

Data release date: June 2023

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**Table CE4.4 Annual household site end-use consumption by fuel in the South—totals, 2020**

	Number of housing units (million)	Total site energy consumption <sup>a</sup> (trillion Btu)																		
		Electricity							Natural gas				Propane			Fuel oil or kerosene				
		Total South <sup>b</sup>	Total	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating
<b>All homes</b>	46.84	3,116	2,138	279	301	497	141	920	865	554	237	74	86	50	20	16	28	24	2	2
<b>Census division</b>																				
South Atlantic	24.84	1,584	1,109	139	172	248	75	476	405	272	102	32	44	27	9	8	25	23	2	Q
East South Central	7.38	523	350	62	53	66	22	147	152	108	35	10	19	12	3	3	2	2	N	Q
West South Central	14.62	1,009	679	78	76	183	44	297	307	174	101	33	23	11	8	4	Q	N	Q	N
<b>Census urban/rural classification<sup>e</sup></b>																				
Urban	35.88	2,352	1,550	168	208	386	104	684	767	491	215	62	19	8	6	5	15	13	2	Q
Urbanized area	32.00	2,094	1,379	139	183	351	94	613	686	436	194	57	16	6	5	5	13	11	1	Q
Urban cluster	3.88	258	171	29	25	36	11	70	81	55	21	5	4	2	1	*	Q	Q	Q	N
Rural	10.96	764	588	111	93	111	36	236	97	63	23	12	66	42	14	11	13	11	Q	Q
<b>Climate region<sup>f</sup></b>																				
Very cold and Cold	0.38	32	14	3	3	1	1	6	13	10	2	*	3	3	Q	*	Q	Q	N	Q
Mixed-humid	23.61	1,720	1,047	172	157	190	69	458	589	411	138	39	58	38	12	8	26	23	2	Q
Mixed-dry and Hot-dry	1.02	73	40	4	4	9	3	19	31	21	9	2	Q	Q	Q	Q	N	N	N	N
Hot-humid	21.84	1,292	1,036	99	137	296	68	436	232	111	88	33	24	9	8	7	Q	N	Q	N
Marine	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
<b>Housing unit type</b>																				
Single-family detached	30.29	2,411	1,566	199	182	382	104	698	749	495	192	62	73	43	17	12	23	20	1	Q
Single-family attached	2.48	134	87	11	13	20	6	36	45	30	12	3	1	*	Q	Q	Q	Q	Q	N
Apartments in buildings with 2–4 units	2.36	93	73	8	17	16	4	28	19	8	8	2	Q	Q	Q	Q	Q	Q	Q	N
Apartments in buildings with 5 or more units	7.83	255	216	22	47	42	16	89	38	11	21	5	Q	N	Q	Q	Q	Q	Q	N
Mobile homes	3.89	224	196	38	43	37	10	69	14	9	3	2	10	6	1	3	4	3	N	Q
<b>Ownership of housing unit</b>																				
Owned	32.27	2,449	1,627	210	201	390	110	716	722	476	185	62	78	46	17	14	22	19	1	Q
Single-family	28.03	2,235	1,441	179	162	352	99	649	705	467	179	60	69	41	16	12	20	17	1	Q
Apartments	1.29	43	37	2	7	10	3	15	6	3	3	1	N	N	N	N	N	N	N	N
Mobile homes	2.95	171	149	29	32	28	8	52	10	6	3	1	9	5	1	3	2	2	N	Q
Rented <sup>g</sup>	14.57	667	511	68	101	107	31	204	143	78	53	12	8	4	3	1	6	5	Q	Q
Single-family	4.73	310	212	31	33	49	12	86	89	58	26	5	5	2	2	1	4	4	Q	Q
Apartments	8.90	304	252	28	57	49	17	102	50	17	26	6	2	Q	1	Q	Q	Q	Q	N
Mobile homes	0.94	54	47	9	11	9	2	17	4	3	Q	*	1	Q	Q	Q	Q	Q	N	Q
<b>Year of construction</b>																				
Before 1950	3.73	292	160	22	18	43	10	66	117	86	24	8	10	8	1	1	6	5	Q	Q
1950 to 1959	3.55	259	143	18	16	40	9	59	103	73	22	7	5	4	1	*	8	7	Q	Q
1960 to 1969	4.35	302	184	20	21	48	13	82	105	69	30	6	8	6	1	Q	5	4	Q	N
1970 to 1979	6.97	433	320	50	46	77	20	129	98	63	29	5	9	5	2	2	6	5	Q	Q
1980 to 1989	7.44	456	343	53	52	77	22	139	98	60	28	9	12	9	2	1	Q	2	Q	Q
1990 to 1999	7.75	529	378	47	58	83	26	164	135	83	39	13	15	8	3	4	Q	Q	Q	Q

Table CE4.4 Annual household site end-use consumption by fuel in the South—totals, 2020

	Number of housing units (million)	Total site energy consumption <sup>a</sup> (trillion Btu)																		
		Electricity							Natural gas				Propane				Fuel oil or kerosene			
		Total South <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>
<b>All homes</b>	46.84	3,116	2,138	279	301	497	141	920	865	554	237	74	86	50	20	16	28	24	2	2
2000 to 2009	7.74	525	376	43	53	83	25	172	132	76	42	14	16	7	5	4	Q	Q	N	Q
2010 to 2015	2.94	179	133	15	21	27	9	62	41	23	13	5	5	2	2	1	Q	Q	N	N
2016 to 2020	2.38	141	100	10	16	21	7	48	37	21	10	7	4	1	1	1	N	N	N	N
<b>Total square footage<sup>h</sup></b>																				
Less than 1,000	10.79	444	342	43	68	66	23	141	92	46	39	7	7	3	2	2	4	2	Q	Q
1,000 to 1,499	11.87	635	473	65	83	105	30	189	142	92	42	9	16	11	3	2	4	3	Q	Q
1,500 to 1,999	8.63	585	405	54	57	97	27	169	158	104	43	10	17	11	4	3	5	4	Q	Q
2,000 to 2,499	5.78	445	301	38	36	76	19	131	127	86	33	8	11	6	3	2	5	5	Q	Q
2,500 to 2,999	3.57	321	204	25	21	51	14	93	106	68	28	10	8	4	2	2	3	3	Q	N
3,000 or more	6.20	686	413	53	36	101	27	197	239	157	53	29	26	15	6	5	8	7	Q	Q
<b>Number of household members</b>																				
1 member	12.59	606	405	63	47	98	31	166	174	124	40	10	20	14	3	3	7	6	Q	Q
2 members	17.64	1,164	797	109	100	185	56	347	311	204	80	28	44	26	10	8	11	10	Q	Q
3 members	7.01	542	365	44	54	84	22	162	163	99	45	19	9	5	2	2	4	4	Q	N
4 members	5.64	462	321	35	56	75	18	138	131	77	42	12	7	2	3	2	4	2	Q	Q
5 members	2.46	206	151	17	25	35	8	65	52	30	19	4	2	1	Q	Q	Q	Q	Q	Q
6 or more members	1.51	136	99	11	20	21	5	42	33	20	12	2	3	Q	Q	1	Q	Q	N	Q
<b>2020 annual household income</b>																				
Less than \$5,000	1.91	95	70	10	15	13	4	27	21	13	7	2	3	2	Q	Q	Q	Q	Q	N
\$5,000 to \$9,999	1.68	78	59	8	12	12	3	22	16	9	6	1	3	2	Q	Q	Q	Q	N	Q
\$10,000 to \$19,999	4.15	218	156	26	24	33	10	63	50	31	17	3	9	6	2	1	2	2	Q	Q
\$20,000 to \$39,999	10.18	588	414	60	70	90	27	167	145	97	41	8	20	14	3	3	8	7	Q	Q
\$40,000 to \$59,999	7.97	486	346	44	54	81	23	143	124	82	32	11	13	7	3	3	3	2	Q	N
\$60,000 to \$99,999	9.96	670	464	59	63	108	32	202	186	121	53	11	15	8	4	3	6	6	Q	Q
\$100,000 to \$149,999	5.48	428	288	35	34	72	19	128	129	82	36	11	8	4	3	1	3	3	Q	Q
\$150,000 or more	5.51	553	342	35	30	88	22	168	193	119	47	27	15	7	4	4	3	3	Q	N
<b>Payment method for energy bills</b>																				
All paid by household	44.48	3,017	2,071	269	291	484	136	891	836	543	223	70	83	49	19	15	27	24	1	Q
Some paid by household, some included in rent or condo fee	1.02	48	30	4	4	6	2	14	16	5	8	2	Q	Q	Q	Q	Q	Q	Q	N
All included in rent or condo fee	1.29	48	36	5	7	7	3	14	11	5	5	1	Q	Q	N	N	Q	Q	Q	N
Some other method	0.05	3	1	Q	Q	Q	*	1	Q	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q
<b>Main heating fuel</b>																				
Natural gas	15.54	1,432	636	13	36	182	51	354	796	545	197	54	*	Q	Q	Q	Q	Q	Q	Q
Electricity	25.76	1,353	1,269	261	221	254	74	459	58	9	33	17	25	6	10	9	1	1	Q	Q
Fuel oil or kerosene	0.47	46	20	1	4	3	1	9	Q	Q	Q	Q	*	Q	Q	*	26	23	1	Q
Propane	1.39	116	59	2	11	12	4	30	Q	Q	Q	Q	56	43	8	5	Q	Q	N	N
Wood	0.60	28	25	1	6	4	2	12	Q	Q	Q	Q	2	Q	1	1	Q	N	Q	N
Some other fuel <sup>i</sup>	Q	Q	Q	N	Q	Q	Q	Q	N	N	N	N	N	N	N	N	N	N	N	N
Does not use heating equipment	3.08	141	130	N	23	43	8	55	9	N	7	2	Q	N	Q	Q	Q	N	Q	N

**Table CE4.4 Annual household site end-use consumption by fuel in the South—totals, 2020**

	Number of housing units (million)	Total site energy consumption <sup>a</sup> (trillion Btu)																		
		Electricity							Natural gas				Propane			Fuel oil or kerosene				
		Total South <sup>b</sup>	Total	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating
<b>All homes</b>	46.84	3,116	2,138	279	301	497	141	920	865	554	237	74	86	50	20	16	28	24	2	2

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency 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> Includes main (primary) and secondary space heating.

<sup>d</sup> Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the CES tables.

<sup>e</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. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

<sup>f</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 and Cold.

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

<sup>h</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>i</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.

\* = Estimate is less than 0.5 and rounds to zero.

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	Number of housing units (million)	Total site energy consumption <sup>a</sup>																	
		Electricity (billion kWh)						Natural gas (billion cubic feet)				Propane (million gallons)			Fuel oil or kerosene (million gallons)				
		Total South <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>
<b>All homes</b>	46.84	627	82	88	146	41	270	857	549	236	73	936	545	221	171	205	176	15	14
<b>Census division</b>																			
South Atlantic	24.84	325	41	50	73	22	140	397	267	100	31	484	292	101	91	185	164	11	Q
East South Central	7.38	102	18	16	19	6	43	150	107	34	9	206	136	35	35	17	12	N	Q
West South Central	14.62	199	23	22	54	13	87	310	176	101	33	247	118	84	45	Q	N	Q	N
<b>Census urban/rural classification<sup>e</sup></b>																			
Urban	35.88	454	49	61	113	31	200	761	487	213	61	212	91	68	54	109	95	12	Q
Urbanized area	32.00	404	41	53	103	27	180	680	432	192	56	173	65	57	50	93	80	11	Q
Urban cluster	3.88	50	8	7	10	3	21	80	55	21	5	39	25	11	3	Q	Q	Q	N
Rural	10.96	172	32	27	33	11	69	97	62	23	12	724	454	153	117	96	81	Q	Q
<b>Climate region<sup>f</sup></b>																			
Very cold and Cold	0.38	4	1	1	*	*	2	12	10	2	*	34	31	Q	1	Q	Q	N	Q
Mixed-humid	23.61	307	50	46	56	20	134	581	406	137	38	634	415	127	92	189	165	11	Q
Mixed-dry and Hot-dry	1.02	12	1	1	3	1	6	35	23	10	2	Q	Q	Q	Q	N	N	N	N
Hot-humid	21.84	304	29	40	87	20	128	229	110	87	32	260	94	91	74	Q	N	Q	N
Marine	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
<b>Housing unit type</b>																			
Single-family detached	30.29	459	58	53	112	31	205	743	491	191	61	797	474	188	135	168	149	9	Q
Single-family attached	2.48	26	3	4	6	2	11	44	29	12	3	11	3	Q	Q	Q	Q	Q	N
Apartments in buildings with 2–4 units	2.36	21	2	5	5	1	8	19	8	8	2	Q	Q	Q	Q	Q	Q	Q	N
Apartments in buildings with 5 or more units	7.83	63	6	14	12	5	26	37	11	21	5	Q	N	Q	Q	Q	Q	Q	N
Mobile homes	3.89	58	11	13	11	3	20	14	9	3	2	111	67	15	29	26	21	N	Q
<b>Ownership of housing unit</b>																			
Owned	32.27	477	62	59	114	32	210	716	472	183	61	851	506	188	158	161	141	10	Q
Single-family	28.03	422	53	47	103	29	190	699	463	177	59	756	452	174	130	144	127	10	Q
Apartments	1.29	11	1	2	3	1	4	6	2	3	1	N	N	N	N	N	N	N	N
Mobile homes	2.95	44	8	9	8	2	15	11	7	3	1	95	54	14	28	17	13	N	Q
Rented <sup>g</sup>	14.57	150	20	30	31	9	60	141	77	52	12	85	39	33	13	44	35	Q	Q
Single-family	4.73	62	9	10	14	4	25	88	57	25	5	52	25	18	9	30	26	Q	Q
Apartments	8.90	74	8	17	14	5	30	49	17	26	6	17	Q	13	Q	Q	Q	Q	N
Mobile homes	0.94	14	3	3	3	1	5	4	3	Q	*	16	Q	Q	Q	Q	Q	N	Q
<b>Year of construction</b>																			
Before 1950	3.73	47	6	5	13	3	19	115	84	23	8	110	86	13	11	43	39	Q	Q
1950 to 1959	3.55	42	5	5	12	3	17	102	72	22	7	59	40	14	4	56	52	Q	Q
1960 to 1969	4.35	54	6	6	14	4	24	104	68	30	6	93	67	15	Q	35	32	Q	N
1970 to 1979	6.97	94	15	13	22	6	38	97	63	29	5	97	55	25	18	43	35	Q	Q
1980 to 1989	7.44	101	15	15	23	6	41	97	60	28	9	135	100	20	16	Q	12	Q	Q
1990 to 1999	7.75	111	14	17	24	8	48	134	82	39	13	166	82	38	46	Q	Q	Q	Q

Table CE4.4 Annual household site end-use consumption by fuel in the South—totals, 2020

	Number of housing units (million) Total site energy consumption <sup>a</sup>																		
	Electricity (billion kWh)						Natural gas (billion cubic feet)				Propane (million gallons)				Fuel oil or kerosene (million gallons)				
	Total South <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>
<b>All homes</b>	46.84	627	82	88	146	41	270	857	549	236	73	936	545	221	171	205	176	15	14
2000 to 2009	7.74	110	13	15	24	7	50	131	76	42	14	180	80	57	43	Q	Q	N	Q
2010 to 2015	2.94	39	4	6	8	3	18	41	23	13	5	55	20	24	11	Q	Q	N	N
2016 to 2020	2.38	29	3	5	6	2	14	37	20	10	7	41	14	16	12	N	N	N	N
<b>Total square footage<sup>h</sup></b>																			
Less than 1,000	10.79	100	13	20	19	7	41	92	46	39	7	74	36	21	17	26	17	Q	Q
1,000 to 1,499	11.87	139	19	24	31	9	55	141	91	42	9	180	121	34	25	26	20	Q	Q
1,500 to 1,999	8.63	119	16	17	29	8	50	156	103	43	10	188	116	43	29	37	32	Q	Q
2,000 to 2,499	5.78	88	11	10	22	6	38	126	85	33	8	120	64	34	22	40	36	Q	Q
2,500 to 2,999	3.57	60	7	6	15	4	27	105	67	28	10	86	49	19	18	20	19	Q	N
3,000 or more	6.20	121	15	10	30	8	58	236	156	52	29	290	160	70	59	56	52	Q	Q
<b>Number of household members</b>																			
1 member	12.59	119	19	14	29	9	49	172	123	39	10	222	157	36	29	54	47	Q	Q
2 members	17.64	234	32	29	54	17	102	308	202	79	27	480	287	110	82	81	74	Q	Q
3 members	7.01	107	13	16	24	6	47	162	99	45	18	100	55	25	20	30	29	Q	N
4 members	5.64	94	10	16	22	5	40	130	76	42	11	77	27	31	19	26	16	Q	Q
5 members	2.46	44	5	7	10	2	19	52	29	19	4	24	6	Q	Q	Q	Q	Q	Q
6 or more members	1.51	29	3	6	6	2	12	33	20	12	2	33	Q	Q	Q	11	Q	Q	N
<b>2020 annual household income</b>																			
Less than \$5,000	1.91	20	3	4	4	1	8	21	13	7	2	36	19	Q	Q	Q	Q	Q	N
\$5,000 to \$9,999	1.68	17	2	4	4	1	7	15	9	6	1	28	20	Q	Q	Q	Q	N	Q
\$10,000 to \$19,999	4.15	46	8	7	10	3	18	50	31	17	3	102	69	17	16	18	13	Q	Q
\$20,000 to \$39,999	10.18	121	18	21	26	8	49	145	96	41	8	222	155	38	29	61	53	Q	Q
\$40,000 to \$59,999	7.97	101	13	16	24	7	42	124	82	32	11	143	77	38	29	19	18	Q	N
\$60,000 to \$99,999	9.96	136	17	18	32	10	59	184	120	53	11	159	86	45	28	46	42	Q	Q
\$100,000 to \$149,999	5.48	84	10	10	21	6	37	128	81	35	11	85	42	31	12	22	20	Q	Q
\$150,000 or more	5.51	100	10	9	26	7	49	190	117	46	27	161	76	40	45	22	19	Q	N
<b>Payment method for energy bills</b>																			
All paid by household	44.48	607	79	85	142	40	261	829	538	222	69	912	535	213	164	196	172	10	Q
Some paid by household, some included in rent or condo fee	1.02	9	1	1	2	1	4	16	5	8	2	Q	Q	Q	Q	Q	Q	Q	N
All included in rent or condo fee	1.29	11	2	2	2	1	4	11	5	5	1	Q	Q	N	N	Q	Q	Q	N
Some other method	0.05	*	Q	Q	Q	*	*	Q	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q
<b>Main heating fuel</b>																			
Natural gas	15.54	186	4	11	53	15	104	789	540	196	54	5	Q	Q	Q	Q	Q	Q	Q
Electricity	25.76	372	77	65	74	22	134	57	8	32	17	274	66	112	96	11	4	Q	Q
Fuel oil or kerosene	0.47	6	*	1	1	*	3	Q	Q	Q	Q	5	Q	Q	2	188	171	7	Q
Propane	1.39	17	1	3	4	1	9	Q	Q	Q	Q	617	472	89	55	Q	Q	N	N
Wood	0.60	7	*	2	1	1	4	Q	Q	Q	Q	21	Q	11	8	Q	N	Q	N
Some other fuel <sup>i</sup>	Q	Q	N	Q	Q	Q	Q	N	N	N	N	N	N	N	N	N	N	N	N
Does not use heating equipment	3.08	38	N	7	13	2	16	9	N	7	2	Q	N	Q	Q	Q	N	Q	N

**Table CE4.4 Annual household site end-use consumption by fuel in the South—totals, 2020**

	Number of housing units (million)	Total site energy consumption <sup>a</sup>																	
		Electricity (billion kWh)						Natural gas (billion cubic feet)				Propane (million gallons)			Fuel oil or kerosene (million gallons)				
		Total South <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating
<b>All homes</b>	46.84	627	82	88	146	41	270	857	549	236	73	936	545	221	171	205	176	15	14

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency 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.

kWh = kilowatthours

<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> Includes main (primary) and secondary space heating.

<sup>d</sup> Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the CES tables.

<sup>e</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. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

<sup>f</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 and Cold.

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

<sup>h</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>i</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.

\* = Estimate is less than 0.5 and rounds to zero.

**Relative standard errors (RSEs) for Table CE4.4 Annual household site end-use consumption by fuel in the South—totals, 2020**

	RSEs for number of housing units																			
	RSEs for total site energy consumption <sup>a</sup>																			
	Electricity					Natural gas					Propane					Fuel oil or kerosene				
Total South <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>		
<b>All homes</b>	0.00	0.65	0.67	1.80	1.54	1.05	0.66	0.87	1.86	2.24	2.26	7.95	5.36	7.54	8.82	9.18	14.24	14.81	28.14	35.53
<b>Census division</b>																				
South Atlantic	0.00	1.02	0.96	2.47	1.82	1.65	0.95	1.26	3.00	3.18	3.57	9.58	8.78	10.94	13.33	12.89	15.52	15.42	29.45	49.90
East South Central	0.00	1.54	1.39	3.33	2.95	1.93	1.78	2.06	4.61	4.77	5.34	18.31	11.48	13.42	18.34	23.61	32.85	35.24	0.00	51.12
West South Central	0.00	1.22	1.21	3.72	3.29	1.72	1.49	1.63	3.32	3.96	3.46	12.91	11.70	13.46	13.75	19.82	79.06	0.00	79.06	0.00
<b>Census urban/rural classification<sup>e</sup></b>																				
Urban	0.61	1.05	1.02	2.48	2.27	1.43	0.99	1.28	2.11	2.45	2.35	9.30	13.82	18.91	17.39	22.50	16.02	16.87	33.39	70.45
Urbanized area	0.87	1.32	1.37	2.90	2.63	1.69	1.31	1.56	2.24	2.57	2.58	9.14	15.43	22.29	20.47	23.06	17.13	18.85	34.87	70.45
Urban cluster	4.29	4.98	4.70	7.65	5.56	5.39	4.87	5.04	8.36	8.82	9.52	29.58	27.73	33.69	38.00	27.17	42.72	40.36	14.82	0.00
Rural	1.99	2.37	2.17	2.91	2.74	2.64	2.49	2.64	7.13	7.52	8.80	18.37	6.50	8.60	9.59	10.66	18.91	19.34	57.31	41.44
<b>Climate region<sup>f</sup></b>																				
Very cold and Cold	8.76	9.67	9.58	16.20	14.55	11.62	8.82	10.08	13.58	14.59	16.65	20.07	42.26	43.45	60.61	35.24	47.93	48.50	0.00	14.40
Mixed-humid	0.61	1.18	1.07	1.99	2.03	1.50	1.14	1.42	2.62	2.80	2.92	8.66	6.98	9.05	12.02	12.29	13.85	14.74	29.45	33.35
Mixed-dry and Hot-dry	9.05	9.46	9.44	23.82	19.03	11.86	9.65	9.59	13.17	14.43	13.93	26.19	99.18	15.02	15.02	97.19	0.00	0.00	0.00	0.00
Hot-humid	0.71	1.38	1.47	3.29	2.33	1.70	1.45	1.87	3.63	4.35	3.95	13.19	10.03	15.41	11.83	17.63	79.06	0.00	79.06	0.00
Marine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.73	2.27	2.07	1.23	0.76	0.88	2.15	2.45	2.57	9.18	6.56	8.29	9.55	11.42	17.34	17.40	32.00	45.69
Single-family attached	0.00	3.03	2.36	6.98	6.21	4.41	3.12	2.92	7.52	8.41	8.05	18.30	32.54	44.35	48.10	66.09	66.65	74.09	73.53	0.00
Apartments in buildings with 2–4 units	0.00	2.91	3.47	8.31	6.06	6.27	2.28	3.95	11.86	15.99	12.93	26.15	46.22	73.24	51.13	13.56	75.42	17.65	71.00	0.00
Apartments in buildings with 5 or more units	0.00	2.03	2.17	4.77	4.63	3.41	1.75	3.21	7.75	10.60	8.97	14.24	43.59	0.00	44.81	13.91	80.57	64.20	92.92	0.00
Mobile homes	0.00	2.25	2.28	4.85	4.28	3.65	2.78	3.35	16.77	18.11	24.13	27.10	14.47	17.53	33.86	26.30	32.32	37.26	0.00	59.77
<b>Ownership of housing unit</b>																				
Owned	0.71	1.05	1.02	2.19	2.03	1.49	1.05	1.20	2.32	2.63	2.76	9.23	5.94	8.22	8.78	9.75	15.69	15.99	34.02	38.57
Single-family	0.65	1.03	0.97	2.25	2.11	1.49	1.09	1.17	2.35	2.66	2.74	9.57	6.79	8.94	9.50	11.67	17.35	17.33	34.02	47.93
Apartments	8.65	9.41	9.42	18.15	11.65	12.85	9.08	9.18	17.27	21.30	20.30	27.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile homes	2.91	4.15	4.36	6.53	5.46	5.78	4.34	5.54	20.18	22.80	26.87	29.81	14.96	19.20	32.68	27.30	37.53	43.43	0.00	70.50
Rented <sup>g</sup>	1.57	2.40	2.20	3.36	3.49	2.77	2.26	2.50	5.23	6.12	5.41	11.25	17.60	22.94	23.51	35.07	24.29	26.08	55.86	57.96
Single-family	3.88	4.59	4.66	6.58	6.86	5.02	4.84	4.85	6.84	7.30	7.62	14.79	24.16	29.72	30.49	45.83	28.31	28.68	75.29	70.34
Apartments	1.26	2.23	2.54	4.62	4.39	3.48	1.98	3.08	7.57	9.89	8.52	13.14	30.69	73.24	32.84	71.31	58.34	59.49	67.61	0.00
Mobile homes	9.18	9.62	9.23	11.00	11.54	11.71	9.18	11.01	29.23	35.17	38.41	38.52	38.28	38.27	19.01	69.23	58.82	63.41	0.00	18.23
<b>Year of construction</b>																				
Before 1950	0.00	2.50	2.77	7.53	6.28	4.68	2.36	3.16	5.03	5.84	5.98	15.05	23.78	25.73	31.48	36.05	28.83	31.19	47.52	18.23
1950 to 1959	0.00	2.85	3.08	7.92	6.85	4.19	2.69	4.01	6.04	6.60	6.75	21.31	25.95	30.88	28.87	27.85	30.96	30.50	73.55	69.97
1960 to 1969	0.00	1.94	2.37	6.48	5.57	4.54	2.56	2.65	5.52	6.36	5.42	23.07	25.53	26.35	44.34	65.42	26.81	27.19	53.05	0.00
1970 to 1979	0.00	1.96	2.00	4.46	3.60	2.75	1.92	2.63	5.18	5.94	6.50	11.73	15.94	20.60	27.62	28.18	22.57	25.10	59.52	70.50

Relative standard errors (RSEs) for Table CE4.4 Annual household site end-use consumption by fuel in the South—totals, 2020

	RSEs for number of housing units																			
	RSEs for total site energy consumption <sup>a</sup>																			
	Electricity					Natural gas					Propane					Fuel oil or kerosene				
Total South <sup>b</sup>	Total	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	
<b>All homes</b>	0.00	0.65	0.67	1.80	1.54	1.05	0.66	0.87	1.86	2.24	2.26	7.95	5.36	7.54	8.82	9.18	14.24	14.81	28.14	35.53
1980 to 1989	0.00	2.04	1.89	4.32	3.69	2.90	2.30	2.42	6.17	7.14	6.85	19.42	17.10	19.29	25.05	29.17	55.12	48.50	20.79	14.23
1990 to 1999	0.00	1.99	1.58	4.51	3.81	2.75	1.74	2.20	5.93	6.25	6.72	15.24	12.25	17.09	19.54	22.34	50.44	54.65	20.47	78.37
2000 to 2009	0.00	2.24	1.59	4.69	3.25	2.82	2.02	2.13	6.67	6.74	6.71	28.76	13.26	19.21	17.58	22.62	70.92	61.40	0.00	14.40
2010 to 2015	3.94	5.66	5.38	8.22	7.29	6.21	4.91	6.37	8.85	9.26	10.07	25.52	23.25	31.60	25.78	29.51	18.74	18.74	0.00	0.00
2016 to 2020	4.87	6.00	5.20	8.33	7.22	5.91	4.77	6.67	11.13	11.85	11.00	25.69	24.67	36.06	30.76	31.17	0.00	0.00	0.00	0.00
<b>Total square footage<sup>b</sup></b>																				
Less than 1,000	1.98	2.66	2.54	4.37	4.00	3.28	2.55	3.17	5.54	7.58	6.94	11.13	18.86	19.63	32.96	33.96	26.48	32.46	67.61	59.34
1,000 to 1,499	1.76	1.97	2.11	4.05	3.26	3.12	2.23	2.40	4.35	5.03	5.63	9.77	11.00	13.70	20.60	21.05	35.55	38.01	58.16	70.78
1,500 to 1,999	2.68	3.06	3.13	5.18	4.15	3.83	3.47	3.22	4.91	5.58	5.44	12.66	12.24	16.44	15.64	24.06	37.38	38.19	69.86	58.28
2,000 to 2,499	3.38	3.87	3.51	4.72	5.29	4.69	3.68	3.99	6.60	7.14	7.58	11.73	16.75	22.79	22.11	31.09	24.41	24.43	71.79	14.40
2,500 to 2,999	4.50	4.41	4.69	7.57	6.96	5.50	4.38	4.91	6.79	6.44	7.81	27.16	21.73	30.94	25.81	29.51	37.69	37.27	77.87	0.00
3,000 or more	3.07	3.17	3.31	5.50	4.89	3.69	3.77	3.68	4.36	4.44	4.73	16.62	13.99	21.31	13.29	17.88	24.12	25.19	46.65	13.72
<b>Number of household members</b>																				
1 member	2.07	2.40	2.16	3.64	2.77	3.02	2.30	2.66	4.47	5.17	5.39	10.21	15.27	17.90	19.88	21.75	20.16	20.81	44.57	57.43
2 members	1.50	1.66	1.61	3.26	2.29	2.25	1.84	1.83	3.23	3.54	3.54	12.01	8.44	10.89	11.36	15.64	24.41	24.17	75.50	59.92
3 members	2.94	3.28	2.97	5.03	4.34	4.00	3.18	3.45	6.64	6.71	7.39	22.92	16.40	21.48	25.95	30.45	28.32	28.49	84.64	0.00
4 members	3.52	3.56	3.62	5.53	5.22	4.43	3.73	3.82	6.33	6.92	6.72	16.74	19.31	28.96	25.23	21.53	33.01	41.17	45.91	78.37
5 members	6.83	7.18	7.68	11.98	8.86	8.93	7.87	7.62	9.69	11.27	10.03	22.64	37.46	49.70	40.00	75.77	68.38	82.90	70.84	14.13
6 or more members	7.69	7.25	7.33	11.52	9.78	9.35	8.81	8.00	11.66	12.64	13.04	30.64	33.31	55.78	43.07	43.66	66.19	78.52	0.00	17.43
<b>2020 annual household income</b>																				
Less than \$5,000	7.49	8.80	8.71	11.15	10.53	11.20	8.64	9.97	15.64	18.79	16.16	37.27	33.21	44.35	43.08	54.15	60.78	87.13	84.92	0.00
\$5,000 to \$9,999	7.81	8.45	8.85	11.13	12.44	11.46	8.73	9.86	15.92	20.03	15.64	27.27	30.65	38.40	53.48	49.04	53.21	63.49	0.00	74.75
\$10,000 to \$19,999	4.55	5.22	5.04	7.72	6.78	6.34	5.53	5.71	9.04	9.23	11.36	20.34	19.21	23.89	29.92	36.96	33.72	36.79	20.79	70.93
\$20,000 to \$39,999	2.82	3.16	3.06	4.31	4.16	3.93	3.01	3.44	6.02	6.43	6.99	10.52	13.77	15.50	18.20	19.28	28.27	28.50	57.36	64.40
\$40,000 to \$59,999	3.07	3.31	3.64	5.06	5.00	4.27	3.43	3.69	6.27	6.19	6.11	34.17	13.20	18.44	20.32	24.11	31.30	33.30	70.87	0.00
\$60,000 to \$99,999	2.86	3.09	2.99	4.30	3.73	3.93	3.30	3.21	4.84	5.28	5.17	11.70	13.66	16.91	20.35	26.01	30.13	31.88	64.92	14.80
\$100,000 to \$149,999	3.33	3.58	3.79	5.46	5.64	5.15	3.88	3.78	5.51	5.59	6.67	16.62	20.11	27.30	27.54	25.44	33.03	34.24	77.37	13.72
\$150,000 or more	2.93	3.47	3.79	6.58	5.23	4.63	3.35	4.02	5.32	5.84	5.66	12.17	17.15	27.27	17.56	22.63	34.80	34.50	50.75	0.00
<b>Payment method for energy bills</b>																				
All paid by household	0.35	0.69	0.69	1.85	1.60	1.07	0.73	0.86	1.90	2.25	2.32	8.25	5.34	7.67	8.77	9.01	14.94	15.11	31.88	37.47
Some paid by household, some included in rent or condo fee	10.23	10.10	11.04	22.91	23.31	12.79	11.65	11.91	13.05	17.23	13.25	24.77	44.79	72.55	50.69	73.44	61.31	96.63	67.57	0.00
All included in rent or condo fee	9.33	9.49	10.33	14.53	13.36	11.53	10.62	10.16	14.76	20.62	15.35	22.22	15.13	15.13	0.00	0.00	13.06	13.06	13.06	0.00
Some other method	40.56	40.54	42.87	71.78	54.12	58.17	43.75	46.50	49.31	57.85	43.83	72.08	15.61	0.00	15.61	15.61	73.87	61.28	0.00	18.23
<b>Main heating fuel</b>																				
Natural gas	1.74	1.90	2.00	8.41	3.66	2.69	2.21	2.11	2.14	2.22	2.67	10.23	44.64	67.74	71.15	47.93	77.21	59.34	15.75	15.51
Electricity	1.24	1.59	1.49	1.92	1.90	1.80	1.58	1.88	8.80	26.01	8.36	14.85	7.39	15.60	11.10	13.14	38.37	32.21	69.70	70.50
Fuel oil or kerosene	13.81	14.29	14.45	39.67	16.81	17.20	14.40	14.33	61.60	14.20	75.20	58.41	44.19	49.59	14.75	38.57	15.43	15.10	35.30	47.02
Propane	5.91	6.95	7.02	18.65	9.48	9.02	7.27	7.76	75.35	14.19	14.19	62.93	8.05	8.36	12.91	17.53	76.29	76.29	0.00	0.00



Relative standard errors (RSEs) for Table CE4.4 Annual household site end-use consumption by fuel in the South—totals, 2020

RSEs for number of housing units  
RSEs for total site energy consumption<sup>a</sup>

	Electricity								Natural gas				Propane			Fuel oil or kerosene				
	Total South <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	
All homes	0.00	0.65	0.67	1.80	1.54	1.05	0.66	0.87	1.86	2.24	2.26	7.95	5.36	7.54	8.82	9.18	14.24	14.81	28.14	35.53
Wood	10.65	11.52	11.32	21.85	13.51	13.54	12.41	12.69	48.06	14.00	64.53	84.92	27.58	42.96	33.97	37.25	15.05	0.00	15.05	0.00
Some other fuel <sup>f</sup>	16.80	16.80	16.80	0.00	16.80	16.80	16.80	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Does not use heating equipment	6.86	6.92	6.89	0.00	8.81	7.30	7.42	7.40	18.94	0.00	19.31	47.45	51.18	0.00	52.69	75.72	84.92	0.00	84.92	0.00

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency 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> Includes main (primary) and secondary space heating.

<sup>d</sup> Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the CES tables.

<sup>e</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. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

<sup>f</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 and Cold.

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

<sup>h</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>i</sup> Some other fuel includes coal and district steam.