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National Mining Association

# Weekly Statistical Summary

December 23, 2016 Edition  
(Data for Week Ending December 17, 2016)

Prepared by  
National Mining Association



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# NMA Weekly Statistical Summary

Vol. 54, No. 51  
Dated 12/23/16

## PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	12/17/16	12/19/15	% Chng	12/17/16	12/17/15	% Chng
<b>EIA Coal Production (000 Tons):</b>						
Week Ended/Year to Date	15,689	14,778	6.2%	711,061	872,511	-18.5%
52 Weeks Ended	731,353	903,896	-19.1%			
AAR Coal Rail Cars Loaded:	87,219	85,021	2.6%	3,960,848	5,010,141	-20.9%
<b>Coal Production</b>						
Month Ended - Nov.	<b>Nov 16/15</b>		<b>% Chng</b>	<b>Jan - Nov 16/15</b>		<b>% Chng</b>
	70,837	68,574	3.3%	681,973	833,977	-18.2%
<b>DOC Bituminous Coal Trade (000 Tons)</b>						
<b>Exports:</b>						
	<b>October 16/15</b>		<b>% Chng</b>	<b>Jan - Oct 16/15</b>		<b>% Chng</b>
Metallurgical	3,157	3,452	-8.5%	32,448	40,011	-18.9%
Steam *	1,695	2,274	-25.5%	12,967	24,080	-46.2%
Lignite	7	5	40.0%	58	52	11.5%
Anthracite	8	16	-50.0%	359	292	22.9%
<b>Total</b>	<b>4,867</b>	<b>5,747</b>	<b>-15.3%</b>	<b>45,832</b>	<b>64,435</b>	<b>-28.9%</b>
<b>Imports:</b>						
	768	854	-10.1%	8,491	9,468	-10.3%
<b>EEI Electric Total Output (Mil. Kwh)</b>						
	<b>Week Ended</b>		<b>% Chng</b>	<b>Cumulative Jan 1 to</b>		<b>% Chng</b>
	12/17/16	12/19/15		12/17/16	12/19/15	
EEI Coal Region Output (Mil. Kwh)	81,602	74,793	9.1%	3,946,462	3,949,207	-0.1%
	69,669	63,447	9.8%	3,398,779	3,396,077	0.1%
<b>AISI Raw Steel Output (000 Tons)</b>	1,694	1,485	14.1%	84,744	85,450	-0.8%

## 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)	
	12/16/16	12/09/16	% Chng	Wed.	12/14/16
Central App, 12,500 Btu, 1.2 SO <sub>2</sub>	\$48.05	\$48.05	0.0%	Henry Hub	3.52
Northern App, 13,000 Btu, < 3.0 SO <sub>2</sub>	45.75	45.75	0.0%	New York	19.35
Illinois Basin, 11,800, 5.0 SO <sub>2</sub>	34.50	34.50	0.0%	Chicago	3.78
Powder River Basin, 8,800 Btu 0.8 SO <sub>2</sub>	11.00	11.00	0.0%	Cal.Comp.Avg.	3.53
Uinta Basin, 11,700 Btu, 0.8 SO <sub>2</sub>	42.00	40.90	2.7%		

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		
	12/17/2016 (week 51)	12/10/2016 (week 50)	12/19/2015 (week 51)	12/17/2016	12/17/2015	% Change	12/17/2016	12/19/2015	% Change
Alabama	169	180	168	8,534	12,915	-33.9	8,764	13,394	-34.6
Alaska	24	25	22	1,024	1,141	-10.2	1,054	1,182	-10.8
Arizona	109	109	98	5,248	6,642	-21.0	5,382	6,892	-21.9
Arkansas	1	1	1	42	89	-53.2	44	94	-53.2
Colorado	216	215	232	11,063	18,495	-40.2	11,382	19,166	-40.6
Illinois	913	961	854	43,518	54,815	-20.6	44,690	56,710	-21.2
Indiana	597	598	518	28,299	33,439	-15.4	29,010	34,652	-16.3
Kansas	3	2	4	64	193	-66.6	70	199	-64.8
<b>Kentucky Total</b>	<b>904</b>	<b>915</b>	<b>922</b>	<b>42,210</b>	<b>59,910</b>	<b>-29.5</b>	<b>43,476</b>	<b>62,124</b>	<b>-30.0</b>
Eastern (KY)	356	363	411	16,674	27,431	-39.2	17,238	28,461	-39.4
Western (KY)	548	552	511	25,536	32,479	-21.4	26,238	33,664	-22.1
Louisiana	63	62	55	2,749	3,348	-17.9	2,824	3,483	-18.9
Maryland	30	31	31	1,433	1,871	-23.4	1,475	1,932	-23.7
Mississippi	59	57	44	2,815	3,070	-8.3	2,876	3,161	-9.0
Missouri	3	2	1	203	136	48.7	204	144	41.7
Montana	681	697	681	30,705	40,739	-24.6	31,640	42,303	-25.2
New Mexico	337	349	350	14,132	19,100	-26.0	14,614	19,721	-25.9
North Dakota	634	688	496	28,183	27,982	0.7	28,864	28,925	-0.2
Ohio	296	296	264	13,637	16,605	-17.9	13,999	17,212	-18.7
Oklahoma	14	14	13	640	759	-15.6	658	785	-16.2
<b>Pennsylvania Total</b>	<b>927</b>	<b>928</b>	<b>786</b>	<b>43,537</b>	<b>49,572</b>	<b>-12.2</b>	<b>44,617</b>	<b>51,443</b>	<b>-13.3</b>
Anthracite (PA)	40	40	39	1,717	2,078	-17.4	1,770	2,145	-17.5
Bituminous (PA)	887	888	747	41,821	47,494	-11.9	42,847	49,298	-13.1
Tennessee	18	18	15	753	872	-13.7	774	903	-14.3
Texas	959	960	673	40,097	34,805	15.2	41,021	36,178	13.4
Utah	302	305	244	13,530	14,015	-3.5	13,865	14,563	-4.8
Virginia	282	287	236	13,116	13,930	-5.8	13,441	14,388	-6.6
<b>West Virginia Total</b>	<b>1,675</b>	<b>1,742</b>	<b>1,530</b>	<b>78,183</b>	<b>93,104</b>	<b>-16.0</b>	<b>80,284</b>	<b>96,381</b>	<b>-16.7</b>
Northern (WV)	965	999	855	43,231	46,372	-6.8	44,404	47,931	-7.4
Southern (WV)	710	743	675	34,952	46,732	-25.2	35,879	48,450	-25.9
Wyoming	6,474	6,376	6,539	287,346	364,963	-21.3	296,325	377,961	-21.6
<b>Appalachian Total</b>	<b>3,754</b>	<b>3,845</b>	<b>3,441</b>	<b>175,867</b>	<b>216,300</b>	<b>-18.7</b>	<b>180,591</b>	<b>224,114</b>	<b>-19.4</b>
<b>Interior Total</b>	<b>3,159</b>	<b>3,210</b>	<b>2,675</b>	<b>143,963</b>	<b>163,134</b>	<b>-11.8</b>	<b>147,635</b>	<b>169,070</b>	<b>-12.7</b>
<b>Western Total</b>	<b>8,776</b>	<b>8,763</b>	<b>8,663</b>	<b>391,231</b>	<b>493,077</b>	<b>-20.7</b>	<b>403,126</b>	<b>510,712</b>	<b>-21.1</b>
<b>East of Mississippi River</b>	<b>5,871</b>	<b>6,013</b>	<b>5,368</b>	<b>276,034</b>	<b>340,103</b>	<b>-18.8</b>	<b>283,406</b>	<b>352,300</b>	<b>-19.6</b>
<b>West of Mississippi River</b>	<b>9,818</b>	<b>9,805</b>	<b>9,410</b>	<b>435,027</b>	<b>532,408</b>	<b>-18.3</b>	<b>447,947</b>	<b>551,595</b>	<b>-18.8</b>
Bituminous and Lignite	15,649	15,778	14,739	709,344	870,433	-18.5	729,583	901,751	-19.1
Anthracite	40	40	39	1,717	2,078	-17.4	1,770	2,145	-17.5
<b>U.S. Total</b>	<b>15,689</b>	<b>15,818</b>	<b>14,778</b>	<b>711,061</b>	<b>872,511</b>	<b>-18.5</b>	<b>731,353</b>	<b>903,896</b>	<b>-19.1</b>
Railroad Cars Loaded	87,219	87,929	85,021	3,960,848	5,010,141	-20.9	4,080,744	5,197,305	-21.5

Source: Energy Information Administration

Prepared by EEI's Business Information Group

**WEEKLY ELECTRIC OUTPUT**

Volume 84 No. 51

**OUTPUT FOR WEEK ENDED - Dec 17, 2016**

Dec 21, 2016

The net available amount of electric energy distributed by the Total Electric Utility Industry+ for the week ended Saturday, Dec 17, 2016 was 81,602 gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to 194 on the weekly electric output index.

**WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION**

(48 CONTIGUOUS STATES)

	Week Ended December 17		52 Weeks Ended December 17	
	GWh Output	% Increase Over Corresponding Week of 2015	GWh Output	% Increase Over Corresponding Period of 2015
New England	2,614	13.4	123,626	-2.7
Mid-Atlantic	9,018	16.1	434,612	-2.3
Central Industrial	14,476	14.7	675,272	0.1
West Central	6,981	10.4	330,093	0.1
Southeast	20,890	12.1	1,027,838	0.6
South Central	12,612	3.7	714,766	0.7
Rocky Mountain	5,692	-3.9	275,442	-0.5
Pacific Northwest	4,188	13.2	152,074	0.2
Pacific Southwest	5,131	-3.9	282,919	-0.7
Total United States	81,602	9.1	4,016,642	-0.1

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

Week Ended	2016	Week Ended	2015	% Inc. (16/15)	52 Weeks Ended	2016	% Inc. (16/15)
Nov 26	68,207	Nov 28	70,149	-2.8	Nov 26	4,004,392	-0.6
Dec 03	73,146	Dec 05	74,491	-1.8	Dec 03	4,003,048	-0.6
Dec 10	79,065	Dec 12	72,279	9.4	Dec 10	4,009,833	-0.3
Dec 17	81,602	Dec 19	74,793	9.1	Dec 17	4,016,642	-0.1
Dec 17	3,946,462	Dec 19	3,949,207	-0.1	YEAR TO DATE, FIRST 51 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2016	Week Ended	2015	Week Ended	2014
Nov 26	176	Nov 28	161	Nov 29	190
Dec 03	178	Dec 05	170	Dec 06	195
Dec 10	187	Dec 12	168	Dec 13	194
Dec 17	194	Dec 19	169	Dec 20	197

\* 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		
	17-Dec 2016 GWh Output	19-Dec 2015 GWh Output	% Increase Over Corresponding Week of 2015	17-Dec 2016 GWh Output	19-Dec 2015 GWh Output	% Increase Over Corresponding Week of 2015	17-Dec 2016 GWh Output	19-Dec 2015 GWh Output	% Increase Over Corresponding Week of 2015
<b>New England</b>	2,614	2,304	13.5%	<b>121,405</b>	<b>124,673</b>	<b>-2.6%</b>	123,626	127,010	-2.7%
<b>Mid-Atlantic</b>	9,018	7,767	16.1%	<b>427,038</b>	<b>436,783</b>	<b>-2.2%</b>	434,612	444,885	-2.3%
<b>Central Industrial</b>	14,476	12,622	14.7%	<b>663,395</b>	<b>662,438</b>	<b>0.1%</b>	675,272	674,807	0.1%
<b>West Central</b>	6,981	6,326	10.4%	<b>324,160</b>	<b>323,903</b>	<b>0.1%</b>	330,093	329,809	0.1%
<b>Southeast</b>	20,890	18,643	12.1%	<b>1,010,880</b>	<b>1,003,811</b>	<b>0.7%</b>	1,027,838	1,021,591	0.6%
<b>South Central</b>	12,612	12,166	3.7%	<b>703,416</b>	<b>697,878</b>	<b>0.8%</b>	714,766	709,625	0.7%
<b>Rocky Mountain</b>	5,692	5,923	-3.9%	<b>269,890</b>	<b>271,264</b>	<b>-0.5%</b>	275,442	276,699	-0.5%
<b>Pacific Northwest</b>	4,188	3,701	13.2%	<b>148,380</b>	<b>148,457</b>	<b>-0.1%</b>	152,074	151,824	0.2%
<b>Pacific Southwest</b>	5,131	5,341	-3.9%	<b>277,898</b>	<b>280,003</b>	<b>-0.8%</b>	282,919	284,855	-0.7%
<b>Total United States <sup>1/</sup></b>	<b>81,602</b>	<b>74,793</b>	<b>9.1%</b>	<b>3,946,462</b>	<b>3,949,210</b>	<b>-0.1%</b>	4,016,642	4,021,105	-0.1%
<b>Coal Regions Only <sup>2/</sup></b>	69,669	63,447	9.8%	<b>3,398,779</b>	<b>3,396,077</b>	<b>0.1%</b>	3,458,023	3,457,416	0.0%

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.

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

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

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

AMERICAN IRON AND STEEL INSTITUTE  
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December 19, 2016

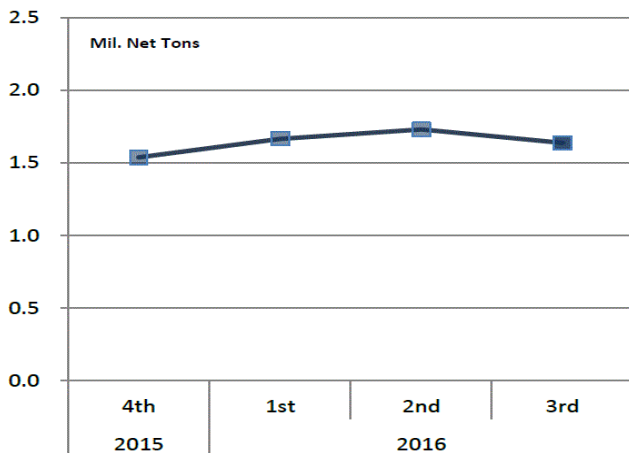
**ESTIMATED WEEKLY RAW STEEL \* PRODUCTION**

<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 Dec. 17</u>	<u>Dec. 10</u>	
<b><u>Week Ending</u></b>				North East	209	204
				Great Lakes	664	666
December 17, 2016	1,694	1.2	71.4	Midwest	167	160
December 17, 2015	1,485	14.1	62.1	Southern	581	576
December 10, 2016	1,674	2.4	70.6	Western	<u>73</u>	<u>68</u>
				Total	1,694	1,674
<b><u>Year-to-Date +</u></b>						
December 17, 2016	84,744	-0.8	70.8			
December 17, 2015	85,450	-	70.1			

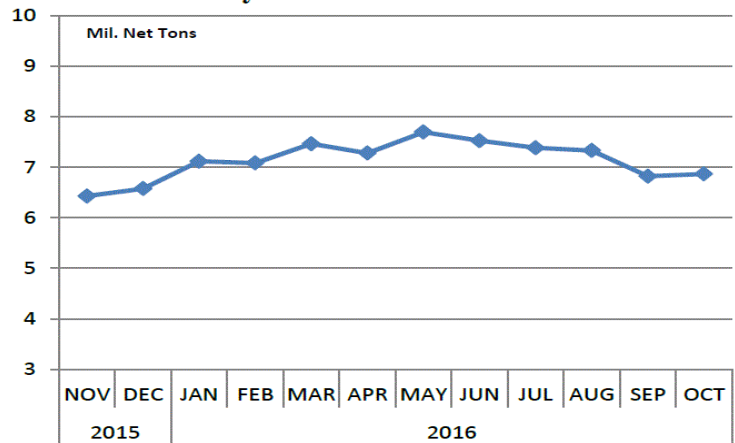
\*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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



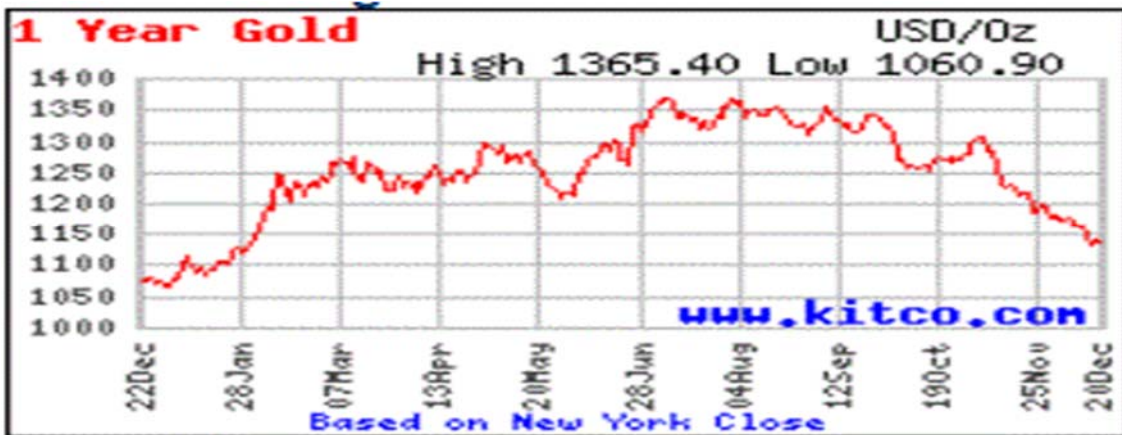
**Monthly Raw Steel Production**



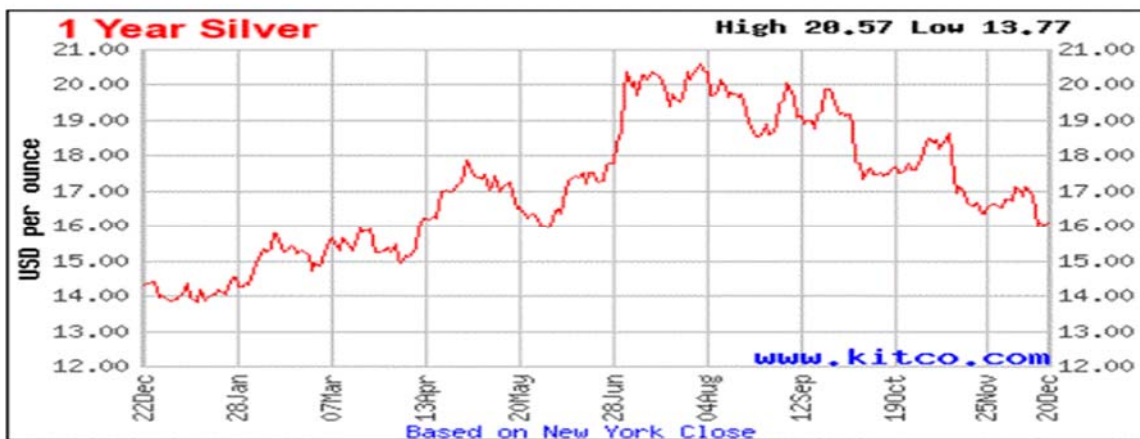
\*Steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for castings and strand or pressure cast blooms, slabs or other product forms. \*\* Based on tonnage capability to produce raw steel for a sustained full order book.



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

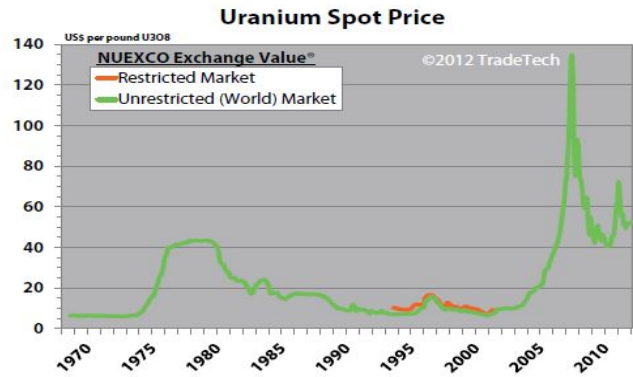
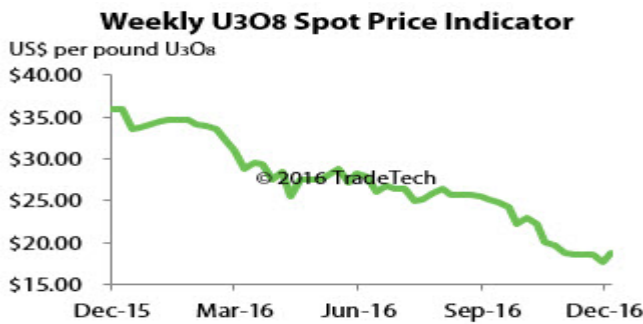


Source: Kitco website - [www.kitco.com/connecting.html](http://www.kitco.com/connecting.html)



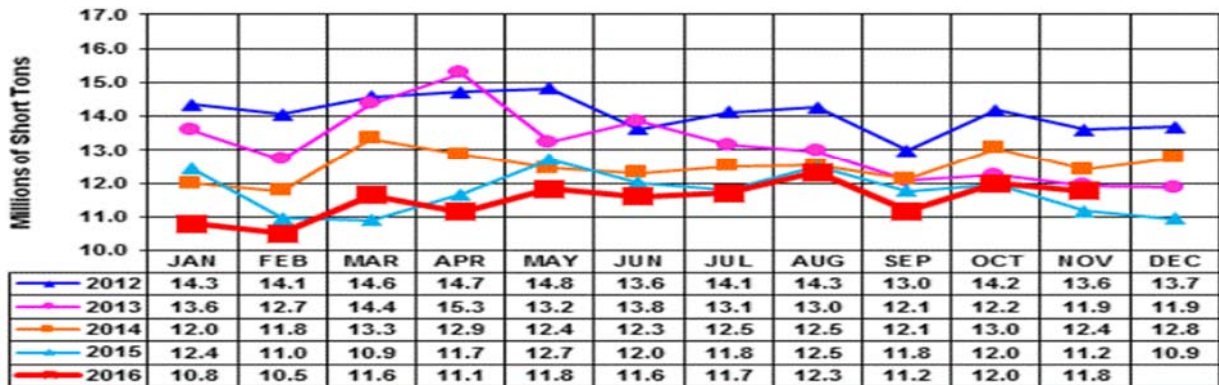
Source: Kitco website - [www.kitco.com/connecting.html](http://www.kitco.com/connecting.html)

### Trade Tech's Uranium Price Indicators



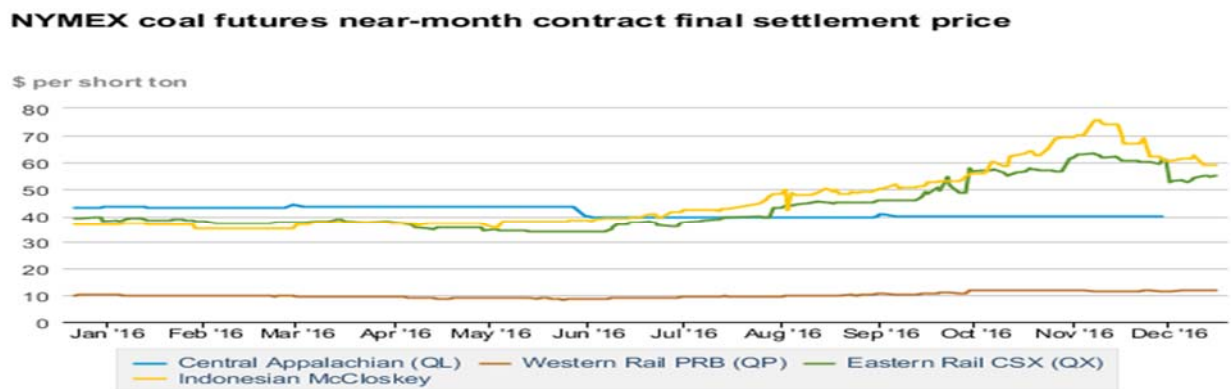
Source: Trade Tech, Uranium Info Website – [www.uranium.info](http://www.uranium.info)

### 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 change
	11/18/16	11/25/16	12/02/16	12/09/16	12/16/16	
Central Appalachia 12,500 Btu, 1.2 SO <sub>2</sub>	\$45.05	\$45.05	\$45.05	\$48.05	\$48.05	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO <sub>2</sub>	\$42.25	\$42.25	\$42.25	\$45.75	\$45.75	\$0.00
Illinois Basin 11,800 Btu, 5.0 SO <sub>2</sub>	\$33.25	\$33.25	\$33.25	\$34.50	\$34.50	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO <sub>2</sub>	\$9.00	\$9.00	\$9.00	\$11.00	\$11.00	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO <sub>2</sub>	\$39.40	\$39.40	\$39.40	\$40.90	\$42.00	\$1.10

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

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



Source: U.S. Energy Information Administration

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

### Temperature -- heating & cooling degree days (week ending Dec 08)

Region	HDD Current	HDD deviation from:		CDD Current	CDD deviation from:	
		normal	last year		normal	last year
New England	198	-13	28	0	0	0
Middle Atlantic	180	-21	11	0	0	0
E N Central	224	-6	32	0	0	0
W N Central	246	-11	62	0	0	0
South Atlantic	130	-11	0	15	6	4
E S Central	143	-1	6	0	-1	0
W S Central	114	8	22	0	-3	0
Mountain	240	26	71	0	0	0
Pacific	126	13	51	0	-1	0
United States	179	-2	32	3	1	1

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 - 3rd Quarter	2015 Year to Date - 3rd Quarter	Percent Change
Aluminum, secondary (000 Mt.)	673.0	556.0	21%
Cement (Mil. Mt.)	62.3	61.1	2%
Copper (000 Mt.)	1,080.0	1,040.0	4%
Gold (Mt.)	157.0	157.0	0%
Gypsum (Mil. Mt.)	12.4	11.3	10%
Iron Ore (Mil. Mt.)	29.3	32.8	-11%
Lead (000 Mt.)	260.0	277.0	-6%
Molybdenum (000 Mt.)	26.1	40.1	-35%
Phosphate rock (Mil. Mt.)	20.2	20.8	-3%
Sand & gravel, construction (Mil. Mt.)	732.0	703.0	4%
Silver (Mt.)	853.0	814.0	5%
Soda ash (Mil. Mt.)	8.8	8.7	1%
Stone, crushed (Mil. Mt.)	1,050.0	990.0	6%
Zinc (000 Mt.)	597.0	604.0	-1%

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)



eia 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	September 2016		September 2015		% Change of Stocks	August 2016		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	5,487	95	6,924	102	-20.8%	5,291	98	3.7%
	Subbituminous	136	97	758	201	-82.0%	153	131	-10.7%
South	Bituminous	27,339	88	31,931	89	-14.4%	27,916	84	-2.1%
	Subbituminous	5,631	68	5,586	62	0.8%	5,899	67	-4.5%
Midwest	Bituminous	16,549	99	15,023	82	10.2%	16,831	99	-1.7%
	Subbituminous	40,862	84	38,090	69	7.3%	40,679	82	0.4%
West	Bituminous	5,885	84	5,378	73	9.4%	5,715	79	3.0%
	Subbituminous	30,830	95	32,155	90	-4.1%	31,529	92	-2.2%
U.S. Total	Bituminous	55,260	92	59,256	87	-6.7%	55,753	89	-0.9%
	Subbituminous	77,459	87	76,588	77	1.1%	78,259	84	-1.0%

Source: U.S. Energy Information Administration

Source: Energy Information Administration, *Electricity Monthly Update*

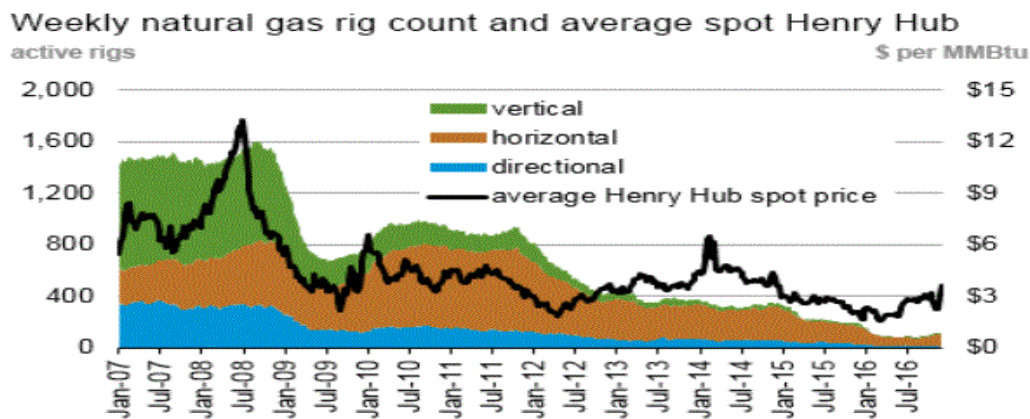
### EIA Working Natural Gas Underground Storage

#### Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2016-12-02	2016-11-25	change
East	899	912	-13
Midwest	1,112	1,130	-18
Mountain	256	258	-2
Pacific	323	328	-5
South Central	1,363	1,367	-4
<b>Total</b>	<b>3,953</b>	<b>3,995</b>	<b>-42</b>

Source: U.S. Energy Information Administration

### 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		
	December 2016	January 2017	change	December 2016	January 2017	change
Bakken	947	967	20	1,318	1,385	67
Eagle Ford	1,315	1,341	26	3,769	3,847	78
Haynesville	30	30	-	6,157	6,273	116
Marcellus	69	69	-	12,305	12,468	163
Niobrara	1,182	1,218	36	3,811	3,922	111
Permian	629	634	5	1,057	1,062	5
Utica	127	118	(9)	8,581	8,638	57
<b>Rig-weighted average</b>	<b>654</b>	<b>664</b>	<b>10</b>	<b>3,172</b>	<b>3,221</b>	<b>49</b>

Source: Energy Information Administration, *Drilling Productivity Report*