

National Mining Association

Weekly Statistical Summary

December 7, 2018 Edition
(Data for Week Ending December 1, 2018)

Prepared by
National Mining Association



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NMA Weekly Statistical Summary

Vol. 56, No. 48
Dated 12/07/18

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	12/01/18	12/02/17	% Chng	12/01/18	12/02/17	% Chng
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	14,927	15,841	-5.8%	693,782	713,766	-2.8%
52 Weeks Ended	752,567	787,957	-4.5%			
AAR Coal Rail Cars Loaded:	88,009	90,747	1.0%	4,054,654	4,079,138	-0.6%
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		
	12/01/18	12/02/17	% Chng	12/01/18	12/02/17	% Chng
EI Electric Total Output (Mil. Kwh)	76,038	72,048	5.5%	3,805,273	3,672,674	3.6%
EI Coal Region Output (Mil. Kwh)	65,673	61,385	7.0%	3,293,639	3,154,632	4.4%
AISI Raw Steel Output (000 Tons)	1,892	1,703	11.1%	87,528	82,780	5.7%

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)	
	11/30/18	11/23/18	% Chng	Wed.	11/28/18
Central App, 12,500 Btu, 1.2 SO ₂	\$78.95	\$78.95	0.0%	Henry Hub	4.44
Northern App, 13,000 Btu, < 3.0 SO ₂	61.85	61.85	0.0%	New York	4.53
Illinois Basin, 11,800, 5.0 SO ₂	38.95	38.95	0.0%	Chicago	4.41
Powder River Basin, 8,800 Btu 0.8 SO ₂	12.00	12.00	0.0%	Cal.Comp.Avg.	6.09
Uinta Basin, 11,700 Btu, 0.8 SO ₂	40.55	40.55	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

Coal-Producing Region & State (thousand short tons)	Week Ended			Year to Date			52 Weeks Ended		
	12/1/2018 (week 48)	11/24/2018 (week 47)	12/2/2017 (week 48)	12/1/2018	12/1/2017	% Change	12/1/2018	12/2/2017	% Change
Alabama	274	274	254	13,378	11,886	12.6	14,320	12,859	11.4
Alaska	20	19	22	857	876	-2.2	937	956	-2.0
Arizona	139	133	147	6,022	5,657	6.4	6,566	6,178	6.3
Arkansas	.	.	.	17	43	-60.0	17	47	-63.8
Colorado	253	240	306	12,757	13,872	-8.0	13,892	15,364	-9.6
Illinois	917	880	936	45,071	44,708	0.8	48,544	48,831	-0.6
Indiana	650	595	626	31,111	29,066	7.0	33,435	31,790	5.2
Kentucky Total	741	685	815	36,382	38,678	-5.9	39,406	42,831	-8.0
Eastern (KY)	350	328	381	16,537	16,739	-1.2	17,950	18,392	-2.4
Western (KY)	391	357	434	19,845	21,938	-9.5	21,455	24,439	-12.2
Louisiana	21	22	40	1,128	1,925	-41.4	1,277	2,222	-42.5
Maryland	26	24	33	1,272	1,682	-24.4	1,394	1,864	-25.2
Mississippi	40	38	48	2,251	2,421	-7.0	2,427	2,699	-10.1
Missouri	5	5	5	237	225	5.0	255	248	2.8
Montana	839	776	796	36,133	32,176	12.3	39,085	35,683	9.5
New Mexico	166	142	226	7,855	12,976	-39.5	8,693	14,342	-39.4
North Dakota	602	564	613	27,310	26,432	3.3	29,586	29,212	1.3
Ohio	180	167	199	8,050	8,723	-7.7	8,790	9,637	-8.8
Oklahoma	12	12	12	630	516	22.1	674	575	17.2
Pennsylvania Total	936	869	995	45,667	45,311	0.8	49,358	50,091	-1.5
Anthracite (PA)	35	32	40	1,650	1,760	-6.2	1,798	1,919	-6.3
Bituminous (PA)	901	836	955	44,016	43,551	1.1	47,560	48,172	-1.3
Tennessee	4	4	6	211	409	-48.3	233	461	-49.5
Texas	611	589	807	26,414	33,283	-20.6	29,408	37,035	-20.6
Utah	302	288	337	13,096	13,031	0.5	14,347	14,405	-0.4
Virginia	241	222	262	11,808	12,696	-7.0	12,780	13,969	-8.5
West Virginia Total	1,931	1,829	1,983	89,661	85,205	5.2	97,019	93,104	4.2
Northern (WV)	902	854	1,011	41,706	42,872	-2.7	45,457	47,170	-3.6
Southern (WV)	1,029	975	972	47,955	42,334	13.3	51,562	45,934	12.3
Wyoming	6,016	5,548	6,376	276,465	291,967	-5.3	300,124	323,556	-7.2
Appalachian Total	3,943	3,717	4,112	186,584	182,652	2.2	201,843	200,376	0.7
Interior Total	2,647	2,497	2,908	126,703	134,126	-5.5	137,493	147,885	-7.0
Western Total	8,336	7,709	8,821	380,495	396,988	-4.2	413,231	439,696	-6.0
East of Mississippi River	5,941	5,587	6,156	284,861	280,786	1.5	307,705	308,135	-0.1
West of Mississippi River	8,986	8,336	9,685	408,921	432,980	-5.6	444,862	479,822	-7.3
Bituminous and Lignite	14,892	13,891	15,801	692,132	712,006	-2.8	750,769	786,038	-4.5
Anthracite	35	32	40	1,650	1,760	-6.2	1,798	1,919	-6.3
U.S. Total	14,927	13,924	15,841	693,782	713,766	-2.8	752,567	787,957	-4.5
Railroad Cars Loaded	88,009	82,121	90,747	4,054,654	4,079,138	-0.6	4,393,273	4,509,293	-2.6

Source: Energy Information Administration



Weekly Electric Output

Volume 86 No. 48

OUTPUT FOR WEEK ENDED - Dec 01, 2018

Dec 05, 2018

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Dec 01, 2018** was **76,038** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **185** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended December 01		52 Weeks Ended December 01	
	GWh Output	% Increase Over Corresponding Week of 2017	GWh Output	% Increase Over Corresponding Period of 2017
New England	2,300	0.6	122,836	2.0
Mid-Atlantic	8,315	5.9	441,586	4.1
Central Industrial	13,365	6.5	686,597	4.3
West Central	6,429	9.7	338,314	3.7
Southeast	19,557	7.7	1,054,012	4.1
South Central	12,917	6.5	763,595	5.6
Rocky Mountain	5,090	5.3	281,096	0.8
Pacific Northwest	3,193	-2.7	156,900	-2.1
Pacific Southwest	4,872	-4.4	277,606	-2.1
Total United States	76,038	5.5	4,122,542	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 10	71,553	Nov 11	72,411	-1.2	Nov 10	4,111,423	3.2
Nov 17	77,175	Nov 18	72,678	6.2	Nov 17	4,115,919	3.2
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 01	3,805,273	Dec 02	3,672,674	3.6	YEAR TO DATE, FIRST 48 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2018	Week Ended	2017	Week Ended	2016
Nov 10	180	Nov 11	193	Nov 12	179
Nov 17	191	Nov 18	190	Nov 19	180
Nov 24	178	Nov 25	181	Nov 26	176
Dec 01	185	Dec 02	184	Dec 03	178

* 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		
	1-Dec 2018 GWh Output	2-Dec 2017 GWh Output	% Increase Over Corresponding Week of 2017	1-Dec 2018 GWh Output	2-Dec 2017 GWh Output	% Increase Over Corresponding Week of 2017	1-Dec 2018 GWh Output	2-Dec 2017 GWh Output	% Increase Over Corresponding Week of 2017
New England	2,300	2,287	0.6%	112,727	110,476	2.0%	122,836	120,424	2.0%
Mid-Atlantic	8,315	7,852	5.9%	406,949	390,338	4.3%	441,586	424,366	4.1%
Central Industrial	13,365	12,550	6.5%	632,726	604,402	4.7%	686,597	658,563	4.3%
West Central	6,429	5,858	9.7%	312,189	299,816	4.1%	338,314	326,236	3.7%
Southeast	19,557	18,159	7.7%	973,527	932,562	4.4%	1,054,012	1,012,203	4.1%
South Central	12,917	12,134	6.5%	709,282	671,328	5.7%	763,595	723,052	5.6%
Rocky Mountain	5,090	4,832	5.3%	258,966	256,186	1.1%	281,096	278,990	0.8%
Pacific Northwest	3,193	3,281	-2.7%	141,786	144,428	-1.8%	156,900	160,204	-2.1%
Pacific Southwest	<u>4,872</u>	<u>5,095</u>	-4.4%	<u>257,121</u>	<u>263,138</u>	<u>-2.3%</u>	<u>277,606</u>	<u>283,587</u>	-2.1%
Total United States ^{1/}	<u>76,038</u>	<u>72,048</u>	5.5%	<u>3,805,273</u>	<u>3,672,674</u>	<u>3.6%</u>	<u>4,122,542</u>	<u>3,987,625</u>	3.4%
Coal Regions Only ^{2/}	65,673	61,385	7.0%	3,293,639	3,154,632	4.4%	3,565,200	3,423,410	4.1%

Notes: EEl 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. EEl 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 (EEl), *Weekly Electric Output Report*.

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December 3, 2018

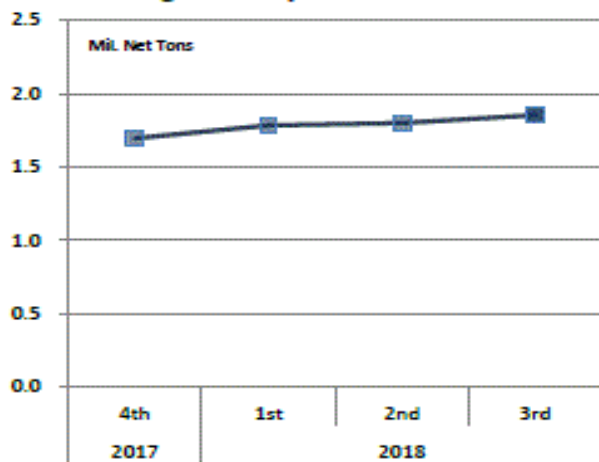
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<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 Dec. 1</u>	<u>Nov. 24</u>	
<u>Week Ending</u>				North East	225	222
				Great Lakes	713	712
December 1, 2018	1,892	-0.7	80.7	Midwest	195	207
December 1, 2017	1,703	11.1	73.0	Southern	676	683
November 24, 2018	1,906	-0.9	81.3	Western	83	82
				Total	1,892	1,906
<u>Year-to-Date +</u>						
December 1, 2018	87,528	5.7	78.1			
December 1, 2017	82,780	-	74.2			

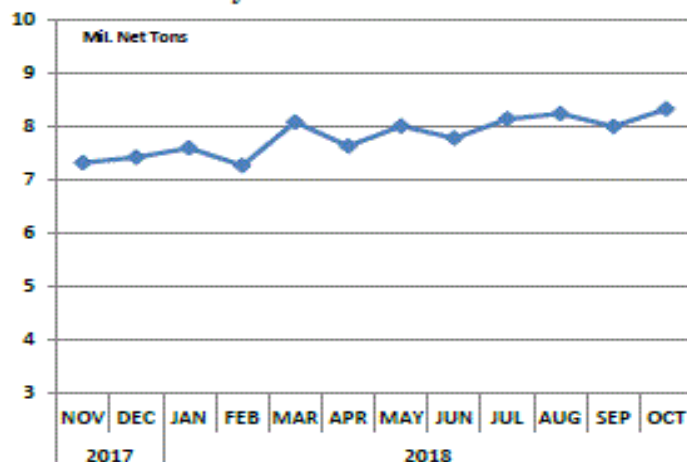
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides 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 48, 2018 – Ended December 1, 2018

	This Week		Year-To-Date		
	Cars	vs 2017	Cumulative	Avg/wk ²	vs 2017
Total Carloads	273,752	-1.7%	12,618,663	262,889	1.7%
Chemicals	35,002	1.0%	1,542,940	32,145	3.9%
Coal	88,009	-3.0%	4,063,277	84,652	-0.7%
Farm Products excl. Grain, and Food	16,636	-4.8%	778,554	16,220	1.9%
Forest Products	11,175	5.2%	493,576	10,283	2.5%
Grain	22,424	-12.8%	1,095,876	22,831	2.8%
Metallic Ores and Metals	25,204	12.7%	1,121,133	23,357	3.4%
Motor Vehicles and Parts	17,170	-7.8%	794,162	16,545	-1.1%
Nonmetallic Minerals	34,369	-8.0%	1,724,814	35,934	0.5%
Petroleum and Petroleum Products	13,599	24.6%	537,127	11,190	17.4%
Other	10,164	2.5%	467,204	9,733	1.3%
Total Intermodal Units	293,530	2.4%	13,376,733	278,682	5.5%
Total Traffic	567,282	0.4%	25,995,396	541,571	3.6%

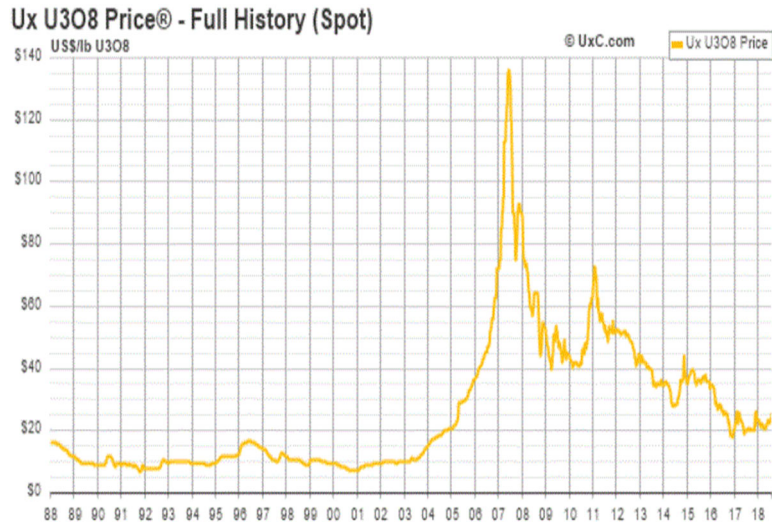
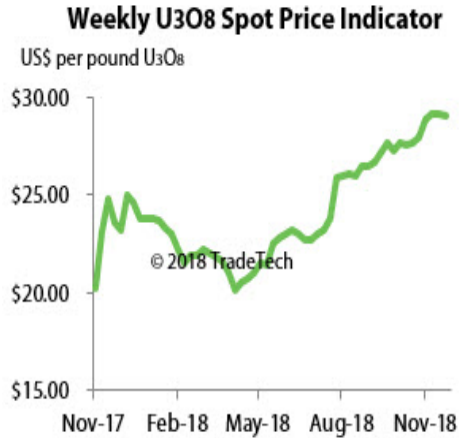
¹ Excludes U.S. operations of Canadian Pacific, CN and GMXT.

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>

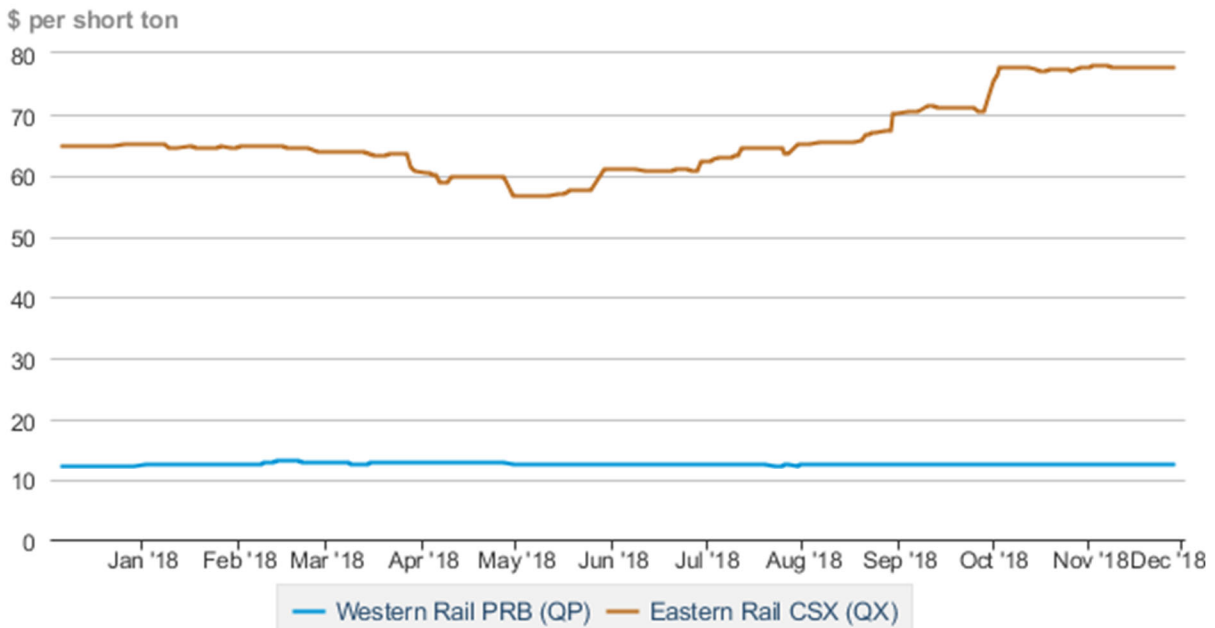
Trade Tech's and UX's Uranium Price Indicators

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.

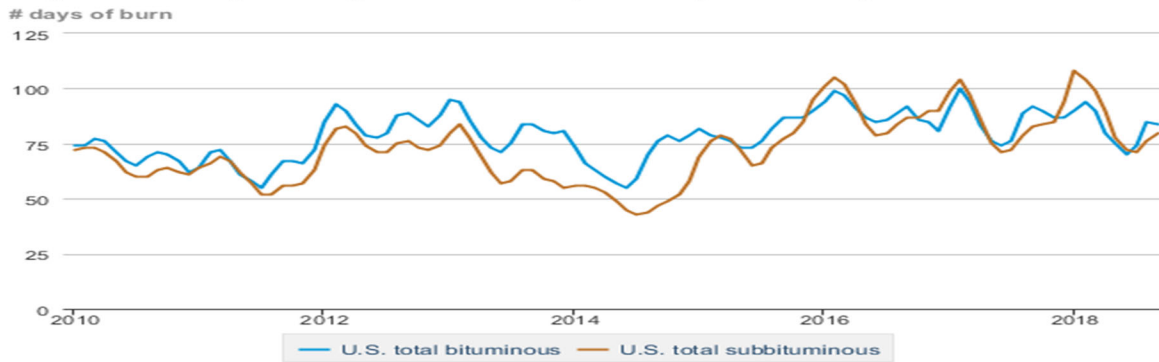
Source: Energy Information Administration, based on NYMEX and Daily Energy Bulletin data

Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	11/02/18	11/09/18	11/16/18	11/23/18	11/30/18	change
Central Appalachia <i>12,500 Btu, 1.2 SO₂</i>	\$78.95	\$78.95	\$78.95	\$78.95	\$78.95	\$0.00
Northern Appalachia <i>13,000 Btu, < 3.0 SO₂</i>	\$60.85	\$60.85	\$61.85	\$61.85	\$61.85	\$0.00
Illinois Basin <i>11,800 Btu, 5.0 SO₂</i>	\$37.70	\$37.70	\$38.95	\$38.95	\$38.95	\$0.00
Powder River Basin <i>8,800 Btu, 0.8 SO₂</i>	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$0.00
Uinta Basin <i>11,700 Btu, 0.8 SO₂</i>	\$40.55	\$40.55	\$40.55	\$40.55	\$40.55	\$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 Nov 22)

Region	HDD Current	HDD deviation from:		CDD Current	CDD deviation from:	
		normal	last year		normal	last year
New England	222	51	56	0	0	0
Middle Atlantic	209	46	47	0	0	0
E N Central	229	42	41	0	0	0
W N Central	239	30	42	0	0	0
South Atlantic	133	24	22	8	-4	-2
E S Central	140	26	21	0	-1	-1
W S Central	106	27	50	0	-6	-16
Mountain	176	-7	43	0	0	-3
Pacific	76	-17	24	0	-1	-2
United States	170	24	38	2	-1	-3

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: Natural Gas Intelligence

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

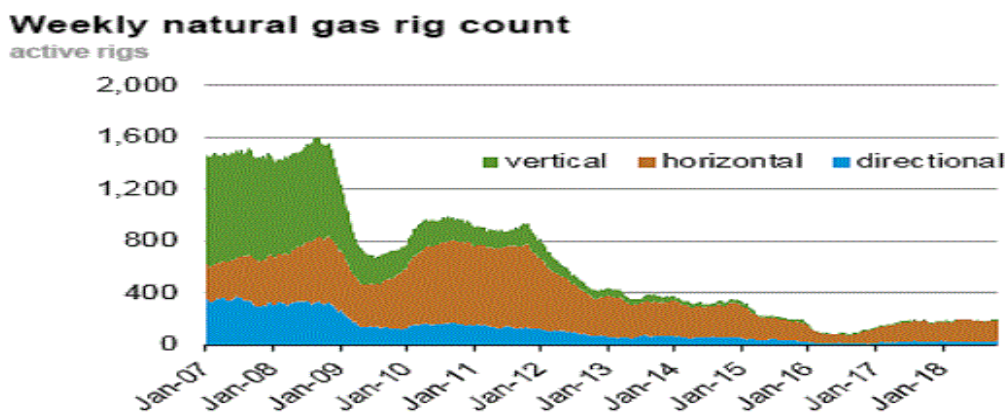
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2018-11-23	2018-11-16	change
East	778	803	-25
Midwest	938	959	-21
Mountain	171	174	-3
Pacific	254	258	-4
South Central	914	919	-5
Total	3,054	3,113	-59

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

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

EIA Natural Gas Rig Count



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		
	November 2018	December 2018	change	November 2018	December 2018	change
Anadarko	410	413	3	2,914	2,937	23
Appalachia	146	146	-	16,994	17,186	192
Bakken	1,557	1,575	18	1,991	2,035	44
Eagle Ford	1,433	1,453	20	5,914	6,026	112
Haynesville	27	27	-	8,613	8,650	37
Niobrara	1,204	1,208	4	4,381	4,386	5
Permian	595	613	18	1,235	1,235	-
Rig-weighted average	668	679	11	3,784	3,836	52

Source: Energy Information Administration, *Drilling Productivity Report*