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**Table CE4.19 Annual household end-use expenditures by fuel in the South—averages, 2020**

	Number of housing units (million)		Average energy expenditures <sup>a</sup> (dollars per household using the fuel and end use)																	
	Total South <sup>b</sup>	Total	Electricity				Natural gas				Propane				Fuel oil or kerosene					
			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	1,839	1,548	299	324	382	104	667	552	420	220	75	511	423	388	177	873	786	442	638
<b>Census division</b>																				
South Atlantic	24.84	1,850	1,556	285	328	367	106	670	629	503	249	86	513	432	434	188	933	844	441	Q
East South Central	7.38	1,882	1,581	391	338	323	101	662	547	435	204	73	518	413	375	221	576	395	N	Q
West South Central	14.62	1,799	1,517	271	305	436	101	664	465	318	198	64	499	411	336	134	Q	N	Q	N
<b>Census urban/rural classification<sup>e</sup></b>																				
Urban	35.88	1,763	1,467	248	308	388	101	648	561	424	221	72	443	338	410	221	888	834	427	Q
Urbanized area	32.00	1,764	1,466	235	306	395	101	653	565	426	221	74	473	344	412	269	905	853	429	Q
Urban cluster	3.88	1,756	1,473	350	325	327	94	606	527	411	217	56	352	326	403	64	Q	Q	Q	N
Rural	10.96	2,088	1,811	434	364	361	114	728	489	388	215	89	538	448	377	161	855	735	Q	Q
<b>Climate region<sup>f</sup></b>																				
Very cold and Cold	0.38	1,875	1,274	481	367	147	97	559	639	563	162	16	856	945	Q	69	Q	Q	N	Q
Mixed-humid	23.61	1,915	1,522	374	353	297	103	669	642	498	226	74	541	445	425	173	870	773	441	Q
Mixed-dry and Hot-dry	1.02	1,597	1,229	271	322	290	96	587	480	336	172	40	Q	Q	Q	Q	N	N	N	N
Hot-humid	21.84	1,767	1,595	220	295	480	105	670	420	277	219	80	430	301	353	185	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	2,123	1,741	349	333	446	118	777	618	457	222	80	542	446	395	171	920	825	455	Q
Single-family attached	2.48	1,505	1,234	253	280	292	92	519	523	408	222	57	357	157	Q	Q	Q	Q	Q	N
Apartments in buildings with 2–4 units	2.36	1,206	1,081	164	316	267	68	413	367	254	243	70	Q	Q	Q	Q	Q	Q	Q	N
Apartments in buildings with 5 or more units	7.83	1,039	963	135	261	204	71	399	263	137	200	61	Q	N	Q	Q	Q	Q	Q	N
Mobile homes	3.89	1,830	1,701	390	406	343	88	597	256	294	202	42	397	338	335	191	737	607	N	Q
<b>Ownership of housing unit</b>																				
Owned	32.27	2,052	1,698	339	327	425	116	748	606	450	221	78	512	420	383	178	954	850	460	Q
Single-family	28.03	2,120	1,731	343	323	441	120	780	629	460	222	80	533	435	386	174	994	897	460	Q
Apartments	1.29	1,059	979	104	219	261	81	402	267	147	197	58	N	N	N	N	N	N	N	N
Mobile homes	2.95	1,835	1,699	390	397	346	94	596	259	292	219	47	395	327	342	195	714	570	N	Q
Rented <sup>g</sup>	14.57	1,368	1,215	220	317	279	76	486	388	302	216	61	498	465	419	169	659	597	Q	Q
Single-family	4.73	1,819	1,535	334	360	395	90	622	504	406	224	62	616	556	571	150	682	608	Q	Q
Apartments	8.90	1,081	992	146	282	212	69	403	293	173	212	64	344	Q	305	Q	Q	Q	Q	N
Mobile homes	0.94	1,814	1,708	392	433	335	68	599	247	301	Q	24	412	Q	Q	Q	Q	Q	N	Q
<b>Year of construction</b>																				
Before 1950	3.73	1,959	1,471	323	292	425	96	616	648	544	203	67	753	706	332	161	779	739	Q	Q
1950 to 1959	3.55	1,837	1,389	288	277	405	95	578	609	490	197	71	539	523	278	64	1,156	1,081	Q	Q
1960 to 1969	4.35	1,844	1,464	277	309	405	103	655	547	414	210	56	617	588	330	Q	742	663	Q	N
1970 to 1979	6.97	1,776	1,547	341	306	397	96	621	501	396	219	53	428	359	459	182	1,025	973	Q	Q
1980 to 1989	7.44	1,797	1,579	340	319	378	102	638	528	408	234	82	544	581	329	125	676	537	Q	Q
1990 to 1999	7.75	1,917	1,644	289	360	377	113	716	592	426	234	94	462	352	484	242	Q	Q	Q	Q

**Table CE4.19 Annual household end-use expenditures by fuel in the South—averages, 2020**

	Number of housing units (million)		Average energy expenditures <sup>a</sup> (dollars per household using the fuel and end use)																	
			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>	46.84	1,839	1,548	299	324	382	104	667	552	420	220	75	511	423	388	177	873	786	442	638
2000 to 2009	7.74	1,891	1,624	280	337	379	112	743	543	379	243	78	496	291	428	211	Q	Q	N	Q
2010 to 2015	2.94	1,733	1,516	252	346	317	108	700	428	292	209	79	436	240	368	126	Q	Q	N	N
2016 to 2020	2.38	1,670	1,435	202	322	308	95	680	473	324	199	97	413	241	334	172	N	N	N	N
<b>Total square footage<sup>h</sup></b>																				
Less than 1,000	10.79	1,248	1,105	194	296	232	76	458	348	258	209	50	341	272	338	144	512	401	Q	Q
1,000 to 1,499	11.87	1,567	1,365	266	317	327	89	545	470	359	220	56	508	439	378	170	718	572	Q	Q
1,500 to 1,999	8.63	1,908	1,609	316	342	408	110	672	551	423	213	66	461	407	367	130	818	722	Q	Q
2,000 to 2,499	5.78	2,087	1,744	351	330	460	114	765	575	438	213	59	485	402	435	175	1,039	951	Q	Q
2,500 to 2,999	3.57	2,340	1,900	381	351	494	130	872	670	469	234	98	529	387	435	207	1,195	1,098	Q	N
3,000 or more	6.20	2,772	2,197	469	354	556	146	1,047	776	562	237	119	654	519	388	229	1,151	1,090	Q	Q
<b>Number of household members</b>																				
1 member	12.59	1,365	1,129	259	184	293	88	465	465	404	171	52	516	474	266	151	889	784	Q	Q
2 members	17.64	1,830	1,531	305	286	371	110	667	557	421	208	80	536	445	376	185	901	825	Q	Q
3 members	7.01	2,100	1,768	318	412	431	108	784	604	435	236	91	479	339	524	193	814	792	Q	N
4 members	5.64	2,212	1,886	305	511	468	107	813	601	420	266	83	444	304	514	139	794	639	Q	Q
5 members	2.46	2,346	2,047	359	520	508	116	889	604	405	295	71	389	165	Q	Q	Q	Q	Q	Q
6 or more members	1.51	2,470	2,139	354	662	495	115	900	597	472	302	57	561	Q	Q	282	Q	Q	N	Q
<b>2020 annual household income</b>																				
Less than \$5,000	1.91	1,467	1,267	286	352	291	76	494	399	363	214	66	565	564	Q	195	Q	Q	Q	N
\$5,000 to \$9,999	1.68	1,391	1,203	253	334	292	75	457	363	331	214	50	468	536	Q	Q	Q	Q	N	Q
\$10,000 to \$19,999	4.15	1,532	1,305	311	283	302	85	523	434	335	222	41	466	442	333	142	693	558	Q	Q
\$20,000 to \$39,999	10.18	1,630	1,386	284	322	324	92	561	492	403	202	50	545	500	342	140	922	808	Q	Q
\$40,000 to \$59,999	7.97	1,719	1,473	276	321	363	98	612	524	407	208	68	507	408	383	197	560	539	Q	N
\$60,000 to \$99,999	9.96	1,869	1,579	291	321	386	112	688	555	409	225	62	440	325	407	180	920	843	Q	Q
\$100,000 to \$149,999	5.48	2,110	1,762	323	345	448	117	788	592	425	223	78	480	347	477	118	1,162	1,097	Q	Q
\$150,000 or more	5.51	2,573	2,070	372	338	542	136	1,016	736	517	242	128	623	444	413	255	1,393	1,161	Q	N
<b>Payment method for energy bills</b>																				
All paid by household	44.48	1,873	1,576	303	325	390	105	679	574	431	222	76	507	418	388	173	904	807	457	Q
Some paid by household, some included in rent or condo fee	1.02	1,305	1,035	249	334	245	72	492	262	161	196	55	Q	Q	Q	Q	Q	Q	Q	N
All included in rent or condo fee	1.29	1,111	987	188	277	199	75	387	261	205	196	51	Q	Q	N	N	Q	Q	Q	N
Some other method	0.05	1,606	1,127	Q	Q	Q	91	648	Q	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q
<b>Main heating fuel</b>																				
Natural gas	15.54	2,048	1,409	98	315	417	114	782	638	436	211	66	211	Q	Q	Q	Q	Q	Q	Q
Electricity	25.76	1,718	1,658	340	322	355	98	600	239	136	254	101	279	111	417	197	282	120	Q	Q
Fuel oil or kerosene	0.47	2,582	1,460	234	390	251	108	704	Q	Q	Q	Q	156	Q	Q	110	1,089	990	420	Q
Propane	1.39	2,469	1,496	121	417	313	116	762	Q	Q	Q	Q	971	745	354	159	Q	Q	N	N
Wood	0.60	1,533	1,428	139	411	235	119	685	Q	Q	Q	Q	301	Q	427	137	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	1,458	1,387	N	292	496	89	596	308	N	302	131	285	N	Q	Q	Q	N	Q	N

**Table CE4.19 Annual household end-use expenditures by fuel in the South—averages, 2020**

	Number of housing units (million)	Average energy expenditures <sup>a</sup> (dollars per household using the fuel and end use)																		
		Electricity							Natural gas				Propane			Fuel oil or kerosene				
		Total South <sup>b</sup>	Total	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	1,839	1,548	299	324	382	104	667	552	420	220	75	511	423	388	177	873	786	442	638

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.

<sup>a</sup> Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded.

<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 CE5 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.

**Relative standard errors (RSEs) for Table CE4.19 Annual household end-use expenditures by fuel in the South—averages, 2020**

	RSEs for number of housing units	RSEs for average energy expenditures <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	0.59	0.66	1.57	1.37	1.05	0.67	0.86	1.40	1.62	1.18	6.72	4.51	6.01	4.75	8.59	7.52	8.15	6.62	5.12
<b>Census division</b>																				
South Atlantic	0.00	0.89	0.95	2.24	1.68	1.55	0.90	1.23	2.03	2.16	2.04	9.21	6.78	8.40	7.34	11.21	8.41	8.60	8.72	8.12
East South Central	0.00	1.11	1.25	2.97	2.24	1.95	1.67	1.83	2.62	3.23	2.80	13.42	9.03	10.20	8.15	21.04	24.29	29.34	0.00	1.34
West South Central	0.00	1.04	1.20	3.37	2.30	1.82	1.45	1.54	1.90	2.32	1.72	9.56	9.17	11.01	5.30	16.92	14.83	0.00	14.83	0.00
<b>Census urban/rural classification<sup>e</sup></b>																				
Urban	0.61	0.68	0.77	2.22	1.67	1.21	0.75	1.07	1.43	1.72	1.29	7.60	9.06	13.68	9.56	19.47	9.25	9.05	6.95	11.35
Urbanized area	0.87	0.77	0.88	2.48	1.80	1.27	0.84	1.14	1.56	1.91	1.44	7.05	11.09	17.35	10.14	20.92	9.51	9.93	7.41	11.35
Urban cluster	4.29	1.84	1.99	5.11	3.22	3.26	2.08	2.44	3.95	4.01	3.78	27.92	18.38	22.13	25.57	23.11	23.42	18.56	0.00	0.00
Rural	1.99	1.29	1.22	2.42	1.97	1.79	1.49	1.81	4.23	3.86	4.35	15.71	5.13	6.98	5.46	9.39	10.90	11.74	30.09	6.35
<b>Climate region<sup>f</sup></b>																				
Very cold and Cold	8.76	4.40	5.68	12.65	8.39	7.30	5.21	6.54	6.04	7.69	9.05	14.50	24.71	24.04	65.98	17.45	12.82	25.12	0.00	0.00
Mixed-humid	0.61	0.80	0.86	1.59	1.59	1.33	0.88	1.22	1.52	1.66	1.78	8.00	5.31	6.82	5.90	11.29	7.84	8.68	8.72	6.06
Mixed-dry and Hot-dry	9.05	4.28	5.32	17.76	14.39	7.88	5.49	6.03	5.14	6.72	5.84	23.87	137.21	0.00	0.00	131.62	0.00	0.00	0.00	0.00
Hot-humid	0.71	1.05	1.14	2.87	1.87	1.51	1.11	1.63	2.28	3.15	1.95	9.75	7.90	11.80	6.17	16.22	14.83	0.00	14.83	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	0.64	0.75	2.06	1.59	1.21	0.79	0.89	1.45	1.60	1.36	8.00	5.00	6.73	5.03	9.48	8.91	9.04	10.32	7.11
Single-family attached	0.00	2.33	2.32	6.53	4.79	3.78	2.98	2.95	4.66	4.55	3.62	14.23	22.04	40.20	11.44	57.66	41.76	33.93	12.40	0.00
Apartments in buildings with 2–4 units	0.00	2.82	3.20	6.77	5.41	5.10	2.30	3.85	8.29	10.87	4.31	22.03	21.31	50.48	9.56	0.00	1.34	0.00	42.70	0.00
Apartments in buildings with 5 or more units	0.00	1.87	1.98	4.07	3.54	2.86	1.68	3.16	4.09	6.25	3.49	12.50	16.85	0.00	14.78	0.00	12.85	46.16	20.24	0.00
Mobile homes	0.00	2.06	2.25	4.27	4.00	3.26	2.68	3.38	10.93	8.76	10.63	17.42	9.80	11.78	16.35	22.18	16.87	24.57	0.00	1.42
<b>Ownership of housing unit</b>																				
Owned	0.71	0.68	0.78	1.88	1.47	1.20	0.86	1.01	1.50	1.65	1.47	8.28	4.78	6.56	4.90	8.98	8.85	9.55	9.56	7.24
Single-family	0.65	0.68	0.79	2.04	1.40	1.28	0.87	0.98	1.48	1.56	1.45	8.65	5.18	7.12	5.02	9.88	9.37	9.47	9.56	9.36
Apartments	8.65	3.80	3.92	15.35	6.84	7.27	3.21	5.65	7.37	13.43	8.10	19.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile homes	2.91	2.31	2.41	4.72	4.98	4.10	2.57	3.75	12.42	9.74	11.83	19.35	10.58	14.38	14.94	23.18	23.97	34.53	0.00	0.70
Rented <sup>g</sup>	1.57	1.36	1.45	2.73	2.53	2.00	1.70	1.78	3.28	4.25	2.29	8.88	11.65	18.34	11.40	23.15	13.63	14.66	9.21	2.34
Single-family	3.88	1.94	2.23	4.98	4.44	2.67	2.87	2.31	3.71	4.77	2.79	12.24	16.63	26.07	14.33	32.49	17.62	17.38	44.86	3.66
Apartments	1.26	1.63	1.84	3.77	3.22	2.69	1.64	2.52	4.88	6.48	3.16	11.26	12.07	50.48	9.52	20.56	7.45	21.81	12.10	0.00
Mobile homes	9.18	5.28	5.42	8.23	6.99	5.96	4.36	8.16	18.19	22.68	16.96	29.63	22.53	21.64	0.00	73.48	27.19	36.88	0.00	0.00
<b>Year of construction</b>																				
Before 1950	0.00	2.52	2.91	6.76	5.54	4.57	2.47	3.28	4.08	4.92	3.49	13.65	18.24	19.10	23.82	32.78	16.66	19.46	12.67	0.00
1950 to 1959	0.00	2.46	3.04	6.28	5.13	3.93	2.77	3.79	4.54	4.42	3.69	20.63	21.39	22.77	12.00	21.76	16.04	15.69	13.06	9.04
1960 to 1969	0.00	1.86	2.43	6.09	3.93	4.54	2.53	2.75	3.42	3.98	3.60	20.55	18.81	16.28	29.92	65.05	12.55	13.34	15.96	0.00
1970 to 1979	0.00	1.86	1.96	4.45	3.18	2.76	1.86	2.49	3.30	3.82	4.25	11.80	11.60	14.54	14.01	21.45	14.77	15.81	27.35	0.70
1980 to 1989	0.00	1.85	1.88	3.95	2.98	2.73	2.27	2.33	4.25	4.83	3.33	17.60	12.61	13.69	13.02	25.30	40.97	28.63	0.00	0.06



Relative standard errors (RSEs) for Table CE4.19 Annual household end-use expenditures by fuel in the South—averages, 2020

	RSEs for average energy expenditures <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	0.59	0.66	1.57	1.37	1.05	0.67	0.86	1.40	1.62	1.18	6.72	4.51	6.01	4.75	8.59	7.52	8.15	6.62	5.12
Does not use heating equipment	6.86	3.53	3.66	0.00	4.76	5.33	3.25	4.70	12.92	0.00	12.07	42.89	46.32	0.00	19.42	69.70	17.92	0.00	17.92	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.

<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 CE5 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.