

National Mining Association

Weekly Statistical Summary

December 21, 2018 Edition
(Data for Week Ending December 15, 2018)

Prepared by
National Mining Association



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NMA Weekly Statistical Summary

Vol. 56, No. 50
Dated 12/21/18

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	12/15/18	12/16/17	% Chng	12/15/18	12/16/17	% Chng
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	15,479	15,334	0.9%	724,283	744,843	-2.8%
52 Weeks Ended	752,056	788,333	-4.6%			
AAR Coal Rail Cars Loaded:	91,218	87,843	3.8%	4,234,415	4,257,163	-0.5%
Coal Production Month Ended - Nov.	Nov 18/17		% Chng	Jan - Nov 18/17		% Chng
	62,264	64,345	-3.2%	691,842	711,390	-2.7%
DOC Coal Trade (000 Tons)						
Exports:	Oct 18/17		% Chng	Jan - Oct 18/17		% Chng
Metallurgical	5,836	4,661	25.2%	52,176	45,127	15.6%
Steam *	4,816	4,490	7.3%	45,444	32,518	39.8%
Lignite	6	6	0.0%	71	65	9.2%
Anthracite	28	6	366.7%	195	242	-19.4%
Total	10,686	9,163	16.6%	97,886	77,952	25.6%
Imports:	304	582	-47.8%	4,656	7,002	-33.5%
	Week Ended			Cumulative Week 1 to		
	12/15/18	12/16/17	% Chng	12/15/18	12/16/17	% Chng
EI Electric Total Output (Mil. Kwh)	79,940	81,207	-1.6%	3,964,360	3,831,547	3.5%
EI Coal Region Output (Mil. Kwh)	68,943	69,564	-0.9%	3,430,625	3,290,684	4.3%
AISI Raw Steel Output (000 Tons)	1,890	1,676	12.8%	91,294	86,131	6.0%

EIA (SNL ENERGY) AVERAGE COAL & NATURAL GAS SPOT PRICES Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	12/14/18	12/07/18	% Chng	Wed.	12/12/18
Central App, 12,500 Btu, 1.2 SO ₂	\$81.40	\$81.40	0.0%	Henry Hub	4.20
Northern App, 13,000 Btu, < 3.0 SO ₂	63.75	63.75	0.0%	New York	4.39
Illinois Basin, 11,800, 5.0 SO ₂	38.95	38.95	0.0%	Chicago	3.99
Powder River Basin, 8,800 Btu 0.8 SO ₂	11.95	11.95	0.0%	Cal.Comp.Avg.	4.29
Uinta Basin, 11,700 Btu, 0.8 SO ₂	40.40	40.40	0.0%		

Coal exports and Imports are "as reported" (not revised); *Steam excludes lignite & anthracite. All data in this report are preliminary and subject to revision. r/ revised.

Sources: EIA; Edison Electric Institute; American Iron & Steel Institute; Association of American Railroads; Dept. of Commerce; SNL Energy; NGI's Daily Gas Price Index



EIA Estimated Weekly U.S. Coal Production Overview									
	Week Ended			Year to Date			52 Weeks Ended		
Coal-Producing Region & State (thousand short tons)	12/15/2018 (week 50)	12/8/2018 (week 49)	12/16/2017 (week 50)	12/15/2018	12/15/2017	% Change	12/15/2018	12/16/2017	% Change
Alabama	305	273	246	13,956	12,384	12.7	14,401	12,957	11.1
Alaska	21	20	21	898	919	-2.3	936	965	-3.0
Arizona	148	139	142	6,309	5,945	6.1	6,566	6,252	5.0
Arkansas	.	.	.	17	43	-60.0	17	45	-62.2
Colorado	267	253	296	13,277	14,472	-8.3	13,813	15,346	-10.0
Illinois	978	920	906	46,969	46,545	0.9	48,610	48,964	-0.7
Indiana	662	681	606	32,454	30,295	7.1	33,552	31,894	5.2
Kentucky Total	762	763	789	37,907	40,276	-5.9	39,336	42,707	-7.9
Eastern (KY)	364	357	369	17,259	17,486	-1.3	17,927	18,456	-2.9
Western (KY)	397	406	420	20,648	22,790	-9.4	21,409	24,251	-11.7
Louisiana	25	19	39	1,173	2,003	-41.5	1,243	2,176	-42.9
Maryland	27	26	32	1,324	1,746	-24.2	1,382	1,853	-25.4
Mississippi	42	43	46	2,335	2,514	-7.1	2,419	2,677	-9.6
Missouri	5	5	5	247	235	5.1	256	248	3.2
Montana	862	837	770	37,833	33,737	12.1	39,228	35,795	9.6
New Mexico	158	169	219	8,182	13,419	-39.0	8,578	14,217	-39.7
North Dakota	627	609	594	28,547	27,635	3.3	29,622	29,266	1.2
Ohio	186	185	193	8,421	9,114	-7.6	8,771	9,650	-9.1
Oklahoma	13	12	12	655	539	21.5	676	574	17.8
Pennsylvania Total	966	957	963	47,589	47,262	0.7	49,333	50,063	-1.5
Anthracite (PA)	36	36	39	1,722	1,838	-6.3	1,792	1,931	-7.2
Bituminous (PA)	930	921	924	45,867	45,425	1.0	47,541	48,131	-1.2
Tennessee	5	4	6	220	420	-47.6	230	450	-48.9
Texas	654	559	781	27,627	34,866	-20.8	29,041	37,066	-21.7
Utah	320	305	326	13,721	13,692	0.2	14,312	14,500	-1.3
Virginia	246	249	253	12,303	13,210	-6.9	12,762	13,956	-8.6
West Virginia Total	2,034	1,951	1,919	93,646	89,095	5.1	97,123	93,740	3.6
Northern (WV)	949	910	978	43,565	44,855	-2.9	45,337	47,379	-4.3
Southern (WV)	1,084	1,042	941	50,081	44,241	13.2	51,786	46,362	11.7
Wyoming	6,168	6,040	6,171	288,673	304,474	-5.2	299,851	322,973	-7.2
Appalachian Total	4,132	4,003	3,980	194,719	190,719	2.1	201,929	201,125	0.4
Interior Total	2,776	2,645	2,815	132,125	139,830	-5.5	137,223	147,894	-7.2
Western Total	8,570	8,373	8,539	397,439	414,294	-4.1	412,905	439,314	-6.0
East of Mississippi River	6,211	6,053	5,959	297,126	292,863	1.5	307,919	308,910	-0.3
West of Mississippi River	9,268	8,969	9,375	427,157	451,980	-5.5	444,138	479,422	-7.4
Bituminous and Lignite	15,443	14,985	15,296	722,561	743,005	-2.8	750,264	786,401	-4.6
Anthracite	36	36	39	1,722	1,838	-6.3	1,792	1,931	-7.2
U.S. Total	15,479	15,022	15,334	724,283	744,843	-2.8	752,056	788,333	-4.6
Railroad Cars Loaded	91,218	88,543	87,843	4,234,415	4,257,163	-0.5	4,395,383	4,509,262	-2.5

Source: Energy Information Administration



Weekly Electric Output

Volume 86 No. 50

OUTPUT FOR WEEK ENDED - Dec 15, 2018

Dec 19, 2018

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, Dec 15, 2018 was **79,940** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **179** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended December 15		52 Weeks Ended December 15	
	GWh Output	% Increase Over Corresponding Week of 2017	GWh Output	% Increase Over Corresponding Period of 2017
New England	2,469	-3.8	122,764	2.1
Mid-Atlantic	8,674	-4.0	441,535	4.1
Central Industrial	13,315	-3.4	686,399	4.4
West Central	6,518	0.9	338,702	4.1
Southeast	20,682	-2.8	1,053,903	4.1
South Central	14,151	5.2	764,239	5.5
Rocky Mountain	5,603	0.9	281,354	1.0
Pacific Northwest	3,545	-8.3	156,647	-1.9
Pacific Southwest	4,984	-4.3	277,213	-2.3
Total United States	79,940	-1.6	4,122,755	3.4

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2018	Week Ended	2017	% Inc. (18/17)	52 Weeks Ended	2018	% Inc. (18/17)
Nov 24	72,136	Nov 25	69,503	3.8	Nov 24	4,118,551	3.3
Dec 01	76,038	Dec 02	72,048	5.5	Dec 01	4,122,542	3.4
Dec 08	79,147	Dec 09	77,666	1.9	Dec 08	4,124,023	3.5
Dec 15	79,940	Dec 16	81,207	-1.6	Dec 15	4,122,755	3.4
Dec 15	3,964,360	Dec 16	3,831,547	3.5	YEAR TO DATE, FIRST 50 WEEKS		

WEEKLY ELECTRIC OUTPUT INDEX--TOTAL U.S.*

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2018	Week Ended	2017	Week Ended	2016
Nov 24	178	Nov 25	181	Nov 26	176
Dec 01	185	Dec 02	184	Dec 03	178
Dec 08	185	Dec 09	202	Dec 10	187
Dec 15	179	Dec 16	203	Dec 17	194

* Excludes Alaska and Hawaii.

+ Includes investor-owned companies, cooperatives and government-owned utilities.

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**EEl WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION
(48 CONTIGUOUS STATES)**

	Week Ended			NMA CUMULATIVE JANUARY WEEK ONE TO			52 Weeks Ended		
	15-Dec 2018 GWh Output	16-Dec 2017 GWh Output	% Increase Over Corresponding Week of 2017	15-Dec 2018 GWh Output	16-Dec 2017 GWh Output	% Increase Over Corresponding Week of 2017	15-Dec 2018 GWh Output	16-Dec 2017 GWh Output	% Increase Over Corresponding Week of 2017
New England	2,469	2,566	-3.8%	117,569	115,390	1.9%	122,764	120,288	2.1%
Mid-Atlantic	8,674	9,035	-4.0%	424,125	407,564	4.1%	441,535	424,303	4.1%
Central Industrial	13,315	13,781	-3.4%	659,599	631,474	4.5%	686,399	657,461	4.4%
West Central	6,518	6,461	0.9%	325,490	312,728	4.1%	338,702	325,476	4.1%
Southeast	20,682	21,282	-2.8%	1,013,933	973,077	4.2%	1,053,903	1,012,069	4.1%
South Central	14,151	13,450	5.2%	737,213	698,614	5.5%	764,239	724,341	5.5%
Rocky Mountain	5,603	5,555	0.9%	270,265	267,227	1.1%	281,354	278,566	1.0%
Pacific Northwest	3,545	3,866	-8.3%	149,056	151,951	-1.9%	156,647	159,654	-1.9%
Pacific Southwest	4,984	5,211	-4.4%	267,111	273,522	-2.3%	277,213	283,673	-2.3%
Total United States ^{1/}	<u>79,941</u>	<u>81,207</u>	-1.6%	<u>3,964,361</u>	<u>3,831,547</u>	3.5%	<u>4,122,756</u>	<u>3,985,831</u>	3.4%
Coal Regions Only ^{2/}	68,943	69,564	-0.9%	3,430,625	3,290,684	4.3%	3,566,132	3,422,216	4.2%

Notes: EEI output data are an estimate of electricity load made available for distribution derived as weekly net generation + purchases from non-utilities + net imports - exports - sales for resale. It is not meant to be a measure of electricity generation for the U.S. EEI survey data represent the majority of national distribution (large utilities, large government power projects, some independent and large municipal power projects). The remaining segment of the industry (smaller producers) is estimated. Non-utility generation is captured via direct sales to utilities.

^{1/} Excludes Alaska and Hawaii

^{2/} Excludes New England and Pacific regions

SOURCE: Edison Electric Institute (EEI), *Weekly Electric Output Report*.

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December 17, 2018

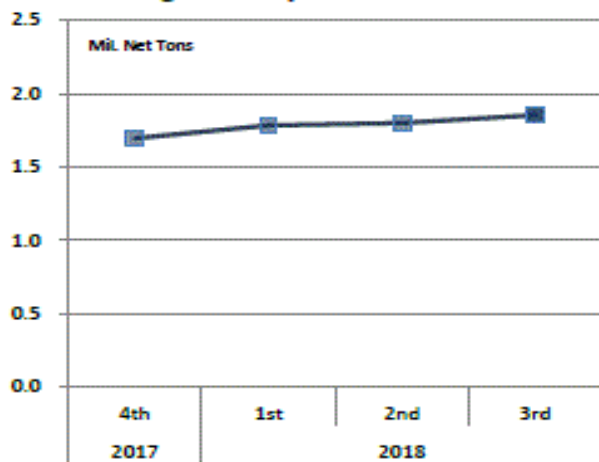
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<u>Period</u>	<u>Thousand Net Tons</u>	<u>Percent Change from Previous Period</u>	<u>Percent Capability Utilization**</u>	<u>Production by District</u>		
				<u>Week Ending</u>		
				<u>Dec. 15</u>	<u>Dec. 8</u>	
<u>Week Ending</u>				North East	216	224
				Great Lakes	726	694
December 15, 2018	1,890	0.7	80.6	Midwest	191	191
December 15, 2017	1,676	12.8	71.9	Southern	676	680
December 8, 2018	1,876	-0.8	80.0	Western	81	87
				Total	1,890	1,876
<u>Year-to-Date +</u>						
December 15, 2018	91,294	6.0	78.2			
December 15, 2017	86,131	-	74.0			

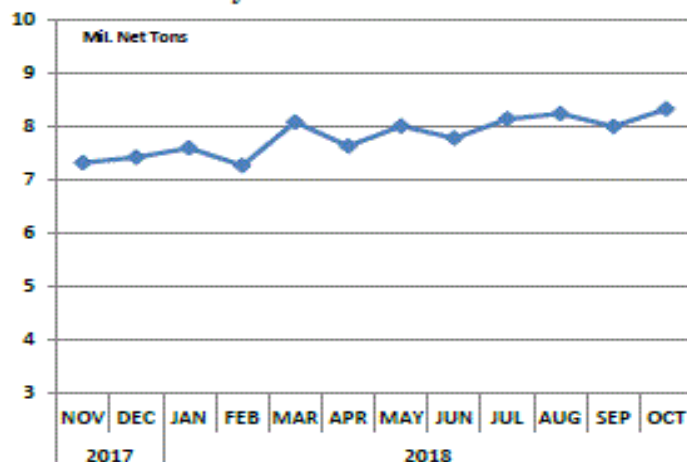
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides a more accurate summary of steel production based on data supplied by companies representing approximately 75% of U.S. production capacity plus includes revisions for previous months.

NOTE: Capacity for the fourth quarter 2018 is approximately 30.8 million net tons vs. 30.6 million net tons for the same period last year, and 30.8 million tons for the third quarter of 2018.

Average Weekly Raw Steel Production



Monthly Raw Steel Production



*Steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for castings and strand or pressure cast blooms, slabs or other product forms. ** Based on tonnage capability to produce raw steel for a sustained full order book.



Source: Kitco website - www.kitco.com/connecting.html



Source: Kitco website - www.kitco.com/connecting.html

U.S. Rail Traffic¹

Week 50, 2018 – Ended December 15, 2018

	This Week		Year-To-Date		
	Cars	vs 2017	Cumulative	Avg/wk ²	vs 2017
Total Carloads	267,534	1.4%	13,153,197	263,064	1.7%
Chemicals	31,937	-0.7%	1,607,632	32,153	3.7%
Coal	91,218	3.7%	4,243,038	84,861	-0.6%
Farm Products excl. Grain, and Food	15,995	2.6%	810,930	16,219	1.8%
Forest Products	10,158	-0.1%	513,686	10,274	2.4%
Grain	22,550	-4.4%	1,141,508	22,830	2.6%
Metallic Ores and Metals	23,929	3.5%	1,167,579	23,352	3.4%
Motor Vehicles and Parts	17,304	-1.9%	829,317	16,586	-1.1%
Nonmetallic Minerals	30,549	-6.4%	1,787,172	35,743	0.3%
Petroleum and Petroleum Products	13,551	27.2%	563,964	11,279	17.8%
Other	10,343	1.1%	488,371	9,767	1.6%
Total Intermodal Units	301,407	6.2%	13,981,365	279,627	5.5%
Total Traffic	568,941	3.9%	27,134,562	542,691	3.6%

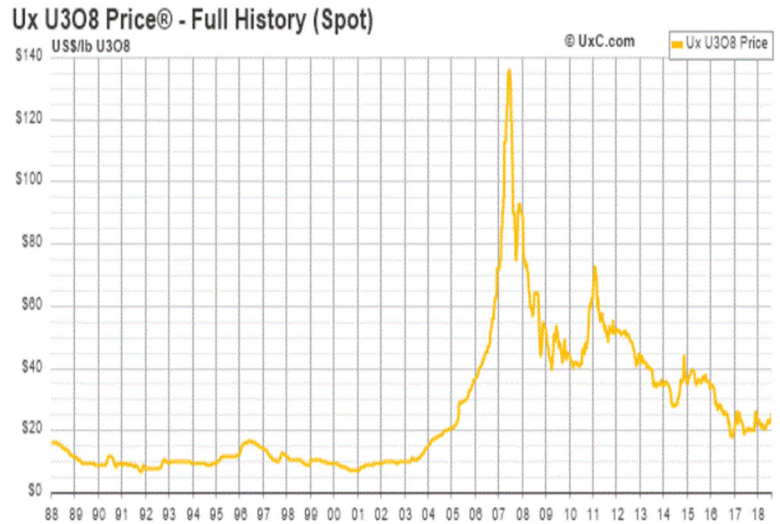
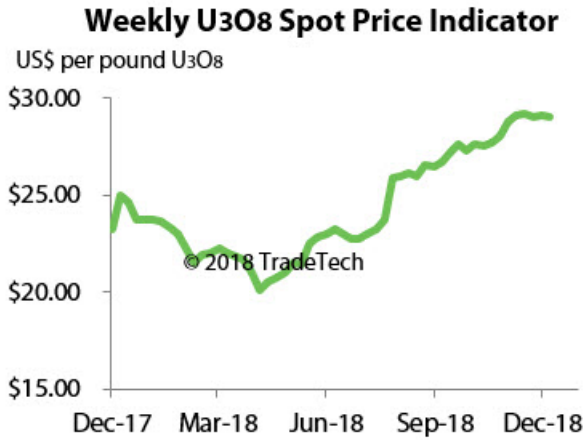
¹ Excludes U.S. operations of Canadian Pacific, CN and GMXT.

² Average per week figures may not sum to totals as a result of independent rounding.

Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

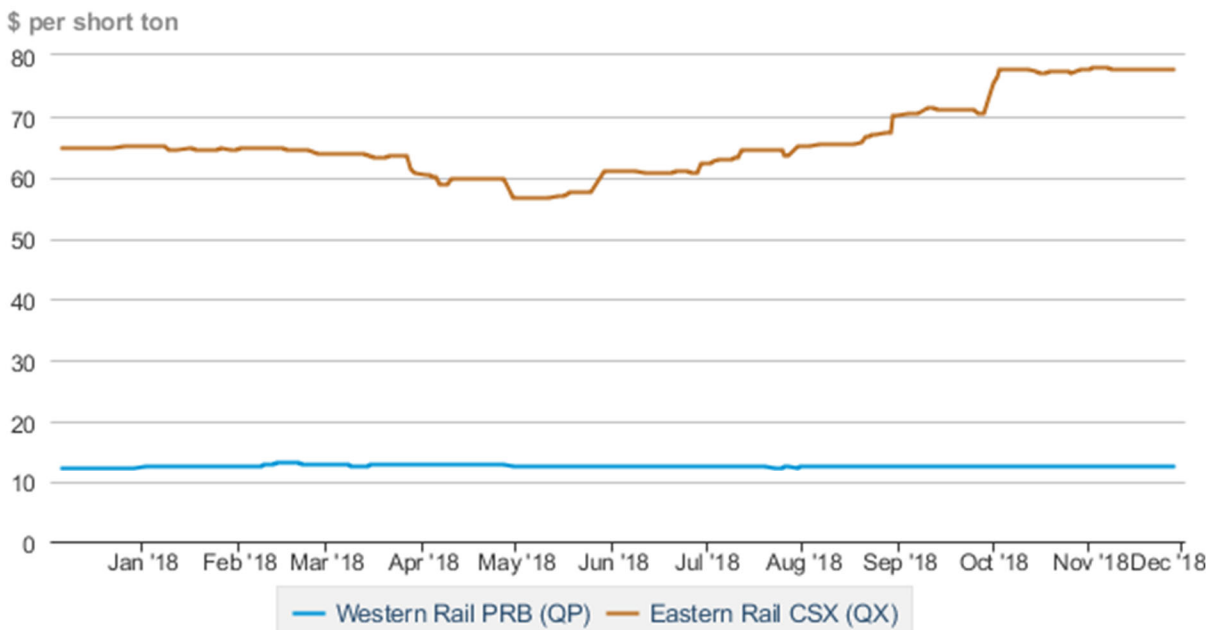
Trade Tech's and UX's Uranium Price Indicators

Ux U3O8 Price - Full History



Sources: Trade Tech, Uranium Info Website – www.uranium.info ; Ux Consulting Co., LLC – <http://www.uxc.com>

NYMEX coal futures near-month contract final settlement price



Source: The New York Mercantile Exchange (NYMEX), Daily Energy Bulletin.

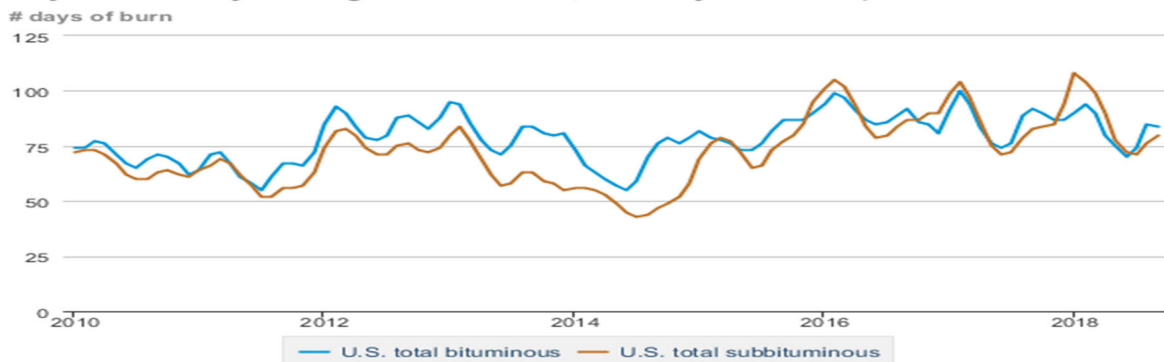
Source: Energy Information Administration, based on NYMEX and Daily Energy Bulletin data

Average weekly coal commodity spot prices dollars per short ton

	Week ending					Week ago
	11/16/18	11/23/18	11/30/18	12/07/18	12/14/18	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$78.95	\$78.95	\$78.95	\$81.40	\$81.40	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$61.85	\$61.85	\$61.85	\$63.75	\$63.75	\$0.00
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$38.95	\$38.95	\$38.95	\$38.95	\$38.95	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$12.00	\$12.00	\$12.00	\$11.95	\$11.95	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$40.55	\$40.55	\$40.55	\$40.40	\$40.40	\$0.00

Source: Energy Information Administration (with permission from SNL), *Coal Market Report*

Days of burn by non-lignite coal rank, January 2009 - September 2018



Source: U.S. Energy Information Administration

Source: Energy Information Administration, *Electricity Monthly Update Report*

Temperature – heating & cooling degree days (week ending Dec 06)

Region	HDD Current	HDD deviation from:		CDD Current	CDD deviation from:	
		normal	last year		normal	last year
New England	208	1	29	0	0	0
Middle Atlantic	198	2	31	0	0	0
E N Central	211	-14	41	0	0	0
W N Central	245	-6	64	0	0	0
South Atlantic	129	-7	31	12	3	-2
E S Central	125	-16	28	1	0	1
W S Central	92	-12	36	7	4	-3
Mountain	227	16	57	0	0	-2
Pacific	124	13	30	0	-1	0
United States	174	-3	38	3	1	-1

Note: HDD = heating degree day; CDD = cooling degree day

Source: National Oceanic and Atmospheric Administration

Source: Energy Information Administration, *Natural Gas Weekly Update*.

USGS Production of Selected Mineral Commodities	2018 Year to Date - 2nd Quarter	2017 Year to Date - 2nd Quarter	Percent Change
Aluminum, secondary (000 Mt.)	417.0	419.0	0%
Cement (Mil. Mt.)	40.4	39.6	2%
Copper (000 Mt.)	599.0	649.0	-8%
Gold (Mt.)	104.0	119.0	-13%
Gypsum (Mil. Mt.)	8.4	8.2	2%
Iron Ore (Mil. Mt.)	24.0	22.3	8%
Lead (000 Mt.)	130.0	158.0	-18%
Molybdenum (000 Mt.)	20.7	19.3	7%
Phosphate rock (Mil. Mt.)	13.5	13.7	-1%
Sand & gravel, construction (Mil. Mt.)	435.0	401.0	8%
Silver (Mt.)	442.0	536.0	-18%
Soda ash (Mil. Mt.)	5.8	5.8	0%
Stone, crushed (Mil. Mt.)	650.0	624.0	4%
Zinc (000 Mt.)	383.0	336.0	14%

Source: U.S. Geological Survey, Mineral Industry Surveys. Percent change based on USGS rounded numbers. 2018 data are preliminary estimates.

Natural gas spot prices (Henry Hub)



Source: Energy Information Administration, *Natural Gas Weekly*.

EIA Coal Stocks and Average Number of Days of Burn (Power Sector)

Coal stocks and average number of days of burn for non-lignite coal by region (electric power sector)

Zone	Coal	September 2018		September 2017		% Change of Stocks	August 2018		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	2,831	84	4,439	94	-36.2%	2,706	84	4.6%
	Subbituminous	163	139	126	111	29.4%	168	168	-3.3%
South	Bituminous	18,000	86	27,439	96	-34.4%	18,970	83	-5.1%
	Subbituminous	4,669	59	5,200	64	-10.2%	4,739	54	-1.5%
Midwest	Bituminous	8,876	78	12,989	85	-31.7%	9,657	82	-8.1%
	Subbituminous	26,385	88	37,070	85	-28.8%	27,153	86	-2.8%
West	Bituminous	4,301	92	5,356	90	-19.7%	4,794	100	-10.3%
	Subbituminous	20,223	77	25,666	87	-21.2%	20,735	70	-2.5%
U.S. Total	Bituminous	34,008	84	50,223	92	-32.3%	36,127	85	-5.9%
	Subbituminous	51,440	80	68,062	83	-24.4%	52,796	76	-2.6%

Source: Energy Information Administration, *Electricity Monthly Update*

EIA Working Natural Gas Underground Storage

Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2018-12-07	2018-11-30	change
East	732	752	-20
Midwest	885	914	-29
Mountain	160	168	-8
Pacific	238	253	-15
South Central	898	905	-7
Total	2,914	2,991	-77

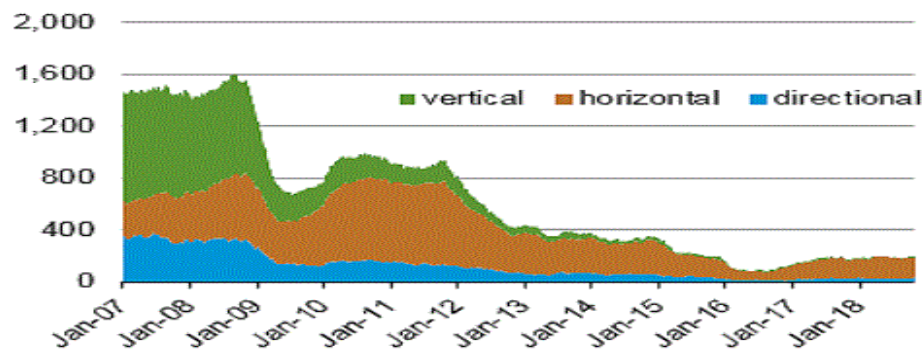
Source: Form EIA-912, "Weekly Underground Natural Gas Storage Report"

Source: Energy Information Administration, *Natural Gas Weekly Update*.

EIA Natural Gas Rig Count

Weekly natural gas rig count

active rigs



Source: Baker Hughes Inc.

Source: Energy Information Administration, *Natural Gas Weekly Update*

EIA Oil and Natural Gas Rig Productivity

Region	New-well oil production per rig barrels/day			New-well gas production per rig thousand cubic feet/day		
	December 2018	January 2019	change	December 2018	January 2019	change
Anadarko	413	416	3	2,919	2,942	23
Appalachia	147	147	-	17,244	17,446	202
Bakken	1,589	1,611	22	2,048	2,095	47
Eagle Ford	1,417	1,428	11	5,940	6,038	98
Haynesville	26	27	1	9,012	9,152	140
Niobrara	1,227	1,237	10	4,368	4,390	22
Permian	616	631	15	1,236	1,236	-
Rig-weighted average	679	691	12	3,850	3,881	31

Source: Energy Information Administration, *Drilling Productivity Report*