.1	5.9	8.2	6.2
Adequately Insulated	38.4	8.1	9.5	12.7	8.1	3.5	10.3	9.4	6.8	8.5	5.2
Poorly Insulated	22.2	4.2	5.0	7.7	5.4	1.7	6.0	4.9	5.1	4.5	7.2
Demand-Side Management Programs											
Were Any Offered by a Utility											
Yes	34.8	7.1	8.9	10.4	8.4	4.8	9.8	6.9	6.3	7.0	6.2
No	40.0	8.2	9.0	15.6	7.1	2.3	10.4	11.0	7.3	9.0	7.9
Don't Know	21.8	4.1	5.4	7.5	4.8	1.6	6.3	4.5	4.3	5.2	8.5
Program Participation in Past 12 Months											
No Program Offered	40.0	8.2	9.0	15.6	7.1	2.3	10.4	11.0	7.3	9.0	7.9
Don't Know	2.7	0.6	0.7	0.8	0.6	0.3	0.6	0.9	0.6	0.4	16.8
No	46.4	9.0	11.7	14.8	10.9	5.0	13.4	8.8	8.8	10.4	5.9
Yes (more than one may apply)	7.6	1.6	1.9	2.4	1.8	1.2	2.1	1.8	1.2	1.4	13.0
Energy Audit	1.4	0.3	0.5	0.3	0.4	0.3	0.4	0.3	0.2	0.3	23.0
Load-Control Program	2.6	0.2	0.8	1.3	0.3	0.5	0.4	0.6	0.3	0.7	25.1
Equipment or Service	1.7	0.4	0.3	0.4	0.5	0.3	0.5	0.3	0.2	0.3	25.2
Rebate or Incentive	0.5	Q	0.2	Q	0.2	0.1	Q	Q	Q	Q	35.6
Encouraged to Switch Fuels	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Time-of-Use Rate	1.6	0.4	0.5	0.5	0.2	0.4	0.3	0.4	0.2	0.3	29.5
Does the Home Have Any of the Following:											
Set-Back/Clock Thermostat											
Yes	10.8	2.9	2.0	2.9	3.2	0.5	2.9	2.8	2.0	2.7	12.4
No	85.8	16.6	21.3	30.6	17.2	8.2	23.6	19.7	15.8	18.5	4.5
Regular Heating System/ Furnace Maintenance											
Yes	49.4	12.9	13.8	14.1	8.7	5.7	15.9	12.4	6.0	9.5	5.8
No	47.2	6.6	9.5	19.4	11.6	3.0	10.6	10.1	11.8	11.7	6.5
Trees Shading the Afternoon Summer Sun											
Yes	44.9	7.9	10.6	17.1	9.4	4.1	11.3	10.1	8.5	11.0	6.5
No	51.7	11.6	12.7	16.4	10.9	4.6	15.2	12.3	9.3	10.2	5.6

See footnotes at end of table.

**Table 3.27b. Conservation by Census Region and Climate Zone,
Percent of U.S. Households, 1993**

Conservation-Related Items	Total	Census Region				Climate Zone					RSE Row Factors
		Northeast	Midwest	South	West	Fewer than 2,000 CDD and --				More than 2,000 CDD and Few- er than 4,000 HDD	
						More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Few- er than 4,000 HDD		
RSE Column Factor:	0.5	1.0	1.0	0.9	1.0	1.4	1.0	1.1	1.2	1.1	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Adequacy of Insulation (all households)											
Well Insulated	37.3	37.1	37.9	39.0	34.0	40.3	38.8	36.2	33.4	38.7	3.8
Adequately Insulated	39.7	41.5	40.8	38.0	39.6	40.3	38.7	41.8	38.0	40.0	3.2
Poorly Insulated	23.0	21.4	21.2	23.0	26.4	19.4	22.5	22.0	28.6	21.3	5.3
Demand-Side Management Programs											
Were Any Offered by a Utility											
Yes	36.0	36.7	38.3	30.9	41.3	55.6	37.1	30.7	35.2	33.1	4.8
No	41.3	42.3	38.5	46.6	35.0	25.9	39.3	49.2	40.9	42.3	5.8
Don't Know	22.6	21.0	23.2	22.5	23.7	18.5	23.6	20.1	23.9	24.6	6.8
Program Participation in Past 12 Months											
No Program Offered	41.3	42.3	38.5	46.6	35.0	25.9	39.3	49.2	40.9	42.3	5.8
Don't Know	2.8	3.1	3.0	2.3	3.0	3.2	2.3	3.9	3.1	1.7	16.5
No	48.0	46.2	50.3	44.1	53.3	57.5	50.5	39.0	49.3	49.3	3.9
Yes (more than one may apply)	7.9	8.3	8.2	7.0	8.6	13.4	7.9	7.9	6.6	6.6	12.0
Energy Audit	1.5	1.4	2.0	1.0	1.9	3.7	1.4	1.2	1.3	1.2	22.3
Load-Control Program	2.7	0.9	3.4	3.9	1.4	5.5	1.6	2.8	1.8	3.3	24.6
Equipment or Service	1.7	2.0	1.3	1.3	2.7	3.5	2.1	1.5	1.1	1.3	24.9
Rebate or Incentive	0.5	Q	0.9	Q	0.9	1.6	Q	Q	Q	Q	32.7
Encouraged to Switch Fuels	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Time-of-Use Rate	1.6	1.9	2.1	1.4	1.2	4.2	1.2	2.0	0.9	1.3	29.5
Does the Home Have Any of the Following:											
Set-Back/Clock Thermostat											
Yes	11.2	14.7	8.5	8.6	15.5	5.6	11.0	12.4	11.4	12.5	11.8
No	88.8	85.3	91.5	91.4	84.5	94.4	89.0	87.6	88.6	87.5	1.6
Regular Heating System/ Furnace Maintenance											
Yes	51.1	66.0	59.2	42.0	42.8	65.5	59.9	55.1	33.8	44.7	3.8
No	48.9	34.0	40.8	58.0	57.2	34.5	40.1	44.9	66.2	55.3	4.1
Trees Shading the Afternoon Summer Sun											
Yes	46.5	40.3	45.4	51.0	46.2	46.7	42.5	45.1	47.5	51.9	4.0
No	53.5	59.7	54.6	49.0	53.8	53.3	57.5	54.9	52.5	48.1	3.4

See footnotes at end of table.

**Table 3.27a. Conservation by Census Region and Climate Zone,
Million U.S. Households, 1993 (Continued)**

Conservation-Related Items	Total	Census Region				Climate Zone					RSE Row Factors
		Northeast	Midwest	South	West	Fewer than 2,000 CDD and --				More than 2,000 CDD and Few- er than 4,000 HDD	
						More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Few- er than 4,000 HDD		
RSE Column Factor:	0.4	0.8	0.8	0.7	0.8	2.3	1.4	1.3	1.5	1.2	
Doors and Windows											
Glass in Sliding Doors to the Outside											
Single Pane	12.2	0.4	0.8	5.4	5.6	0.2	1.2	1.5	4.1	5.2	11.3
Double Pane	18.3	3.7	6.0	4.7	3.9	1.9	6.7	5.0	1.9	2.8	9.1
Untreated	17.5	3.5	5.7	4.5	3.8	1.8	6.4	4.8	1.8	2.7	9.4
Low-E Coating	0.8	0.2	0.2	0.2	0.1	0.1	0.3	0.2	Q	Q	24.8
Triple Pane	0.4	0.1	Q	Q	Q	Q	0.2	Q	Q	Q	43.3
No Doors	65.8	15.2	16.3	23.4	10.8	6.6	18.4	15.9	11.7	13.2	5.3
Glass in Most Windows											
Single Pane	61.5	10.0	13.0	24.0	14.4	4.8	14.3	11.9	14.3	16.2	4.4
Double Pane	34.2	9.2	9.9	9.2	5.9	3.8	11.8	10.3	3.4	4.8	5.9
Untreated	32.5	8.7	9.3	8.9	5.7	3.4	11.3	9.9	3.3	4.6	6.2
Low-E Coating	1.7	0.6	0.6	0.4	0.2	0.4	0.5	0.5	0.1	0.2	23.7
Triple Pane	0.9	0.2	0.4	0.1	0.1	0.1	0.4	0.2	Q	Q	26.2
Coverings on Windows											
Storm Windows	36.5	10.5	14.1	9.8	2.1	5.5	14.4	10.0	3.4	3.1	8.5
Plastic Coverings	3.7	0.5	1.0	1.3	0.9	0.4	1.1	0.8	0.6	0.8	17.9
Neither	56.4	8.5	8.2	22.3	17.3	2.8	10.9	11.7	13.8	17.2	5.2
Frames in Most Windows											
Metal	53.3	8.0	8.4	22.4	14.5	2.1	11.0	11.8	11.3	17.1	5.9
Nonmetal	43.3	11.5	14.9	11.0	5.9	6.6	15.5	10.6	6.4	4.0	7.1
Number of Original Windows Replaced											
All	10.7	4.3	2.8	2.3	1.4	1.0	3.5	3.8	1.3	1.0	11.5
Some	15.5	3.6	4.4	3.7	3.8	2.2	4.5	3.5	3.0	2.4	9.8
None	70.3	11.6	16.1	27.4	15.2	5.4	18.5	15.2	13.5	17.7	4.4
Type of Replacement Windows											
Single Pane	10.3	2.0	2.0	3.3	2.9	1.0	2.1	2.0	2.8	2.4	10.0
Double Pane	15.2	5.7	4.7	2.6	2.2	2.1	5.5	5.1	1.5	1.0	10.3
Untreated	13.7	5.2	4.2	2.4	2.0	1.8	5.0	4.6	1.4	0.9	10.7
Low-E Coating	1.5	0.5	0.6	0.2	0.2	0.4	0.5	0.5	0.2	Q	25.4
Triple Pane	0.7	0.2	0.4	Q	Q	Q	0.4	Q	Q	Q	21.7
None Replaced	70.4	11.6	16.1	27.5	15.2	5.4	18.5	15.2	13.5	17.8	4.4
Age of Replacement Windows											
Less than 2 Years	7.2	1.9	1.8	2.0	1.5	1.0	2.0	1.5	1.4	1.2	12.2
2-4 Years	7.1	2.3	1.7	1.8	1.4	0.7	1.9	2.5	1.1	1.0	12.8
5-9 Years	6.5	2.1	2.0	1.3	1.2	0.7	2.0	2.0	1.0	0.7	11.2
10-19 Years	4.2	1.3	1.3	0.8	0.8	0.6	1.6	1.0	0.6	0.5	15.2
20 Years or More	1.2	0.4	0.3	0.2	0.3	0.2	0.5	0.2	0.2	Q	24.4
None Replaced	70.4	11.6	16.1	27.5	15.2	5.4	18.5	15.2	13.5	17.8	4.4

See footnotes at end of table.

Table 3.27b. Conservation by Census Region and Climate Zone, Percent of U.S. Households, 1993 (Continued)

Conservation-Related Items	Total	Census Region				Climate Zone					RSE Row Factors
		Northeast	Midwest	South	West	Fewer than 2,000 CDD and --				More than 2,000 CDD and Fewer than 4,000 HDD	
						More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.0	1.0	0.9	1.0	1.4	1.0	1.1	1.2	1.1	
Doors and Windows											
Glass in Sliding Doors to the Outside											
Single Pane	12.6	2.2	3.5	16.0	27.5	Q	4.6	6.6	23.3	24.6	10.2
Double Pane	18.9	19.1	25.6	13.9	19.2	21.9	25.2	22.3	10.7	13.0	8.4
Untreated	18.1	17.8	24.5	13.5	18.6	20.5	24.2	21.2	10.3	12.8	8.6
Low-E Coating	0.8	1.3	1.0	0.5	0.6	1.4	1.1	1.1	Q	Q	24.6
Triple Pane	0.4	0.6	Q	Q	Q	Q	0.7	Q	Q	Q	39.8
No Doors	68.1	78.1	70.1	69.9	53.1	75.4	69.5	70.7	66.0	62.3	3.0
Glass in Most Windows											
Single Pane	63.6	51.6	55.9	71.7	70.7	55.1	54.0	53.0	80.1	76.5	2.2
Double Pane	35.4	47.3	42.3	27.6	28.8	43.4	44.5	46.0	19.3	22.8	4.0
Untreated	33.6	44.4	39.9	26.5	27.8	39.3	42.5	44.0	18.5	21.9	4.3
Low-E Coating	1.7	2.9	2.4	1.1	0.9	4.1	2.0	2.1	0.8	0.9	23.4
Triple Pane	0.9	1.1	1.8	0.4	0.5	1.5	1.4	1.0	Q	Q	24.4
Coverings on Windows											
Storm Windows	37.8	53.8	60.6	29.2	10.4	63.6	54.5	44.4	19.3	14.8	5.9
Plastic Coverings	3.8	2.5	4.1	4.0	4.4	4.4	4.2	3.4	3.3	3.9	17.2
Neither	58.3	43.7	35.3	66.6	85.2	32.0	41.3	52.2	77.4	81.0	3.8
Frames in Most Windows											
Metal	55.1	41.0	36.0	66.9	71.1	23.6	41.4	52.7	63.7	80.6	4.1
Nonmetal	44.8	59.0	64.0	32.8	28.9	76.4	58.6	47.3	36.2	19.0	4.8
Number of Original Windows Replaced											
All	11.0	21.9	11.9	6.7	6.7	11.9	13.3	16.8	7.3	4.8	10.0
Some	16.1	18.7	18.8	11.2	18.5	25.7	16.8	15.4	16.9	11.3	8.0
None	72.8	59.4	69.3	81.8	74.8	62.4	69.9	67.8	75.7	83.5	2.3
Type of Replacement Windows											
Single Pane	10.6	10.4	8.6	9.9	14.5	11.8	7.9	8.9	15.5	11.3	8.4
Double Pane	15.8	29.3	20.3	7.8	10.7	24.7	20.6	22.8	8.6	4.7	8.7
Untreated	14.2	26.7	17.8	7.1	9.7	20.5	18.9	20.7	7.6	4.3	8.9
Low-E Coating	1.6	2.6	2.5	0.7	1.1	4.1	1.7	2.1	1.0	Q	24.5
Triple Pane	0.7	0.9	1.8	Q	Q	Q	1.6	Q	Q	Q	18.3
None Replaced	72.9	59.4	69.3	82.1	74.8	62.4	69.9	67.8	75.8	83.9	2.3
Age of Replacement Windows											
Less than 2 Years	7.5	9.7	7.8	5.8	7.5	11.7	7.7	6.9	7.9	5.7	10.5
2-4 Years	7.3	11.6	7.3	5.3	6.7	8.3	7.1	11.0	5.9	4.6	11.5
5-9 Years	6.7	10.5	8.4	3.9	5.7	8.4	7.7	9.0	5.7	3.2	9.9
10-19 Years	4.3	6.6	5.6	2.4	3.8	6.4	5.9	4.5	3.4	2.2	13.9
20 Years or More	1.3	2.1	1.5	0.5	1.5	2.8	1.8	0.9	1.2	Q	23.9
None Replaced	72.9	59.4	69.3	82.1	74.8	62.4	69.9	67.8	75.8	83.9	2.3

See footnotes at end of table.

Table 3.27a. Conservation by Census Region and Climate Zone, Million U.S. Households, 1993 (Continued)

Conservation-Related Items	Total	Census Region				Climate Zone					RSE Row Factors
		Northeast	Midwest	South	West	Fewer than 2,000 CDD and --				More than 2,000 CDD and Fewer than 4,000 HDD	
						More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	0.8	0.8	0.7	0.8	2.3	1.4	1.3	1.5	1.2	
Conservation Measures (Single-Family Units and Mobile Homes Only)											
	72.4	12.5	18.0	27.4	14.5	7.3	18.9	16.0	13.2	17.0	5.3
Types of Insulation in/around Home											
Roof/Ceiling											
Yes	58.6	10.4	15.1	21.8	11.4	6.5	15.8	13.1	9.8	13.5	6.0
No	6.4	1.0	1.3	2.6	1.5	0.4	1.4	1.3	1.7	1.6	15.0
Don't Know	7.4	1.1	1.6	3.0	1.7	0.4	1.8	1.6	1.7	1.9	11.8
Outside Walls											
Yes	50.7	9.4	13.7	18.6	8.9	6.0	14.3	11.5	7.5	11.4	7.0
No	11.4	1.7	2.1	4.4	3.3	0.6	2.3	2.4	3.2	2.9	12.5
Don't Know	10.3	1.4	2.2	4.4	2.3	0.7	2.3	2.1	2.5	2.7	11.5
Floor Insulation											
No Basement/Crawlspace	17.8	1.4	1.3	10.2	4.9	0.3	1.6	2.3	4.0	9.6	13.9
Basement/Crawlspace	49.0	10.5	15.3	14.6	8.6	6.3	15.9	12.9	8.3	5.6	6.4
Heated	20.8	5.1	9.2	3.7	2.8	4.2	8.5	5.8	1.5	0.9	10.4
None or Part Heated	28.2	5.4	6.1	10.9	5.7	2.1	7.4	7.2	6.8	4.7	8.9
Floor Not Insulated	15.7	3.0	4.1	5.6	3.0	1.5	4.2	3.6	3.6	2.7	12.3
Floor Insulated	12.5	2.4	2.0	5.4	2.7	0.6	3.2	3.6	3.2	2.0	12.2
All Parts Insulated	5.9	1.2	1.1	2.5	1.0	0.4	1.6	1.9	1.3	0.7	14.3
Some Parts Insulated	1.6	0.5	0.3	0.5	0.3	Q	0.6	0.5	0.2	0.2	26.5
Don't Know	5.0	0.7	0.6	2.3	1.5	Q	1.0	1.2	1.6	1.0	18.1
Water Heater											
Yes	17.4	3.1	3.8	5.3	5.2	2.2	4.4	3.6	3.9	3.3	9.0
No	51.5	8.9	13.6	20.4	8.6	5.0	13.8	11.6	8.3	12.8	6.4
Don't Know	3.5	0.5	0.6	1.7	0.7	0.1	0.8	0.8	1.0	0.8	17.4
Hot Water Pipes											
Yes	21.9	4.2	4.8	9.2	3.7	2.4	5.5	4.8	3.8	5.4	9.2
No	42.6	7.5	12.2	14.2	8.7	4.7	12.0	9.7	7.3	9.0	6.6
Don't Know	7.8	0.7	1.0	4.0	2.1	0.2	1.4	1.5	2.1	2.6	13.4
Heating/Cooling Ducts											
Yes	21.4	1.9	3.2	12.6	3.7	1.0	3.6	3.5	4.6	8.7	11.2
No	42.6	9.6	13.2	11.2	8.6	5.9	13.6	10.6	6.5	5.9	7.1
Don't Know	8.4	1.0	1.6	3.6	2.2	0.4	1.7	1.9	2.1	2.4	11.6
Weather Stripping											
Yes	45.7	8.7	12.1	16.8	8.1	5.1	12.9	10.1	7.1	10.5	7.2
No	23.3	3.5	5.3	8.9	5.6	2.0	5.5	5.2	5.1	5.5	8.9
Don't Know	3.4	0.3	0.6	1.7	0.8	0.2	0.5	0.7	1.0	0.9	18.3
Caulking											
Yes	51.2	9.2	13.7	19.7	8.6	5.7	13.9	11.5	7.9	12.2	6.7
No	17.1	2.9	3.5	5.9	4.9	1.3	4.1	3.6	4.2	3.9	9.9
Don't Know	4.1	0.4	0.9	1.8	1.0	0.3	0.9	0.9	1.1	0.9	16.9

NF = No applicable RSE row factor.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

Table 3.27b. Conservation by Census Region and Climate Zone, Percent of U.S. Households, 1993 (Continued)

Conservation-Related Items	Total	Census Region				Climate Zone					RSE Row Factors
		Northeast	Midwest	South	West	Fewer than 2,000 CDD and --				More than 2,000 CDD and Fewer than 4,000 HDD	
						More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.0	1.0	0.9	1.0	1.4	1.0	1.1	1.2	1.1	
Conservation Measures (Single-Family Units and Mobile Homes Only)											
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Types of Insulation in/around Home											
Roof/Ceiling											
Yes	81.0	83.3	83.7	79.5	78.4	89.4	83.4	81.9	74.1	79.2	1.7
No	8.8	7.9	7.4	9.4	10.2	4.9	7.3	8.0	12.9	9.6	13.0
Don't Know	10.2	8.8	8.9	11.1	11.4	5.8	9.2	10.1	13.0	11.2	9.8
Outside Walls											
Yes	70.0	75.4	76.4	67.9	61.6	82.1	75.4	72.0	56.9	67.1	3.1
No	15.8	13.4	11.6	16.1	22.4	8.2	12.4	15.1	24.4	16.9	10.7
Don't Know	14.2	11.2	12.0	16.0	16.0	9.7	12.2	12.9	18.7	16.0	9.9
Floor Insulation											
No Basement/Crawlspace	24.6	11.4	7.0	37.1	33.9	4.7	8.3	14.3	30.6	56.2	12.4
Basement/Crawlspace	67.7	84.2	85.1	53.4	59.1	86.3	84.0	80.9	62.8	32.9	2.9
Heated	28.8	40.8	51.1	13.5	19.6	57.5	44.9	36.0	11.1	5.4	7.9
None or Part Heated	38.9	43.4	34.0	39.8	39.5	28.8	39.2	44.9	51.7	27.5	5.7
Floor Not Insulated	21.6	24.2	22.7	20.2	20.8	21.0	22.4	22.2	27.5	15.9	9.3
Floor Insulated	17.3	19.3	11.2	19.6	18.7	7.8	16.7	22.6	24.2	11.6	10.4
All Parts Insulated	8.2	9.8	6.4	9.3	6.9	5.5	8.2	11.9	9.9	4.3	13.1
Some Parts Insulated	2.2	4.1	1.7	1.9	1.8	Q	3.0	3.1	1.8	1.4	24.5
Don't Know	6.9	5.4	3.1	8.4	10.1	Q	5.5	7.6	12.5	5.9	16.0
Water Heater											
Yes	24.0	24.9	21.1	19.2	36.1	30.1	23.2	22.6	29.3	19.7	6.9
No	71.1	71.1	75.5	74.5	59.1	68.3	72.6	72.2	63.3	75.6	2.7
Don't Know	4.9	4.0	3.4	6.2	4.8	1.7	4.2	5.1	7.4	4.8	15.6
Hot Water Pipes											
Yes	30.3	33.8	26.6	33.6	25.6	32.6	29.1	30.3	28.8	31.8	6.2
No	58.9	60.5	67.7	51.8	60.1	64.3	63.5	60.5	55.4	52.7	3.3
Don't Know	10.8	5.8	5.6	14.6	14.3	3.2	7.4	9.2	15.8	15.5	12.1
Heating/Cooling Ducts											
Yes	29.5	15.0	17.9	46.0	25.3	13.3	18.8	22.1	34.9	51.2	8.1
No	58.8	77.0	73.4	40.7	59.3	81.8	72.0	66.0	49.3	34.9	3.7
Don't Know	11.7	8.1	8.7	13.2	15.4	4.9	9.2	11.8	15.8	13.9	11.1
Weather Stripping											
Yes	63.2	69.7	67.4	61.1	56.2	69.9	68.3	63.0	53.8	62.0	3.5
No	32.2	28.1	29.2	32.6	38.5	27.2	28.9	32.4	38.6	32.7	6.8
Don't Know	4.7	2.2	3.4	6.3	5.4	2.9	2.8	4.6	7.6	5.4	18.1
Caulking											
Yes	70.7	74.0	76.0	71.9	59.1	78.1	73.5	72.0	59.6	72.0	2.7
No	23.6	22.9	19.2	21.4	33.8	18.4	21.7	22.4	31.7	22.7	7.8
Don't Know	5.7	3.0	4.8	6.7	7.1	3.5	4.8	5.6	8.7	5.3	15.8

NF = No applicable RSE row factor.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

**Table 3.28a. Conservation by Year of Construction,
Million U.S. Households, 1993**

Conservation-Related Items	Total	Year of Construction									RSE Row Factors
		1991 to 1993 ¹	1988 to 1990	1985 to 1987	1980 to 1984	1970 to 1979	1960 to 1969	1950 to 1959	1940 to 1949	1939 or Before	
RSE Column Factor:	0.3	1.7	1.4	1.5	1.1	0.9	1.0	0.9	1.2	0.8	
Total	96.6	4.5	4.7	5.5	8.5	18.1	15.0	13.1	6.9	20.4	5.2
Adequacy of Insulation (all households)											
Well Insulated	36.0	2.7	2.6	2.6	3.4	6.7	5.9	4.5	2.2	5.5	7.0
Adequately Insulated	38.4	1.4	1.5	2.0	3.8	7.9	6.0	5.1	2.7	8.0	7.6
Poorly Insulated	22.2	0.4	0.6	0.8	1.3	3.6	3.1	3.5	2.0	6.9	9.5
Demand-Side Management Programs											
Were Any Offered by a Utility											
Yes	34.8	1.8	1.9	2.4	3.0	6.1	5.1	5.1	2.4	7.1	7.8
No	40.0	1.5	2.0	2.0	3.4	8.2	6.1	5.2	2.9	8.7	7.6
Don't Know	21.8	1.2	0.8	1.1	2.1	3.9	3.8	2.8	1.6	4.6	9.2
Program Participation in Past 12 Months											
No Program Offered	40.0	1.5	2.0	2.0	3.4	8.2	6.1	5.2	2.9	8.7	7.6
Don't Know	2.7	0.2	0.1	Q	0.2	0.6	0.3	0.4	0.2	0.7	25.2
No	46.4	2.4	2.0	2.8	4.0	8.0	7.8	6.5	3.4	9.5	6.9
Yes (more than one may apply)	7.6	0.4	0.6	0.6	0.8	1.4	0.8	1.0	0.5	1.5	15.3
Energy Audit	1.4	Q	0.1	0.1	Q	0.3	0.2	0.2	Q	0.3	29.8
Load-Control Program	2.6	0.2	0.3	0.3	0.4	0.4	0.3	0.3	Q	0.3	26.7
Equipment or Service	1.7	Q	0.2	0.1	0.2	0.4	0.2	0.1	Q	0.4	30.3
Rebate or Incentive	0.5	Q	Q	Q	Q	Q	Q	Q	Q	Q	61.1
Encouraged to Switch Fuels	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Time-of-Use Rate	1.6	Q	0.1	0.1	0.1	0.3	Q	0.3	Q	0.3	31.6
Does the Home Have Any of the Following:											
Set-Back/Clock Thermostat											
Yes	10.8	1.0	0.9	0.7	0.9	1.9	1.5	1.7	0.4	1.7	13.7
No	85.8	3.4	3.8	4.8	7.6	16.2	13.5	11.4	6.5	18.6	5.5
Regular Heating System/ Furnace Maintenance											
Yes	49.4	2.2	2.5	3.0	4.5	8.6	8.1	6.5	3.3	10.8	6.8
No	47.2	2.2	2.2	2.5	4.0	9.6	6.9	6.6	3.7	9.6	6.9
Trees Shading the Afternoon Summer Sun											
Yes	44.9	1.2	1.4	2.1	3.5	8.4	7.6	7.3	3.7	9.8	7.2
No	51.7	3.2	3.3	3.4	5.0	9.7	7.4	5.8	3.3	10.6	6.6

See footnotes at end of table.

**Table 3.28b. Conservation by Year of Construction,
Percent of U.S. Households, 1993**

Conservation-Related Items	Total	Year of Construction									RSE Row Factors
		1991 to 1993 ¹	1988 to 1990	1985 to 1987	1980 to 1984	1970 to 1979	1960 to 1969	1950 to 1959	1940 to 1949	1939 or Before	
RSE Column Factor:	0.4	1.4	1.4	1.4	1.2	0.9	1.0	0.9	1.2	0.8	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Adequacy of Insulation (all households)											
Well Insulated	37.3	60.2	55.5	47.3	39.9	36.8	39.2	34.2	32.3	27.0	5.2
Adequately Insulated	39.7	31.2	32.0	37.2	44.8	43.6	40.1	38.8	39.2	39.1	5.4
Poorly Insulated	23.0	8.6	12.6	15.4	15.3	19.6	20.7	27.0	28.5	33.9	8.3
Demand-Side Management Programs											
Were Any Offered by a Utility											
Yes	36.0	39.8	39.7	42.9	35.2	33.4	34.1	39.4	35.2	34.8	5.9
No	41.3	34.4	42.8	36.9	40.0	45.2	40.3	39.5	41.3	42.8	5.8
Don't Know	22.6	25.9	17.6	20.2	24.9	21.3	25.5	21.1	23.4	22.4	7.9
Program Participation in Past 12 Months											
No Program Offered	41.3	34.4	42.8	36.9	40.0	45.2	40.3	39.5	41.3	42.8	5.8
Don't Know	2.8	4.2	1.7	Q	2.5	3.1	2.3	2.8	2.8	3.2	24.5
No	48.0	53.5	42.7	50.8	47.7	44.1	51.8	49.8	48.9	46.5	4.5
Yes (more than one may apply)	7.9	7.9	12.9	10.7	9.8	7.5	5.6	8.0	7.0	7.4	14.5
Energy Audit	1.5	Q	3.2	1.4	Q	1.8	1.6	1.2	Q	1.4	29.0
Load-Control Program	2.7	3.6	6.8	6.3	4.6	2.4	2.1	2.1	Q	1.4	26.1
Equipment or Service	1.7	Q	3.3	2.7	1.8	2.3	1.2	1.1	Q	2.0	29.2
Rebate or Incentive	0.5	Q	Q	Q	Q	Q	Q	Q	Q	Q	49.6
Encouraged to Switch Fuels	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Time-of-Use Rate	1.6	Q	2.9	2.7	1.7	1.4	Q	2.1	Q	1.5	30.1
Does the Home Have Any of the Following:											
Set-Back/Clock Thermostat											
Yes	11.2	23.3	18.9	13.1	10.6	10.5	10.1	13.0	6.2	8.6	12.7
No	88.8	76.7	81.1	86.9	89.4	89.5	89.9	87.0	93.8	91.4	1.7
Regular Heating System/ Furnace Maintenance											
Yes	51.1	49.7	53.7	54.2	53.0	47.3	54.2	49.4	47.1	53.0	4.6
No	48.9	50.3	46.3	45.8	47.0	52.7	45.8	50.6	52.9	47.0	4.9
Trees Shading the Afternoon Summer Sun											
Yes	46.5	27.5	29.5	37.4	40.8	46.4	50.8	55.7	52.9	48.1	5.3
No	53.5	72.5	70.5	62.6	59.2	53.6	49.2	44.3	47.1	51.9	4.1

See footnotes at end of table.

**Table 3.28a. Conservation by Year of Construction,
Million U.S. Households, 1993 (Continued)**

Conservation-Related Items	Total	Year of Construction									RSE Row Factors
		1991 to 1993 ¹	1988 to 1990	1985 to 1987	1980 to 1984	1970 to 1979	1960 to 1969	1950 to 1959	1940 to 1949	1939 or Before	
RSE Column Factor:	0.3	1.7	1.4	1.5	1.1	0.9	1.0	0.9	1.2	0.8	
Doors and Windows											
Glass in Sliding Doors to the Outside											
Single Pane	12.2	0.6	0.6	1.1	1.7	3.7	2.5	1.3	0.4	0.4	14.4
Double Pane	18.3	1.3	1.4	1.5	2.6	4.7	3.7	1.7	0.4	0.9	11.7
Untreated	17.5	1.1	1.3	1.5	2.6	4.5	3.6	1.5	0.4	0.9	12.0
Low-E Coating	0.8	0.1	0.1	0.1	Q	0.1	Q	Q	Q	Q	22.2
Triple Pane	0.4	Q	Q	Q	Q	0.2	Q	Q	Q	Q	52.4
No Doors	65.8	2.5	2.7	2.9	4.2	9.5	8.8	10.0	6.1	19.0	5.9
Glass in Most Windows											
Single Pane	61.5	1.6	1.8	2.4	4.9	11.5	9.6	9.5	5.3	15.0	5.8
Double Pane	34.2	2.9	2.9	3.1	3.6	6.4	5.2	3.5	1.6	5.1	7.6
Untreated	32.5	2.6	2.7	2.9	3.5	6.2	5.0	3.2	1.4	4.9	7.9
Low-E Coating	1.7	0.2	0.2	0.1	Q	0.2	0.3	0.3	0.1	0.2	24.8
Triple Pane	0.9	Q	Q	Q	Q	0.2	Q	Q	Q	0.2	31.9
Coverings on Windows											
Storm Windows	36.5	0.9	1.1	1.3	1.9	5.5	5.9	5.2	3.2	11.4	9.0
Plastic Coverings	3.7	Q	0.1	0.2	0.3	0.8	0.3	0.5	0.4	0.9	22.1
Neither	56.4	3.5	3.5	4.1	6.3	11.8	8.7	7.3	3.3	8.0	6.2
Frames in Most Windows											
Metal	53.3	3.0	3.2	4.0	6.7	12.8	9.9	6.3	2.5	4.7	7.0
Nonmetal	43.3	1.5	1.5	1.4	1.7	5.2	5.1	6.8	4.4	15.6	7.7
Number of Original Windows Replaced											
All	10.7	Q	Q	Q	0.2	0.8	1.7	2.5	1.3	4.1	14.0
Some	15.5	0.2	0.3	0.2	0.8	2.1	2.7	2.9	1.6	4.8	12.7
None	70.3	4.3	4.4	5.2	7.5	15.2	10.7	7.7	4.1	11.5	5.5
Type of Replacement Windows											
Single Pane	10.3	0.1	0.2	0.1	0.3	1.1	1.4	2.1	1.4	3.6	15.4
Double Pane	15.2	Q	0.1	0.2	0.7	1.7	2.8	3.3	1.4	4.9	12.3
Untreated	13.7	Q	0.1	0.1	0.7	1.5	2.5	2.8	1.2	4.6	13.0
Low-E Coating	1.5	Q	Q	Q	Q	0.2	0.3	0.5	0.2	0.3	29.4
Triple Pane	0.7	Q	Q	Q	Q	Q	Q	Q	Q	0.3	26.0
None Replaced	70.4	4.3	4.4	5.2	7.5	15.2	10.7	7.7	4.1	11.5	5.5
Age of Replacement Windows											
Less than 2 Years	7.2	0.2	0.1	0.1	0.3	1.1	1.1	1.4	0.9	1.8	16.7
2-4 Years	7.1	Q	0.2	0.1	0.4	0.9	1.4	1.3	0.6	2.2	16.5
5-9 Years	6.5	Q	Q	Q	0.2	0.8	1.2	1.4	0.7	2.2	15.1
10-19 Years	4.2	Q	Q	Q	Q	Q	0.6	1.1	0.4	1.9	17.2
20 Years or More	1.2	Q	Q	Q	Q	Q	Q	Q	0.2	0.8	25.9
None Replaced	70.4	4.3	4.4	5.2	7.5	15.2	10.7	7.7	4.1	11.5	5.5

See footnotes at end of table.

Table 3.28b. Conservation by Year of Construction, Percent of U.S. Households, 1993 (Continued)

Conservation-Related Items	Total	Year of Construction									RSE Row Factors
		1991 to 1993 ¹	1988 to 1990	1985 to 1987	1980 to 1984	1970 to 1979	1960 to 1969	1950 to 1959	1940 to 1949	1939 or Before	
RSE Column Factor:	0.4	1.4	1.4	1.4	1.2	0.9	1.0	0.9	1.2	0.8	
Doors and Windows											
Glass in Sliding Doors to the Outside											
Single Pane	12.6	14.2	12.3	19.1	19.5	20.6	16.5	10.1	5.3	1.9	13.2
Double Pane	18.9	28.5	29.6	28.1	30.4	25.8	24.9	12.9	6.3	4.6	9.8
Untreated	18.1	25.1	28.0	26.9	30.4	25.1	23.9	11.8	5.9	4.5	10.1
Low-E Coating	0.8	3.4	1.6	1.2	Q	0.7	Q	Q	Q	Q	22.6
Triple Pane	0.4	Q	Q	Q	Q	1.0	Q	Q	Q	Q	46.6
No Doors	68.1	57.0	57.9	52.5	49.9	52.6	58.4	76.7	88.4	93.1	3.9
Glass in Most Windows											
Single Pane	63.6	35.0	38.7	43.5	57.3	63.3	64.1	72.4	76.3	73.8	3.6
Double Pane	35.4	64.3	60.6	55.6	42.2	35.4	34.9	26.9	22.5	25.0	5.4
Untreated	33.6	59.2	57.2	52.9	41.9	34.1	33.2	24.4	20.8	24.1	5.7
Low-E Coating	1.7	5.1	3.4	2.7	Q	1.3	1.7	2.5	1.7	0.9	25.0
Triple Pane	0.9	Q	Q	Q	Q	0.8	Q	Q	Q	1.2	30.0
Coverings on Windows											
Storm Windows	37.8	21.2	22.3	22.8	22.4	30.2	39.4	40.2	46.9	56.2	7.1
Plastic Coverings	3.8	Q	2.9	3.3	3.6	4.4	2.3	4.2	5.8	4.5	21.1
Neither	58.3	78.2	74.7	73.9	74.0	64.9	58.2	55.6	47.2	39.2	3.8
Frames in Most Windows											
Metal	55.1	67.3	68.5	73.7	79.4	70.7	66.1	47.9	36.6	23.2	4.1
Nonmetal	44.8	32.7	31.5	26.3	20.6	28.9	33.8	52.1	63.4	76.8	6.1
Number of Original Windows Replaced											
All	11.0	Q	Q	Q	2.3	4.5	11.1	18.8	18.3	20.1	12.0
Some	16.1	3.7	6.0	3.8	9.6	11.5	17.7	22.5	23.0	23.5	11.7
None	72.8	95.4	93.4	94.3	88.1	83.6	71.1	58.6	58.7	56.5	2.1
Type of Replacement Windows											
Single Pane	10.6	2.1	4.0	2.4	3.2	5.9	9.6	15.9	20.2	17.8	14.6
Double Pane	15.8	Q	2.4	3.2	8.6	9.6	18.4	25.1	20.3	24.2	10.8
Untreated	14.2	Q	2.3	2.7	8.3	8.4	16.4	21.6	18.0	22.5	11.5
Low-E Coating	1.6	Q	Q	Q	Q	1.2	2.0	3.5	2.3	1.7	28.1
Triple Pane	0.7	Q	Q	Q	Q	Q	Q	Q	Q	1.6	24.5
None Replaced	72.9	95.4	93.4	94.3	88.1	84.0	71.2	58.6	58.7	56.5	2.1
Age of Replacement Windows											
Less than 2 Years	7.5	4.5	3.0	2.5	4.1	6.2	7.3	11.0	12.6	9.0	16.0
2-4 Years	7.3	Q	3.4	2.0	5.1	4.8	9.6	9.9	9.2	10.6	15.4
5-9 Years	6.7	Q	Q	Q	2.5	4.2	7.8	11.0	9.7	10.7	13.4
10-19 Years	4.3	Q	Q	Q	Q	Q	3.9	8.7	6.4	9.1	15.8
20 Years or More	1.3	Q	Q	Q	Q	Q	Q	Q	3.4	4.1	24.6
None Replaced	72.9	95.4	93.4	94.3	88.1	84.0	71.2	58.6	58.7	56.5	2.1

See footnotes at end of table.

Table 3.28a. Conservation by Year of Construction, Million U.S. Households, 1993 (Continued)

Conservation-Related Items	Total	Year of Construction									RSE Row Factors
		1991 to 1993 ¹	1988 to 1990	1985 to 1987	1980 to 1984	1970 to 1979	1960 to 1969	1950 to 1959	1940 to 1949	1939 or Before	
RSE Column Factor:	0.3	1.7	1.4	1.5	1.1	0.9	1.0	0.9	1.2	0.8	
Conservation Measures (Single-Family Units and Mobile Homes Only)											
	72.4	3.6	3.9	4.1	6.1	12.4	10.8	11.3	5.6	14.6	5.7
Types of Insulation in/around Home											
Roof/Ceiling											
Yes	58.6	3.3	3.4	3.6	5.4	10.3	9.3	8.9	4.4	10.1	6.3
No	6.4	Q	Q	0.1	0.2	0.8	0.6	1.3	0.7	2.6	18.5
Don't Know	7.4	0.2	0.4	0.5	0.6	1.3	1.0	1.2	0.5	1.9	14.8
Outside Walls											
Yes	50.7	3.2	3.5	3.5	4.9	9.4	7.8	6.7	3.3	8.4	6.8
No	11.4	Q	0.2	0.1	0.3	1.1	1.5	2.7	1.5	4.0	15.6
Don't Know	10.3	0.3	0.2	0.5	0.9	1.9	1.5	2.0	0.7	2.3	13.3
Floor Insulation											
No Basement/Crawlspace	17.8	1.4	1.4	1.6	2.9	3.7	2.9	2.4	0.7	1.0	12.6
Basement/Crawlspace	49.0	1.8	1.9	1.9	2.3	6.7	7.3	8.8	4.8	13.6	7.1
Heated	20.8	0.9	1.0	0.8	1.2	3.4	3.5	3.2	1.5	5.4	11.0
None or Part Heated	28.2	0.8	0.9	1.0	1.1	3.3	3.9	5.6	3.3	8.2	9.3
Floor Not Insulated	15.7	0.3	0.3	0.3	0.4	1.3	2.1	3.2	2.1	5.7	13.7
Floor Insulated	12.5	0.6	0.5	0.7	0.7	2.1	1.8	2.4	1.2	2.5	12.7
All Parts Insulated	5.9	0.4	0.4	0.4	0.3	1.2	0.6	1.0	0.5	1.0	16.5
Some Parts Insulated	1.6	Q	Q	Q	Q	0.3	0.2	0.2	0.2	0.4	34.2
Don't Know	5.0	0.2	0.1	0.2	0.3	0.6	0.9	1.1	0.4	1.1	19.3
Water Heater											
Yes	17.4	0.7	1.1	1.0	1.6	3.4	2.5	2.7	1.5	2.8	9.9
No	51.5	2.7	2.6	2.9	4.2	8.3	7.8	8.0	3.9	11.1	6.5
Don't Know	3.5	0.2	0.2	0.2	0.4	0.7	0.4	0.6	0.2	0.7	20.1
Hot Water Pipes											
Yes	21.9	1.5	1.7	1.3	2.3	4.1	2.7	2.9	1.5	3.9	9.0
No	42.6	1.7	1.8	2.2	3.1	6.8	6.8	7.2	3.6	9.5	7.1
Don't Know	7.8	0.4	0.5	0.6	0.7	1.5	1.3	1.2	0.4	1.2	13.9
Heating/Cooling Ducts											
Yes	21.4	1.9	1.8	1.9	2.9	4.2	3.3	2.6	0.8	2.0	10.1
No	42.6	1.2	1.5	1.6	2.3	6.5	6.4	7.3	4.3	11.4	7.5
Don't Know	8.4	0.4	0.5	0.6	1.0	1.6	1.1	1.4	0.5	1.2	14.2
Weather Stripping											
Yes	45.7	2.7	2.8	2.7	4.0	7.8	6.8	6.5	3.3	9.3	7.4
No	23.3	0.8	0.9	1.3	1.7	3.9	3.6	4.3	2.2	4.7	9.1
Don't Know	3.4	0.2	0.2	0.2	0.5	0.7	0.4	0.5	Q	0.7	20.8
Caulking											
Yes	51.2	2.8	2.7	3.1	4.4	9.1	7.8	7.7	3.6	10.0	6.7
No	17.1	0.6	0.9	0.9	1.3	2.5	2.4	2.8	1.8	3.9	10.6
Don't Know	4.1	0.2	0.2	0.2	0.4	0.8	0.5	0.7	0.2	0.8	19.9

¹ Does not include all new construction for 1993.

NF = No applicable RSE row factor.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

Table 3.28b. Conservation by Year of Construction, Percent of U.S. Households, 1993 (Continued)

Conservation-Related Items	Total	Year of Construction									RSE Row Factors
		1991 to 1993 ¹	1988 to 1990	1985 to 1987	1980 to 1984	1970 to 1979	1960 to 1969	1950 to 1959	1940 to 1949	1939 or Before	
RSE Column Factor:	0.4	1.4	1.4	1.4	1.2	0.9	1.0	0.9	1.2	0.8	
Conservation Measures (Single-Family Units and Mobile Homes Only)											
Conservation Measures (Single-Family Units and Mobile Homes Only)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Types of Insulation in/around Home											
Roof/Ceiling											
Yes	81.0	91.6	87.8	86.5	87.5	83.3	85.9	78.7	79.0	69.2	2.2
No	8.8	Q	Q	1.5	2.9	6.5	5.3	11.1	12.7	17.8	16.9
Don't Know	10.2	6.3	9.1	12.0	9.7	10.2	8.8	10.2	8.3	13.0	14.6
Outside Walls											
Yes	70.0	90.5	89.4	84.9	79.9	76.2	72.1	59.1	59.0	57.4	2.9
No	15.8	Q	4.8	2.4	5.3	8.8	13.7	23.6	27.7	27.2	14.1
Don't Know	14.2	7.6	5.8	12.7	14.8	15.0	14.2	17.3	13.4	15.4	12.6
Floor Insulation											
No Basement/Crawlspace	24.6	37.9	35.0	38.4	46.9	29.7	26.9	20.9	13.2	6.5	10.6
Basement/Crawlspace	67.7	48.9	48.8	44.7	37.9	54.1	67.9	78.0	85.9	92.8	4.2
Heated	28.8	25.8	26.7	20.3	19.6	27.2	32.1	28.1	26.3	36.7	9.5
None or Part Heated	38.9	23.1	22.1	24.4	18.3	27.0	35.8	49.9	59.6	56.1	7.5
Floor Not Insulated	21.6	7.7	8.7	6.6	6.8	10.3	19.2	28.7	37.8	38.7	12.5
Floor Insulated	17.3	15.4	13.4	17.8	11.5	16.7	16.6	21.2	21.7	17.4	11.7
All Parts Insulated	8.2	10.5	9.5	10.1	5.4	9.8	5.8	8.9	9.7	7.1	15.9
Some Parts Insulated	2.2	Q	Q	Q	Q	2.4	2.1	2.1	4.0	2.8	32.3
Don't Know	6.9	4.3	3.2	5.7	4.7	4.5	8.7	10.1	8.1	7.5	19.1
Water Heater											
Yes	24.0	20.5	29.1	25.3	25.4	27.8	23.7	23.8	26.2	19.2	8.1
No	71.1	75.1	66.5	70.2	68.8	66.9	72.3	71.0	69.7	75.8	3.0
Don't Know	4.9	4.3	4.4	4.5	5.8	5.3	4.0	5.2	4.1	5.1	19.7
Hot Water Pipes											
Yes	30.3	41.2	42.7	31.4	37.7	33.4	25.0	25.6	27.1	27.0	6.6
No	58.9	46.9	45.4	53.3	50.2	54.9	62.6	64.0	65.2	65.0	3.9
Don't Know	10.8	11.8	12.0	15.3	12.1	11.8	12.3	10.4	7.6	8.0	13.1
Heating/Cooling Ducts											
Yes	29.5	53.2	47.4	45.1	46.9	34.3	30.2	23.2	14.6	13.3	7.8
No	58.8	34.6	39.6	39.4	36.9	52.4	59.4	64.7	76.6	78.2	4.9
Don't Know	11.7	12.2	13.0	15.5	16.2	13.2	10.4	12.2	8.8	8.5	13.2
Weather Stripping											
Yes	63.2	74.2	71.3	63.9	64.7	63.5	63.3	57.2	58.9	63.2	3.9
No	32.2	21.0	24.5	30.3	27.3	31.2	33.4	38.2	38.7	32.3	7.7
Don't Know	4.7	4.8	4.2	5.8	7.9	5.4	3.3	4.6	Q	4.5	20.3
Caulking											
Yes	70.7	77.6	70.5	73.7	71.7	73.8	72.5	68.3	64.2	68.3	3.1
No	23.6	17.1	24.2	21.0	21.1	19.9	22.5	25.1	32.0	26.4	9.1
Don't Know	5.7	5.3	5.2	5.2	7.2	6.3	5.0	6.5	3.8	5.3	19.6

¹ Does not include all new construction for 1993.

NF = No applicable RSE row factor.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

**Table 3.29a. Conservation by Type and Ownership of Housing Unit,
Million U.S. Households, 1993**

Conservation-Related Items	Type and Ownership of Housing Unit													RSE Row Factors
	Total	Single-Family						Multifamily			Mobile Home			
		Total	Own	Rent	Two to Four Units		Five or More Units	Total	Own	Rent	Total	Own	Rent	
					Total	Own	Rent							
RSE Column Factor:	0.3	0.3	0.4	0.8	1.2	2.0	1.4	0.9	2.9	0.9	1.3	1.5	2.1	
Total	96.6	66.8	55.8	11.0	8.0	1.5	6.5	16.2	1.6	14.7	5.6	4.4	1.2	5.8
Adequacy of Insulation (all households)														
Well Insulated	36.0	27.3	25.0	2.3	2.2	0.4	1.8	5.0	0.7	4.3	1.6	1.5	0.1	8.7
Adequately Insulated	38.4	25.9	21.9	3.9	3.3	0.7	2.6	6.9	0.6	6.3	2.3	1.8	0.5	7.9
Poorly Insulated	22.2	13.7	8.8	4.8	2.5	0.4	2.1	4.3	0.2	4.1	1.7	1.1	0.5	10.3
Demand-Side Management Programs														
Were Any Offered by a Utility														
Yes	34.8	28.0	24.6	3.4	2.1	0.6	1.5	3.1	0.4	2.7	1.6	1.3	0.3	9.7
No	40.0	26.0	21.1	4.9	4.0	0.6	3.4	6.8	0.7	6.2	3.1	2.4	0.7	8.3
Don't Know	21.8	12.8	10.1	2.7	1.9	0.2	1.6	6.3	0.5	5.8	0.8	0.6	0.2	11.1
Program Participation in Past 12 Months														
No Program Offered	40.0	26.0	21.1	4.9	4.0	0.6	3.4	6.8	0.7	6.2	3.1	2.4	0.7	8.3
Don't Know	2.7	1.3	1.0	0.3	0.3	Q	0.3	1.0	Q	0.9	Q	Q	Q	23.8
No	46.4	33.0	27.8	5.2	3.3	0.7	2.7	8.1	0.7	7.4	1.9	1.6	0.4	8.1
Yes (more than one may apply)	7.6	6.5	5.8	0.6	0.4	0.1	0.2	0.4	Q	0.3	0.4	0.3	Q	20.7
Energy Audit	1.4	1.3	1.1	0.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	35.5
Load-Control Program	2.6	2.2	2.1	0.2	Q	Q	Q	0.1	Q	Q	0.2	Q	Q	40.4
Equipment or Service	1.7	1.3	1.1	0.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	40.2
Rebate or Incentive	0.5	0.5	0.5	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	60.3
Encouraged to Switch Fuels	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Time-of-Use Rate	1.6	1.4	1.3	0.1	Q	Q	Q	Q	Q	Q	Q	Q	Q	44.6
Does the Home Have Any of the Following:														
Set-Back/Clock Thermostat														
Yes	10.8	9.0	8.3	0.7	0.6	0.3	0.4	1.0	Q	0.7	0.3	0.2	Q	21.4
No	85.8	57.8	47.5	10.3	7.4	1.2	6.1	15.3	1.3	14.0	5.3	4.2	1.1	6.2
Regular Heating System/ Furnace Maintenance														
Yes	49.4	35.7	31.1	4.6	3.7	0.9	2.8	7.7	0.9	6.9	2.3	1.9	0.4	7.7
No	47.2	31.1	24.6	6.5	4.3	0.6	3.7	8.5	0.7	7.8	3.3	2.5	0.8	8.0
Trees Shading the Afternoon Summer Sun														
Yes	44.9	36.8	31.7	5.1	2.6	0.6	2.0	3.1	0.4	2.8	2.4	1.8	0.5	8.7
No	51.7	30.0	24.1	5.9	5.4	0.9	4.5	13.1	1.2	11.9	3.2	2.6	0.7	7.3

See footnotes at end of table.

Table 3.29b. Conservation by Type and Ownership of Housing Unit, Percent of U.S. Households, 1993

Conservation-Related Items	Type and Ownership of Housing Unit													RSE Row Factors	
	Total	Single-Family						Multifamily			Mobile Home				
		Total	Own	Rent	Two to Four Units			Five or More Units			Total	Own	Rent		
					Total	Own	Rent	Total	Own	Rent					
RSE Column Factor:	0.4	0.4	0.4	0.8	1.1	2.0	1.3	0.9	2.6	0.9	1.1	1.3	1.9		
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Adequacy of Insulation (all households)															
Well Insulated	37.3	40.8	44.8	20.7	27.4	26.3	27.6	30.7	45.5	29.1	28.6	33.4	10.7	7.3	
Adequately Insulated	39.7	38.7	39.3	35.5	41.5	48.6	39.9	42.6	38.9	43.0	41.5	40.7	44.2	5.4	
Poorly Insulated	23.0	20.5	15.9	43.8	31.1	25.1	32.5	26.7	15.7	27.9	29.9	25.9	45.1	8.0	
Demand-Side Management Programs															
Were Any Offered by a Utility															
Yes	36.0	41.8	44.0	30.7	26.7	42.0	23.3	19.1	24.3	18.5	29.5	30.0	27.6	8.0	
No	41.3	39.0	37.9	44.6	49.9	42.2	51.6	41.9	42.0	41.9	56.0	55.5	57.8	5.6	
Don't Know	22.6	19.2	18.1	24.7	23.4	15.7	25.1	39.0	33.7	39.6	14.5	14.5	14.6	9.4	
Program Participation in Past 12 Months															
No Program Offered	41.3	39.0	37.9	44.6	49.9	42.2	51.6	41.9	42.0	41.9	56.0	55.5	57.8	5.6	
Don't Know	2.8	2.0	1.9	2.6	4.0	Q	4.1	5.9	Q	6.1	Q	Q	Q	22.0	
No	48.0	49.4	49.8	47.0	41.8	45.2	41.0	49.8	46.8	50.2	34.9	35.2	33.8	5.7	
Yes (more than one may apply)	7.9	9.7	10.4	5.9	4.4	9.0	3.3	2.3	Q	1.9	7.8	7.7	Q	19.5	
Energy Audit	1.5	1.9	1.9	1.7	Q	Q	Q	Q	Q	Q	Q	Q	Q	30.7	
Load-Control Program	2.7	3.3	3.7	1.5	Q	Q	Q	0.9	Q	Q	3.0	Q	Q	37.6	
Equipment or Service	1.7	2.0	2.0	2.1	Q	Q	Q	Q	Q	Q	Q	Q	Q	35.4	
Rebate or Incentive	0.5	0.7	0.9	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	50.4	
Encouraged to Switch Fuels	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF	
Time-of-Use Rate	1.6	2.1	2.3	1.1	Q	Q	Q	Q	Q	Q	Q	Q	Q	38.7	
Does the Home Have Any of the Following:															
Set-Back/Clock Thermostat															
Yes	11.2	13.4	14.8	6.6	7.9	17.7	5.6	5.9	Q	4.9	4.9	4.9	Q	20.8	
No	88.8	86.6	85.2	93.4	92.1	82.3	94.4	94.1	84.8	95.1	95.1	95.1	95.1	1.8	
Regular Heating System/Furnace Maintenance															
Yes	51.1	53.5	55.8	41.5	46.1	62.1	42.5	47.5	55.1	46.7	41.2	43.6	32.1	5.5	
No	48.9	46.5	44.2	58.5	53.9	37.9	57.5	52.5	44.9	53.3	58.8	56.4	67.9	5.0	
Trees Shading the Afternoon Summer Sun															
Yes	46.5	55.1	56.8	46.4	32.3	39.3	30.7	19.4	25.0	18.8	42.5	42.0	44.3	6.9	
No	53.5	44.9	43.2	53.6	67.7	60.7	69.3	80.6	75.0	81.2	57.5	58.0	55.7	4.1	

See footnotes at end of table.

Table 3.29a. Conservation by Type and Ownership of Housing Unit, Million U.S. Households, 1993 (Continued)

Conservation-Related Items	Type and Ownership of Housing Unit													RSE Row Factors
	Total	Single-Family						Multifamily			Mobile Home			
		Total	Own	Rent	Two to Four Units			Five or More Units			Total	Own	Rent	
					Total	Own	Rent	Total	Own	Rent				
RSE Column Factor:	0.3	0.3	0.4	0.8	1.2	2.0	1.4	0.9	2.9	0.9	1.3	1.5	2.1	
Doors and Windows														
Glass in Sliding Doors to the Outside														
Single Pane	12.2	8.3	7.1	1.2	0.5	Q	0.4	3.0	0.6	2.4	0.4	0.3	Q	16.4
Double Pane	18.3	14.2	13.0	1.2	0.8	0.2	0.6	2.9	0.5	2.4	0.4	0.3	Q	16.1
Untreated	17.5	13.5	12.3	1.2	0.8	0.2	0.6	2.9	0.5	2.4	0.4	0.3	Q	16.2
Low-E Coating	0.8	0.7	0.7	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	40.8
Triple Pane	0.4	0.3	0.3	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	66.1
No Doors	65.8	44.1	35.4	8.7	6.6	1.2	5.4	10.3	0.4	9.9	4.8	3.7	1.1	6.1
Glass in Most Windows														
Single Pane	61.5	41.6	32.9	8.7	5.4	0.9	4.5	10.2	0.8	9.4	4.3	3.2	1.1	6.6
Double Pane	34.2	24.5	22.2	2.3	2.6	0.6	2.0	5.8	0.7	5.1	1.2	1.2	Q	8.9
Untreated	32.5	22.9	20.7	2.3	2.5	0.6	2.0	5.8	0.7	5.1	1.2	1.2	Q	8.9
Low-E Coating	1.7	1.6	1.6	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	33.9
Triple Pane	0.9	0.7	0.7	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	36.0
Coverings on Windows														
Storm Windows	36.5	27.6	23.9	3.7	3.0	0.7	2.3	3.4	Q	3.4	2.4	2.1	0.3	9.4
Plastic Coverings	3.7	2.3	1.8	0.6	0.3	Q	0.3	0.5	Q	0.4	0.6	0.4	0.2	21.7
Neither	56.4	36.8	30.1	6.7	4.7	0.7	4.0	12.2	1.4	10.8	2.6	2.0	0.6	7.2
Frames in Most Windows														
Metal	53.3	31.1	26.1	5.0	3.8	0.6	3.2	13.2	1.2	12.0	5.2	4.0	1.1	7.7
Nonmetal	43.3	35.7	29.6	6.1	4.2	0.9	3.3	2.9	0.3	2.6	0.4	0.4	Q	9.1
Number of Original Windows Replaced														
All	10.7	7.3	6.2	1.0	1.1	0.4	0.7	2.2	0.2	2.0	0.1	0.1	Q	14.0
Some	15.5	13.0	11.3	1.7	1.0	0.3	0.7	0.6	0.2	0.5	0.9	0.7	0.2	12.8
None	70.3	46.6	38.2	8.3	5.9	0.8	5.1	13.4	1.2	12.2	4.5	3.6	1.0	6.4
Type of Replacement Windows														
Single Pane	10.3	7.7	6.0	1.7	1.0	0.2	0.7	0.9	Q	0.8	0.7	0.5	0.2	13.5
Double Pane	15.2	11.9	10.9	1.0	1.1	0.4	0.7	1.9	0.2	1.6	0.3	0.3	Q	13.3
Untreated	13.7	10.5	9.5	1.0	1.0	0.4	0.7	1.9	0.2	1.6	0.3	0.3	Q	13.4
Low-E Coating	1.5	1.4	1.4	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	39.6
Triple Pane	0.7	0.7	0.7	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	34.7
None Replaced	70.4	46.6	38.2	8.3	5.9	0.8	5.1	13.4	1.2	12.2	4.5	3.6	1.0	6.4
Age of Replacement Windows														
Less than 2 Years	7.2	5.5	4.5	0.9	0.6	0.1	0.5	0.6	Q	0.6	0.5	0.3	Q	17.0
2-4 Years	7.1	5.1	4.5	0.6	0.7	0.3	0.4	1.0	Q	0.8	0.4	0.3	Q	17.2
5-9 Years	6.5	5.1	4.6	0.5	0.4	0.1	0.2	0.8	Q	0.7	0.1	Q	Q	17.1
10-19 Years	4.2	3.5	3.1	0.3	0.4	Q	0.2	0.3	Q	0.3	Q	Q	Q	22.0
20 Years or More	1.2	1.1	0.8	0.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	41.9
None Replaced	70.4	46.6	38.2	8.3	5.9	0.8	5.1	13.4	1.2	12.2	4.5	3.6	1.0	6.4

See footnotes at end of table.

Table 3.29b. Conservation by Type and Ownership of Housing Unit, Percent of U.S. Households, 1993 (Continued)

Conservation-Related Items	Type and Ownership of Housing Unit													RSE Row Factors
	Total	Single-Family						Multifamily			Mobile Home			
		Total	Own	Rent	Two to Four Units			Five or More Units			Total	Own	Rent	
					Total	Own	Rent	Total	Own	Rent				
RSE Column Factor:	0.4	0.4	0.4	0.8	1.1	2.0	1.3	0.9	2.6	0.9	1.1	1.3	1.9	
Doors and Windows														
Glass in Sliding Doors to the Outside														
Single Pane	12.6	12.4	12.7	10.9	6.1	Q	6.6	18.7	40.3	16.4	7.0	7.4	Q	14.6
Double Pane	18.9	21.2	23.3	10.7	10.6	14.2	9.8	17.9	32.8	16.3	6.3	7.6	Q	14.4
Untreated	18.1	20.2	22.1	10.7	10.2	12.1	9.8	17.6	31.3	16.1	6.3	7.6	Q	14.8
Low-E Coating	0.8	1.0	1.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	34.4
Triple Pane	0.4	0.4	0.5	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	55.6
No Doors	68.1	65.9	63.5	78.4	82.8	79.0	83.6	63.2	25.3	67.3	86.7	85.0	92.9	3.7
Glass in Most Windows														
Single Pane	63.6	62.2	58.9	78.7	67.4	57.8	69.6	63.1	54.3	64.0	76.8	71.6	96.1	3.2
Double Pane	35.4	36.7	39.8	20.9	32.4	41.7	30.3	35.9	44.2	35.0	22.2	27.1	Q	7.3
Untreated	33.6	34.3	37.0	20.8	31.5	37.9	30.0	35.7	42.7	35.0	22.0	26.8	Q	7.6
Low-E Coating	1.7	2.4	2.8	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	28.7
Triple Pane	0.9	1.1	1.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	29.7
Coverings on Windows														
Storm Windows	37.8	41.4	42.8	33.9	37.3	48.6	34.7	21.2	Q	22.9	43.6	47.4	29.7	7.6
Plastic Coverings	3.8	3.5	3.1	5.3	3.8	Q	4.0	2.9	Q	3.1	10.0	8.1	17.1	20.7
Neither	58.3	55.1	54.0	60.7	58.9	48.7	61.3	75.3	91.9	73.6	46.4	44.6	53.2	4.3
Frames in Most Windows														
Metal	55.1	46.6	46.9	45.0	47.3	37.2	49.6	81.2	77.8	81.6	92.7	91.8	96.3	3.4
Nonmetal	44.8	53.4	53.1	55.0	52.7	62.8	50.4	18.2	20.7	17.9	7.3	8.2	Q	7.7
Number of Original Windows Replaced														
All	11.0	10.9	11.2	9.4	13.2	23.7	10.8	13.3	11.9	13.5	2.6	3.1	Q	13.4
Some	16.1	19.4	20.3	15.0	13.1	22.3	11.0	3.9	10.3	3.2	16.0	15.3	18.4	11.9
None	72.8	69.7	68.5	75.5	73.7	54.1	78.2	82.2	76.3	82.8	81.5	81.6	81.0	2.7
Type of Replacement Windows														
Single Pane	10.6	11.5	10.7	15.4	12.2	16.7	11.1	5.7	Q	5.5	12.8	11.8	16.8	12.3
Double Pane	15.8	17.9	19.6	9.0	14.0	28.7	10.7	11.6	15.3	11.2	5.7	6.6	Q	12.8
Untreated	14.2	15.7	17.1	8.7	12.9	24.3	10.3	11.5	15.3	11.1	5.5	6.3	Q	12.9
Low-E Coating	1.6	2.2	2.5	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	33.4
Triple Pane	0.7	1.0	1.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	28.9
None Replaced	72.9	69.7	68.5	75.5	73.7	54.1	78.2	82.8	77.8	83.3	81.5	81.6	81.0	2.7
Age of Replacement Windows														
Less than 2 Years	7.5	8.2	8.2	8.5	7.6	8.9	7.3	3.9	Q	3.9	8.4	7.9	Q	16.2
2-4 Years	7.3	7.6	8.0	5.8	8.3	17.4	6.3	5.9	Q	5.3	7.0	7.5	Q	16.0
5-9 Years	6.7	7.7	8.2	5.0	4.8	10.1	3.6	5.1	Q	4.9	2.5	Q	Q	16.6
10-19 Years	4.3	5.2	5.6	2.9	4.6	Q	3.8	1.9	Q	2.0	Q	Q	Q	21.0
20 Years or More	1.3	1.6	1.5	2.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	36.4
None Replaced	72.9	69.7	68.5	75.5	73.7	54.1	78.2	82.8	77.8	83.3	81.5	81.6	81.0	2.7

See footnotes at end of table.

Table 3.29a. Conservation by Type and Ownership of Housing Unit, Million U.S. Households, 1993 (Continued)

Conservation-Related Items	Type and Ownership of Housing Unit												RSE Row Factors	
	Total	Single-Family			Multifamily			Mobile Home						
		Total	Own	Rent	Two to Four Units		Five or More Units		Total	Own	Rent			
					Total	Own	Rent	Total				Own		Rent
RSE Column Factor:	0.3	0.3	0.4	0.8	1.2	2.0	1.4	0.9	2.9	0.9	1.3	1.5	2.1	
Conservation Measures (Single-Family Units and Mobile Homes Only)	72.4	66.8	55.8	11.0	--	--	--	--	--	--	5.6	4.4	1.2	5.3
Types of Insulation in/around Home														
Roof/Ceiling														
Yes	58.6	54.4	48.5	5.9	--	--	--	--	--	--	4.2	3.5	0.7	6.6
No	6.4	6.0	4.2	1.8	--	--	--	--	--	--	0.4	0.3	Q	16.7
Don't Know	7.4	6.5	3.1	3.3	--	--	--	--	--	--	0.9	0.5	0.4	13.8
Outside Walls														
Yes	50.7	46.1	41.7	4.3	--	--	--	--	--	--	4.6	3.9	0.7	7.3
No	11.4	11.2	8.5	2.7	--	--	--	--	--	--	0.3	0.2	Q	15.5
Don't Know	10.3	9.6	5.6	4.0	--	--	--	--	--	--	0.7	0.4	0.3	14.4
Floor Insulation														
No Basement/Crawlspace	17.8	17.8	13.8	4.0	--	--	--	--	--	--	--	--	--	14.1
Basement/Crawlspace	49.0	49.0	41.9	7.1	--	--	--	--	--	--	--	--	--	5.8
Heated	20.8	20.8	18.8	2.0	--	--	--	--	--	--	--	--	--	12.7
None or Part Heated	28.2	28.2	23.1	5.1	--	--	--	--	--	--	--	--	--	8.8
Floor Not Insulated	15.7	15.7	12.9	2.7	--	--	--	--	--	--	--	--	--	13.0
Floor Insulated	12.5	12.5	10.1	2.4	--	--	--	--	--	--	--	--	--	14.4
All Parts Insulated	5.9	5.9	5.3	0.6	--	--	--	--	--	--	--	--	--	19.2
Some Parts Insulated	1.6	1.6	1.5	0.2	--	--	--	--	--	--	--	--	--	41.1
Don't Know	5.0	5.0	3.4	1.6	--	--	--	--	--	--	--	--	--	21.2
Water Heater														
Yes	17.4	15.7	13.7	2.0	--	--	--	--	--	--	1.7	1.5	0.2	10.7
No	51.5	47.9	40.4	7.5	--	--	--	--	--	--	3.5	2.7	0.8	6.9
Don't Know	3.5	3.2	1.6	1.6	--	--	--	--	--	--	0.3	0.2	0.2	19.4
Hot Water Pipes														
Yes	21.9	18.8	17.0	1.9	--	--	--	--	--	--	3.1	2.7	0.4	9.5
No	42.6	40.7	34.3	6.4	--	--	--	--	--	--	1.9	1.4	0.5	7.7
Don't Know	7.8	7.3	4.5	2.7	--	--	--	--	--	--	0.5	0.3	0.3	13.8
Heating/Cooling Ducts														
Yes	21.4	18.9	17.1	1.8	--	--	--	--	--	--	2.5	2.1	0.3	12.3
No	42.6	40.4	33.8	6.6	--	--	--	--	--	--	2.2	1.6	0.5	7.6
Don't Know	8.4	7.5	4.8	2.7	--	--	--	--	--	--	0.9	0.6	0.3	14.6
Weather Stripping														
Yes	45.7	42.5	37.6	4.9	--	--	--	--	--	--	3.2	2.6	0.6	7.2
No	23.3	21.3	16.5	4.8	--	--	--	--	--	--	2.0	1.5	0.4	10.0
Don't Know	3.4	3.0	1.7	1.4	--	--	--	--	--	--	0.4	0.2	0.2	20.9
Caulking														
Yes	51.2	47.9	42.5	5.4	--	--	--	--	--	--	3.3	2.8	0.5	6.9
No	17.1	15.4	11.2	4.2	--	--	--	--	--	--	1.7	1.3	0.5	11.3
Don't Know	4.1	3.6	2.1	1.4	--	--	--	--	--	--	0.5	0.3	0.2	19.3

-- = Data not applicable.

NF = No applicable RSE row factor.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

Table 3.29b. Conservation by Type and Ownership of Housing Unit, Percent of U.S. Households, 1993 (Continued)

Conservation-Related Items	Type and Ownership of Housing Unit												RSE Row Factors	
	Total	Single-Family						Multifamily			Mobile Home			
		Total	Own	Rent	Two to Four Units			Five or More Units			Total	Own		Rent
					Total	Own	Rent	Total	Own	Rent				
RSE Column Factor:	0.4	0.4	0.4	0.8	1.1	2.0	1.3	0.9	2.6	0.9	1.1	1.3	1.9	
Conservation Measures (Single-Family Units and Mobile Homes Only)	100.0	100.0	100.0	100.0	--	--	--	--	--	--	100.0	100.0	100.0	0.0
Types of Insulation in/around Home														
Roof/Ceiling														
Yes	81.0	81.4	86.9	53.6	--	--	--	--	--	--	75.6	80.5	57.5	4.2
No	8.8	8.9	7.5	16.1	--	--	--	--	--	--	7.4	7.4	Q	15.4
Don't Know	10.2	9.7	5.6	30.2	--	--	--	--	--	--	17.0	12.1	35.1	12.6
Outside Walls														
Yes	70.0	69.0	74.8	39.3	--	--	--	--	--	--	82.5	87.6	63.5	3.8
No	15.8	16.7	15.2	24.5	--	--	--	--	--	--	4.9	4.3	Q	14.3
Don't Know	14.2	14.3	10.0	36.2	--	--	--	--	--	--	12.6	8.1	29.4	13.4
Floor Insulation														
No Basement/Crawlspace	24.6	26.6	24.8	35.8	--	--	--	--	--	--	--	--	--	10.3
Basement/Crawlspace	67.7	73.4	75.2	64.2	--	--	--	--	--	--	--	--	--	4.0
Heated	28.8	31.2	33.8	18.1	--	--	--	--	--	--	--	--	--	10.8
None or Part Heated	38.9	42.2	41.4	46.1	--	--	--	--	--	--	--	--	--	6.8
Floor Not Insulated	21.6	23.4	23.2	24.6	--	--	--	--	--	--	--	--	--	10.8
Floor Insulated	17.3	18.7	18.2	21.5	--	--	--	--	--	--	--	--	--	12.0
All Parts Insulated	8.2	8.8	9.5	5.6	--	--	--	--	--	--	--	--	--	16.4
Some Parts Insulated	2.2	2.4	2.6	1.4	--	--	--	--	--	--	--	--	--	35.9
Don't Know	6.9	7.5	6.1	14.6	--	--	--	--	--	--	--	--	--	18.0
Water Heater														
Yes	24.0	23.5	24.6	17.7	--	--	--	--	--	--	30.9	34.3	18.3	9.0
No	71.1	71.7	72.4	68.2	--	--	--	--	--	--	63.3	61.9	68.6	3.7
Don't Know	4.9	4.8	2.9	14.1	--	--	--	--	--	--	5.7	3.8	13.1	18.8
Hot Water Pipes														
Yes	30.3	28.2	30.4	16.8	--	--	--	--	--	--	55.6	61.8	32.7	7.1
No	58.9	60.9	61.5	58.3	--	--	--	--	--	--	34.6	32.3	43.3	5.3
Don't Know	10.8	10.9	8.1	24.9	--	--	--	--	--	--	9.7	5.9	24.0	12.3
Heating/Cooling Ducts														
Yes	29.5	28.3	30.7	16.4	--	--	--	--	--	--	44.1	48.9	26.5	9.7
No	58.8	60.5	60.7	59.4	--	--	--	--	--	--	38.9	36.9	46.8	6.1
Don't Know	11.7	11.2	8.6	24.2	--	--	--	--	--	--	16.9	14.3	26.7	12.4
Weather Stripping														
Yes	63.2	63.6	67.4	44.2	--	--	--	--	--	--	57.8	60.1	49.4	4.6
No	32.2	31.9	29.6	43.5	--	--	--	--	--	--	35.4	34.8	37.8	7.7
Don't Know	4.7	4.5	3.0	12.3	--	--	--	--	--	--	6.7	5.1	12.8	19.7
Caulking														
Yes	70.7	71.7	76.2	48.9	--	--	--	--	--	--	59.5	64.4	41.3	4.4
No	23.6	23.0	20.0	38.0	--	--	--	--	--	--	30.8	28.7	38.8	9.2
Don't Know	5.7	5.3	3.8	13.1	--	--	--	--	--	--	9.7	6.9	19.9	17.5

-- = Data not applicable.

NF = No applicable RSE row factor.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

**Table 3.30a. Conservation by Family Income,
Million U.S. Households, 1993**

Conservation-Related Items	Total	1993 Family Income							Below Poverty Line		Eli- gible for Fed- eral Assist- ance ¹	RSE Row Factors
		Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or More	100 Per- cent	125 Per- cent		
RSE Column Factor:	0.4	2.2	1.3	1.2	1.0	1.0	1.0	0.9	1.1	1.0	0.8	
Total	96.6	4.1	10.6	11.1	18.4	14.1	17.5	21.0	14.4	19.4	30.7	3.4
Adequacy of Insulation (all households)												
Well Insulated	36.0	1.2	3.8	3.9	6.1	5.3	7.0	8.8	4.7	6.4	10.2	5.5
Adequately Insulated	38.4	1.4	3.7	3.8	7.5	5.8	7.6	8.6	4.6	6.6	11.0	5.5
Poorly Insulated	22.2	1.5	3.1	3.4	4.8	3.0	2.9	3.6	5.1	6.3	9.5	6.7
Demand-Side Management Programs												
Were Any Offered by a Utility												
Yes	34.8	0.8	2.1	3.1	5.7	5.6	7.2	10.4	3.1	4.4	7.7	6.4
No	40.0	2.1	5.7	5.2	8.3	5.5	6.4	6.8	7.6	10.1	15.1	5.3
Don't Know	21.8	1.1	2.8	2.9	4.4	2.9	3.8	3.8	3.7	4.9	7.9	7.7
Program Participation in Past 12 Months												
No Program Offered	40.0	2.1	5.7	5.2	8.3	5.5	6.4	6.8	7.6	10.1	15.1	5.3
Don't Know	2.7	Q	0.6	0.2	0.5	0.3	0.4	0.6	0.4	0.7	1.1	19.8
No	46.4	1.8	3.7	5.0	8.5	7.2	9.1	11.1	5.6	7.4	12.6	5.2
Yes (more than one may apply)	7.6	0.2	0.6	0.7	1.1	1.0	1.5	2.5	0.7	1.1	1.9	15.2
Energy Audit	1.4	Q	Q	0.2	0.1	0.2	0.3	0.5	0.1	0.2	0.3	27.6
Load-Control Program	2.6	Q	Q	0.2	0.4	0.3	0.6	0.9	Q	0.3	0.4	27.8
Equipment or Service	1.7	Q	Q	0.2	0.2	0.3	0.2	0.6	0.2	0.3	0.5	28.5
Rebate or Incentive	0.5	Q	Q	Q	Q	Q	Q	0.3	Q	Q	Q	37.8
Encouraged to Switch Fuels	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Time-of-Use Rate	1.6	Q	Q	Q	0.3	0.3	0.3	0.4	Q	0.1	0.2	32.1
Does the Home Have Any of the Following:												
Set-Back/Clock Thermostat												
Yes	10.8	0.3	0.6	0.7	1.3	1.3	2.3	4.4	0.8	1.1	1.9	14.2
No	85.8	3.8	10.0	10.5	17.0	12.8	15.1	16.6	13.6	18.2	28.8	3.5
Regular Heating System/ Furnace Maintenance												
Yes	49.4	1.6	4.0	4.8	9.2	7.4	9.8	12.7	5.3	7.5	12.8	5.3
No	47.2	2.5	6.6	6.3	9.2	6.7	7.7	8.3	9.1	11.9	17.9	4.6
Trees Shading the Afternoon Summer Sun												
Yes	44.9	1.4	3.7	4.7	8.1	6.9	8.8	11.4	5.0	7.1	11.8	5.1
No	51.7	2.7	6.9	6.4	10.3	7.1	8.7	9.6	9.4	12.3	18.9	4.7

See footnotes at end of table.

Table 3.30b. Conservation by Family Income, Percent of U.S. Households, 1993

Conservation-Related Items	Total	1993 Family Income							Below Poverty Line		Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or More	100 Percent	125 Percent		
RSE Column Factor:	0.5	2.0	1.3	1.2	1.0	1.1	0.9	0.8	1.1	0.9	0.8	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Adequacy of Insulation (all households)												
Well Insulated	37.3	28.4	35.6	35.5	33.1	37.7	39.9	42.1	32.8	33.2	33.2	4.7
Adequately Insulated	39.7	34.3	35.1	34.4	40.7	41.3	43.6	40.9	31.7	34.1	36.0	4.5
Poorly Insulated	23.0	37.3	29.3	30.1	26.2	21.0	16.5	17.0	35.5	32.7	30.8	5.6
Demand-Side Management Programs												
Were Any Offered by a Utility												
Yes	36.0	20.5	19.5	27.6	31.0	39.7	41.4	49.4	21.3	22.6	25.3	5.3
No	41.3	51.6	53.7	46.4	45.0	39.5	36.8	32.4	53.1	52.1	49.1	4.4
Don't Know	22.6	27.9	26.8	26.1	24.1	20.9	21.8	18.2	25.6	25.4	25.6	6.9
Program Participation in Past 12 Months												
No Program Offered	41.3	51.6	53.7	46.4	45.0	39.5	36.8	32.4	53.1	52.1	49.1	4.4
Don't Know	2.8	Q	5.9	1.9	2.7	2.1	2.3	2.8	2.8	3.7	3.5	19.4
No	48.0	43.2	34.6	45.2	46.5	51.4	52.0	52.7	39.0	38.4	41.2	4.0
Yes (more than one may apply)	7.9	4.0	5.7	6.6	5.8	7.0	8.9	12.0	5.0	5.8	6.2	14.4
Energy Audit	1.5	Q	Q	1.4	0.8	1.5	1.8	2.5	0.9	0.9	1.0	26.9
Load-Control Program	2.7	Q	Q	1.6	2.1	2.5	3.6	4.1	Q	1.4	1.4	27.1
Equipment or Service	1.7	Q	Q	1.8	1.3	1.9	1.2	2.7	1.2	1.4	1.6	28.0
Rebate or Incentive	0.5	Q	Q	Q	Q	Q	Q	1.4	Q	Q	Q	35.1
Encouraged to Switch Fuels	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Time-of-Use Rate	1.6	Q	Q	Q	1.9	1.9	1.8	2.1	Q	0.7	0.8	31.4
Does the Home Have Any of the Following:												
Set-Back/Clock Thermostat												
Yes	11.2	6.8	5.5	5.9	7.3	9.2	13.3	20.9	5.8	5.8	6.1	13.4
No	88.8	93.2	94.5	94.1	92.7	90.8	86.7	79.1	94.2	94.2	93.9	1.2
Regular Heating System/Furnace Maintenance												
Yes	51.1	38.6	38.1	43.3	50.0	52.5	56.1	60.3	37.1	38.6	41.7	4.0
No	48.9	61.4	61.9	56.7	50.0	47.5	43.9	39.7	62.9	61.4	58.3	3.4
Trees Shading the Afternoon Summer Sun												
Yes	46.5	34.5	34.5	42.2	44.2	49.2	50.1	54.2	35.0	36.7	38.4	4.2
No	53.5	65.5	65.5	57.8	55.8	50.8	49.9	45.8	65.0	63.3	61.6	3.1

See footnotes at end of table.

**Table 3.30a. Conservation by Family Income,
Million U.S. Households, 1993 (Continued)**

Conservation-Related Items	Total	1993 Family Income							Below Poverty Line		Eli- gible for Fed- eral Assist- ance ¹	RSE Row Factors
		Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or More	100 Per- cent	125 Per- cent		
RSE Column Factor:	0.4	2.2	1.3	1.2	1.0	1.0	1.0	0.9	1.1	1.0	0.8	
Doors and Windows												
Glass in Sliding Doors to the Outside												
Single Pane	12.2	0.3	0.9	1.2	2.2	2.0	2.4	3.3	1.3	1.8	2.9	10.7
Double Pane	18.3	0.4	0.8	1.0	2.7	2.6	4.2	6.6	1.1	1.6	2.9	11.2
Untreated	17.5	0.4	0.8	1.0	2.6	2.6	4.0	6.1	1.1	1.6	2.9	11.4
Low-E Coating	0.8	Q	Q	Q	Q	Q	0.2	0.5	Q	Q	Q	25.0
Triple Pane	0.4	Q	Q	Q	Q	Q	0.2	0.1	Q	Q	Q	43.5
No Doors	65.8	3.3	8.9	9.0	13.5	9.4	10.7	11.0	12.0	15.9	24.9	4.1
Glass in Most Windows												
Single Pane	61.5	3.0	7.8	8.2	12.4	9.1	9.8	11.1	10.8	14.2	22.2	4.0
Double Pane	34.2	1.0	2.7	2.8	5.7	4.9	7.5	9.6	3.5	5.0	8.2	5.9
Untreated	32.5	1.0	2.7	2.7	5.5	4.6	7.0	8.9	3.5	5.0	8.1	6.1
Low-E Coating	1.7	Q	Q	Q	0.2	0.2	0.5	0.7	Q	Q	0.1	25.8
Triple Pane	0.9	Q	Q	Q	0.2	0.1	0.2	0.2	Q	Q	0.2	32.9
Coverings on Windows												
Storm Windows	36.5	1.3	3.7	4.0	7.4	5.7	6.8	7.6	4.6	6.5	10.9	5.5
Plastic Coverings	3.7	0.4	0.4	0.6	1.0	0.5	0.4	0.4	0.9	1.2	1.6	14.8
Neither	56.4	2.4	6.5	6.5	9.9	7.8	10.3	13.0	8.9	11.6	18.1	4.7
Frames in Most Windows												
Metal	53.3	2.4	6.2	6.2	10.3	7.8	9.5	10.8	8.6	11.6	17.6	4.9
Nonmetal	43.3	1.6	4.4	4.9	8.0	6.2	8.0	10.2	5.8	7.8	13.0	5.4
Number of Original Windows Replaced												
All	10.7	0.4	1.3	1.2	2.2	1.6	2.2	1.9	1.7	2.3	3.5	10.4
Some	15.5	0.5	1.3	1.6	2.6	2.2	3.0	4.2	2.1	2.8	4.4	9.4
None	70.3	3.1	8.0	8.3	13.5	10.3	12.3	14.9	10.6	14.3	22.6	3.7
Type of Replacement Windows												
Single Pane	10.3	0.6	1.5	1.5	2.0	1.3	1.5	2.0	2.1	2.8	4.1	9.9
Double Pane	15.2	0.4	1.1	1.3	2.7	2.3	3.6	3.8	1.6	2.1	3.7	9.9
Untreated	13.7	0.4	1.1	1.2	2.5	2.1	3.2	3.2	1.6	2.1	3.6	10.1
Low-E Coating	1.5	Q	Q	Q	0.2	0.2	0.4	0.6	Q	Q	0.1	29.4
Triple Pane	0.7	Q	Q	Q	Q	Q	Q	0.2	Q	Q	Q	28.4
None Replaced	70.4	3.1	8.0	8.3	13.6	10.3	12.3	14.9	10.6	14.3	22.7	3.7
Age of Replacement Windows												
Less than 2 Years	7.2	0.4	0.8	0.7	1.1	1.1	1.4	1.6	1.3	1.7	2.3	12.6
2-4 Years	7.1	0.2	0.7	0.5	1.5	1.1	1.5	1.6	0.9	1.3	2.1	12.7
5-9 Years	6.5	0.2	0.5	0.8	1.1	0.7	1.4	1.7	0.8	1.2	1.9	13.0
10-19 Years	4.2	0.1	0.4	0.6	0.8	0.6	0.7	0.9	0.4	0.7	1.2	17.7
20 Years or More	1.2	Q	Q	0.2	0.3	0.2	Q	0.3	0.2	0.3	0.4	29.9
None Replaced	70.4	3.1	8.0	8.3	13.6	10.3	12.3	14.9	10.6	14.3	22.7	3.7

See footnotes at end of table.

Table 3.30b. Conservation by Family Income, Percent of U.S. Households, 1993 (Continued)

Conservation-Related Items	Total	1993 Family Income							Below Poverty Line		Eli- gible for Fed- eral Assist- ance ¹	RSE Row Factors
		Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or More	100 Per- cent	125 Per- cent		
RSE Column Factor:	0.5	2.0	1.3	1.2	1.0	1.1	0.9	0.8	1.1	0.9	0.8	
Doors and Windows												
Glass in Sliding Doors to the Outside												
Single Pane	12.6	8.0	8.2	10.8	11.8	14.0	13.5	15.9	9.0	9.5	9.4	10.4
Double Pane	18.9	9.6	7.8	8.6	14.5	18.7	24.2	31.3	7.7	8.3	9.4	10.6
Untreated	18.1	9.6	7.8	8.6	14.1	18.5	23.1	29.0	7.7	8.3	9.3	10.7
Low-E Coating	0.8	Q	Q	Q	Q	Q	1.1	2.2	Q	Q	Q	24.3
Triple Pane	0.4	Q	Q	Q	Q	Q	1.0	0.5	Q	Q	Q	42.5
No Doors	68.1	82.4	84.0	80.6	73.5	66.9	61.3	52.4	83.4	82.2	81.1	2.4
Glass in Most Windows												
Single Pane	63.6	74.8	74.0	73.6	67.6	64.4	56.2	53.1	74.9	73.2	72.3	2.4
Double Pane	35.4	23.9	25.7	25.3	31.0	34.6	42.8	45.9	24.4	26.0	26.9	5.1
Untreated	33.6	23.8	25.4	24.7	29.9	33.1	40.1	42.6	24.2	25.8	26.4	5.3
Low-E Coating	1.7	Q	Q	Q	1.1	1.5	2.7	3.3	Q	Q	Q	25.0
Triple Pane	0.9	Q	Q	Q	1.2	1.0	0.9	1.0	Q	Q	0.7	32.3
Coverings on Windows												
Storm Windows	37.8	31.6	34.8	36.1	40.5	40.9	38.7	36.1	31.7	33.8	35.6	4.9
Plastic Coverings	3.8	8.9	4.2	5.1	5.3	3.5	2.3	2.1	6.4	6.2	5.3	14.6
Neither	58.3	58.9	61.0	58.5	54.0	55.6	59.1	61.9	61.8	59.9	58.9	3.2
Frames in Most Windows												
Metal	55.1	59.5	58.3	56.0	56.1	55.8	54.2	51.5	59.6	59.7	57.3	3.4
Nonmetal	44.8	39.9	41.7	43.7	43.6	44.2	45.8	48.5	40.2	40.2	42.5	4.5
Number of Original Windows Replaced												
All	11.0	10.4	12.0	10.4	12.0	11.1	12.5	8.9	11.7	11.6	11.5	9.8
Some	16.1	13.0	12.7	14.8	14.3	15.7	17.0	20.1	14.6	14.4	14.5	8.7
None	72.8	76.0	75.2	74.5	73.5	73.2	70.5	71.0	73.5	73.9	73.8	2.1
Type of Replacement Windows												
Single Pane	10.6	14.1	13.8	13.1	10.8	9.3	8.3	9.7	14.8	14.6	13.4	9.2
Double Pane	15.8	9.3	10.8	11.5	14.9	16.4	20.5	18.2	11.1	11.0	12.1	9.3
Untreated	14.2	9.2	10.6	11.1	13.7	14.7	18.2	15.3	11.0	10.8	11.7	9.6
Low-E Coating	1.6	Q	Q	Q	1.2	1.6	2.3	2.9	Q	Q	Q	28.6
Triple Pane	0.7	Q	Q	Q	Q	Q	Q	1.0	Q	Q	Q	26.6
None Replaced	72.9	76.6	75.2	74.8	73.7	73.2	70.5	71.0	73.7	74.0	74.0	2.1
Age of Replacement Windows												
Less than 2 Years	7.5	8.9	7.9	6.3	6.2	8.1	8.2	7.5	9.3	8.6	7.6	12.1
2-4 Years	7.3	4.5	6.9	4.7	8.3	7.7	8.4	7.7	6.6	6.5	6.7	12.4
5-9 Years	6.7	4.8	5.1	7.0	5.9	5.3	8.2	8.2	5.7	6.0	6.3	12.7
10-19 Years	4.3	3.3	4.0	5.1	4.5	4.3	4.0	4.4	3.1	3.4	3.9	17.4
20 Years or More	1.3	Q	Q	2.2	1.4	1.3	Q	1.2	1.5	1.4	1.4	29.2
None Replaced	72.9	76.6	75.2	74.8	73.7	73.2	70.5	71.0	73.7	74.0	74.0	2.1

See footnotes at end of table.

Table 3.30a. Conservation by Family Income, Million U.S. Households, 1993 (Continued)

Conservation-Related Items	Total	1993 Family Income							Below Poverty Line		Eli-gible for Federal Assist-ance ¹	RSE Row Factors
		Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or More	100 Per-cent	125 Per-cent		
RSE Column Factor:	0.4	2.2	1.3	1.2	1.0	1.0	1.0	0.9	1.1	1.0	0.8	
Conservation Measures (Single-Family Units and Mobile Homes Only)												
	72.4	2.0	6.2	7.1	13.3	11.0	14.0	18.7	8.3	11.8	19.2	4.1
Types of Insulation in/around Home												
Roof/Ceiling												
Yes	58.6	1.2	4.1	5.1	10.0	9.1	12.4	16.6	5.2	7.8	13.2	5.0
No	6.4	0.4	1.2	0.9	1.5	0.9	0.6	1.0	1.6	2.0	2.9	11.9
Don't Know	7.4	0.4	0.9	1.1	1.9	1.0	0.9	1.1	1.5	2.0	3.1	11.4
Outside Walls												
Yes	50.7	1.1	3.4	4.3	9.1	7.9	10.7	14.2	4.4	6.7	11.3	5.6
No	11.4	0.5	1.6	1.6	2.1	1.6	1.6	2.5	2.1	2.7	4.3	10.0
Don't Know	10.3	0.4	1.2	1.3	2.1	1.5	1.7	2.0	1.9	2.4	3.6	9.6
Floor Insulation												
No Basement/Crawl/space	17.8	0.5	1.4	1.4	2.8	2.7	3.7	5.1	2.2	2.8	4.3	10.4
Basement/Crawl/space	49.0	1.2	3.9	4.8	8.9	7.2	9.5	13.3	5.0	7.4	12.6	4.9
Heated	20.8	0.2	0.9	1.6	3.2	3.2	4.5	7.0	1.1	1.8	3.7	10.0
None or Part Heated	28.2	1.0	3.0	3.2	5.7	4.0	5.0	6.3	3.9	5.5	8.9	6.5
Floor Not Insulated	15.7	0.6	1.8	2.0	3.3	2.1	2.4	3.4	2.4	3.2	5.2	9.0
Floor Insulated	12.5	0.4	1.2	1.2	2.4	1.9	2.5	2.9	1.6	2.3	3.7	10.4
All Parts Insulated	5.9	0.1	0.4	0.4	1.1	0.9	1.4	1.5	0.5	0.8	1.5	14.8
Some Parts Insulated	1.6	Q	0.1	Q	0.3	0.3	0.4	0.4	0.1	0.2	0.4	27.6
Don't Know	5.0	0.2	0.7	0.6	1.0	0.7	0.7	1.0	0.9	1.3	1.8	14.3
Water Heater												
Yes	17.4	0.4	1.2	1.5	3.5	2.6	3.5	4.8	1.8	2.6	4.0	8.7
No	51.5	1.4	4.3	5.3	9.1	8.1	10.0	13.3	5.7	8.1	13.6	5.0
Don't Know	3.5	0.2	0.7	0.4	0.7	0.4	0.5	0.6	0.9	1.1	1.6	15.9
Hot Water Pipes												
Yes	21.9	0.6	1.5	1.8	4.0	3.6	4.6	5.8	2.2	3.3	5.3	7.9
No	42.6	1.0	3.5	4.7	7.7	6.3	8.2	11.2	4.5	6.5	11.2	5.8
Don't Know	7.8	0.4	1.2	0.7	1.6	1.1	1.2	1.7	1.6	2.1	2.7	11.3
Heating/Cooling Ducts												
Yes	21.4	0.3	1.3	1.2	3.4	3.4	4.9	6.9	1.6	2.3	3.7	10.6
No	42.6	1.2	3.8	5.0	8.3	6.5	7.6	10.1	5.1	7.5	12.6	5.3
Don't Know	8.4	0.5	1.0	0.9	1.7	1.1	1.5	1.7	1.6	2.0	2.8	11.6
Weather Stripping												
Yes	45.7	1.0	2.9	3.6	8.2	7.2	9.9	12.9	3.8	5.7	9.7	5.6
No	23.3	0.9	2.7	3.1	4.4	3.3	3.6	5.1	3.7	5.1	8.1	7.2
Don't Know	3.4	0.1	0.6	0.4	0.7	0.4	0.4	0.7	0.8	1.1	1.4	17.6
Caulking												
Yes	51.2	1.0	3.2	4.4	8.8	8.2	10.9	14.5	4.2	6.5	11.1	5.4
No	17.1	0.8	2.4	2.0	3.6	2.3	2.4	3.6	3.2	4.1	6.4	8.2
Don't Know	4.1	0.2	0.6	0.7	0.8	0.5	0.6	0.6	0.9	1.2	1.7	15.7

¹ Below 150 percent of poverty line or 60 percent of median State income.

NF = No applicable RSE row factor.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

Table 3.30b. Conservation by Family Income, Percent of U.S. Households, 1993 (Continued)

Conservation-Related Items	Total	1993 Family Income							Below Poverty Line		Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or More	100 Percent	125 Percent		
RSE Column Factor:	0.5	2.0	1.3	1.2	1.0	1.1	0.9	0.8	1.1	0.9	0.8	
Conservation Measures (Single-Family Units and Mobile Homes Only)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Types of Insulation in/around Home												
Roof/Ceiling												
Yes	81.0	61.9	66.3	71.0	75.1	82.7	89.0	88.8	62.5	65.8	69.0	2.5
No	8.8	19.2	18.6	13.0	11.0	8.0	4.2	5.2	19.0	16.9	15.0	11.5
Don't Know	10.2	18.9	15.1	16.0	14.0	9.3	6.8	5.9	18.5	17.3	16.0	10.7
Outside Walls												
Yes	70.0	52.4	55.3	60.2	68.2	71.9	76.3	76.0	52.9	56.6	58.8	3.4
No	15.8	25.7	25.3	21.8	16.1	14.1	11.6	13.2	24.8	22.7	22.3	9.4
Don't Know	14.2	21.9	19.4	18.0	15.7	13.9	12.1	10.8	22.3	20.7	18.9	8.9
Floor Insulation												
No Basement/Crawlspace	24.6	26.4	22.6	20.0	21.4	24.9	26.8	27.2	26.0	23.6	22.4	9.1
Basement/Crawlspace	67.7	61.2	63.6	67.7	67.2	65.3	68.2	71.2	60.3	62.1	65.8	3.5
Heated	28.8	11.4	15.0	23.1	24.4	29.5	32.5	37.3	13.0	15.4	19.3	9.3
None or Part Heated	38.9	49.8	48.6	44.6	42.8	35.8	35.7	33.9	47.3	46.7	46.6	5.4
Floor Not Insulated	21.6	30.5	28.5	28.4	24.9	18.8	17.5	18.3	28.4	27.4	27.3	8.2
Floor Insulated	17.3	19.3	20.1	16.2	17.9	17.0	18.2	15.6	18.9	19.3	19.3	9.9
All Parts Insulated	8.2	7.3	7.1	5.9	8.4	7.9	10.0	8.1	6.1	6.8	7.7	14.5
Some Parts Insulated	2.2	Q	2.1	Q	2.1	2.7	3.0	2.0	1.6	1.6	2.1	27.3
Don't Know	6.9	11.4	10.9	8.8	7.5	6.4	5.2	5.5	11.2	10.9	9.5	14.0
Water Heater												
Yes	24.0	19.9	19.9	20.7	26.0	23.2	24.8	25.7	21.3	22.3	21.0	7.7
No	71.1	69.8	69.5	73.8	68.6	73.2	71.5	70.9	68.3	68.3	70.9	2.8
Don't Know	4.9	10.4	10.6	5.4	5.4	3.6	3.7	3.4	10.4	9.4	8.1	15.5
Hot Water Pipes												
Yes	30.3	29.6	24.8	25.4	30.0	32.6	32.7	31.1	26.1	27.5	27.4	6.8
No	58.9	51.9	56.5	65.4	58.2	57.0	58.8	59.7	54.8	55.2	58.4	4.0
Don't Know	10.8	18.5	18.7	9.3	11.8	10.3	8.5	9.2	19.1	17.3	14.2	10.7
Heating/Cooling Ducts												
Yes	29.5	15.1	21.4	17.3	25.5	30.6	35.0	36.6	18.8	19.2	19.5	9.0
No	58.8	59.0	62.1	70.7	62.0	59.1	54.3	54.1	61.9	63.7	65.7	3.9
Don't Know	11.7	25.9	16.6	12.0	12.5	10.3	10.6	9.3	19.3	17.1	14.8	11.0
Weather Stripping												
Yes	63.2	49.4	46.6	50.0	61.7	65.7	70.9	68.9	45.4	48.3	50.4	3.8
No	32.2	43.3	44.0	43.8	33.3	30.3	26.1	27.4	44.8	42.7	42.4	5.6
Don't Know	4.7	7.3	9.5	6.2	5.0	4.1	3.0	3.6	9.8	8.9	7.1	17.5
Caulking												
Yes	70.7	50.8	51.4	62.2	66.4	74.7	78.3	77.6	50.5	54.9	57.7	3.3
No	23.6	40.9	38.4	28.1	27.3	20.5	17.2	19.1	39.2	35.0	33.3	7.0
Don't Know	5.7	8.3	10.2	9.7	6.3	4.8	4.5	3.3	10.3	10.0	9.0	15.3

¹ Below 150 percent of poverty line or 60 percent of median State income.

NF = No applicable RSE row factor.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)