
National Mining Association

Weekly Statistical Summary

December 16, 2016 Edition
(Data for Week Ending December 10, 2016)

Prepared by
National Mining Association



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NMA Weekly Statistical Summary

Vol. 54, No. 50
Dated 12/16/16

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	12/10/16	12/12/15	% Chng	12/10/16	12/10/15	% Chng
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	15,818	16,153	-2.1%	695,372	857,348	-18.9%
52 Weeks Ended	730,442	909,830	-19.7%			
AAR Coal Rail Cars Loaded:	87,929	92,934	-5.4%	3,873,629	4,922,900	-21.3%
Coal Production Month Ended - Nov.						
	Nov 16/15		% Chng	Jan - Nov 16/15		% Chng
	70,837	68,574	3.3%	681,973	833,977	-18.2%
DOC Bituminous Coal Trade (000 Tons)						
Exports:						
	October 16/15		% Chng	Jan - Oct 16/15		% Chng
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%
Total	4,867	5,747	-15.3%	45,832	64,435	-28.9%
Imports:						
	768	854	-10.1%	8,491	9,468	-10.3%
EEI Electric Total Output (Mil. Kwh)						
	Week Ended		% Chng	Cumulative Jan 1 to		% Chng
	12/10/16	12/12/15		12/10/16	12/12/15	
EEI Coal Region Output (Mil. Kwh)	79,065	72,279	9.4%	3,864,860	3,874,415	-0.2%
	67,576	61,534	9.8%	3,329,110	3,332,630	-0.1%
AISI Raw Steel Output (000 Tons)						
	1,674	1,485	12.7%	83,050	83,966	-1.1%

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)	
	12/09/16	12/02/16	% Chng	Wed.	12/07/16
Central App, 12,500 Btu, 1.2 SO ₂	\$48.05	\$45.05	6.7%	Henry Hub	3.76
Northern App, 13,000 Btu, < 3.0 SO ₂	45.75	42.25	8.3%	New York	4.13
Illinois Basin, 11,800, 5.0 SO ₂	34.50	33.25	3.8%	Chicago	3.85
Powder River Basin, 8,800 Btu 0.8 SO ₂	11.00	9.00	22.2%	Cal.Comp.Avg.	3.72
Uinta Basin, 11,700 Btu, 0.8 SO ₂	40.90	39.40	3.8%		

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									
	Week Ended			Year to Date			52 Weeks Ended		
Coal-Producing Region & State	12/10/2016	12/3/2016	12/12/2015	12/10/2016	12/10/2015	% Change	12/10/2016	12/12/2015	% Change
(thousand short tons)	(week 50)	(week 49)	(week 50)						
Alabama	180	168	184	8,364	12,742	-34.4	8,763	13,554	-35.3
Alaska	25	28	24	1,000	1,118	-10.6	1,052	1,186	-11.3
Arizona	109	108	107	5,139	6,542	-21.4	5,372	6,964	-22.9
Arkansas	1	1	1	41	88	-53.7	44	95	-53.7
Colorado	215	209	254	10,847	18,257	-40.6	11,399	19,394	-41.2
Illinois	961	937	934	42,605	53,939	-21.0	44,632	57,114	-21.9
Indiana	598	620	566	27,701	32,908	-15.8	28,931	34,946	-17.2
Kansas	2	4	4	62	189	-67.3	71	199	-64.3
Kentucky Total	915	951	1,008	41,306	58,964	-29.9	43,494	62,690	-30.6
Eastern (KY)	363	375	449	16,318	27,010	-39.6	17,293	28,745	-39.8
Western (KY)	552	575	559	24,988	31,954	-21.8	26,202	33,944	-22.8
Louisiana	62	67	60	2,687	3,292	-18.4	2,817	3,520	-20.0
Maryland	31	31	33	1,403	1,840	-23.8	1,475	1,941	-24.0
Mississippi	57	66	48	2,755	3,025	-8.9	2,860	3,176	-9.9
Missouri	2	3	1	200	135	47.9	203	148	37.2
Montana	697	671	744	30,024	40,041	-25.0	31,639	42,666	-25.8
New Mexico	349	402	383	13,796	18,740	-26.4	14,627	19,768	-26.0
North Dakota	688	640	542	27,549	27,473	0.3	28,726	29,040	-1.1
Ohio	296	327	288	13,341	16,335	-18.3	13,967	17,354	-19.5
Oklahoma	14	15	14	626	746	-16.0	657	789	-16.7
Pennsylvania Total	928	942	859	42,611	48,765	-12.6	44,476	51,911	-14.3
Anthracite (PA)	40	46	42	1,677	2,038	-17.7	1,769	2,148	-17.6
Bituminous (PA)	888	896	817	40,933	46,728	-12.4	42,707	49,763	-14.2
Tennessee	18	21	17	735	857	-14.1	772	907	-14.9
Texas	960	1,031	736	39,138	34,114	14.7	40,735	36,406	11.9
Utah	305	314	267	13,229	13,765	-3.9	13,808	14,682	-6.0
Virginia	287	299	258	12,834	13,687	-6.2	13,395	14,450	-7.3
West Virginia Total	1,742	1,692	1,672	76,508	91,534	-16.4	80,138	97,017	-17.4
Northern (WV)	999	998	934	42,265	45,495	-7.1	44,294	48,080	-7.9
Southern (WV)	743	694	738	34,242	46,039	-25.6	35,844	48,938	-26.8
Wyoming	6,376	6,770	7,147	280,873	358,254	-21.6	296,390	379,911	-22.0
Appalachian Total	3,845	3,854	3,761	172,113	212,770	-19.1	180,278	225,880	-20.2
Interior Total	3,210	3,319	2,924	140,803	160,390	-12.2	147,151	170,338	-13.6
Western Total	8,763	9,143	9,469	382,456	484,189	-21.0	403,013	513,612	-21.5
East of Mississippi River	6,013	6,052	5,868	270,163	334,595	-19.3	282,903	355,061	-20.3
West of Mississippi River	9,805	10,265	10,285	425,209	522,753	-18.7	447,539	554,769	-19.3
Bituminous and Lignite	15,778	16,270	16,111	693,695	855,310	-18.9	728,673	907,682	-19.7
Anthracite	40	46	42	1,677	2,038	-17.7	1,769	2,148	-17.6
U.S. Total	15,818	16,317	16,153	695,372	857,348	-18.9	730,442	909,830	-19.7
Railroad Cars Loaded	87,929	89,753	92,934	3,873,629	4,922,900	-21.3	4,078,546	5,233,198	-22.1

Source: Energy Information Administration

EEI Prepared by EEI's Business Information Group

WEEKLY ELECTRIC OUTPUT

Volume 84 No. 50

OUTPUT FOR WEEK ENDED - Dec 10, 2016

Dec 14, 2016

The net available amount of electric energy distributed by the Total Electric Utility Industry+ for the week ended Saturday, Dec 10, 2016 was **79,065** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **187** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended December 10		52 Weeks Ended December 10	
	GWh Output	% Increase Over Corresponding Week of 2015	GWh Output	% Increase Over Corresponding Period of 2015
New England	2,437	5.7	123,316	-3.1
Mid-Atlantic	8,271	6.1	433,361	-2.8
Central Industrial	13,698	7.9	673,418	-0.4
West Central	6,692	9.7	329,438	-0.1
Southeast	19,757	11.6	1,025,591	0.3
South Central	13,385	13.9	714,321	0.7
Rocky Mountain	5,773	5.1	275,673	-0.3
Pacific Northwest	3,884	18.7	151,586	0.0
Pacific Southwest	5,168	0.0	283,129	-0.6
Total United States	79,065	9.4	4,009,833	-0.3

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2016	Week Ended	2015	% Inc. (16/15)	52 Weeks Ended	2016	% Inc. (16/15)
Nov 19	68,835	Nov 21	70,133	-1.9	Nov 19	4,006,335	-0.6
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 10	3,864,860	Dec 12	3,874,415	-0.2	YEAR TO DATE, FIRST 50 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2016	Week Ended	2015	Week Ended	2014
Nov 19	180	Nov 21	161	Nov 22	214
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

* 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		
	10-Dec 2016 GWh Output	12-Dec 2015 GWh Output	% Increase Over Corresponding Week of 2015	10-Dec 2016 GWh Output	12-Dec 2015 GWh Output	% Increase Over Corresponding Week of 2015	10-Dec 2016 GWh Output	12-Dec 2015 GWh Output	% Increase Over Corresponding Week of 2015
New England	2,437	2,306	5.7%	118,791	122,369	-2.9%	123,316	127,220	-3.1%
Mid-Atlantic	8,271	7,797	6.1%	418,020	429,016	-2.6%	433,361	445,745	-2.8%
Central Industrial	13,698	12,695	7.9%	648,919	649,816	-0.1%	673,418	675,873	-0.4%
West Central	6,692	6,100	9.7%	317,179	317,577	-0.1%	329,438	329,921	-0.1%
Southeast	19,757	17,698	11.6%	989,990	985,168	0.5%	1,025,591	1,022,713	0.3%
South Central	13,385	11,752	13.9%	690,804	685,712	0.7%	714,321	709,495	0.7%
Rocky Mountain	5,773	5,492	5.1%	264,198	265,341	-0.4%	275,673	276,465	-0.3%
Pacific Northwest	3,884	3,273	18.7%	144,192	144,756	-0.4%	151,586	151,637	0.0%
Pacific Southwest	5,168	5,166	0.0%	272,767	274,662	-0.7%	283,129	284,713	-0.6%
Total United States ^{1/}	<u>79,065</u>	<u>72,279</u>	9.4%	<u>3,864,860</u>	<u>3,874,417</u>	-0.2%	4,009,833	4,023,782	-0.3%
Coal Regions Only ^{2/}	67,576	61,534	9.8%	3,329,110	3,332,630	-0.1%	3,451,802	3,460,212	-0.2%

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 12, 2016

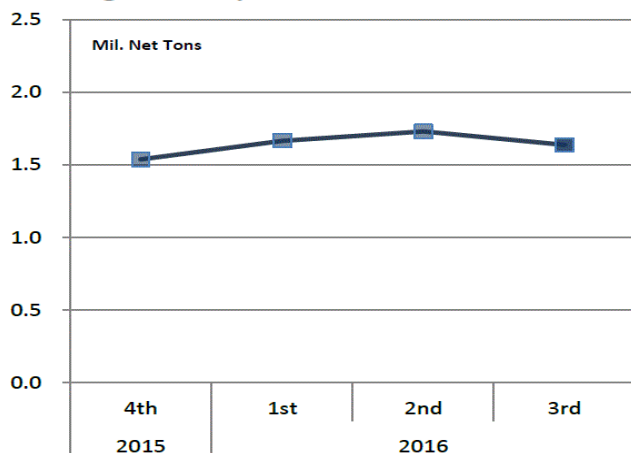
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<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</u>		
				<u>Dec. 10</u>	<u>Dec. 3</u>	
<u>Week Ending</u>				North East	204	199
				Great Lakes	666	652
December 10, 2016	1,674	2.4	70.6	Midwest	160	154
December 10, 2015	1,485	12.7	62.1	Southern	576	563
December 3, 2016	1,635	2.3	68.9	Western	68	67
				Total	1,674	1,635
<u>Year-to-Date +</u>						
December 10, 2016	83,050	-1.1	70.8			
December 10, 2015	83,966	-	70.1			

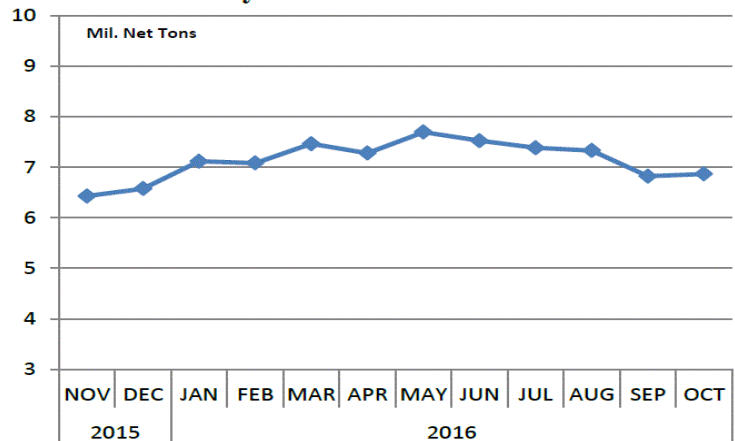
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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

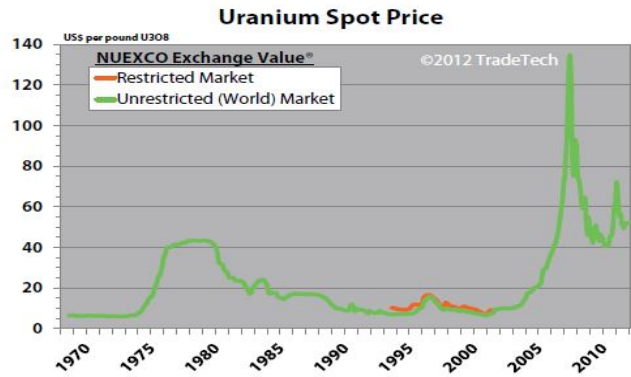
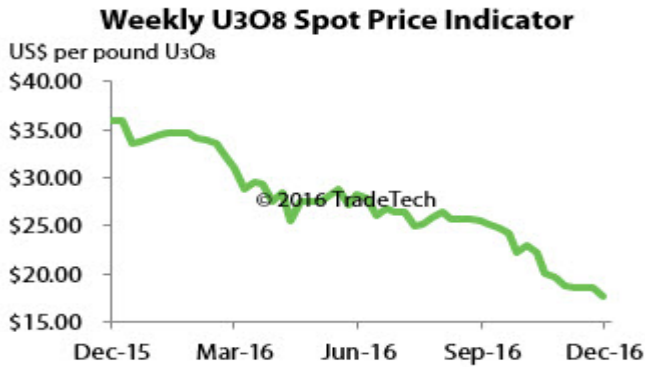


Source: Kitco website - www.kitco.com/connecting.html



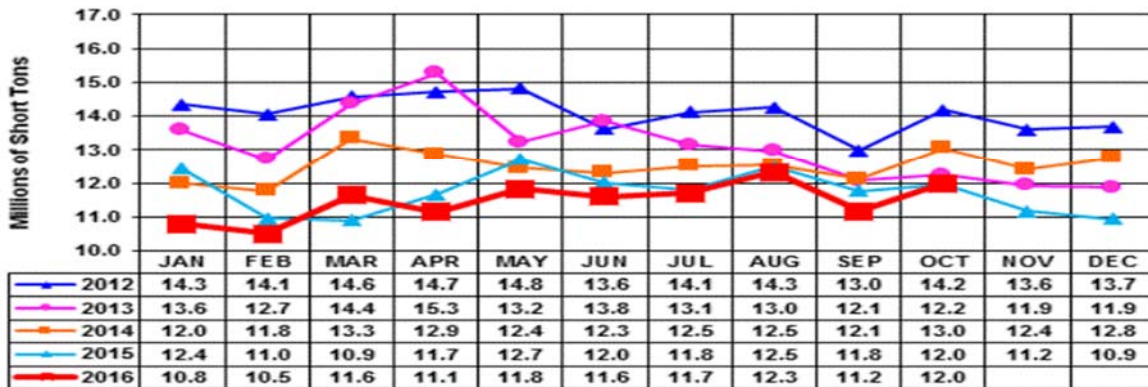
Source: Kitco website - www.kitco.com/connecting.html

Trade Tech's Uranium Price Indicators



Source: Trade Tech, Uranium Info Website – www.uranium.info

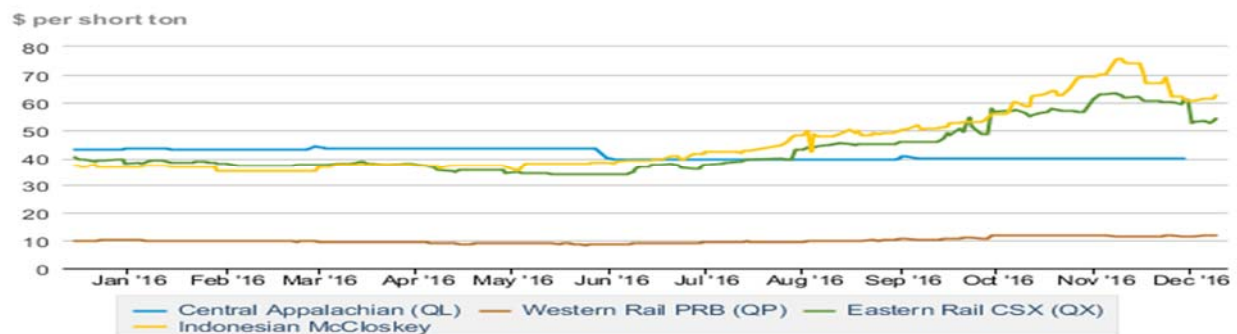
Coal and Coke Monthly Indicator for Internal U.S. Waterways



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

NYMEX Coal Futures Near-month Contract Final Settlement Price

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
	11/11/16	11/18/16	11/25/16	12/02/16	12/09/16	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$45.05	\$45.05	\$45.05	\$45.05	\$48.05	\$3.00
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$42.25	\$42.25	\$42.25	\$42.25	\$45.75	\$3.50
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$33.25	\$33.25	\$33.25	\$33.25	\$34.50	\$1.25
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$9.00	\$9.00	\$9.00	\$9.00	\$11.00	\$2.00
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$39.40	\$39.40	\$39.40	\$39.40	\$40.90	\$1.50

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 01)

Region	HDD Current	HDD deviation from:		CDD Current	CDD deviation from:	
		normal	last year		normal	last year
New England	159	-34	-7	0	0	0
Middle Atlantic	142	-43	-3	0	0	0
E N Central	165	-47	-7	0	0	0
W N Central	181	-57	-17	0	0	0
South Atlantic	89	-38	13	16	6	-1
E S Central	105	-27	42	1	0	0
W S Central	64	-32	-29	9	5	0
Mountain	199	-4	-51	0	0	0
Pacific	118	13	-19	0	-1	0
United States	137	-30	-13	4	2	0

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	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*

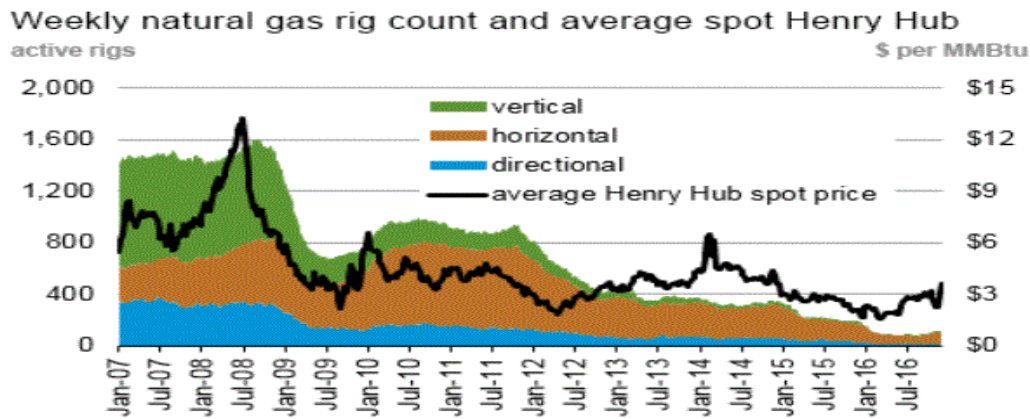
EIA Working Natural Gas Underground Storage

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
Total	3,953	3,995	-42

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
Rig-weighted average	654	664	10	3,172	3,221	49

Source: Energy Information Administration, *Drilling Productivity Report*