

National Mining Association

Weekly Statistical Summary

December 28, 2018 Edition
(Data for Week Ending December 22, 2018)

Prepared by
National Mining Association



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NMA Weekly Statistical Summary

Vol. 56, No. 51
Dated 12/28/18

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	12/22/18	12/23/17	% Chng	12/22/18	12/23/17	% Chng
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	15,948	15,710	1.5%	740,231	760,504	-2.7%
52 Weeks Ended	752,295	789,005	-4.7%			
AAR Coal Rail Cars Loaded:	93,964	89,997	4.4%	4,328,379	4,346,883	-0.4%
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			Jan - Oct 18/17		
			% Chng			% 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		
	12/22/18	12/23/17	% Chng	12/22/18	12/23/17	% Chng
EI Electric Total Output (Mil. Kwh)	76,247	76,393	-0.2%	4,040,606	3,907,940	3.4%
EI Coal Region Output (Mil. Kwh)	65,554	64,845	1.1%	3,496,179	3,355,529	4.2%
AISI Raw Steel Output (000 Tons)	1,870	1,676	11.6%	93,164	87,807	6.1%

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)	
	12/21/18	12/14/18	% Chng	Wed.	12/19/18
Central App, 12,500 Btu, 1.2 SO ₂	\$81.40	\$81.40	0.0%	Henry Hub	3.56
Northern App, 13,000 Btu, < 3.0 SO ₂	63.75	63.75	0.0%	New York	3.63
Illinois Basin, 11,800, 5.0 SO ₂	38.95	38.95	0.0%	Chicago	3.31
Powder River Basin, 8,800 Btu 0.8 SO ₂	11.95	11.95	0.0%	Cal.Comp.Avg.	3.89
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)	12/22/2018 (week 51)	12/15/2018 (week 50)	12/23/2017 (week 51)	12/22/2018	12/22/2017	% Change	12/22/2018	12/23/2017	% Change
Alabama	293	305	252	14,249	12,635	12.8	14,443	13,012	11.0
Alaska	21	21	21	919	940	-2.2	936	971	-3.6
Arizona	149	148	146	6,458	6,091	6.0	6,569	6,293	4.4
Arkansas	.	.	.	17	43	-60.0	17	44	-61.4
Colorado	270	267	303	13,547	14,774	-8.3	13,780	15,347	-10.2
Illinois	980	978	928	47,949	47,470	1.0	48,662	49,058	-0.8
Indiana	694	662	621	33,148	30,914	7.2	33,625	31,964	5.2
Kentucky Total	792	762	808	38,699	41,082	-5.8	39,320	42,671	-7.9
Eastern (KY)	374	364	378	17,634	17,863	-1.3	17,924	18,500	-3.1
Western (KY)	417	397	430	21,066	23,219	-9.3	21,396	24,172	-11.5
Louisiana	23	25	40	1,195	2,043	-41.5	1,226	2,155	-43.1
Maryland	28	27	33	1,352	1,779	-24.0	1,377	1,849	-25.5
Mississippi	43	42	47	2,378	2,561	-7.1	2,415	2,667	-9.4
Missouri	5	5	5	252	240	5.2	256	249	2.8
Montana	896	862	789	38,729	34,523	12.2	39,335	35,874	9.6
New Mexico	177	158	224	8,359	13,643	-38.7	8,531	14,162	-39.8
North Dakota	644	627	608	29,190	28,242	3.4	29,657	29,311	1.2
Ohio	193	186	198	8,614	9,311	-7.5	8,766	9,663	-9.3
Oklahoma	13	13	12	668	551	21.3	677	574	17.9
Pennsylvania Total	1,000	966	986	48,589	48,246	0.7	49,346	50,080	-1.5
Anthracite (PA)	37	36	39	1,760	1,877	-6.2	1,790	1,939	-7.7
Bituminous (PA)	962	930	947	46,829	46,369	1.0	47,556	48,141	-1.2
Tennessee	5	5	6	225	426	-47.2	229	445	-48.5
Texas	653	654	800	28,279	35,664	-20.7	28,894	37,106	-22.1
Utah	323	320	334	14,043	14,026	0.1	14,300	14,557	-1.8
Virginia	257	246	260	12,560	13,469	-6.7	12,760	13,957	-8.6
West Virginia Total	2,063	2,034	1,967	95,709	91,056	5.1	97,219	94,114	3.3
Northern (WV)	963	949	1,002	44,528	45,854	-2.9	45,298	47,513	-4.7
Southern (WV)	1,099	1,084	964	51,181	45,202	13.2	51,921	46,601	11.4
Wyoming	6,427	6,168	6,323	295,100	310,777	-5.0	299,955	322,883	-7.1
Appalachian Total	4,213	4,132	4,078	198,932	194,784	2.1	202,064	201,619	0.2
Interior Total	2,829	2,776	2,884	134,954	142,705	-5.4	137,168	147,988	-7.3
Western Total	8,907	8,570	8,749	406,346	423,015	-3.9	413,063	439,397	-6.0
East of Mississippi River	6,347	6,211	6,105	303,473	298,949	1.5	308,161	309,480	-0.4
West of Mississippi River	9,601	9,268	9,605	436,758	461,555	-5.4	444,133	479,524	-7.4
Bituminous and Lignite	15,911	15,443	15,671	738,472	758,627	-2.7	750,504	787,066	-4.6
Anthracite	37	36	39	1,760	1,877	-6.2	1,790	1,939	-7.7
U.S. Total	15,948	15,479	15,710	740,231	760,504	-2.7	752,295	789,005	-4.7
Railroad Cars Loaded	93,964	91,218	89,997	4,328,379	4,346,883	-0.4	4,399,350	4,512,040	-2.5

Source: Energy Information Administration



Weekly Electric Output

Volume 86 No. 51

OUTPUT FOR WEEK ENDED - Dec 22, 2018

Dec 27, 2018

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Dec 22, 2018** was **76,247** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **172** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended December 22		52 Weeks Ended December 22	
	GWh Output	% Increase Over Corresponding Week of 2017	GWh Output	% Increase Over Corresponding Period of 2017
New England	2,375	-6.1	122,610	1.9
Mid-Atlantic	8,374	0.4	441,572	4.1
Central Industrial	12,978	0.6	686,474	4.6
West Central	6,357	0.1	338,706	4.2
Southeast	19,213	2.4	1,054,349	4.4
South Central	13,240	2.7	764,588	5.7
Rocky Mountain	5,392	-3.6	281,151	1.0
Pacific Northwest	3,427	-10.1	156,261	-2.0
Pacific Southwest	4,891	-6.1	276,898	-2.4
Total United States	76,247	-0.2	4,122,609	3.6

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2018	Week Ended	2017	% Inc. (18/17)	52 Weeks Ended	2018	% Inc. (18/17)
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 22	76,247	Dec 23	76,393	-0.2	Dec 22	4,122,609	3.6
Dec 22	4,040,606	Dec 23	3,907,940	3.4	YEAR TO DATE, FIRST 51 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2018	Week Ended	2017	Week Ended	2016
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
Dec 22	172	Dec 23	192	Dec 24	203

* 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		
	22-Dec 2018 GWh Output	23-Dec 2017 GWh Output	% Increase Over Corresponding Week of 2017	22-Dec 2018 GWh Output	23-Dec 2017 GWh Output	% Increase Over Corresponding Week of 2017	22-Dec 2018 GWh Output	23-Dec 2017 GWh Output	% Increase Over Corresponding Week of 2017
New England	2,375	2,528	-6.1%	119,944	117,918	1.7%	122,610	120,278	1.9%
Mid-Atlantic	8,374	8,337	0.4%	432,499	415,901	4.0%	441,572	423,992	4.1%
Central Industrial	12,978	12,903	0.6%	672,577	644,377	4.4%	686,474	656,522	4.6%
West Central	6,357	6,353	0.1%	331,847	319,081	4.0%	338,706	325,119	4.2%
Southeast	19,213	18,767	2.4%	1,033,146	991,844	4.2%	1,054,349	1,009,891	4.4%
South Central	13,240	12,891	2.7%	750,453	711,505	5.5%	764,588	723,355	5.7%
Rocky Mountain	5,392	5,594	-3.6%	275,657	272,821	1.0%	281,151	278,422	1.0%
Pacific Northwest	3,427	3,814	-10.1%	152,483	155,765	-2.1%	156,261	159,485	-2.0%
Pacific Southwest	4,891	5,206	-6.1%	272,002	278,728	-2.4%	276,898	283,694	-2.4%
Total United States ^{1/}	<u>76,247</u>	<u>76,393</u>	-0.2%	<u>4,040,608</u>	<u>3,907,940</u>	3.4%	4,122,609	3,980,758	3.6%
Coal Regions Only ^{2/}	65,554	64,845	1.1%	3,496,179	3,355,529	4.2%	3,566,840	3,417,301	4.4%

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 26, 2018

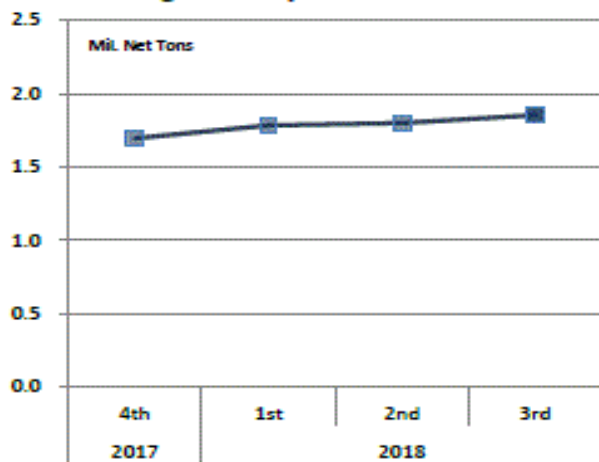
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<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. 22</u>	<u>Dec. 15</u>	
<u>Week Ending</u>				North East	210	216
				Great Lakes	711	726
December 22, 2018	1,870	-1.1	79.8	Midwest	189	191
December 22, 2017	1,676	11.6	71.9	Southern	680	676
December 15, 2018	1,890	0.7	80.6	Western	80	81
				Total	1,870	1,890
<u>Year-to-Date +</u>						
December 22, 2018	93,164	6.1	78.3			
December 22, 2017	87,807	-	74.0			

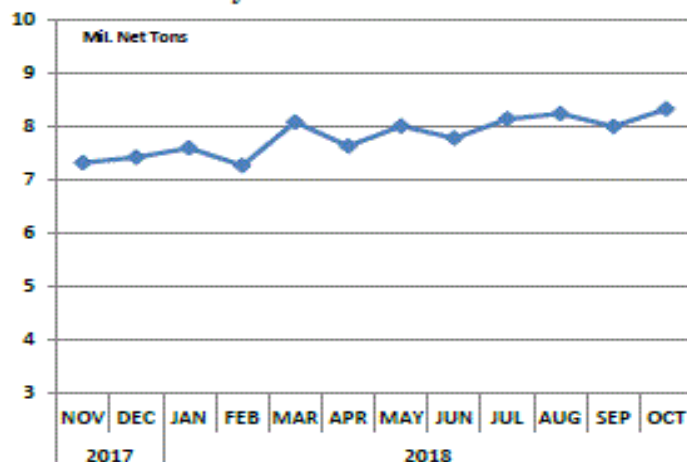
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides 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 51, 2018 – Ended December 22, 2018

	This Week		Year-To-Date		
	Cars	vs 2017	Cumulative	Avg/wk ²	vs 2017
Total Carloads	277,111	3.1%	13,430,308	263,339	1.7%
Chemicals	35,032	5.8%	1,642,664	32,209	3.8%
Coal	93,964	4.5%	4,337,002	85,039	-0.5%
Farm Products excl. Grain, and Food	16,391	-0.4%	827,321	16,222	1.8%
Forest Products	10,529	0.4%	524,215	10,279	2.3%
Grain	23,861	6.4%	1,165,369	22,850	2.7%
Metallic Ores and Metals	24,385	-4.7%	1,191,964	23,372	3.2%
Motor Vehicles and Parts	17,293	-0.1%	846,610	16,600	-1.1%
Nonmetallic Minerals	32,826	-0.8%	1,819,998	35,686	0.3%
Petroleum and Petroleum Products	13,401	17.7%	577,365	11,321	17.8%
Other	9,429	3.6%	497,800	9,761	1.6%
Total Intermodal Units	290,141	5.3%	14,271,506	279,833	5.5%
Total Traffic	567,252	4.2%	27,701,814	543,173	3.6%

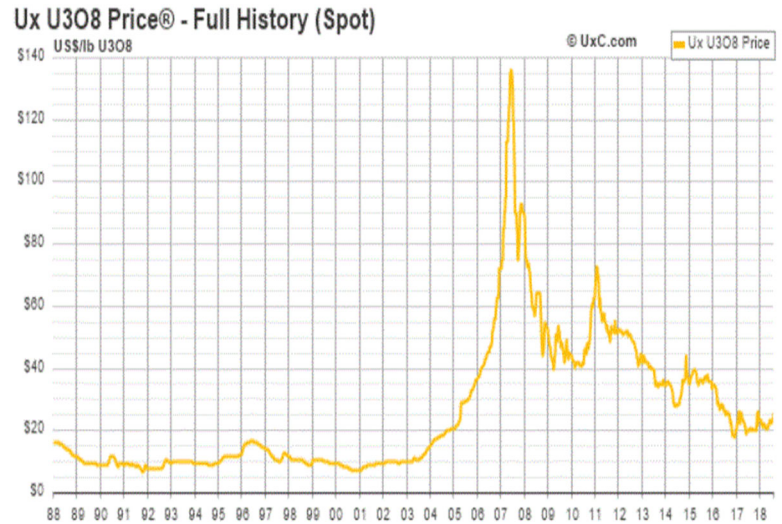
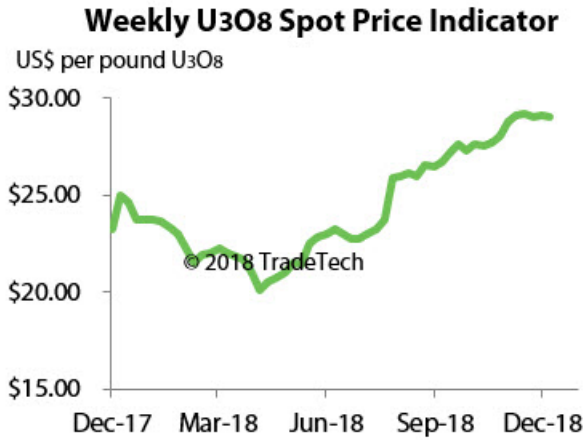
¹ Excludes U.S. operations of Canadian Pacific, CN and GMXT.

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>

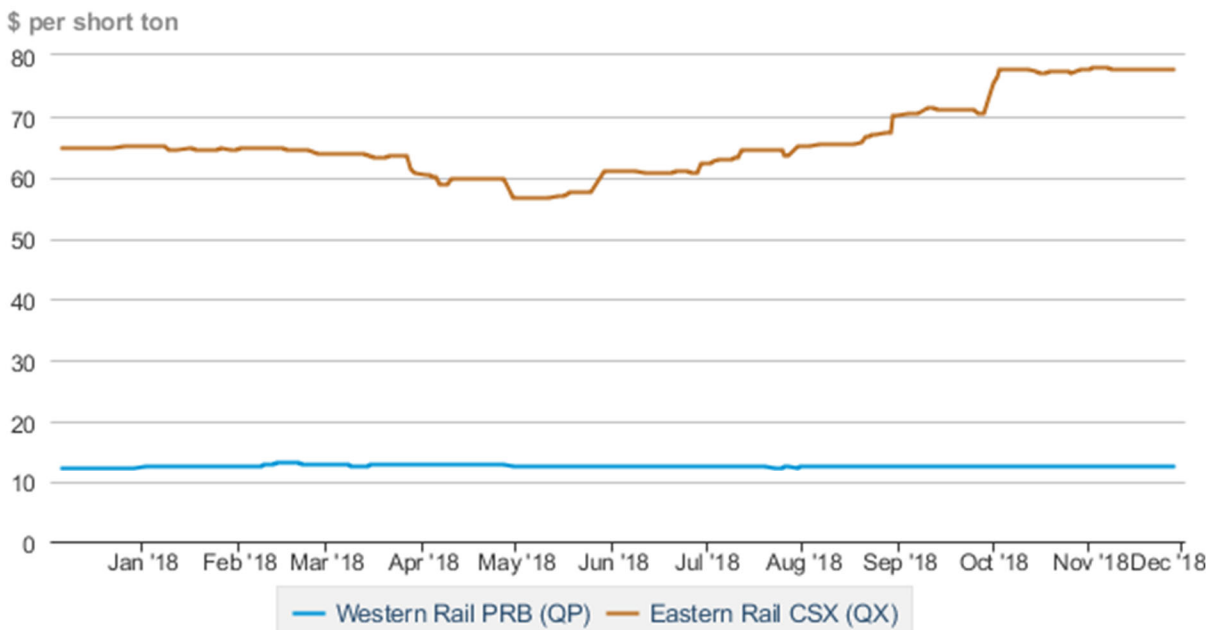
Trade Tech's and UX's Uranium Price Indicators

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.

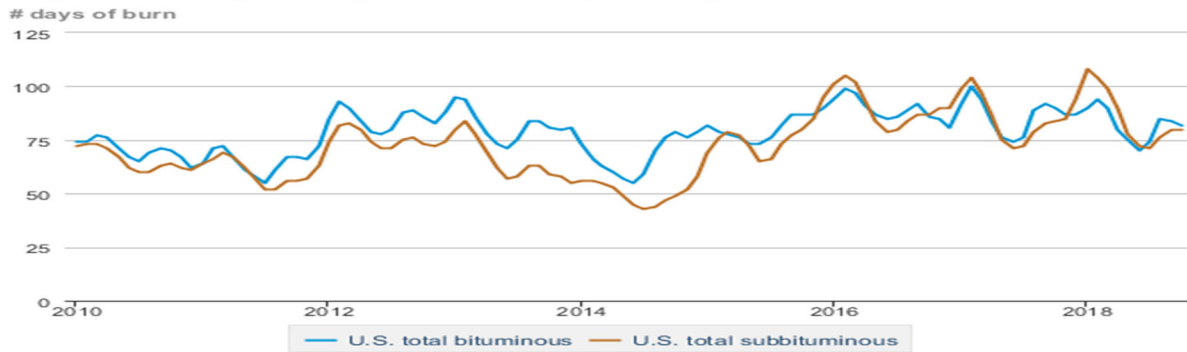
Source: Energy Information Administration, based on NYMEX and Daily Energy Bulletin data

Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	11/23/18	11/30/18	12/07/18	12/14/18	12/21/18	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$78.95	\$78.95	\$81.40	\$81.40	\$81.40	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$61.85	\$61.85	\$63.75	\$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	\$11.95	\$11.95	\$11.95	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$40.55	\$40.55	\$40.40	\$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 - October 2018



Source: U.S. Energy Information Administration

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

Temperature – heating & cooling degree days (week ending Dec 13)

Region	HDD Current	HDD deviation from:		CDD Current	CDD deviation from:	
		normal	last year		normal	last year
New England	271	47	41	0	0	0
Middle Atlantic	248	35	12	0	0	0
E N Central	265	21	-9	0	0	0
W N Central	274	4	21	0	0	0
South Atlantic	188	39	5	5	-3	1
E S Central	180	26	-18	0	-1	0
W S Central	121	8	-18	1	-2	1
Mountain	206	-15	13	0	0	0
Pacific	103	-14	34	0	0	0
United States	205	15	8	1	-1	0

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

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

USGS Production of Selected Mineral Commodities	2018 Year to Date - 3rd Quarter	2017 Year to Date - 3rd Quarter	Percent Change
Aluminum, secondary (000 Mt.)	624.0	628.0	-1%
Cement (Mil. Mt.)	64.7	63.2	2%
Copper (000 Mt.)	912.0	955.0	-5%
Gold (Mt.)	156.0	178.0	-12%
Gypsum (Mil. Mt.)	12.8	12.4	3%
Iron Ore (Mil. Mt.)	36.4	34.5	6%
Lead (000 Mt.)	W	228.0	N/A
Molybdenum (000 Mt.)	30.9	29.8	4%
Phosphate rock (Mil. Mt.)	20.1	20.8	-3%
Sand & gravel, construction (Mil. Mt.)	720.0	672.0	7%
Silver (Mt.)	675.0	779.0	-13%
Soda ash (Mil. Mt.)	8.8	8.8	0%
Stone, crushed (Mil. Mt.)	1,050.0	1,010.0	4%
Zinc (000 Mt.)	600.0	540.0	11%

Source: U.S. Geological Survey, Mineral Industry Surveys. Percent change based on USGS rounded numbers. 2018 data are preliminary estimates. W - withheld, N/A - not available

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	October 2018		October 2017		% Change of Stocks	September 2018		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	3,258	94	4,714	90	-30.9%	2,831	84	15.1%
	Subbituminous	163	113	146	99	11.3%	163	139	0.0%
South	Bituminous	18,869	82	27,570	92	-31.6%	18,000	86	4.8%
	Subbituminous	4,605	56	5,359	64	-14.1%	4,669	59	-1.4%
Midwest	Bituminous	9,249	74	13,270	83	-30.3%	8,876	78	4.2%
	Subbituminous	27,720	91	37,508	84	-26.1%	26,385	88	5.1%
West	Bituminous	4,205	91	5,312	91	-20.8%	4,301	92	-2.2%
	Subbituminous	20,242	76	26,295	89	-23.0%	20,223	77	0.1%
U.S. Total	Bituminous	35,582	82	50,867	90	-30.0%	34,008	84	4.6%
	Subbituminous	52,729	80	69,308	84	-23.9%	51,440	80	2.5%

Source: U.S. Energy Information Administration

Source: Energy Information Administration, *Electricity Monthly Update*

EIA Working Natural Gas Underground Storage

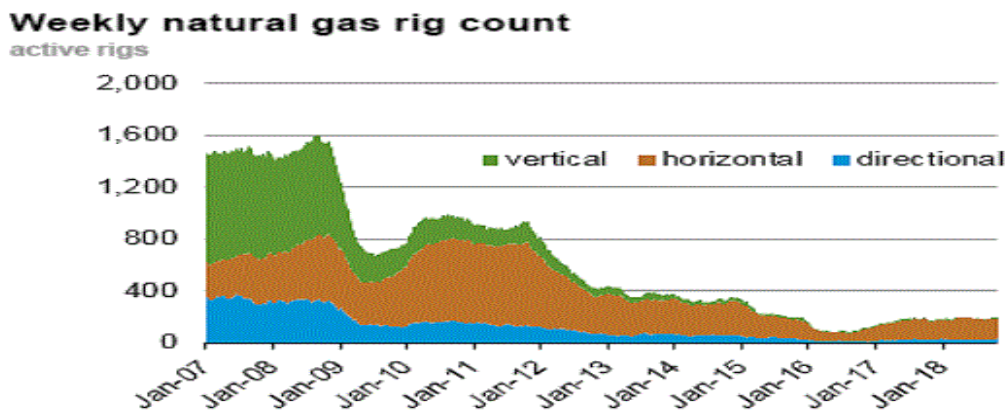
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2018-12-14	2018-12-07	change
East	692	732	-40
Midwest	841	885	-44
Mountain	153	160	-7
Pacific	227	238	-11
South Central	860	898	-38
Total	2,773	2,914	-141

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		
	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*