

**Table 43. Average quality of coal received at manufacturing and coke plants by census division and state**

Census division and state <sup>1</sup>	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
<b>New England</b>						
Btu	12,705	12,654	12,660	12,689	12,604	0.7
Sulfur	0.75	0.78	0.75	0.78	0.80	-2.7
Ash	7.27	8.72	7.81	7.71	8.22	-6.2
<b>Maine</b>						
Btu	12,773	12,773	12,714	12,741	12,674	0.5
Sulfur	0.73	0.73	0.67	0.75	0.72	4.2
Ash	7.39	7.39	7.11	7.26	7.61	-4.6
<b>Massachusetts</b>						
Btu	12,267	12,322	12,339	12,337	12,305	0.3
Sulfur	0.89	0.91	1.19	0.96	1.14	-15.5
Ash	6.53	12.44	11.94	10.72	10.79	-0.7
<b>Middle Atlantic</b>						
Btu	14,094	14,139	13,852	14,080	13,827	1.8
Sulfur	1.07	1.14	1.12	1.11	1.14	-2.5
Ash	7.49	7.64	8.75	7.77	8.68	-10.5
<b>New York</b>						
Btu	13,100	13,524	13,593	13,370	13,422	-0.4
Sulfur	2.05	1.68	1.71	1.81	1.64	10.6
Ash	8.10	7.56	7.02	7.81	7.20	8.5
<b>Pennsylvania</b>						
Btu	14,125	14,188	13,867	14,125	13,856	1.9
Sulfur	1.04	1.09	1.09	1.07	1.10	-3.5
Ash	7.48	7.65	8.84	7.77	8.79	-11.6
<b>East North Central</b>						
Btu	13,283	13,153	13,270	13,215	13,185	0.2
Sulfur	1.14	1.20	1.95	1.16	1.44	-19.1
Ash	7.29	7.25	6.55	7.24	7.06	2.6
<b>Illinois</b>						
Btu	11,522	11,338	11,528	11,392	11,432	-0.3
Sulfur	2.20	2.18	2.13	2.10	2.15	-2.5
Ash	7.54	7.47	7.57	7.46	7.54	-1.1
<b>Indiana</b>						
Btu	14,067	14,076	13,936	14,080	13,969	0.8
Sulfur	0.83	0.86	0.88	0.83	0.87	-4.6
Ash	7.11	7.10	7.45	7.10	7.40	-3.9
<b>Michigan</b>						
Btu	13,120	13,121	13,833	13,151	13,360	-1.6
Sulfur	0.74	0.92	5.15	0.86	3.01	-71.4
Ash	7.21	7.28	2.54	7.26	4.84	50.0
<b>Ohio</b>						
Btu	14,198	14,176	14,104	14,159	14,094	0.5
Sulfur	1.00	1.00	1.03	1.00	0.99	0.9
Ash	7.43	7.22	7.31	7.29	7.29	s
<b>Wisconsin</b>						
Btu	10,833	10,913	11,237	10,830	10,798	0.3
Sulfur	0.81	0.73	0.82	0.85	0.78	8.1
Ash	7.18	7.32	7.06	6.98	6.75	3.4
<b>West North Central</b>						
Btu	8,281	8,240	8,387	8,235	8,323	-1.1
Sulfur	0.85	0.83	0.95	0.84	0.89	-5.9
Ash	6.36	6.24	6.56	6.31	6.33	-0.3
<b>Iowa</b>						
Btu	9,271	9,182	9,332	9,194	9,285	-1.0
Sulfur	0.94	0.82	0.96	0.84	0.89	-4.8
Ash	5.35	5.19	6.32	5.21	5.63	-7.4
<b>Kansas</b>						

Census division and state¹	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Btu	10,861	11,287	10,986	10,914	10,893	0.2
Sulfur	1.83	2.64	1.65	2.09	1.74	20.1
Ash	12.07	12.54	11.05	12.57	10.21	23.1
<b>Minnesota</b>						
Btu	9,105	9,034	9,072	9,102	9,143	-0.4
Sulfur	0.30	0.29	0.28	0.30	0.31	-4.0
Ash	4.64	4.65	4.75	4.53	4.60	-1.6
<b>Missouri</b>						
Btu	11,148	11,192	11,269	11,256	11,220	0.3
Sulfur	2.39	2.32	2.52	2.35	2.29	2.7
Ash	8.72	8.42	8.97	8.69	8.92	-2.5
<b>Nebraska</b>						
Btu	9,097	8,919	9,091	8,957	8,999	-0.5
Sulfur	0.25	0.23	0.24	0.24	0.24	s
Ash	4.93	4.84	4.99	4.81	4.79	0.6
<b>North Dakota</b>						
Btu	7,191	7,203	7,197	7,183	7,222	-0.5
Sulfur	0.76	0.79	0.88	0.80	0.90	-11.4
Ash	6.81	6.73	6.66	6.81	6.73	1.3
<b>South Dakota</b>						
Btu	8,399	8,428	8,399	8,364	8,392	-0.3
Sulfur	0.55	0.59	0.59	0.57	0.59	-3.2
Ash	6.12	6.42	6.70	6.44	6.64	-3.0
<b>South Atlantic</b>						
Btu	13,359	13,376	13,369	13,402	13,370	0.2
Sulfur	1.12	1.18	1.23	1.11	1.17	-5.1
Ash	9.74	9.97	9.79	9.62	9.65	-0.3
<b>Florida</b>						
Btu	12,648	12,511	12,617	12,647	12,648	s
Sulfur	0.93	1.12	1.62	0.96	1.38	-30.2
Ash	10.58	10.54	9.94	10.51	9.09	15.5
<b>Georgia</b>						
Btu	12,329	12,694	12,287	12,551	12,402	1.2
Sulfur	1.06	0.93	0.97	0.96	0.98	-2.3
Ash	11.50	9.64	11.61	9.96	10.73	-7.1
<b>Maryland</b>						
Btu	11,133	11,067	10,996	11,132	10,930	1.9
Sulfur	1.69	1.82	1.84	1.79	1.85	-3.3
Ash	23.71	23.15	22.79	23.15	23.23	-0.3
<b>North Carolina</b>						
Btu	13,633	13,570	13,550	13,540	13,658	-0.9
Sulfur	0.97	0.88	0.96	0.93	0.96	-3.1
Ash	7.05	7.68	7.07	7.50	6.96	7.6
<b>South Carolina</b>						
Btu	13,042	12,983	13,764	13,314	13,509	-1.4
Sulfur	1.49	2.28	2.02	1.61	1.28	25.6
Ash	10.55	9.36	9.55	8.36	9.91	-15.6
<b>Virginia</b>						
Btu	14,133	14,165	14,198	14,143	14,167	-0.2
Sulfur	0.84	0.87	0.82	0.85	0.87	-2.2
Ash	7.11	7.44	7.07	7.31	7.10	3.1
<b>West Virginia</b>						
Btu	14,001	14,073	14,089	14,057	14,126	-0.5
Sulfur	1.32	1.34	1.31	1.27	1.26	1.1
Ash	6.71	7.03	7.00	6.86	6.99	-1.9
<b>East South Central</b>						
Btu	13,388	13,394	13,588	13,408	13,530	-0.9
Sulfur	1.20	1.25	1.22	1.20	1.20	0.3
Ash	7.46	7.48	7.28	7.39	7.24	2.0
<b>Alabama</b>						
Btu	13,838	13,802	13,861	13,833	13,889	-0.4

Census division and state¹	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Sulfur	0.99	1.09	1.05	1.05	1.06	-1.0
Ash	6.87	7.02	7.17	6.94	7.17	-3.3
<b>Kentucky</b>						
Btu	12,779	12,933	13,499	12,909	13,196	-2.2
Sulfur	1.02	1.16	1.10	1.06	1.02	4.7
Ash	8.66	8.12	8.36	7.94	7.57	4.9
<b>Tennessee</b>						
Btu	12,989	13,040	13,277	13,022	13,221	-1.5
Sulfur	1.63	1.53	1.48	1.51	1.49	1.4
Ash	7.79	7.82	6.92	7.77	7.15	8.7
<b>West South Central</b>						
Btu	10,146	9,941	9,610	9,874	9,597	2.9
Sulfur	0.67	0.59	0.54	0.62	0.57	8.6
Ash	8.58	8.51	8.36	8.37	8.05	3.9
<b>Arkansas</b>						
Btu	11,773	11,287	11,791	11,592	11,946	-3.0
Sulfur	1.29	0.89	1.33	1.20	1.26	-5.0
Ash	10.33	10.99	11.65	10.58	10.26	3.1
<b>Louisiana</b>						
Btu	8,117	8,198	7,940	8,055	7,739	4.1
Sulfur	0.70	0.83	0.60	0.73	0.68	7.4
Ash	6.46	6.11	6.46	6.40	6.79	-5.7
<b>Oklahoma</b>						
Btu	10,750	9,857	9,059	9,836	9,241	6.4
Sulfur	0.46	0.33	0.25	0.33	0.28	19.8
Ash	6.19	5.49	4.82	5.39	4.69	14.9
<b>Texas</b>						
Btu	10,270	10,415	10,025	10,142	9,824	3.2
Sulfur	0.56	0.56	0.53	0.55	0.52	4.4
Ash	9.87	10.69	10.26	10.39	10.28	1.0
<b>Mountain</b>						
Btu	10,522	10,662	10,602	10,536	10,400	1.3
Sulfur	0.61	0.59	0.53	0.61	0.51	19.7
Ash	7.20	6.99	7.28	7.12	7.24	-1.6
<b>Arizona</b>						
Btu	11,720	11,802	11,598	11,680	11,614	0.6
Sulfur	0.70	0.69	0.63	0.68	0.61	12.8
Ash	11.50	11.11	11.51	11.30	11.28	0.2
<b>Colorado</b>						
Btu	11,144	10,388	11,358	10,755	10,911	-1.4
Sulfur	0.47	0.46	0.57	0.46	0.49	-5.8
Ash	8.14	7.28	8.86	8.10	8.10	-0.1
<b>Idaho</b>						
Btu	11,630	11,497	11,633	11,507	11,354	1.3
Sulfur	0.48	0.44	0.55	0.48	0.52	-7.6
Ash	9.90	10.02	10.57	10.02	11.07	-9.5
<b>Montana</b>						
Btu	9,174	10,073	9,510	9,399	9,204	2.1
Sulfur	0.40	0.42	0.37	0.39	0.38	3.2
Ash	5.22	5.53	5.42	5.70	5.42	5.2
<b>Nevada</b>						
Btu	11,475	11,589	11,298	11,597	11,134	4.2
Sulfur	0.40	0.41	0.49	0.43	0.49	-12.4
Ash	9.55	8.43	9.07	9.07	8.72	3.9
<b>New Mexico</b>						
Btu	12,253	12,201	12,348	12,221	12,254	-0.3
Sulfur	0.64	0.77	0.68	0.72	0.69	4.2
Ash	10.43	10.87	10.38	10.70	10.26	4.3
<b>Utah</b>						
Btu	11,581	11,641	11,504	11,545	11,471	0.6
Sulfur	0.45	0.44	0.47	0.47	0.55	-14.3

Census division and state <sup>1</sup>	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Ash	10.22	10.40	11.07	10.50	11.38	-7.7
<b>Wyoming</b>						
Btu	9,828	9,927	9,877	9,880	9,751	1.3
Sulfur	0.70	0.70	0.57	0.71	0.50	41.5
Ash	5.11	4.67	4.55	4.93	4.98	-0.9
<b>Pacific</b>						
Btu	11,568	11,548	11,410	11,531	11,382	1.3
Sulfur	0.41	0.44	0.60	0.46	0.57	-20.4
Ash	10.28	9.99	11.49	10.28	11.26	-8.7
<b>California</b>						
Btu	11,638	11,673	11,489	11,619	11,496	1.1
Sulfur	0.41	0.44	0.61	0.46	0.59	-21.5
Ash	10.48	10.39	11.80	10.58	11.66	-9.3
<b>Oregon</b>						
Btu	11,837	11,830	11,362	11,759	11,362	3.5
Sulfur	0.36	0.43	0.53	0.47	0.53	-12.1
Ash	9.30	9.60	10.59	9.66	10.59	-8.8
<b>Washington</b>						
Btu	9,275	9,463	9,483	9,427	9,404	0.2
Sulfur	0.34	0.35	0.35	0.34	0.33	3.0
Ash	4.53	4.03	4.44	4.08	4.37	-6.6
<b>U.S. Total</b>						
Btu	11,925	11,922	11,825	11,852	11,775	0.7
Sulfur	1.00	1.03	1.29	1.00	1.11	-9.3
Ash	7.46	7.44	7.45	7.44	7.50	-0.9

<sup>1</sup> Quality units are Btu (per pound); sulfur (percent by weight); and ash (percent by weight).

- = No data reported.

s = Absolute percentage less than 0.05.

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Industrial, Commercial & Institutional Coal Users.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'