A Look at Residential Energy Consumption in 1997

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Energy Information Administration
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Table CE1-3c. Total Energy Consumption in U.S. Households by Household Income, 1997

	Total	1997 Household Income					Eli- gible for			
RSE Column Factor:		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999 0.8	\$50,000 or More	Below Poverty Line	Fed- eral Assist- ance ¹	RSE Row Factors		
									_	Million Households
otal U.S. Households	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.7		
lumber of Households, Fuels Used (more han one may apply):										
Electricity ²	101.4	13.3	29.1	31.1	27.9	14.6	34.0	2.7		
Natural Gas	61.9	8.0	17.0	19.0	17.9	9.1	20.4	4.		
Fuel Oil	10.0	1.3	2.5	3.2	3.0	1.4	3.4	10.		
Kerosene	3.5	0.4	1.2	1.2	0.6	0.6	1.4	14.		
LPG	8.1	1.0	2.4	2.7	1.9	1.2	2.8	12.		
Wood	15.0	0.7	3.0	4.7	6.7	1.1	3.0	9.		
	Quadrillion Btu									
otal Btu Consumption, Fuels Used: Electricity										
Primary	10.72	1.01	2.69	3.27	3.74	1.24	2.98	3.		
Site	3.54	0.33	0.89	1.08	1.24	0.41	0.99	3.		
Natural Gas	5.28	0.53	1.30	1.65	1.80	0.63	1.53	5.		
Fuel Oil	1.01	0.11	0.22	0.31	0.37	0.11	0.30	11.		
Kerosene	0.06	0.01	0.02	0.02	0.01	0.01	0.03	23		
PG	0.36	0.04	0.11	0.13	0.08	0.04	0.12	15		
Wood	0.43	0.03	0.10	0.14	0.15	0.04	0.12	14.		
Total (excludes primary electricity and wood)	10.25	1.02	2.54	3.19	3.49	1.22	2.96	3.		
•	Physical Units									
Physical Units of Total Consumption,										
uels Used:										
Electricity (billion kWh)	1,037	98	260	317	362	120	289	3.		
Natural Gas (billion cf)	5,143	516	1,270	1,604	1,752	618	1,490	5		
Fuel Oil (million gallons)	7,273	761	1,598	2,262	2,653	811	2,138	11		
Kerosene (million gallons)	437	67	161	154	54	98	193	23		
LPG (million gallons)	3,937	412	1,177	1,428	920	484	1,286	15		
Nood (million cords)	21.4	1.7	4.9	7.1	7.6	2.1	6.1	14		
<u>-</u>	Million Btu per Household ³									
otal Btu Consumption per Household, uels Used:										
Electricity	105.6	76.2	92.3	105.2	134.1	85.1	87.7	2		
Primary	34.9	25.2	30.5	34.7	44.3	28.1	28.9	2		
Natural Gas	85.3	66.4	76.7	86.9	100.3	69.4	75.0	3		
uel Oil	101.2	81.3	87.9	99.4	123.1	80.8	86.5	4		
Kerosene	17.0	22.3	17.5	17.5	11.5	21.2	18.8	19		
_PG	44.6	36.3	44.1	48.6	43.9	38.2	42.2	9		
	28.5	49.9	33.4	30.7	22.7	38.9	40.4	12		
VVOOG										
Wood Total (excludes primary electricity	20.0	10.0								

See footnotes at end of table.

Table CE1-5u. Total Energy Consumption and Expenditures in U.S. Households by Household Demographics, 1997

	Total End-Use Energy								
Household Demographics RSE Column Factor:		То	tal	Per Ho					
	Households (millions)	Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	RSE Row Factor			
	1.1	1.4	1.3	0.8					
Total	101.5	10.25	135.79	101.0	1,338	1.2			
Harrach and Class									
Household Size	25.6	1.04	24 50	74.7	000	0.0			
1 Person	25.6	1.91	24.59	74.7	962	2.3			
2 Persons	33.0 17.4	3.34 1.91	44.42 25.61	101.2 109.5	1,347	2.0			
					1,471	2.5			
4 Persons	15.2	1.79	23.94	117.7	1,571	2.8			
5 Persons	6.4 3.9	0.80 0.50	10.53 6.71	123.9 129.6	1,640 1,734	4.8 6.5			
ou More Persons	3.9	0.50	0.71	129.0	1,734	0.0			
1997 Household Income Category									
Less than \$5,000	3.8	0.30	3.85	81.3	1,028	6.5			
\$5.000 to \$9.999	9.6	0.71	9.41	74.4	985	5.			
\$10,000 to \$14,999	10.3	0.86	10.97	83.2	1.063	4.4			
\$15,000 to \$19,999	10.4	0.91	12.29	87.6	1,182	3.9			
\$20,000 to \$24,999	8.4	0.77	10.39	91.7	1,233	3.7			
\$25,000 to \$34,999	15.6	1.53	19.94	98.0	1,276	3.0			
\$35,000 to \$49,999	15.5	1.66	21.61	107.1	1,394	2.5			
\$50,000 to \$74,999	16.4	1.96	26.25	119.1	1,599	3.2			
\$75,000 or More	11.5	1.54	21.08	133.9	1,835	4.1			
Below Poverty Line	44.0	4.00	45.05						
100 Percent	14.6	1.22	15.95	83.0	1,088	3.5			
125 Percent	19.7	1.63	21.56	82.9	1,096	3.4			
150 Percent	26.7	2.25	29.85	84.2	1,117	2.8			
Eligible for Federal									
Assistance ¹	34.1	2.96	38.86	86.7	1,140	2.5			
Age of Householder									
Under 25 Years	5.7	0.39	5.52	69.7	974	5.3			
25 to 34 Years	18.5	1.63	21.93	87.7	1,184	2.9			
35 to 44 Years	23.2	2.49	33.40	107.4	1.441	2.3			
45 to 59 Years	25.6	2.90	38.89	113.4	1,519	2.			
60 Years and Over	28.5	2.83	36.05	99.4	1,265	2.6			
Race of Householder									
White	78.5	8.16	108.12	103.9	1.378	1.4			
Black	12.7	1.34	17.16	105.3	1,351	4.6			
Other ²	10.3	0.75	10.51	72.8	1,020	4.9			
Householder of Hispanic					-				
Descent			40.00						
Yes	9.4	0.72	10.27	75.9	1,089	4.7			
No	92.1	9.53	125.52	103.5	1,364	1.3			

<sup>Below 150 percent of poverty line or 60 percent of median State income.

Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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.

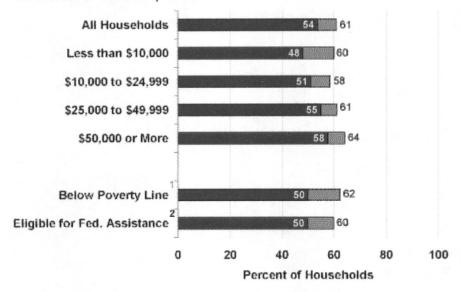
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1997 Residential Energy Consumption Survey.</sup>

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Household Income

The use of natural gas for any end use and as the main heating fuel was approximately the same regardless of household income category (Figure 1). In contrast, natural gas consumption and expenditures per household did vary by household income—higher income households consumed more and spent more on average (Figures 2 and 3). Higher income households lived in larger housing units, which require more energy for heating. Natural gas prices varied little by household income (Figure 4).

Figure 1. Percent of Households That Use Natural Gas by Household Income, 1997



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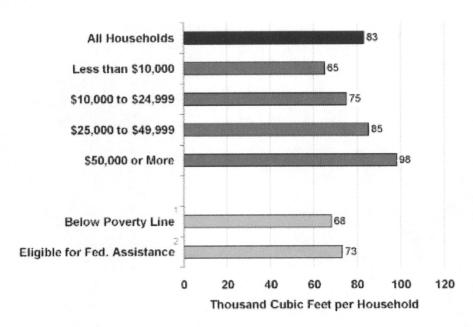
Notes:

- 1. Poverty line: Low-income classification defined by U.S. Census Bureau and U.S. Office of Management and Budget.
- 2. Eligible for Federal assistance: Below 150 percent of U.S. poverty line or equal to, or below, 60 percent of median State income.

Source: Residential Energy Consumption Survey 1997.

Figure 2. Natural Gas Consumption per Household by Household Income, 1997

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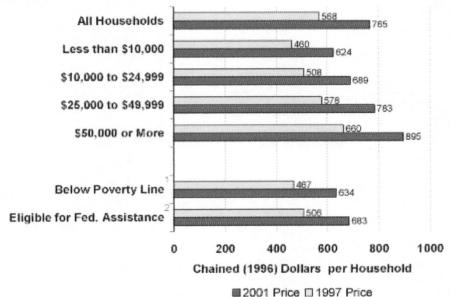
Notes:

1. Poverty line: Low-income classification defined by U.S. Census Bureau and U.S. Office of Management and Budget.

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Source: Residential Energy Consumption Survey 1997.

Figure 3. Natural Gas Expenditures per Household in 1997 by Household Income (Based on 1997 and 2001 Prices)



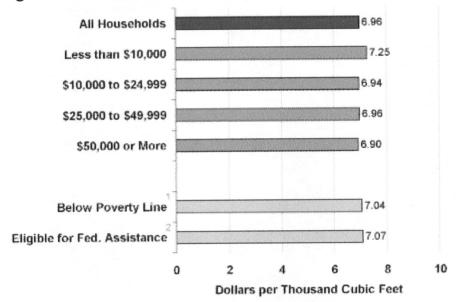
Notes

1. Poverty line: Low-income classification defined by U.S. Census Bureau and U.S. Office of Management and Budget.

2. Eligible for Federal assistance: Below 150 percent of U.S. poverty line or equal to, or below, 60 percent of median State income.

Source: Residential Energy Consumption Survey 1997 and EIA, Short-Term Energy Outlook February 2001.

Figure 4. Natural Gas Prices by Household Income, 1997



Notes:

1. Poverty line: Low-income classification defined by U.S. Census Bureau and U.S. Office of Management and Budget.

2. Eligible for Federal assistance: Below 150 percent of U.S. poverty line or equal to, or below, 60 percent of median State income.

Source: Residential Energy Consumption Survey 1997.

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