

Data release date: March 2023

Revised data release date: March 2024

**Table CE1.4 Summary annual household site consumption and expenditures in the South—totals and intensities, 2020**

	Number of housing units (million)	Site energy consumption <sup>a</sup>			Energy expenditures <sup>a</sup>				
		Total South <sup>b</sup> (trillion Btu)	Per household (million Btu)	Per household member (million Btu)	Per square foot (thousand Btu)	Total (billion dollars)	Per household (dollars)	Per household member (dollars)	Per square foot (dollars)
<b>All homes</b>	46.84	3,116	66.5	27.2	36.8	86.14	1,839	753	1.02
<b>Census division</b>									
South Atlantic	24.84	1,584	63.8	26.5	35.0	45.96	1,850	770	1.01
East South Central	7.38	523	70.9	30.3	37.7	13.89	1,882	806	1.00
West South Central	14.62	1,009	69.0	26.9	39.7	26.30	1,799	702	1.03
<b>Census urban/rural classification<sup>c</sup></b>									
Urban	35.88	2,352	65.6	26.6	37.6	63.25	1,763	716	1.01
Urbanized area	32.00	2,094	65.5	26.6	37.3	56.43	1,764	715	1.01
Urban cluster	3.88	258	66.3	27.2	40.0	6.82	1,756	720	1.06
Rural	10.96	764	69.7	29.4	34.7	22.89	2,088	880	1.04
<b>Climate region<sup>d</sup></b>									
Very cold/Cold	0.38	32	84.0	38.5	43.1	0.70	1,875	859	0.96
Mixed-humid	23.61	1,720	72.9	30.2	38.0	45.21	1,915	793	1.00
Mixed-dry/Hot-dry	1.02	73	70.9	27.4	42.3	1.63	1,597	618	0.95
Hot-humid	21.84	1,292	59.2	24.0	35.0	38.59	1,767	716	1.05
Marine	N	N	N	N	N	N	N	N	N
<b>Housing unit type</b>									
Single-family detached	30.29	2,411	79.6	30.8	36.4	64.31	2,123	821	0.97
Single-family attached	2.48	134	54.1	23.2	34.7	3.73	1,505	646	0.96
Apartments in buildings with 2–4 units	2.36	93	39.3	16.7	43.4	2.84	1,206	512	1.33
Apartments in buildings with 5 or more units	7.83	255	32.5	17.2	33.8	8.14	1,039	549	1.08
Mobile homes	3.89	224	57.7	22.6	45.9	7.12	1,830	719	1.46
<b>Ownership of housing unit</b>									
Owned	32.27	2,449	75.9	30.6	36.0	66.22	2,052	828	0.97
Single-family	28.03	2,235	79.7	31.6	35.7	59.43	2,120	841	0.95
Apartments	1.29	43	33.5	20.2	27.3	1.37	1,059	639	0.86
Mobile homes	2.95	171	57.8	23.8	44.5	5.42	1,835	755	1.41
Rented <sup>e</sup>	14.57	667	45.8	19.4	40.4	19.93	1,368	580	1.21
Single-family	4.73	310	65.4	23.1	41.9	8.61	1,819	642	1.16
Apartments	8.90	304	34.2	16.7	37.6	9.62	1,081	527	1.19
Mobile homes	0.94	54	57.2	19.7	50.9	1.70	1,814	624	1.61
<b>Year of construction</b>									
Before 1950	3.73	292	78.5	35.1	43.5	7.30	1,959	875	1.09
1950 to 1959	3.55	259	72.9	32.4	45.7	6.52	1,837	815	1.15
1960 to 1969	4.35	302	69.5	29.8	43.4	8.02	1,844	792	1.15
1970 to 1979	6.97	433	62.1	26.6	39.7	12.37	1,776	760	1.13
1980 to 1989	7.44	456	61.3	25.8	36.3	13.36	1,797	757	1.06
1990 to 1999	7.75	529	68.2	26.8	35.2	14.86	1,917	753	0.99
2000 to 2009	7.74	525	67.9	26.0	32.3	14.64	1,891	726	0.90
2010 to 2015	2.94	179	60.9	22.7	31.2	5.10	1,733	647	0.89
2016 to 2020	2.38	141	59.4	22.8	29.9	3.97	1,670	641	0.84
<b>Total square footage<sup>f</sup></b>									
Less than 1,000	10.79	444	41.2	20.3	55.2	13.47	1,248	615	1.67
1,000 to 1,499	11.87	635	53.5	22.8	44.2	18.61	1,567	667	1.29

**Table CE1.4 Summary annual household site consumption and expenditures in the South—totals and intensities, 2020**

	Number of housing units (million)	Site energy consumption <sup>a</sup>			Energy expenditures <sup>a</sup>					
		Total South <sup>b</sup>	Total (trillion Btu)	Per household (million Btu)	Per household member (million Btu)	Per square foot (thousand Btu)	Total (billion dollars)	Per household (dollars)	Per household member (dollars)	Per square foot (dollars)
<b>All homes</b>	46.84	3,116	66.5	27.2	36.8	86.14	1,839	753	1.02	
1,500 to 1,999	8.63	585	67.8	26.5	39.8	16.47	1,908	747	1.12	
2,000 to 2,499	5.78	445	76.9	30.1	34.9	12.06	2,087	816	0.95	
2,500 to 2,999	3.57	321	89.9	31.8	33.4	8.35	2,340	828	0.87	
3,000 or more	6.20	686	110.7	38.8	27.3	17.19	2,772	972	0.68	
<b>Number of household members</b>										
1 member	12.59	606	48.1	48.1	34.2	17.19	1,365	1,365	0.97	
2 members	17.64	1,164	66.0	33.0	35.2	32.28	1,830	915	0.98	
3 members	7.01	542	77.3	25.8	38.8	14.71	2,100	700	1.05	
4 members	5.64	462	82.0	20.5	39.9	12.47	2,212	553	1.08	
5 members	2.46	206	83.8	16.8	40.2	5.77	2,346	469	1.12	
6 or more members	1.51	136	90.2	12.8	43.8	3.72	2,470	350	1.20	
<b>2020 annual household income</b>										
Less than \$5,000	1.91	95	49.8	18.8	44.5	2.80	1,467	554	1.31	
\$5,000 to \$9,999	1.68	78	46.4	21.0	42.0	2.34	1,391	632	1.26	
\$10,000 to \$19,999	4.15	218	52.6	25.8	41.4	6.35	1,532	752	1.21	
\$20,000 to \$39,999	10.18	588	57.7	25.7	40.7	16.60	1,630	727	1.15	
\$40,000 to \$59,999	7.97	486	61.0	26.0	36.3	13.70	1,719	734	1.02	
\$60,000 to \$99,999	9.96	670	67.3	26.6	35.7	18.61	1,869	739	0.99	
\$100,000 to \$149,999	5.48	428	78.0	28.9	33.8	11.57	2,110	781	0.91	
\$150,000 or more	5.51	553	100.4	35.3	34.4	14.17	2,573	905	0.88	
<b>Payment method for energy bills</b>										
All paid by household	44.48	3,017	67.8	27.6	36.7	83.30	1,873	761	1.01	
Some paid by household, some included in rent or condo fee	1.02	48	46.8	19.6	43.8	1.33	1,305	547	1.22	
All included in rent or condo fee	1.29	48	37.0	19.6	37.7	1.44	1,111	590	1.13	
Some other method	0.05	3	65.3	30.0	52.1	0.08	1,606	738	1.28	
<b>Main heating fuel</b>										
Natural gas	15.54	1,432	92.2	36.9	43.8	31.82	2,048	821	0.97	
Electricity	25.76	1,353	52.5	21.7	31.7	44.26	1,718	711	1.04	
Fuel oil or kerosene	0.47	46	97.0	42.1	44.5	1.22	2,582	1,121	1.18	
Propane	1.39	116	83.4	39.7	39.5	3.43	2,469	1,175	1.17	
Wood	0.60	28	46.5	18.4	26.0	0.92	1,533	606	0.86	
Some other fuel <sup>8</sup>	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Does not use heating equipment	3.08	141	45.9	18.0	33.4	4.48	1,458	574	1.06	

**Table CE1.4 Summary annual household site consumption and expenditures in the South—totals and intensities, 2020**

	Number of housing units (million)	Site energy consumption <sup>a</sup>			Energy expenditures <sup>a</sup>				
		Total	Per household	Per household member	Per square foot (thousand Btu)	Total (billion dollars)	Per household (dollars)	Per household member (dollars)	Per square foot (dollars)
<b>All homes</b>	46.84	3,116	66.5	27.2	36.8	86.14	1,839	753	1.02

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Forms EIA-457A, D, E, F, & G of the *2020 Residential Energy Consumption Survey*

Notes: Because of rounding, data may not sum to totals. See RECS Terminology for definition of terms used in these tables.

Btu = British thermal units

<sup>a</sup> Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded. Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included.

<sup>b</sup> *Total South* includes all primary occupied housing units in the South Census Region. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

<sup>c</sup> Housing units are classified using criteria created by the U.S. Census Bureau based on 2010 Census data. Urbanized areas are densely settled groupings of blocks or tracts with 50,000 or more people, while urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

<sup>d</sup> The Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE), created these climate regions. We combined climate regions for this publication. The subarctic region is included with data for *Very-cold/Cold*.

<sup>e</sup> *Rented* includes households that occupy their primary housing units without paying rent.

<sup>f</sup> *Total square footage* includes all basements, finished or conditioned (heated or cooled) areas of attics, and conditioned garage space that is attached to the home. Unconditioned and unfinished areas in attics and attached garages are excluded. The square footage of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See *2020 RECS Square Footage Methodology* for full details about data collection and processing.

<sup>g</sup> *Some other fuel* includes coal and district steam.

Q = Data withheld because either the relative standard error (RSE) was greater than 50% or fewer than 10 households in reporting sample.

N = No households in reporting sample.

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**Relative standard errors (RSEs) for Table CE1.4 Summary annual household site consumption and expenditures in the South—totals and intensities, 2020**

	RSEs for number of housing units		RSEs for site energy consumption <sup>a</sup>			RSEs for energy expenditures <sup>a</sup>			
	Total South <sup>b</sup>	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
<b>All homes</b>	0.00	0.65	0.65	0.91	0.67	0.59	0.59	0.93	0.72
<b>Census division</b>									
South Atlantic	0.00	1.02	1.02	1.34	0.97	0.89	0.89	1.36	1.00
East South Central	0.00	1.54	1.54	1.92	1.66	1.11	1.11	1.53	1.50
West South Central	0.00	1.22	1.22	1.57	1.22	1.04	1.04	1.45	1.34
<b>Census urban/rural classification<sup>c</sup></b>									
Urban	0.61	1.05	0.81	1.11	0.87	0.93	0.68	1.09	0.90
Urbanized area	0.87	1.32	0.90	1.20	0.94	1.24	0.77	1.20	0.99
Urban cluster	4.29	4.98	2.58	2.80	2.68	4.68	1.84	2.36	2.26
Rural	1.99	2.37	1.56	2.03	1.39	2.16	1.29	1.74	1.39
<b>Climate region<sup>d</sup></b>									
Very cold/Cold	8.76	9.67	5.50	6.84	5.89	9.60	4.40	5.41	4.84
Mixed-humid	0.61	1.18	0.96	1.36	0.91	1.09	0.80	1.27	0.86
Mixed-dry/Hot-dry	9.05	9.46	4.78	8.10	5.77	9.58	4.28	8.35	7.41
Hot-humid	0.71	1.38	1.09	1.34	1.11	1.39	1.05	1.37	1.23
Marine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Housing unit type</b>									
Single-family detached	0.00	0.74	0.74	0.98	0.87	0.64	0.64	1.01	0.85
Single-family attached	0.00	3.03	3.03	3.40	3.06	2.33	2.33	3.12	2.64
Apartments in buildings with 2–4 units	0.00	2.91	2.91	4.69	3.89	2.82	2.82	4.80	3.75
Apartments in buildings with 5 or more units	0.00	2.03	2.03	2.92	2.23	1.87	1.87	2.80	2.00
Mobile homes	0.00	2.25	2.25	3.48	2.40	2.06	2.06	3.28	2.39
<b>Ownership of housing unit</b>									
Owned	0.71	1.05	0.76	0.96	0.75	0.98	0.68	0.97	0.81
Single-family	0.65	1.03	0.79	1.01	0.80	0.94	0.68	1.01	0.80
Apartments	8.65	9.41	4.06	5.03	5.41	9.34	3.80	4.61	5.22
Mobile homes	2.91	4.15	2.58	3.98	3.04	4.14	2.31	3.77	2.91
Rented <sup>e</sup>	1.57	2.40	1.42	1.74	1.27	2.30	1.36	1.73	1.39
Single-family	3.88	4.59	2.14	2.51	2.26	4.70	1.94	2.31	2.47
Apartments	1.26	2.23	1.66	2.78	1.81	2.21	1.63	2.80	1.66
Mobile homes	9.18	9.62	5.68	6.56	5.36	9.56	5.28	6.74	5.23
<b>Year of construction</b>									
Before 1950	0.00	2.50	2.50	3.34	2.21	2.52	2.52	3.18	2.49
1950 to 1959	0.00	2.85	2.85	4.84	3.38	2.46	2.46	4.36	3.28
1960 to 1969	0.00	1.94	1.94	2.89	2.54	1.86	1.86	2.60	2.48
1970 to 1979	0.00	1.96	1.96	2.19	1.90	1.86	1.86	2.32	1.92
1980 to 1989	0.00	2.04	2.04	2.34	1.86	1.85	1.85	2.18	1.75
1990 to 1999	0.00	1.99	1.99	2.43	1.69	1.73	1.73	2.31	1.56
2000 to 2009	0.00	2.24	2.24	2.49	2.06	1.55	1.55	1.99	1.68
2010 to 2015	3.94	5.66	3.79	4.34	2.75	5.28	3.01	4.03	2.32
2016 to 2020	4.87	6.00	3.84	4.81	3.61	5.28	2.99	4.28	3.13
<b>Total square footage<sup>f</sup></b>									
Less than 1,000	1.98	2.66	1.72	2.12	1.67	2.66	1.58	2.01	1.54
1,000 to 1,499	1.76	1.97	1.23	2.10	1.24	1.99	1.19	2.06	1.20
1,500 to 1,999	2.68	3.06	1.26	2.23	1.30	3.03	1.06	2.06	1.07

**Relative standard errors (RSEs) for Table CE1.4 Summary annual household site consumption and expenditures in the South—totals and intensities, 2020**

	RSEs for number of housing units		RSEs for site energy consumption <sup>a</sup>			RSEs for energy expenditures <sup>a</sup>			
	Total South <sup>b</sup>	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
<b>All homes</b>	0.00	0.65	0.65	0.91	0.67	0.59	0.59	0.93	0.72
2,000 to 2,499	3.38	3.87	1.48	2.12	1.45	3.66	1.31	1.83	1.26
2,500 to 2,999	4.50	4.41	1.90	2.64	1.92	4.26	1.53	2.73	1.53
3,000 or more	3.07	3.17	1.64	2.15	1.68	3.23	1.33	2.12	1.52
<b>Number of household members</b>									
1 member	2.07	2.40	1.53	1.53	1.39	2.28	1.36	1.36	1.41
2 members	1.50	1.66	1.14	1.14	1.05	1.48	0.85	0.85	0.98
3 members	2.94	3.28	2.23	2.23	2.02	2.95	1.53	1.53	1.95
4 members	3.52	3.56	2.20	2.20	2.17	3.57	1.79	1.79	2.07
5 members	6.83	7.18	2.70	2.70	3.20	7.28	2.48	2.48	3.29
6 or more members	7.69	7.25	3.82	4.97	3.77	7.41	3.58	4.86	4.10
<b>2020 annual household income</b>									
Less than \$5,000	7.49	8.80	4.09	5.94	5.89	8.50	3.56	6.09	5.95
\$5,000 to \$9,999	7.81	8.45	4.34	4.87	5.00	8.50	4.18	5.00	5.18
\$10,000 to \$19,999	4.55	5.22	2.48	3.31	2.67	5.13	2.20	3.42	2.84
\$20,000 to \$39,999	2.82	3.16	1.57	2.01	1.73	3.00	1.40	2.04	1.86
\$40,000 to \$59,999	3.07	3.31	1.93	2.43	2.02	3.30	1.60	2.04	2.05
\$60,000 to \$99,999	2.86	3.09	1.47	2.10	1.44	3.10	1.38	2.05	1.47
\$100,000 to \$149,999	3.33	3.58	1.74	2.06	1.73	3.48	1.65	2.10	1.76
\$150,000 or more	2.93	3.47	1.92	1.99	1.74	3.46	1.74	1.98	1.63
<b>Payment method for energy bills</b>									
All paid by household	0.35	0.69	0.72	0.91	0.69	0.63	0.65	0.95	0.72
Some paid by household, some included in rent or condo fee	10.23	10.10	5.25	14.78	5.86	10.43	5.36	15.34	5.60
All included in rent or condo fee	9.33	9.49	3.93	4.72	3.58	10.13	3.96	4.87	4.55
Some other method	40.56	40.54	17.50	22.56	16.79	42.55	15.89	18.17	14.57
<b>Main heating fuel</b>									
Natural gas	1.74	1.90	1.00	1.66	1.19	1.87	0.91	1.70	1.06
Electricity	1.24	1.59	0.95	1.30	1.05	1.52	0.91	1.25	1.01
Fuel oil or kerosene	13.81	14.29	4.46	9.36	6.09	14.16	4.70	8.58	6.51
Propane	5.91	6.95	3.34	4.15	4.60	6.76	2.73	3.92	4.62
Wood	10.65	11.52	4.23	8.68	6.80	10.76	3.60	8.85	7.22
Some other fuel <sup>§</sup>	16.80	16.80	0.00	0.00	0.00	16.80	0.00	0.00	0.00
Does not use heating equipment	6.86	6.92	3.56	4.32	3.05	6.80	3.53	4.28	3.19

**Relative standard errors (RSEs) for Table CE1.4 Summary annual household site consumption and expenditures in the South—totals and intensities, 2020**

	RSEs for number of housing units	RSEs for site energy consumption <sup>a</sup>				RSEs for energy expenditures <sup>a</sup>			
	Total South <sup>b</sup>	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
<b>All homes</b>	0.00	0.65	0.65	0.91	0.67	0.59	0.59	0.93	0.72

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Forms EIA-457A, D, E, F, & G of the *2020 Residential Energy Consumption Survey*

Notes: See RECS Terminology for definition of terms used in these tables.

<sup>a</sup> Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded. Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included.

<sup>b</sup> *Total South* includes all primary occupied housing units in the South Census Region. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

<sup>c</sup> Housing units are classified using criteria created by the U.S. Census Bureau based on 2010 Census data. Urbanized areas are densely settled groupings of blocks or tracts with 50,000 or more people, while urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

<sup>d</sup> The Building America program, sponsored by the U.S. Department of Energy’s Office of Energy Efficiency and Renewable Energy (EERE), created these climate regions. We combined climate regions for this publication. The subarctic region is included with data for *Very-cold/Cold*.

<sup>e</sup> *Rented* includes households that occupy their primary housing units without paying rent.

<sup>f</sup> *Total square footage* includes all basements, finished or conditioned (heated or cooled) areas of attics, and conditioned garage space that is attached to the home. Unconditioned and unfinished areas in attics and attached garages are excluded. The square footage of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See *2020 RECS Square Footage Methodology* for full details about data collection and processing.

<sup>g</sup> *Some other fuel* includes coal and district steam.