

Table CE2.9 Annual household fuel expenditures in the South—totals and averages, 2020

	Number of housing units (million)	Total energy expenditures ^a (billion dollars)					Average energy expenditures ^a (dollars per household using the fuel)				
		Total South ^b	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	Total	Electricity	Natural gas	Propane
All homes	46.84	86.14	72.50	10.99	2.10	0.56	1,839	1,548	552	511	873
Census division											
South Atlantic	24.84	45.96	38.65	5.64	1.16	0.51	1,850	1,556	629	513	933
East South Central	7.38	13.89	11.67	1.73	0.45	0.05	1,882	1,581	547	518	576
West South Central	14.62	26.30	22.18	3.62	0.49	Q	1,799	1,517	465	499	Q
Census urban/rural classification^c											
Urban	35.88	63.25	52.63	9.79	0.52	0.30	1,763	1,467	561	443	888
Urbanized area	32.00	56.43	46.92	8.84	0.42	0.26	1,764	1,466	565	473	905
Urban cluster	3.88	6.82	5.72	0.95	0.10	Q	1,756	1,473	527	352	Q
Rural	10.96	22.89	19.86	1.20	1.57	0.26	2,088	1,811	489	538	855
Climate region^d											
Very cold/Cold	0.38	0.70	0.48	0.12	0.07	Q	1,875	1,274	639	856	Q
Mixed-humid	23.61	45.21	35.94	7.34	1.42	0.52	1,915	1,522	642	541	870
Mixed-dry/Hot-dry	1.02	1.63	1.26	0.36	Q	N	1,597	1,229	480	Q	N
Hot-humid	21.84	38.59	34.83	3.17	0.59	Q	1,767	1,595	420	430	Q
Marine	N	N	N	N	N	N	N	N	N	N	N
Housing unit type											
Single-family detached	30.29	64.31	52.73	9.35	1.78	0.46	2,123	1,741	618	542	920
Single-family attached	2.48	3.73	3.06	0.62	0.03	Q	1,505	1,234	523	357	Q
Apartments in buildings with 2–4 units	2.36	2.84	2.55	0.28	Q	Q	1,206	1,081	367	Q	Q
Apartments in buildings with 5 or more units	7.83	8.14	7.55	0.57	Q	Q	1,039	963	263	Q	Q
Mobile homes	3.89	7.12	6.62	0.18	0.26	0.07	1,830	1,701	256	397	737
Ownership of housing unit											
Owned	32.27	66.22	54.80	9.07	1.90	0.45	2,052	1,698	606	512	954
Single-family	28.03	59.43	48.52	8.83	1.68	0.40	2,120	1,731	629	533	994
Apartments	1.29	1.37	1.26	0.10	N	N	1,059	979	267	N	N
Mobile homes	2.95	5.42	5.01	0.14	0.22	0.05	1,835	1,699	259	395	714
Rented ^e	14.57	19.93	17.70	1.92	0.20	0.12	1,368	1,215	388	498	659
Single-family	4.73	8.61	7.27	1.14	0.12	0.08	1,819	1,535	504	616	682
Apartments	8.90	9.62	8.83	0.74	0.04	Q	1,081	992	293	344	Q
Mobile homes	0.94	1.70	1.60	0.04	0.04	Q	1,814	1,708	247	412	Q
Year of construction											
Before 1950	3.73	7.30	5.48	1.46	0.24	0.12	1,959	1,471	648	753	779
1950 to 1959	3.55	6.52	4.93	1.30	0.13	0.15	1,837	1,389	609	539	1,156
1960 to 1969	4.35	8.02	6.37	1.35	0.21	0.10	1,844	1,464	547	617	742
1970 to 1979	6.97	12.37	10.78	1.24	0.23	0.12	1,776	1,547	501	428	1,025
1980 to 1989	7.44	13.36	11.75	1.28	0.29	Q	1,797	1,579	528	544	676
1990 to 1999	7.75	14.86	12.75	1.72	0.38	Q	1,917	1,644	592	462	Q
2000 to 2009	7.74	14.64	12.58	1.64	0.41	Q	1,891	1,624	543	496	Q
2010 to 2015	2.94	5.10	4.46	0.52	0.12	Q	1,733	1,516	428	436	Q
2016 to 2020	2.38	3.97	3.41	0.47	0.09	N	1,670	1,435	473	413	N
Total square footage^f											
Less than 1,000	10.79	13.47	11.93	1.30	0.17	0.07	1,248	1,105	348	341	512
1,000 to 1,499	11.87	18.61	16.20	1.93	0.41	0.07	1,567	1,365	470	508	718
1,500 to 1,999	8.63	16.47	13.88	2.07	0.41	0.10	1,908	1,609	551	461	818
2,000 to 2,499	5.78	12.06	10.08	1.58	0.29	0.11	2,087	1,744	575	485	1,039
2,500 to 2,999	3.57	8.35	6.78	1.34	0.17	0.06	2,340	1,900	670	529	1,195
3,000 or more	6.20	17.19	13.62	2.77	0.64	0.15	2,772	2,197	776	654	1,151
Number of household members											
1 member	12.59	17.19	14.21	2.32	0.51	0.15	1,365	1,129	465	516	889
2 members	17.64	32.28	27.00	4.01	1.06	0.21	1,830	1,531	557	536	901
3 members	7.01	14.71	12.39	2.01	0.23	0.09	2,100	1,768	604	479	814
4 members	5.64	12.47	10.64	1.60	0.17	0.07	2,212	1,886	601	444	794
5 members	2.46	5.77	5.04	0.65	0.06	Q	2,346	2,047	604	389	Q
6 or more members	1.51	3.72	3.22	0.41	0.07	Q	2,470	2,139	597	561	Q
2020 annual household income											

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		Total South ^b	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	Total	Electricity	Natural gas	Propane
All homes	46.84	86.14	72.50	10.99	2.10	0.56	1,839	1,548	552	511	873
Less than \$5,000	1.91	2.80	2.42	0.29	0.08	Q	1,467	1,267	399	565	Q
\$5,000 to \$9,999	1.68	2.34	2.03	0.22	0.07	Q	1,391	1,203	363	468	Q
\$10,000 to \$19,999	4.15	6.35	5.41	0.67	0.23	0.05	1,532	1,305	434	466	693
\$20,000 to \$39,999	10.18	16.60	14.12	1.83	0.49	0.16	1,630	1,386	492	545	922
\$40,000 to \$59,999	7.97	13.70	11.73	1.60	0.31	0.05	1,719	1,473	524	507	560
\$60,000 to \$99,999	9.96	18.61	15.73	2.39	0.37	0.12	1,869	1,579	555	440	920
\$100,000 to \$149,999	5.48	11.57	9.66	1.65	0.20	0.06	2,110	1,762	592	480	1,162
\$150,000 or more	5.51	14.17	11.40	2.35	0.35	0.07	2,573	2,070	736	623	1,393
Payment method for energy bills											
All paid by household	44.48	83.30	70.11	10.61	2.04	0.54	1,873	1,576	574	507	904
Some paid by household, some included in rent or condo fee	1.02	1.33	1.06	0.22	Q	Q	1,305	1,035	262	Q	Q
All included in rent or condo fee	1.29	1.44	1.28	0.15	Q	Q	1,111	987	261	Q	Q
Some other method	0.05	0.08	0.06	Q	Q	Q	1,606	1,127	Q	Q	Q
Main heating fuel											
Natural gas	15.54	31.82	21.89	9.91	0.01	Q	2,048	1,409	638	211	Q
Electricity	25.76	44.26	42.70	0.88	0.64	0.03	1,718	1,658	239	279	282
Fuel oil or kerosene	0.47	1.22	0.69	Q	0.01	0.52	2,582	1,460	Q	156	1,089
Propane	1.39	3.43	2.08	Q	1.35	Q	2,469	1,496	Q	971	Q
Wood	0.60	0.92	0.86	Q	0.04	Q	1,533	1,428	Q	301	Q
Some other fuel ^g	Q	Q	Q	N	N	N	Q	Q	N	N	N
Does not use heating equipment	3.08	4.48	4.27	0.17	0.04	Q	1,458	1,387	308	285	Q

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.

^a Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded.

^b 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.

^c 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.

^d 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.

^e Rented includes households that occupy their primary housing units without paying rent.

^f 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.

^g 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 CE2.9 Annual household fuel expenditures in the South—totals and averages, 2020

	RSEs for number of housing units		RSEs for total energy expenditures ^a					RSEs for average energy expenditures ^a				
	Total South ^b	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	
All homes	0.00	0.59	0.66	1.69	5.29	13.93	0.59	0.66	1.40	4.51	7.52	
Census division												
South Atlantic	0.00	0.89	0.95	2.73	8.35	15.21	0.89	0.95	2.03	6.78	8.41	
East South Central	0.00	1.11	1.25	4.25	12.01	32.86	1.11	1.25	2.62	9.03	24.29	
West South Central	0.00	1.04	1.20	2.96	11.70	79.06	1.04	1.20	1.90	9.17	14.83	
Census urban/rural classification^c												
Urban	0.61	0.93	1.01	1.90	13.12	15.87	0.68	0.77	1.43	9.06	9.25	
Urbanized area	0.87	1.24	1.34	2.00	14.26	17.10	0.77	0.88	1.56	11.09	9.51	
Urban cluster	4.29	4.68	4.63	7.97	26.96	41.49	1.84	1.99	3.95	18.38	23.42	
Rural	1.99	2.16	2.16	6.62	6.09	18.86	1.29	1.22	4.23	5.13	10.90	
Climate region^d												
Very cold/Cold	8.76	9.60	9.36	13.15	35.48	47.60	4.40	5.68	6.04	24.71	12.82	
Mixed-humid	0.61	1.09	1.14	2.55	6.92	13.49	0.80	0.86	1.52	5.31	7.84	
Mixed-dry/Hot-dry	9.05	9.58	9.95	12.32	99.18	0.00	4.28	5.32	5.14	137.21	0.00	
Hot-humid	0.71	1.39	1.46	3.51	10.01	79.06	1.05	1.14	2.28	7.90	14.83	
Marine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Housing unit type												
Single-family detached	0.00	0.64	0.75	1.98	6.56	16.95	0.64	0.75	1.45	5.00	8.91	
Single-family attached	0.00	2.33	2.32	7.32	31.93	68.73	2.33	2.32	4.66	22.04	41.76	
Apartments in buildings with 2–4 units	0.00	2.82	3.20	12.11	44.76	75.42	2.82	3.20	8.29	21.31	1.34	
Apartments in buildings with 5 or more units	0.00	1.87	1.98	7.55	44.11	80.57	1.87	1.98	4.09	16.85	12.85	
Mobile homes	0.00	2.06	2.25	15.48	14.79	32.14	2.06	2.25	10.93	9.80	16.87	
Ownership of housing unit												
Owned	0.71	0.98	1.04	2.19	5.89	15.27	0.68	0.78	1.50	4.78	8.85	
Single-family	0.65	0.94	1.00	2.24	6.76	16.93	0.68	0.79	1.48	5.18	9.37	
Apartments	8.65	9.34	9.42	17.78	0.00	0.00	3.80	3.92	7.37	0.00	0.00	
Mobile homes	2.91	4.14	4.40	18.22	15.49	37.20	2.31	2.41	12.42	10.58	23.97	
Rented ^e	1.57	2.30	2.25	5.39	17.00	24.14	1.36	1.45	3.28	11.65	13.63	
Single-family	3.88	4.70	4.76	7.19	23.27	28.66	1.94	2.23	3.71	16.63	17.62	
Apartments	1.26	2.21	2.40	7.65	30.67	58.33	1.63	1.84	4.88	12.07	7.45	
Mobile homes	9.18	9.56	9.53	28.17	36.68	60.83	5.28	5.42	18.19	22.53	27.19	
Year of construction												
Before 1950	0.00	2.52	2.91	5.44	23.55	28.48	2.52	2.91	4.08	18.24	16.66	
1950 to 1959	0.00	2.46	3.04	5.75	24.92	30.37	2.46	3.04	4.54	21.39	16.04	
1960 to 1969	0.00	1.86	2.43	4.82	26.90	27.45	1.86	2.43	3.42	18.81	12.55	
1970 to 1979	0.00	1.86	1.96	4.87	15.83	22.98	1.86	1.96	3.30	11.60	14.77	
1980 to 1989	0.00	1.85	1.88	6.09	15.41	54.18	1.85	1.88	4.25	12.61	40.97	
1990 to 1999	0.00	1.73	1.62	6.12	11.85	49.77	1.73	1.62	3.30	9.84	33.28	
2000 to 2009	0.00	1.55	1.56	5.64	13.04	67.14	1.55	1.56	3.53	9.33	28.73	
2010 to 2015	3.94	5.28	5.26	8.60	22.30	18.74	3.01	2.89	5.65	13.27	0.00	
2016 to 2020	4.87	5.28	5.23	9.75	23.77	0.00	2.99	2.93	7.02	16.45	0.00	
Total square footage^f												
Less than 1,000	1.98	2.66	2.65	5.62	18.88	26.50	1.58	1.56	3.67	13.28	12.21	
1,000 to 1,499	1.76	1.99	2.13	4.53	11.18	35.09	1.19	1.32	2.56	8.52	25.22	
1,500 to 1,999	2.68	3.03	3.13	4.99	12.04	36.25	1.06	1.23	2.76	10.74	21.62	
2,000 to 2,499	3.38	3.66	3.57	6.54	17.81	24.50	1.31	1.56	2.48	11.40	12.63	
2,500 to 2,999	4.50	4.26	4.49	7.08	20.05	38.21	1.53	1.80	4.35	15.66	20.31	
3,000 or more	3.07	3.23	3.44	4.42	13.32	24.13	1.33	1.65	2.88	9.80	13.01	
Number of household members												
1 member	2.07	2.28	2.12	4.28	14.78	20.33	1.36	1.44	3.16	9.55	10.87	
2 members	1.50	1.48	1.51	3.38	7.71	24.00	0.85	0.79	2.31	6.01	11.97	
3 members	2.94	2.95	2.99	6.05	16.63	28.06	1.53	1.62	3.74	13.45	21.94	
4 members	3.52	3.57	3.66	6.16	19.19	33.14	1.79	1.83	3.40	14.09	22.95	
5 members	6.83	7.28	7.51	9.29	39.17	69.67	2.48	2.64	5.20	37.59	54.26	
6 or more members	7.69	7.41	7.48	12.26	33.89	66.16	3.58	3.75	6.14	27.25	23.04	
2020 annual household income												

Relative standard errors (RSEs) for Table CE2.9 Annual household fuel expenditures in the South—totals and averages, 2020

	RSEs for number of housing units	RSEs for total energy expenditures ^a					RSEs for average energy expenditures ^a					
		Total South ^b	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene
All homes	0.00	0.59	0.66	1.69	5.29	13.93	0.59	0.66	1.40	4.51	7.52	
Less than \$5,000	7.49	8.50	8.47	17.83	34.16	60.69	3.56	3.95	10.87	17.50	13.51	
\$5,000 to \$9,999	7.81	8.50	8.83	16.42	30.61	53.84	4.18	4.62	10.34	25.79	31.09	
\$10,000 to \$19,999	4.55	5.13	5.12	9.02	18.70	33.30	2.20	2.32	4.00	15.51	21.97	
\$20,000 to \$39,999	2.82	3.00	3.02	5.59	13.34	28.23	1.40	1.58	3.03	12.09	15.94	
\$40,000 to \$59,999	3.07	3.30	3.61	5.25	12.86	30.29	1.60	1.74	4.09	10.04	12.32	
\$60,000 to \$99,999	2.86	3.10	3.04	5.24	13.86	29.58	1.38	1.55	2.57	10.39	13.01	
\$100,000 to \$149,999	3.33	3.48	3.67	5.55	19.42	33.61	1.65	1.85	3.27	12.13	16.24	
\$150,000 or more	2.93	3.46	3.76	5.18	14.89	35.50	1.74	2.00	3.68	11.08	18.34	
Payment method for energy bills												
All paid by household	0.35	0.63	0.69	1.71	5.19	14.63	0.65	0.71	1.35	4.45	7.85	
Some paid by household, some included in rent or condo fee	10.23	10.43	11.02	13.05	46.29	61.31	5.36	5.74	8.75	34.30	8.25	
All included in rent or condo fee	9.33	10.13	10.62	15.19	15.13	13.06	3.96	4.61	11.88	0.00	0.00	
Some other method	40.56	42.55	45.38	50.84	15.61	73.87	15.89	16.97	37.58	0.00	63.57	
Main heating fuel												
Natural gas	1.74	1.87	1.98	2.02	43.53	77.20	0.91	1.09	1.22	42.16	86.99	
Electricity	1.24	1.52	1.51	7.50	7.02	38.08	0.91	0.93	5.06	5.21	27.95	
Fuel oil or kerosene	13.81	14.16	14.62	48.53	41.03	15.11	4.70	6.79	36.13	34.66	5.87	
Propane	5.91	6.76	6.79	76.80	7.80	76.29	2.73	2.89	85.59	4.63	31.81	
Wood	10.65	10.76	10.65	48.13	26.51	15.05	3.60	3.60	24.33	16.79	0.00	
Some other fuel ^g	16.80	16.80	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Does not use heating equipment	6.86	6.80	6.86	19.12	49.64	84.92	3.53	3.66	12.92	46.32	17.93	

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.

^a Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded.

^b 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.

^c 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.

^d 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.

^e Rented includes households that occupy their primary housing units without paying rent.

^f 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.

^g Some other fuel includes coal and district steam.