



Nuclear Regulatory Commission

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08/17/2011

EIA - Consumption & Efficiency - Residential Energy Consumption Survey (RECS) - Data



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- Housing Characteristics
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Housing Characteristics

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Floorspace - Housing Characteristics	PDF (all tables)
Floorspace - Living Space	PDF (all tables)
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Household Demographics	PDF (all tables)
Space Heating - Characteristics	PDF (all tables)
Space Heating - Usage Indicators	PDF (all tables)
Air Conditioning - Characteristics	PDF (all tables)
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Home Electronics - Usage Indicators	PDF (all tables)
Lighting - Usage Indicators	PDF (all tables)

Consumption & Expenditures

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Summary Statistics (revised January 2009)	PDF (all tables)
Space Heating	PDF (all tables)
Air Conditioning	PDF (all tables)
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Home Appliances and Lighting	PDF (all tables)

2005 RECS Data

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Manufacturing - MECS

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**The following tables were taken from
Energy Administration, Office of Energy
Markets and End Use.**

**Form EIS-457; A through G
2005 Residential Energy Consumption Survey**

Note: Yellow highlighting in tables was added by NRC staff for easy reference to relevant numbers.

Data can be found online at: <http://www.eia.gov/consumption/residential/data/2005/>.

Table SH3. Total Consumption for Space Heating by Major Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Total U.S. Using a Major Space Heating Fuel ⁴ (millions)	Major Fuels Used ⁴ (physical units)				
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	Kerosene ⁵ (million gal)	LPG (million gal)
Total.....	111.1	106.3	82	2,870	5,251	127	3,521
Census Region and Division							
Northeast.....	20.6	20.1	7	768	4,303	26	359
New England.....	5.5	5.3	1	176	1,828	Q	121
Middle Atlantic.....	15.1	14.9	6	592	2,474	Q	238
Midwest.....	25.6	24.8	15	1,178	418	Q	1,350
East North Central.....	17.7	17.1	10	886	389	Q	818
West North Central.....	7.9	7.8	5	292	Q	Q	532
South.....	40.7	39.5	45	484	349	64	1,316
South Atlantic.....	21.7	20.8	26	245	331	54	541
East South Central.....	6.9	6.7	10	107	Q	Q	439
West South Central.....	12.1	11.9	10	132	N	N	336
West.....	24.2	21.9	15	440	181	Q	496
Mountain.....	7.6	7.2	4	191	Q	N	380
Pacific.....	16.6	14.6	11	248	Q	Q	116
Four Most Populated States							
New York.....	7.1	6.9	2	261	1,459	Q	Q
Florida.....	7.0	6.3	4	Q	N	Q	Q
Texas.....	8.0	7.8	6	74	N	N	Q
California.....	12.1	10.7	4	140	Q	N	Q
All Other States.....	76.9	74.6	66	2,390	3,774	118	3,239
Urban/Rural Location (as Self-Reported)							
City.....	47.1	44.3	30	1,265	1,509	13	100
Town.....	19.0	18.5	12	644	1,220	10	151
Suburbs.....	22.7	22.2	16	731	872	Q	184
Rural.....	22.3	21.3	24	230	1,650	92	3,085

Table SH3. Total Consumption for Space Heating by Major Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Total U.S. Using a Major Space Heating Fuel ⁴ (millions)	Major Fuels Used ⁴ (physical units)				
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	Kerosene ⁵ (million gal)	LPG (million gal)
Thermostats							
Do Not Have a Thermostat.....	15.3	12.8	10	243	604	Q	511
Have a Thermostat.....	95.8	93.5	73	2,627	4,646	88	3,010
1.....	84.5	82.4	61	2,270	3,645	73	2,485
2 or More.....	11.3	11.2	12	358	1,001	Q	525
Have a Programmable Thermostat							
Yes.....	33.1	32.6	20	1,036	1,250	38	929
No.....	62.7	60.9	52	1,591	3,396	50	2,081
Use of Programmable Thermostats							
Reduces Temperature During Day							
Yes.....	18.6	18.4	10	643	774	Q	409
No.....	14.5	14.2	10	393	476	Q	520
Reduces Temperature at Night							
Yes.....	21.5	21.2	12	720	820	20	488
No.....	11.6	11.4	8	316	430	Q	441

1 One of five climatically distinct areas, determined according to the 30-year average (1971-2000) of the annual heating and cooling degree-days. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

2 Below 150 percent of poverty line or 60 percent of median state income.

3 Respondents were permitted to select more than one racial category to describe themselves. The "Other" category includes Native Americans, Native Alaskans, and Pacific Islanders.

4 The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

5 Kerosene consumption and expenditure estimates could only be calculated for space heating since too few cases in the sample had viable data for water heating and appliances. Therefore, total estimates for kerosene equal space heating estimates for kerosene.

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

N = No cases in the reporting sample.

(*) Number less than 0.5, 0.05, or 0.005 depending on the number of significant digits in the column, rounded to zero.

Notes: • 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 2005 Residential Energy Consumption Survey.

Table AC2. Total Consumption for Air-Conditioning by Equipment Type, 2005
Billion kWh

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (billion kWh)		
			Total	Central System ⁵	Window/Wall Units ⁶
Total.....	111.1	91.4	258.0	224.0	34.0
Census Region and Division					
Northeast.....	20.6	16.3	22.0	12.0	10.0
New England.....	5.5	3.7	3.0	1.0	2.0
Middle Atlantic.....	15.1	12.6	19.0	11.0	8.0
Midwest.....	25.6	23.4	42.0	37.0	6.0
East North Central.....	17.7	15.9	26.0	22.0	4.0
West North Central.....	7.9	7.5	16.0	14.0	2.0
South.....	40.7	38.9	166.0	149.0	16.0
South Atlantic.....	21.7	20.7	81.0	75.0	6.0
East South Central.....	6.9	6.6	24.0	21.0	3.0
West South Central.....	12.1	11.7	60.0	52.0	8.0
West.....	24.2	12.9	29.0	26.0	2.0
Mountain.....	7.6	4.3	18.0	17.0	Q
Pacific.....	16.6	8.5	11.0	9.0	2.0
Four Most Populated States					
New York.....	7.1	5.3	6.0	2.0	4.0
Florida.....	7.0	7.0	41.0	40.0	2.0
Texas.....	8.0	7.7	43.0	39.0	4.0
California.....	12.1	6.6	9.0	8.0	1.0
All Other States.....	76.9	65.0	158.0	135.0	23.0
Urban/Rural Location (as Self-Reported)					
City.....	47.1	37.8	105.0	89.0	15.0
Town.....	19.0	15.9	40.0	33.0	7.0
Suburbs.....	22.7	19.8	64.0	60.0	4.0
Rural.....	22.3	18.0	50.0	42.0	8.0

Table AC2. Total Consumption for Air-Conditioning by Equipment Type, 2005
Billion kWh

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (billion kWh)		
			Total	Central System ⁵	Window/Wall Units ⁶
Thermostats					
Do Not Have a Thermostat.....	15.3	10.4	24.0	9.0	15.0
Have a Thermostat.....	95.8	81.1	235.0	215.0	19.0
1.....	84.5	71.3	203.0	187.0	17.0
2 or More.....	11.3	9.8	31.0	28.0	3.0
Have a Programmable Thermostat					
Yes.....	33.1	28.7	89.0	85.0	3.0
No.....	62.7	52.4	146.0	130.0	16.0
Use of Programmable Thermostats					
Reduces Temperature During Day					
Yes.....	18.6	16.3	49.0	47.0	2.0
No.....	14.5	12.4	40.0	38.0	2.0
Reduces Temperature at Night					
Yes.....	21.5	18.6	57.0	55.0	2.0
No.....	11.6	10.1	32.0	30.0	1.0

1 One of five climatically distinct areas, determined according to the 30-year average (1971-2000) of the annual heating and cooling degree-days. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

2 Below 150 percent of poverty line or 60 percent of median state income.

3 Respondents were permitted to select more than one racial category to describe themselves. The "Other" category includes Native Americans, Native Alaskans, and Pacific Islanders.

4 Only applies to households using central air-conditioning.

5 In the 2005 RECS, 1.5 million housing units reported having both central and window/wall air conditioners. They are included in this column.

6 In the 2005 RECS, 1.5 million housing units reported having both central and window/wall air conditioners. They are not included in this column.

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

N = No cases in the reporting sample.

(*) Number less than 0.5, 0.05, or 0.005 depending on the number of significant digits in the column, rounded to zero.

Notes: • 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 2005 Residential Energy Consumption Survey.

Table US3. Total Consumption by Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Fuels Used (physical units)					
		Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	Kerosene ⁴ (million gal)	LPG (million gal)	Wood (million cords)
Total.....	111.1	1,275	4,655	6,237	127	5,742	21.4
Census Region and Division							
Northeast.....	20.6	169	1,113	5,192	26	759	4.4
New England.....	5.5	41	239	2,157	Q	239	1.0
Middle Atlantic.....	15.1	129	874	3,035	Q	520	3.4
Midwest.....	25.6	276	1,675	426	Q	1,943	6.6
East North Central.....	17.7	186	1,252	389	Q	1,188	4.5
West North Central.....	7.9	90	423	Q	Q	755	2.1
South.....	40.7	606	912	408	64	1,972	5.9
South Atlantic.....	21.7	319	421	373	54	772	2.9
East South Central.....	6.9	110	165	Q	Q	564	1.6
West South Central.....	12.1	177	326	N	N	637	1.4
West.....	24.2	223	955	210	Q	1,068	4.6
Mountain.....	7.6	82	325	Q	N	638	2.2
Pacific.....	16.6	141	631	168	Q	429	2.4
Four Most Populated States							
New York.....	7.1	49	373	1,848	Q	368	2.5
Florida.....	7.0	112	32	N	Q	Q	Q
Texas.....	8.0	121	209	N	N	243	0.9
California.....	12.1	85	477	Q	N	332	1.3
All Other States.....	76.9	909	3,564	4,372	118	4,718	16.6
Urban/Rural Location (as Self-Reported)							
City.....	47.1	466	2,072	1,822	13	442	2.4
Town.....	19.0	208	973	1,384	10	380	2.0
Suburbs.....	22.7	285	1,253	1,096	Q	491	1.9
Rural.....	22.3	315	357	1,935	92	4,428	15.1

Table US3. Total Consumption by Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Fuels Used (physical units)					
		Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	Kerosene ⁴ (million gal)	LPG (million gal)	Wood (million cords)

1 One of five climatically distinct areas, determined according to the 30-year average (1971-2000) of the annual heating and cooling degree-days. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

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