
National Mining Association

Weekly Statistical Summary

October 21, 2016 Edition
(Data for Week Ending October 15, 2016)

Prepared by
National Mining Association



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NMA Weekly Statistical Summary

Vol. 54, No. 42
Dated 10/21/16

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	10/15/16	10/17/15	% Chng	10/15/16	10/15/15	% Chng
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	16,030	16,655	-3.8%	573,101	726,546	-21.1%
52 Weeks Ended	738,869	935,833	-21.0%			
AAR Coal Rail Cars Loaded:	87,729	90,195	-2.7%	3,148,927	4,170,149	-24.5%
Coal Production Month Ended - Sept.	Sep 16/15		% Chng	Jan - Sep 16/15		% Chng
	68,229	77,778	-12.3%	538,118	689,741	-22.0%

DOC Bituminous Coal Trade (000 Tons)

Exports:	August 16/15		% Chng	Jan - August 16/15		% Chng
Metallurgical	3,823	3,944	-3.1%	26,463	33,123	-20.1%
Steam *	1,158	2,418	-52.1%	9,865	19,875	-50.4%
Lignite	6	5	20.0%	46	41	12.2%
Anthracite	21	43	-51.2%	314	258	21.7%
Total	5,008	6,410	-21.9%	36,688	53,297	-31.2%
Imports:	943	970	-2.8%	6,922	7,710	-10.2%

	Week Ended			Cumulative Jan 1 to		
	10/15/16	10/17/15	% Chng	10/15/16	10/17/15	% Chng
EI Electric Total Output (Mil. Kwh)	70,015	71,651	-2.3%	3,296,211	3,311,679	-0.5%
EI Coal Region Output (Mil. Kwh)	59,953	60,794	-1.4%	2,842,634	2,853,120	-0.4%
AISI Raw Steel Output (000 Tons)	1,590	1,629	-2.4%	70,353	71,693	-1.9%

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

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	10/14/16	10/07/16	% Chng	Wed.	10/12/16
Central App, 12,500 Btu, 1.2 SO ₂	\$45.05	\$39.55	13.9%	Henry Hub	3.17
Northern App, 13,000 Btu, < 3.0 SO ₂	42.25	40.75	3.7%	New York	1.04
Illinois Basin, 11,800, 5.0 SO ₂	33.25	33.25	0.0%	Chicago	3.15
Powder River Basin, 8,800 Btu 0.8 SO ₂	9.00	8.25	9.1%	Cal.Comp.Avg.	3.02
Uinta Basin, 11,700 Btu, 0.8 SO ₂	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		
	10/15/2016 (week 42)	10/8/2016 (week 41)	10/17/2015 (week 42)	10/15/2016	10/15/2015	% Change	10/15/2016	10/17/2015	% Change
Alabama	173	188	189	7,410	11,255	-34.2	9,295	14,552	-36.1
Alaska	26	28	25	890	921	-3.4	1,139	1,189	-4.2
Arizona	105	108	111	4,226	5,673	-25.5	5,327	7,376	-27.8
Arkansas	1	1	1	48	77	-37.4	62	106	-41.5
Colorado	220	225	262	9,514	16,200	-41.3	12,120	20,825	-41.8
Illinois	945	1,020	963	36,461	46,378	-21.4	46,041	59,080	-22.1
Indiana	595	611	584	23,051	28,321	-18.6	28,861	36,506	-20.9
Kansas	3	3	4	87	154	-43.5	131	196	-33.2
Kentucky Total	940	976	1,039	35,894	50,781	-29.3	46,236	65,766	-29.7
Eastern (KY)	381	398	463	14,761	23,355	-36.8	19,367	30,354	-36.2
Western (KY)	559	577	576	21,132	27,426	-22.9	26,869	35,412	-24.1
Louisiana	68	69	62	2,436	2,809	-13.3	3,049	3,724	-18.1
Maryland	30	32	34	1,166	1,563	-25.4	1,508	1,962	-23.1
Mississippi	61	61	50	2,262	2,633	-14.1	2,759	3,235	-14.7
Missouri	2	2	1	140	125	12.0	153	179	-14.5
Montana	684	717	767	24,586	34,015	-27.7	32,220	44,543	-27.7
New Mexico	402	427	395	13,251	15,638	-15.3	17,181	19,679	-12.7
North Dakota	648	721	559	22,713	23,083	-1.6	28,275	29,277	-3.4
Ohio	308	315	297	11,433	14,000	-18.3	14,391	18,090	-20.4
Oklahoma	15	15	15	544	631	-13.9	689	803	-14.2
Pennsylvania Total	926	950	886	35,301	42,102	-16.2	44,119	54,745	-19.4
Anthracite (PA)	46	48	44	1,549	1,695	-8.6	1,984	2,127	-6.7
Bituminous (PA)	880	902	842	33,752	40,408	-16.5	42,135	52,617	-19.9
Tennessee	19	20	17	655	721	-9.1	827	923	-10.4
Texas	970	996	759	30,993	28,154	10.1	38,544	37,265	3.4
Utah	299	310	275	11,037	11,603	-4.9	13,775	15,276	-9.8
Virginia	285	298	266	10,409	11,360	-8.4	13,061	14,381	-9.2
West Virginia Total	1,678	1,789	1,724	62,221	77,988	-20.2	79,383	99,868	-20.5
Northern (WV)	973	1,033	963	33,660	37,927	-11.3	43,248	48,108	-10.1
Southern (WV)	705	756	761	28,561	40,061	-28.7	36,135	51,760	-30.2
Wyoming	6,623	6,689	7,370	226,375	300,361	-24.6	299,723	386,287	-22.4
Appalachian Total	3,801	3,990	3,878	143,356	182,344	-21.4	181,951	234,875	-22.5
Interior Total	3,221	3,355	3,015	117,154	136,708	-14.3	147,158	176,506	-16.6
Western Total	9,008	9,223	9,763	312,590	407,494	-23.3	409,760	524,452	-21.9
East of Mississippi River	5,961	6,258	6,050	226,262	287,102	-21.2	286,480	369,107	-22.4
West of Mississippi River	10,069	10,310	10,605	346,838	439,444	-21.1	452,388	566,725	-20.2
Bituminous and Lignite	15,984	16,520	16,612	571,552	724,851	-21.1	736,885	933,705	-21.1
Anthracite	46	48	44	1,549	1,695	-8.6	1,984	2,127	-6.7
U.S. Total	16,030	16,568	16,655	573,101	726,546	-21.1	738,869	935,833	-21.0
Railroad Cars Loaded	87,729	90,195	95,822	3,148,927	4,170,149	-24.5	4,105,780	5,395,821	-23.9

Source: Energy Information Administration



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OUTPUT FOR WEEK ENDED - Oct 15, 2016

Oct 19, 2016

The net available amount of electric energy distributed by the Total Electric Utility Industry+ for the week ended Saturday, Oct 15, 2016 was 70,015 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 October 15		52 Weeks Ended October 15	
	GWh Output	% Increase Over Corresponding Week of 2015	GWh Output	% Increase Over Corresponding Period of 2015
New England	2,073	-1.6	123,437	-3.7
Mid-Atlantic	7,144	-1.3	432,714	-3.8
Central Industrial	10,979	-2.6	673,524	-1.5
West Central	5,710	-1.7	329,172	-1.0
Southeast	17,704	-0.6	1,023,610	-0.5
South Central	13,175	-0.2	709,167	-0.3
Rocky Mountain	5,241	-4.2	276,650	0.0
Pacific Northwest	2,703	3.3	152,430	0.3
Pacific Southwest	5,286	-13.8	283,216	-0.4
Total United States	70,015	-2.3	4,003,920	-1.1

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2016	Week Ended	2015	% Inc. (16/15)	52 Weeks Ended	2016	% Inc. (16/15)
Sep 24	81,953	Sep 26	75,907	8.0	Sep 24	4,004,625	-1.0
Oct 01	72,986	Oct 03	73,695	-1.0	Oct 01	4,003,916	-1.0
Oct 08	72,741	Oct 10	71,102	2.3	Oct 08	4,005,556	-1.0
Oct 15	70,015	Oct 17	71,651	-2.3	Oct 15	4,003,920	-1.1
Oct 15	3,296,211	Oct 17	3,311,679	-0.5	YEAR TO DATE, FIRST 42 WEEKS		

WEEKLY ELECTRIC OUTPUT INDEX--TOTAL U.S.*
SEASONALLY ADJUSTED 1982 = 100

Week Ended	2016	Week Ended	2015	Week Ended	2014
Sep 24	197	Sep 26	178	Sep 27	168
Oct 01	180	Oct 03	175	Oct 04	174
Oct 08	185	Oct 10	161	Oct 11	184
Oct 15	179	Oct 17	165	Oct 18	179

* Excludes Alaska and Hawaii.

+ Includes investor-owned companies, cooperatives and government-owned utilities.

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EEI WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION
(48 CONTIGUOUS STATES)

	Week Ended			NMA CUMULATIVE JANUARY WEEK ONE TO			52 Weeks Ended		
	15-Oct 2016 GWh Output	17-Oct 2015 GWh Output	% Increase Over Corresponding Week of 2015	15-Oct 2016 GWh Output	17-Oct 2015 GWh Output	% Increase Over Corresponding Week of 2015	15-Oct 2016 GWh Output	17-Oct 2015 GWh Output	% Increase Over Corresponding Week of 2015
New England	2,073	2,108	-1.7%	101,084	104,541	-3.3%	123,437	128,178	-3.7%
Mid-Atlantic	7,144	7,241	-1.3%	356,799	368,442	-3.2%	432,714	449,585	-3.8%
Central Industrial	10,979	11,268	-2.6%	552,648	553,439	-0.1%	673,524	684,105	-1.5%
West Central	5,710	5,811	-1.7%	269,947	270,611	-0.2%	329,172	332,414	-1.0%
Southeast	17,704	17,803	-0.6%	847,561	844,721	0.3%	1,023,610	1,028,639	-0.5%
South Central	13,175	13,199	-0.2%	591,849	591,909	0.0%	709,167	710,978	-0.3%
Rocky Mountain	5,241	5,472	-4.2%	223,830	223,998	-0.1%	276,650	276,621	0.0%
Pacific Northwest	2,703	2,617	3.3%	120,300	120,020	0.2%	152,430	152,029	0.3%
Pacific Southwest	5,286	6,132	-13.8%	232,193	234,001	-0.8%	283,216	284,214	-0.4%
Total United States ^{1/}	<u>70,015</u>	<u>71,651</u>	-2.3%	<u>3,296,211</u>	<u>3,311,682</u>	<u>-0.5%</u>	<u>4,003,920</u>	<u>4,046,763</u>	-1.1%
Coal Regions Only ^{2/}	59,953	60,794	-1.4%	2,842,634	2,853,120	-0.4%	3,444,837	3,482,342	-1.1%

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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October 17, 2016

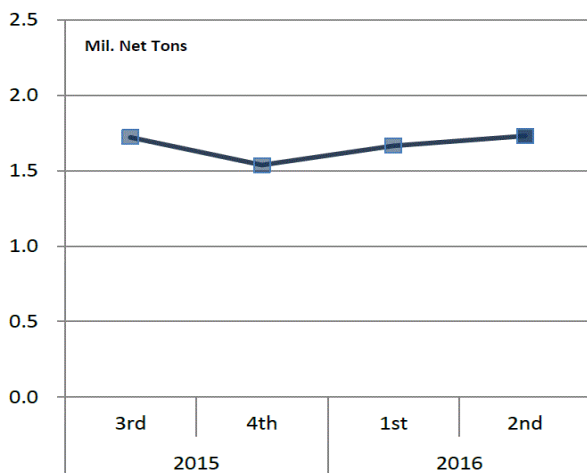
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<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>Oct. 15</u>	<u>Oct. 8</u>	
<u>Week Ending</u>				North East	190	187
				Great Lakes	656	666
October 15, 2016	1,590	0.3	67.0	Midwest	162	167
October 15, 2015	1,629	-2.4	68.1	Southern	511	495
October 8, 2016	1,585	-1.6	66.8	Western	<u>71</u>	<u>70</u>
				Total	1,590	1,585
<u>Year-to-Date +</u>						
October 15, 2016	70,353	-1.9	71.6			
October 15, 2015	71,693	-	71.7			

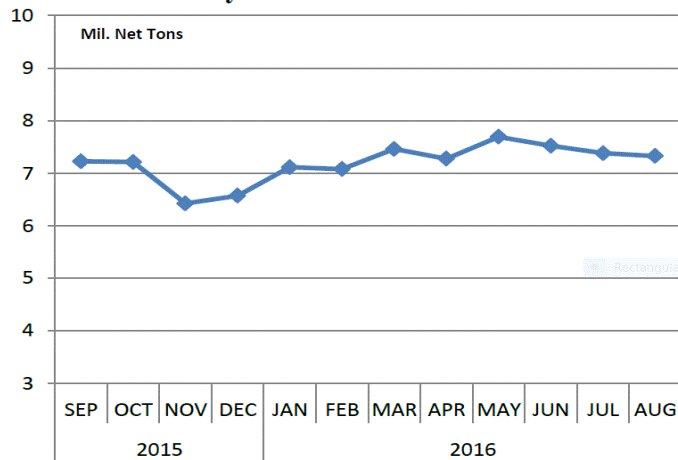
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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

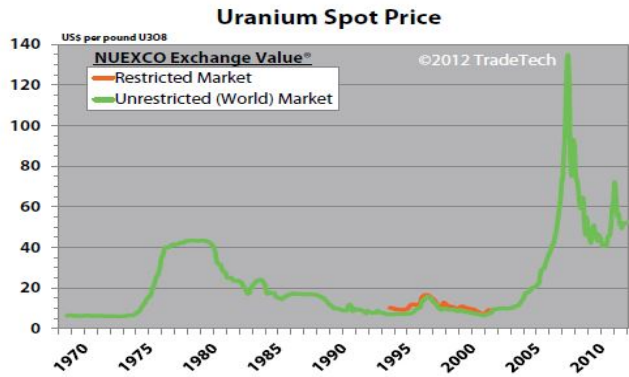
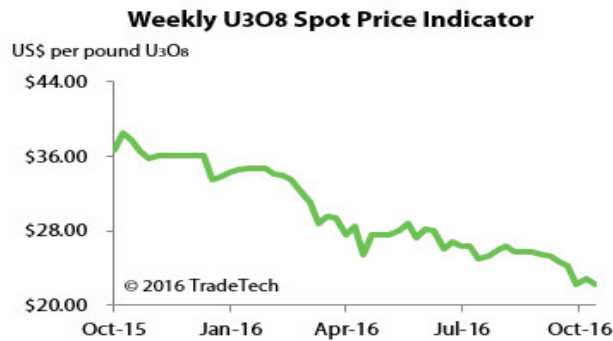


Source: Kitco website - www.kitco.com/connecting.html



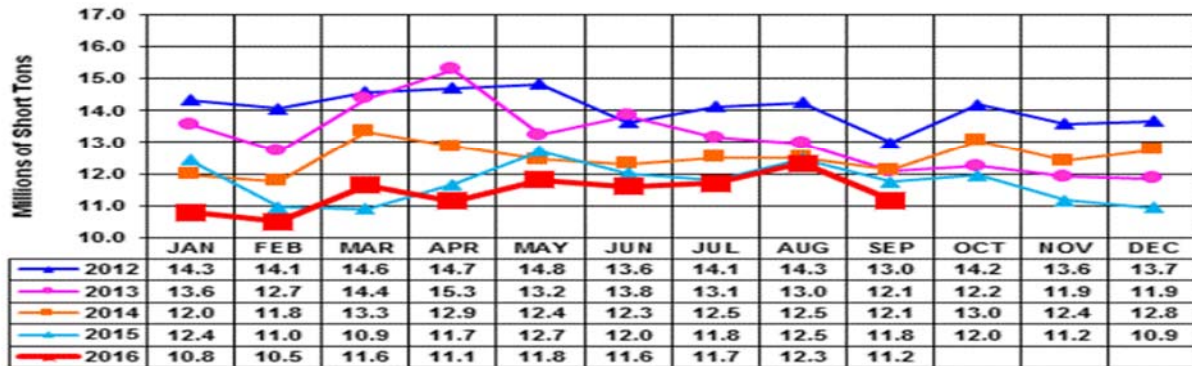
Source: Kitco website - www.kitco.com/connecting.html

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



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
	09/16/16	09/23/16	09/30/16	10/07/16	10/14/16	change
Central Appalachia <i>12,500 Btu, 1.2 SO₂</i>	\$40.20	\$40.20	\$40.20	\$39.55	\$45.05	\$5.50
Northern Appalachia <i>13,000 Btu, < 3.0 SO₂</i>	\$41.45	\$41.45	\$41.45	\$40.75	\$42.25	\$1.50
Illinois Basin <i>11,800 Btu, 5.0 SO₂</i>	\$32.00	\$32.00	\$32.00	\$33.25	\$33.25	\$0.00
Powder River Basin <i>8,800 Btu, 0.8 SO₂</i>	\$8.25	\$8.25	\$8.25	\$8.25	\$9.00	\$0.75
Uinta Basin <i>11,700 Btu, 0.8 SO₂</i>	\$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 - July 2016



 Source: U.S. Energy Information Administration

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

Temperature -- heating & cooling degree days (week ending Oct 06)

Region	HDD Current	HDD deviation from:		CDD Current	CDD deviation from:	
		normal	last year		normal	last year
New England	26	-45	-55	1	1	1
Middle Atlantic	26	-33	-47	0	-3	0
E N Central	20	-42	-45	9	5	9
W N Central	32	-29	-43	6	-1	6
South Atlantic	3	-25	-32	57	17	29
E S Central	7	-20	-18	40	16	23
W S Central	1	-5	-10	70	22	28
Mountain	49	-13	10	20	-3	-3
Pacific	21	1	10	6	-10	-5
United States	20	-24	-26	25	5	11

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)



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	July 2016		July 2015		% Change of Stocks	June 2016		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	6,320	115	6,735	112	-6.2%	7,043	119	-10.3%
	Subbituminous	163	134	762	217	-78.6%	171	157	-4.7%
South	Bituminous	30,996	81	30,364	72	2.1%	35,292	82	-12.2%
	Subbituminous	6,510	69	5,865	63	11.0%	7,180	74	-9.3%
Midwest	Bituminous	17,322	92	14,802	75	17.0%	18,434	91	-6.0%
	Subbituminous	42,951	78	36,809	60	16.7%	45,364	76	-5.3%
West	Bituminous	5,689	75	5,364	68	6.1%	5,862	75	-2.9%
	Subbituminous	33,520	85	31,508	76	6.4%	36,200	83	-7.4%
U.S. Total	Bituminous	60,327	87	57,265	76	5.3%	66,631	86	-9.5%
	Subbituminous	83,144	80	74,945	66	10.9%	88,915	79	-6.5%

Source: U.S. Energy Information Administration

Source: Energy Information Administration, *Electricity Monthly Update*

EIA Working Natural Gas Underground Storage

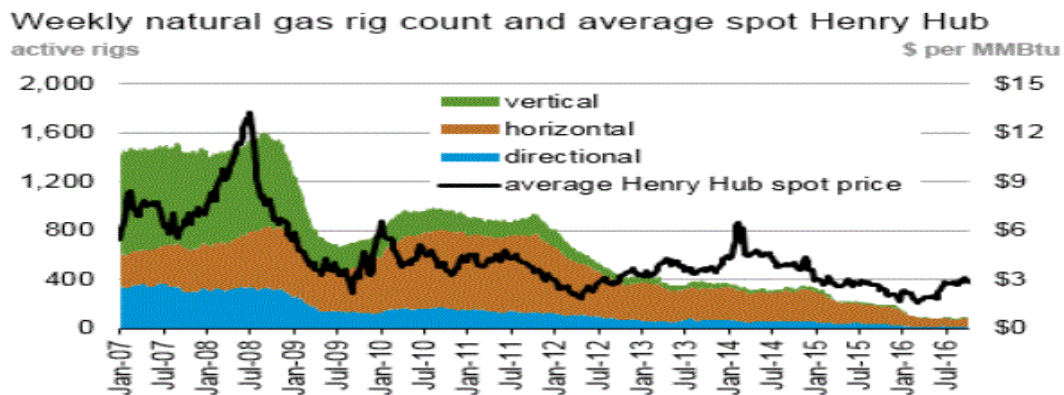
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2016-10-07	2016-09-30	change
East	913	899	14
Midwest	1,071	1,045	26
Mountain	240	237	3
Pacific	323	318	5
South Central	1,212	1,181	31
Total	3,759	3,680	79

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		
	October 2016	November 2016	change	October 2016	November 2016	change
Bakken	900	923	23	1,247	1,293	46
Eagle Ford	1,185	1,201	16	3,476	3,542	66
Haynesville	31	31	-	5,852	5,906	54
Marcellus	69	69	-	11,941	12,114	173
Niobrara	1,026	1,053	27	3,255	3,349	94
Permian	580	585	5	981	989	8
Utica	362	370	8	7,951	8,050	99
Rig-weighted average	630	632	2	2,791	2,950	159

Source: Energy Information Administration, *Drilling Productivity Report*