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National Mining Association

# Weekly Statistical Summary

November 18, 2016 Edition  
(Data for Week Ending November 12, 2016)

Prepared by  
National Mining Association



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# NMA Weekly Statistical Summary

Vol. 54, No. 46  
Dated 11/18/16

## PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	11/12/16	11/14/15	% Chng	11/12/16	11/12/15	% Chng
<b>EIA Coal Production (000 Tons):</b>						
Week Ended/Year to Date	16,770	16,563	1.2%	640,250	793,800	-19.3%
52 Weeks Ended	738,753	925,565	-20.2%			
AAR Coal Rail Cars Loaded:	92,184	95,293	-3.3%	3,517,660	4,557,294	-22.8%
Coal Production Month Ended - Oct.	<b>Oct 16/15</b>		<b>% Chng</b>	<b>Jan - Oct 16/15</b>		<b>% Chng</b>
	73,020	75,662	-3.5%	611,137	765,403	-20.2%

## DOC Bituminous Coal Trade (000 Tons)

Exports:	September 16/15			Jan - September 16/15		
			% Chng			% Chng
Metallurgical	2,828	3,436	-17.7%	29,291	36,560	-19.9%
Steam *	1,406	1,931	-27.2%	11,271	21,806	-48.3%
Lignite	5	6	-16.7%	51	47	8.5%
Anthracite	37	18	105.6%	351	276	27.2%
<b>Total</b>	<b>4,276</b>	<b>5,391</b>	<b>-20.7%</b>	<b>40,964</b>	<b>58,689</b>	<b>-30.2%</b>
<b>Imports:</b>	<b>800</b>	<b>904</b>	<b>-11.5%</b>	<b>7,722</b>	<b>8,613</b>	<b>-10.3%</b>

	Week Ended			Cumulative Jan 1 to		
	11/12/16	11/14/15	% Chng	11/12/16	11/14/15	% Chng
<b>EI Electric Total Output (Mil. Kwh)</b>	68,087	69,344	-1.8%	3,575,608	3,587,362	-0.3%
<b>EI Coal Region Output (Mil. Kwh)</b>	58,054	59,249	-2.0%	3,082,013	3,088,510	-0.2%
<b>AISI Raw Steel Output (000 Tons)</b>	1,580	1,500	5.3%	76,707	77,988	-1.6%

## EIA (SNL ENERGY) AVERAGE COAL SPOT PRICES Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	11/11/16	11/04/16	% Chng	Wed.	11/09/16
Central App, 12,500 Btu, 1.2 SO <sub>2</sub>	\$45.05	\$45.05	0.0%	Henry Hub	2.22
Northern App, 13,000 Btu, < 3.0 SO <sub>2</sub>	42.25	42.25	0.0%	New York	1.91
Illinois Basin, 11,800, 5.0 SO <sub>2</sub>	33.25	33.25	0.0%	Chicago	2.15
Powder River Basin, 8,800 Btu 0.8 SO <sub>2</sub>	9.00	9.00	0.0%	Cal.Comp.Avg.	2.23
Uinta Basin, 11,700 Btu, 0.8 SO <sub>2</sub>	39.40	39.40	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.

Sources: Energy Information Administration; 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		
	11/12/2016 (week 46)	11/5/2016 (week 45)	11/14/2015 (week 46)	11/12/2016	11/12/2015	% Change	11/12/2016	11/14/2015	% Change
Alabama	172	183	188	8,127	12,020	-32.4	9,247	14,088	-34.4
Alaska	29	28	25	1,003	1,022	-1.9	1,151	1,191	-3.4
Arizona	112	111	110	4,669	6,120	-23.7	5,323	7,189	-26.0
Arkansas	1	1	1	53	83	-36.4	61	101	-39.6
Colorado	215	232	260	10,402	17,258	-39.7	11,951	20,158	-40.7
Illinois	963	997	957	40,412	50,267	-19.6	46,105	58,259	-20.9
Indiana	637	628	581	25,568	30,680	-16.7	29,021	35,826	-19.0
Kansas	4	4	4	102	172	-40.8	128	198	-35.4
<b>Kentucky Total</b>	<b>977</b>	<b>992</b>	<b>1,033</b>	<b>39,823</b>	<b>54,999</b>	<b>-27.6</b>	<b>45,968</b>	<b>64,417</b>	<b>-28.6</b>
Eastern (KY)	386	402	460	16,337	25,244	-35.3	19,073	29,641	-35.7
Western (KY)	591	590	573	23,486	29,755	-21.1	26,895	34,777	-22.7
Louisiana	69	72	61	2,716	3,057	-11.2	3,081	3,633	-15.2
Maryland	32	32	34	1,294	1,709	-24.3	1,497	1,960	-23.6
Mississippi	68	64	50	2,523	2,834	-11.0	2,819	3,214	-12.3
Missouri	3	3	1	151	130	15.9	159	164	-3.0
Montana	690	722	763	27,410	37,114	-26.1	31,946	43,735	-27.0
New Mexico	413	425	393	14,932	17,233	-13.4	17,268	19,785	-12.7
North Dakota	658	684	556	25,441	25,341	0.4	28,746	29,247	-1.7
Ohio	336	325	296	12,747	15,201	-16.1	14,505	17,773	-18.4
Oklahoma	16	15	14	606	690	-12.2	692	798	-13.3
<b>Pennsylvania Total</b>	<b>969</b>	<b>972</b>	<b>881</b>	<b>39,170</b>	<b>45,385</b>	<b>-13.7</b>	<b>44,410</b>	<b>53,332</b>	<b>-16.7</b>
Anthracite (PA)	48	48	43	1,741	1,871	-7.0	2,000	2,145	-6.8
Bituminous (PA)	921	924	838	37,429	43,514	-14.0	42,411	51,187	-17.1
Tennessee	21	20	17	738	791	-6.7	840	918	-8.5
Texas	1,060	1,024	755	35,138	31,219	12.6	39,626	36,959	7.2
Utah	323	316	274	12,310	12,715	-3.2	13,938	15,026	-7.2
Virginia	307	301	265	11,624	12,671	-8.3	13,200	14,575	-9.4
<b>West Virginia Total</b>	<b>1,739</b>	<b>1,771</b>	<b>1,715</b>	<b>69,274</b>	<b>84,955</b>	<b>-18.5</b>	<b>79,473</b>	<b>98,728</b>	<b>-19.5</b>
Northern (WV)	1,026	1,027	958	37,779	41,819	-9.7	43,477	48,245	-9.9
Southern (WV)	714	744	757	31,495	43,136	-27.0	35,996	50,483	-28.7
Wyoming	6,958	6,988	7,329	254,015	330,135	-23.1	297,600	384,290	-22.6
<b>Appalachian Total</b>	<b>3,961</b>	<b>4,006</b>	<b>3,856</b>	<b>159,312</b>	<b>197,974</b>	<b>-19.5</b>	<b>182,245</b>	<b>231,015</b>	<b>-21.1</b>
<b>Interior Total</b>	<b>3,412</b>	<b>3,398</b>	<b>2,998</b>	<b>130,756</b>	<b>148,887</b>	<b>-12.2</b>	<b>148,585</b>	<b>173,928</b>	<b>-14.6</b>
<b>Western Total</b>	<b>9,397</b>	<b>9,506</b>	<b>9,709</b>	<b>350,183</b>	<b>446,938</b>	<b>-21.6</b>	<b>407,923</b>	<b>520,622</b>	<b>-21.6</b>
<b>East of Mississippi River</b>	<b>6,220</b>	<b>6,285</b>	<b>6,017</b>	<b>251,301</b>	<b>311,510</b>	<b>-19.3</b>	<b>287,084</b>	<b>363,090</b>	<b>-20.9</b>
<b>West of Mississippi River</b>	<b>10,550</b>	<b>10,624</b>	<b>10,546</b>	<b>388,949</b>	<b>482,290</b>	<b>-19.4</b>	<b>451,669</b>	<b>562,475</b>	<b>-19.7</b>
Bituminous and Lignite	16,723	16,861	16,520	638,509	791,929	-19.4	736,754	923,421	-20.2
Anthracite	48	48	43	1,741	1,871	-7.0	2,000	2,145	-6.8
<b>U.S. Total</b>	<b>16,770</b>	<b>16,910</b>	<b>16,563</b>	<b>640,250</b>	<b>793,800</b>	<b>-19.3</b>	<b>738,753</b>	<b>925,565</b>	<b>-20.2</b>
Railroad Cars Loaded	92,184	92,912	95,293	3,517,660	4,557,294	-22.8	4,087,523	5,330,415	-23.3

Source: Energy Information Administration

Prepared by EEI's Business Information Group



# WEEKLY ELECTRIC OUTPUT

Volume 84 No. 46

**OUTPUT FOR WEEK ENDED - Nov 12, 2016**

Nov 16, 2016

The net available amount of electric energy distributed by the Total Electric Utility Industry\* for the week ended Saturday, **Nov 12, 2016** was **68,087** 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 November 12		52 Weeks Ended November 12	
	GWh Output	% Increase Over Corresponding Week of 2015	GWh Output	% Increase Over Corresponding Period of 2015
New England	2,166	-1.3	123,308	-3.6
Mid-Atlantic	7,493	0.2	432,791	-3.5
Central Industrial	11,390	-4.5	673,031	-1.2
West Central	5,672	-1.4	329,344	-0.8
Southeast	17,008	-3.8	1,023,739	-0.4
South Central	11,492	2.0	713,154	0.4
Rocky Mountain	4,999	-2.7	276,767	0.2
Pacific Northwest	2,658	-9.2	152,058	0.3
Pacific Southwest	5,209	4.7	283,442	-0.4
Total United States	68,087	-1.8	4,007,634	-0.8

**WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh**

Week Ended	2016	Week Ended	2015	% Inc. (16/15)	52 Weeks Ended	2016	% Inc. (16/15)
Oct 22	72,602	Oct 24	69,427	4.6	Oct 22	4,007,096	-1.0
Oct 29	68,955	Oct 31	68,293	1.0	Oct 29	4,007,757	-1.0
Nov 05	69,752	Nov 07	68,619	1.7	Nov 05	4,008,891	-0.9
Nov 12	68,087	Nov 14	69,344	-1.8	Nov 12	4,007,633	-0.8
Nov 12	3,575,608	Nov 14	3,587,362	-0.3	YEAR TO DATE, FIRST 46 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2016	Week Ended	2015	Week Ended	2014
Oct 22	188	Oct 24	159	Oct 25	176
Oct 29	180	Oct 31	157	Nov 01	179
Nov 05	186	Nov 07	158	Nov 08	191
Nov 12	179	Nov 14	158	Nov 15	201

\* 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		
	12-Nov 2016 GWh Output	14-Nov 2015 GWh Output	% Increase Over Corresponding Week of 2015	12-Nov 2016 GWh Output	14-Nov 2015 GWh Output	% Increase Over Corresponding Week of 2015	12-Nov 2016 GWh Output	14-Nov 2015 GWh Output	% Increase Over Corresponding Week of 2015
<b>New England</b>	2,166	2,196	-1.4%	<b>109,678</b>	<b>113,263</b>	<b>-3.2%</b>	123,308	127,942	-3.6%
<b>Mid-Atlantic</b>	7,493	7,477	0.2%	<b>386,586</b>	<b>398,151</b>	<b>-2.9%</b>	432,791	448,630	-3.5%
<b>Central Industrial</b>	11,390	11,928	-4.5%	<b>598,405</b>	<b>599,689</b>	<b>-0.2%</b>	673,031	681,354	-1.2%
<b>West Central</b>	5,672	5,755	-1.4%	<b>293,306</b>	<b>293,799</b>	<b>-0.2%</b>	329,344	331,993	-0.8%
<b>Southeast</b>	17,008	17,686	-3.8%	<b>917,178</b>	<b>914,208</b>	<b>0.3%</b>	1,023,739	1,028,076	-0.4%
<b>South Central</b>	11,492	11,267	2.0%	<b>642,420</b>	<b>638,495</b>	<b>0.6%</b>	713,154	709,982	0.4%
<b>Rocky Mountain</b>	4,999	5,136	-2.7%	<b>244,118</b>	<b>244,168</b>	<b>0.0%</b>	276,767	276,104	0.2%
<b>Pacific Northwest</b>	2,658	2,926	-9.2%	<b>131,095</b>	<b>131,188</b>	<b>-0.1%</b>	152,058	151,638	0.3%
<b>Pacific Southwest</b>	5,209	4,973	4.7%	<b>252,821</b>	<b>254,404</b>	<b>-0.6%</b>	283,442	284,492	-0.4%
<b>Total United States <sup>1/</sup></b>	<u>68,087</u>	<u>69,344</u>	-1.8%	<u><b>3,575,607</b></u>	<u><b>3,587,365</b></u>	<u><b>-0.3%</b></u>	4,007,634	4,040,211	-0.8%
<b>Coal Regions Only <sup>2/</sup></b>	58,054	59,249	-2.0%	<b>3,082,013</b>	<b>3,088,510</b>	<b>-0.2%</b>	3,448,826	3,476,139	-0.8%

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.

<sup>1/</sup> Excludes Alaska and Hawaii

<sup>2/</sup> Excludes New England and Pacific regions

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

AMERICAN IRON AND STEEL INSTITUTE  
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November 14, 2016

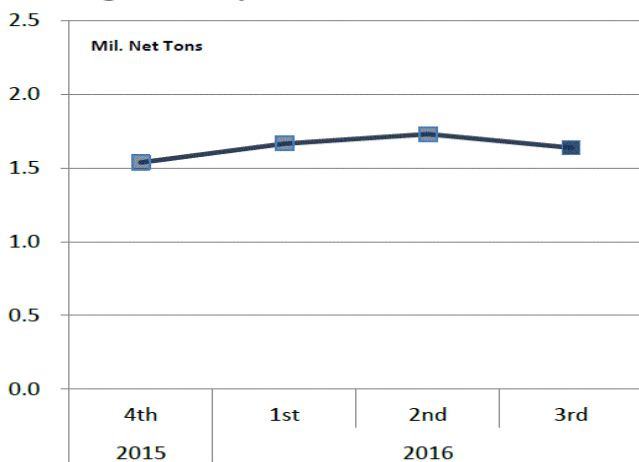
**ESTIMATED WEEKLY RAW STEEL \* PRODUCTION**

<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 Nov. 12</u>	<u>Nov. 5</u>	
<b><u>Week Ending</u></b>				North East	198	193
				Great Lakes	599	612
November 12, 2016	1,580	-1.4	66.6	Midwest	154	154
November 12, 2015	1,500	5.3	62.7	Southern	560	570
November 5, 2016	1,602	1.7	67.5	Western	69	73
				<b>Total</b>	<b>1,580</b>	<b>1,602</b>
<b><u>Year-to-Date +</u></b>						
November 12, 2016	76,707	-1.6	71.2			
November 12, 2015	77,988	-	70.9			

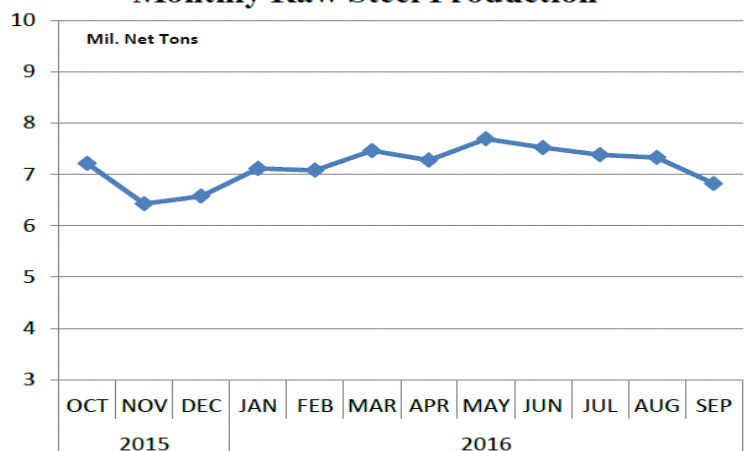
\*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides 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 2016 is approximately 31.2 million net tons vs. 31.4 million net tons for the same period last year, and 30.7 million tons for the third quarter of 2016.

**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](http://www.kitco.com/connecting.html)

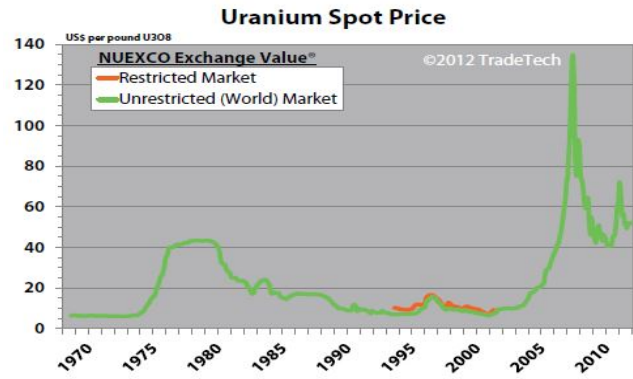
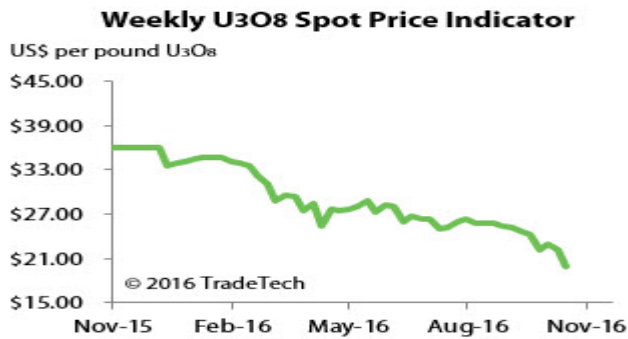


Source: Kitco website - [www.kitco.com/connecting.html](http://www.kitco.com/connecting.html)



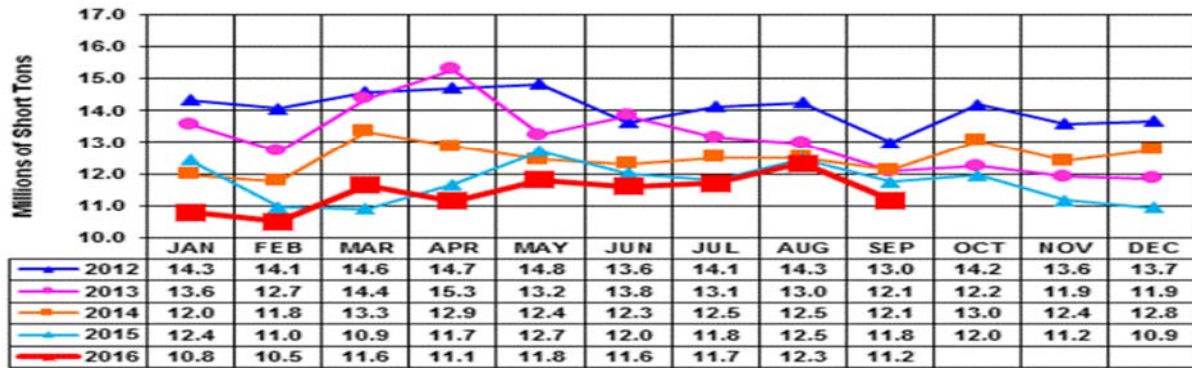
Source: Kitco website - [www.kitco.com/connecting.html](http://www.kitco.com/connecting.html)

### Trade Tech's Uranium Price Indicators



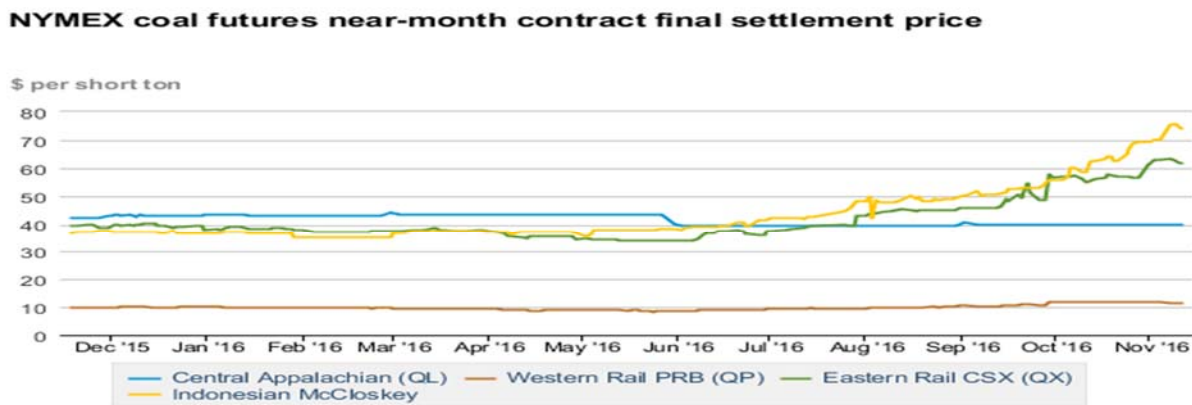
Source: Trade Tech, Uranium Info Website – [www.uranium.info](http://www.uranium.info)

### Coal and Coke Monthly Indicator for Internal U.S. Waterways



Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center

### NYMEX Coal Futures Near-month Contract Final Settlement Price



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

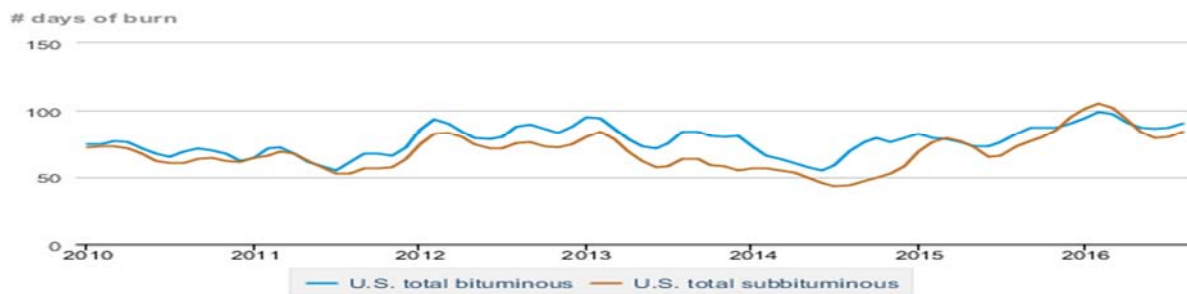
Source: Energy Information Administration, based on NYMEX and Daily Energy Bulletin data

### Average weekly coal commodity spot prices dollars per short ton

	Week ending					Week ago
	10/14/16	10/21/16	10/28/16	11/04/16	11/11/16	change
Central Appalachia 12,500 Btu, 1.2 SO <sub>2</sub>	\$45.05	\$45.05	\$45.05	\$45.05	\$45.05	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO <sub>2</sub>	\$42.25	\$42.25	\$42.25	\$42.25	\$42.25	\$0.00
Illinois Basin 11,800 Btu, 5.0 SO <sub>2</sub>	\$33.25	\$33.25	\$33.25	\$33.25	\$33.25	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO <sub>2</sub>	\$9.00	\$9.00	\$9.00	\$9.00	\$9.00	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO <sub>2</sub>	\$39.40	\$39.40	\$39.40	\$39.40	\$39.40	\$0.00

Source: Energy Information Administration (with permission from SNL), *Coal News and Markets Report*

### Days of burn by non-lignite coal rank, January 2009 - August 2016



 Source: U.S. Energy Information Administration

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

Region	Temperature -- heating & cooling degree days (week ending Nov 03)					
	HDD Current	HDD deviation from:		CDD Current	CDD deviation from:	
		normal	last year		normal	last year
New England	115	-17	18	0	0	0
Middle Atlantic	93	-29	6	0	0	0
E N Central	66	-69	-34	1	1	1
W N Central	62	-80	-46	5	5	5
South Atlantic	29	-46	-19	29	12	0
E S Central	10	-66	-35	22	19	17
W S Central	1	-40	-23	53	38	29
Mountain	67	-64	-30	13	9	8
Pacific	42	-16	13	0	-2	-4
United States	54	-48	-16	14	8	5

Note: HDD = heating degree day; CDD = cooling degree day  
Source: National Oceanic and Atmospheric Administration

Source: Energy Information Administration

USGS Production of Selected Mineral Commodities	2016 Year to Date - 2nd Quarter	2015 Year to Date - 2nd Quarter	Percent Change
Aluminum, secondary (000 Mt.)	450.0	374.0	20%
Cement (Mil. Mt.)	38.9	36.6	6%
Copper (000 Mt.)	703.0	665.0	6%
Gold (Mt.)	103.0	97.7	5%
Gypsum (Mil. Mt.)	8.3	7.3	14%
Iron Ore (Mil. Mt.)	19.2	23.4	-18%
Lead (000 Mt.)	177.0	188.0	-6%
Molybdenum (000 Mt.)	17.7	27.3	-35%
Phosphate rock (Mil. Mt.)	12.7	13.8	-8%
Sand & gravel, construction (Mil. Mt.)	443.0	410.0	8%
Silver (Mt.)	567.0	551.0	3%
Soda ash (Mil. Mt.)	5.8	5.8	0%
Stone, crushed (Mil. Mt.)	648.0	582.0	11%
Zinc (000 Mt.)	404.0	417.0	-3%

Source: U.S. Geological Survey, Mineral Industry Surveys. Percent change based on USGS rounded numbers. 2016 data are preliminary estimates.

### Natural gas spot prices (Henry Hub)



Source: Natural Gas Intelligence

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

### 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	August 2016		August 2015		% Change of Stocks	July 2016		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	5,285	98	5,938	100	-11.0%	6,320	115	-16.4%
	Subbituminous	153	131	780	216	-80.4%	163	134	-6.3%
South	Bituminous	28,550	86	30,155	82	-5.3%	30,996	81	-7.9%
	Subbituminous	5,899	67	5,504	61	7.2%	6,510	69	-9.4%
Midwest	Bituminous	16,831	99	14,764	82	14.0%	17,322	92	-2.8%
	Subbituminous	40,679	82	36,662	67	11.0%	42,951	78	-5.3%
West	Bituminous	5,715	79	5,231	69	9.3%	5,689	75	0.5%
	Subbituminous	31,529	92	30,888	84	2.1%	33,520	85	-5.9%
U.S. Total	Bituminous	56,382	90	56,088	82	0.5%	60,327	87	-6.5%
	Subbituminous	78,259	84	73,833	73	6.0%	83,144	80	-5.9%

Source: U.S. Energy Information Administration

Source: Energy Information Administration, *Electricity Monthly Update*

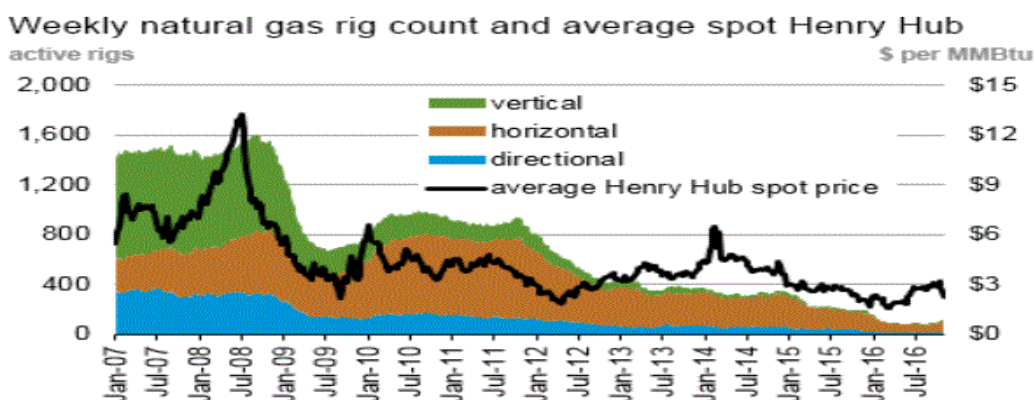
**Working gas in underground storage**

Region	Stocks billion cubic feet (Bcf)		
	2016-11-04	2016-10-28	change
East	946	940	6
Midwest	1,148	1,130	18
Mountain	253	249	4
Pacific	327	326	1
South Central	1,343	1,318	25
<b>Total</b>	<b>4,017</b>	<b>3,963</b>	<b>54</b>

Source: U.S. Energy Information Administration

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

**EIA Natural Gas Rig Count and Price Trend**



Source: Baker Hughes

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 2016	December 2016	change	November 2016	December 2016	change
Bakken	927	949	22	1,296	1,343	47
Eagle Ford	1,280	1,307	27	3,525	3,586	61
Haynesville	30	30	-	5,982	6,062	80
Marcellus	69	69	-	12,130	12,290	160
Niobrara	1,142	1,177	35	3,683	3,794	111
Permian	604	611	7	999	1,007	8
Utica	132	123	(9)	8,502	8,579	77
Rig-weighted average	649	643	(6)	2,998	3,120	122

Source: Energy Information Administration, *Drilling Productivity Report*