

# National Mining Association

## Weekly Statistical Summary

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November 3, 2017 Edition  
(Data for Week Ending October 28, 2017)

Prepared by  
National Mining Association



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# NMA Weekly Statistical Summary

Vol. 55, No. 43  
Dated 11/03/17

## PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	10/28/17	10/22/16	% Chng	10/28/17	10/28/16	% Chng
<b>EIA Coal Production (000 Tons):</b>						
Week Ended/Year to Date	14,458	15,564	-7.1%	650,019	591,486	9.9%
52 Weeks Ended	800,903	725,723	10.4%			
AAR Coal Rail Cars Loaded:	83,597	90,272	-7.4%	3,660,444	3,320,420	10.2%
<b>DOC Coal Trade (000 Tons)</b>						
<b>Exports:</b>						
	Aug 17/16		% Chng	Jan - Aug 17/16		% Chng
Metallurgical	5,189	3,823	35.7%	35,032	26,463	32.4%
Steam *	3,376	1,158	191.5%	24,635	9,865	149.7%
Lignite	7	6	16.7%	53	46	15.2%
Anthracite	7	21	-66.7%	171	314	-45.5%
<b>Total</b>	<b>8,579</b>	<b>5,008</b>	<b>71.3%</b>	<b>59,891</b>	<b>36,688</b>	<b>63.2%</b>
<b>Imports:</b>						
	839	943	-11.0%	5,907	6,922	-14.7%
<b>EI Electric Total Output (Mil. Kwh)</b>						
	Week Ended		% Chng	Cumulative Week 1 to		% Chng
	10/28/17	10/29/16		10/28/17	10/29/16	
<b>EI Electric Total Output (Mil. Kwh)</b>	68,634	68,955	-0.5%	3,315,981	3,363,416	-1.4%
<b>EI Coal Region Output (Mil. Kwh)</b>	58,226	59,085	-1.5%	2,849,275	2,901,168	-1.8%
<b>AISI Raw Steel Output (000 Tons)</b>	1,739	1,655	5.1%	74,759	72,009	3.8%

## 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)	
	10/27/17	10/20/17	% Chng	Wed.	10/25/17
Central App, 12,500 Btu, 1.2 SO <sub>2</sub>	\$57.85	\$55.50	4.2%	Henry Hub	2.93
Northern App, 13,000 Btu, < 3.0 SO <sub>2</sub>	45.45	45.40	0.1%	New York	2.93
Illinois Basin, 11,800, 5.0 SO <sub>2</sub>	32.60	32.60	0.0%	Chicago	3.01
Powder River Basin, 8,800 Btu 0.8 SO <sub>2</sub>	11.75	11.75	0.0%	Cal.Comp.Avg.	3.04
Uinta Basin, 11,700 Btu, 0.8 SO <sub>2</sub>	41.10	41.10	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



<b>EIA Estimated Weekly U.S. Coal Production Overview</b>									
	<b>Week Ended</b>			<b>Year to Date</b>			<b>52 Weeks Ended</b>		
<b>Coal-Producing Region &amp; State</b> <b>(thousand short tons)</b>	<b>10/28/2017</b> <b>(week 43)</b>	<b>10/21/2017</b> <b>(week 42)</b>	<b>10/22/2016</b> <b>(week 43)</b>	<b>10/28/2017</b>	<b>10/28/2016</b>	<b>% Change</b>	<b>10/28/2017</b>	<b>10/22/2016</b>	<b>% Change</b>
Alabama	221	231	203	10,035	7,858	27.7	12,002	9,361	28.2
Alaska	14	13	17	700	787	-11.0	860	995	-13.6
Arizona	116	114	108	5,084	4,472	13.7	6,133	5,359	14.4
Arkansas	1	1	1	34	42	-18.5	42	54	-22.2
Colorado	323	330	314	13,182	9,877	33.5	16,221	11,925	36.0
Illinois	807	840	863	40,114	35,984	11.5	48,482	43,774	10.8
Indiana	576	573	570	26,299	23,753	10.7	31,826	28,437	11.9
Kansas	-	-	-	-	27	-100.0	-	66	-
<b>Kentucky Total</b>	<b>771</b>	<b>784</b>	<b>873</b>	<b>36,354</b>	<b>35,200</b>	<b>3.3</b>	<b>44,821</b>	<b>43,663</b>	<b>2.7</b>
Eastern (KY)	310	312	346	15,033	13,729	9.5	18,387	17,537	4.8
Western (KY)	460	473	527	21,320	21,470	-0.7	26,434	26,126	1.2
Louisiana	61	59	63	2,405	2,245	7.1	3,015	2,736	10.2
Maryland	34	37	38	1,508	1,278	18.0	1,880	1,550	21.3
Mississippi	58	60	59	2,600	2,354	10.5	3,169	2,745	15.4
Missouri	5	6	5	232	193	20.5	278	200	39.0
Montana	598	656	734	26,644	25,878	3.0	33,763	32,044	5.4
New Mexico	237	241	288	10,927	10,804	1.1	13,723	14,060	-2.4
North Dakota	519	533	583	23,780	22,998	3.4	29,427	27,448	7.2
Ohio	144	154	191	7,778	10,880	-28.5	9,635	13,353	-27.8
Oklahoma	9	10	12	468	544	-14.1	589	663	-11.2
<b>Pennsylvania Total</b>	<b>960</b>	<b>988</b>	<b>1,003</b>	<b>42,768</b>	<b>37,060</b>	<b>15.4</b>	<b>52,495</b>	<b>44,044</b>	<b>19.2</b>
Anthracite (PA)	30	31	33	1,498	1,372	9.2	1,820	1,731	5.1
Bituminous (PA)	930	957	970	41,270	35,688	15.6	50,675	42,313	19.8
Tennessee	9	9	11	433	547	-20.8	540	691	-21.9
Texas	641	685	787	30,668	32,080	-4.4	38,297	38,125	0.5
Utah	247	254	287	11,730	11,446	2.5	14,513	13,637	6.4
Virginia	260	262	267	12,152	11,009	10.4	14,743	13,140	12.2
<b>West Virginia Total</b>	<b>1,656</b>	<b>1,695</b>	<b>1,649</b>	<b>77,110</b>	<b>65,324</b>	<b>18.0</b>	<b>93,093</b>	<b>79,188</b>	<b>17.6</b>
Northern (WV)	899	906	899	40,870	35,618	14.7	49,585	43,384	14.3
Southern (WV)	757	788	750	36,241	29,706	22.0	43,508	35,804	21.5
Wyoming	6,192	6,392	6,637	267,013	238,846	11.8	331,358	298,467	11.0
<b>Appalachian Total</b>	<b>3,595</b>	<b>3,688</b>	<b>3,709</b>	<b>166,817</b>	<b>147,687</b>	<b>13.0</b>	<b>202,774</b>	<b>178,864</b>	<b>13.4</b>
<b>Interior Total</b>	<b>2,618</b>	<b>2,706</b>	<b>2,887</b>	<b>124,141</b>	<b>118,691</b>	<b>4.6</b>	<b>152,131</b>	<b>142,925</b>	<b>6.4</b>
<b>Western Total</b>	<b>8,245</b>	<b>8,534</b>	<b>8,968</b>	<b>359,061</b>	<b>325,108</b>	<b>10.4</b>	<b>445,998</b>	<b>403,935</b>	<b>10.4</b>
<b>East of Mississippi River</b>	<b>5,496</b>	<b>5,633</b>	<b>5,729</b>	<b>257,151</b>	<b>231,248</b>	<b>11.2</b>	<b>312,685</b>	<b>279,945</b>	<b>11.7</b>
<b>West of Mississippi River</b>	<b>8,962</b>	<b>9,294</b>	<b>9,836</b>	<b>392,868</b>	<b>360,238</b>	<b>9.1</b>	<b>488,218</b>	<b>445,778</b>	<b>9.5</b>
Bituminous and Lignite	14,428	14,896	15,531	648,521	590,114	9.9	799,083	723,992	10.4
Anthracite	30	31	33	1,498	1,372	9.2	1,820	1,731	5.1
<b>U.S. Total</b>	<b>14,458</b>	<b>14,927</b>	<b>15,564</b>	<b>650,019</b>	<b>591,486</b>	<b>9.9</b>	<b>800,903</b>	<b>725,723</b>	<b>10.4</b>
Railroad Cars Loaded	83,597	86,311	90,272	3,660,444	3,320,420	10.2	4,535,556	4,095,216	10.8

Source: Energy Information Administration



# Weekly Electric Output

Volume 85 No. 43

**OUTPUT FOR WEEK ENDED - Oct 28, 2017**

Nov 01, 2017

The net available amount of electric energy distributed by the Total Electric Utility Industry+ for the week ended Saturday, Oct 28, 2017 was 68,634 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 28		52 Weeks Ended October 28	
	GWh Output	% Increase Over Corresponding Week of 2016	GWh Output	% Increase Over Corresponding Period of 2016
New England	2,092	-2.9	120,438	-2.4
Mid-Atlantic	7,237	-1.6	423,865	-2.1
Central Industrial	11,278	0.0	657,269	-2.4
West Central	5,877	1.6	325,009	-1.3
Southeast	16,795	0.1	1,009,751	-1.4
South Central	11,752	-6.4	720,604	1.3
Rocky Mountain	5,287	-0.8	278,891	0.7
Pacific Northwest	2,630	-0.2	159,440	4.6
Pacific Southwest	5,686	11.9	283,691	0.2
Total United States	68,634	-0.5	3,978,957	-0.7

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

Week Ended	2017	Week Ended	2016	% Inc. (17/16)	52 Weeks Ended	2017	% Inc. (17/16)
Oct 07	74,293	Oct 08	72,741	2.1	Oct 07	3,977,345	-0.7
Oct 14	74,900	Oct 15	70,015	7.0	Oct 14	3,982,230	-0.5
Oct 21	69,651	Oct 22	72,602	-4.1	Oct 21	3,979,278	-0.7
Oct 28	68,634	Oct 29	68,955	-0.5	Oct 28	3,978,957	-0.7
Oct 28	3,315,981	Oct 29	3,363,416	-1.4	YEAR TO DATE, FIRST 43 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2017	Week Ended	2016	Week Ended	2015
Oct 07	187	Oct 08	185	Oct 10	161
Oct 14	191	Oct 15	179	Oct 17	165
Oct 21	179	Oct 22	188	Oct 24	159
Oct 28	179	Oct 29	180	Oct 31	157

\* 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		
	28-Oct 2017 GWh Output	29-Oct 2016 GWh Output	% Increase Over Corresponding Week of 2016	28-Oct 2017 GWh Output	29-Oct 2016 GWh Output	% Increase Over Corresponding Week of 2016	28-Oct 2017 GWh Output	29-Oct 2016 GWh Output	% Increase Over Corresponding Week of 2016
<b>New England</b>	2,092	2,155	-2.9%	<b>99,526</b>	<b>103,058</b>	<b>-3.4%</b>	120,438	123,394	-2.4%
<b>Mid-Atlantic</b>	7,237	7,357	-1.6%	<b>351,922</b>	<b>364,140</b>	<b>-3.4%</b>	423,865	432,927	-2.1%
<b>Central Industrial</b>	11,278	11,281	0.0%	<b>543,540</b>	<b>563,109</b>	<b>-3.5%</b>	657,269	673,556	-2.4%
<b>West Central</b>	5,877	5,787	1.6%	<b>269,904</b>	<b>275,654</b>	<b>-2.1%</b>	325,009	329,440	-1.3%
<b>Southeast</b>	16,795	16,782	0.1%	<b>842,607</b>	<b>864,817</b>	<b>-2.6%</b>	1,009,751	1,024,469	-1.4%
<b>South Central</b>	11,752	12,549	-6.4%	<b>609,379</b>	<b>605,109</b>	<b>0.7%</b>	720,604	711,610	1.3%
<b>Rocky Mountain</b>	5,287	5,329	-0.8%	<b>231,923</b>	<b>228,339</b>	<b>1.6%</b>	278,891	276,915	0.7%
<b>Pacific Northwest</b>	2,630	2,635	-0.2%	<b>128,985</b>	<b>121,766</b>	<b>5.9%</b>	159,440	152,451	4.6%
<b>Pacific Southwest</b>	5,686	5,080	11.9%	<b>238,195</b>	<b>237,423</b>	<b>0.3%</b>	283,691	283,005	0.2%
<b>Total United States</b> <sup>1/</sup>	68,634	68,955	-0.5%	<b>3,315,981</b>	<b>3,363,415</b>	<b>-1.4%</b>	3,978,958	4,007,767	-0.7%
<b>Coal Regions Only</b> <sup>2/</sup>	58,226	59,085	-1.5%	<b>2,849,275</b>	<b>2,901,168</b>	<b>-1.8%</b>	3,415,389	3,448,917	-1.0%

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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October 30, 2017

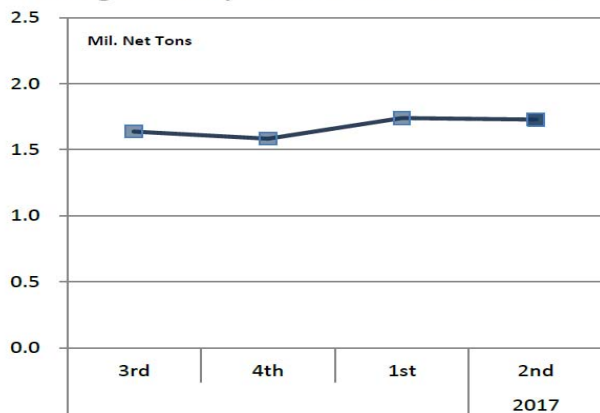
**ESTIMATED WEEKLY RAW STEEL \* PRODUCTION**

<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 Oct 28</u>	<u>Week Ending Oct 21</u>	
<b><u>Week Ending</u></b>				North East	191	189
				Great Lakes	653	644
October 28, 2017	1,739	0.5	74.6	Midwest	162	152
October 28, 2016	1,655	5.1	70.8	Southern	656	671
October 21, 2017	1,731	-0.7	74.3	Western	<u>77</u>	<u>75</u>
				Total	1,739	1,731
<b><u>Year-to-Date +</u></b>						
October 28, 2017	74,759	3.8	74.6			
October 28, 2016	72,009	-	72.2			

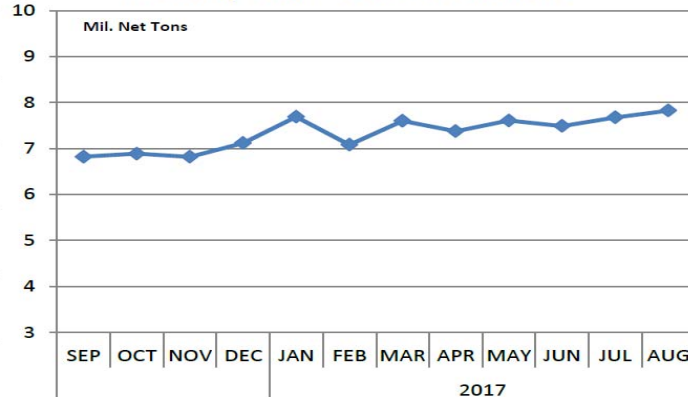
\*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides 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 2017 is approximately 30.6 million net tons vs. 30.7 million net tons for the same period last year, and 30.3 million tons for the third quarter of 2017.

**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)

**U.S. Rail Traffic<sup>1</sup>**  
 Week 43, 2017 – Ended October 28, 2017

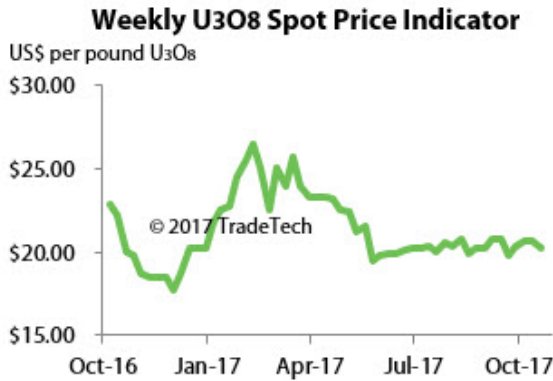
	This Week		Year-To-Date		
	Cars	vs 2016	Cumulative	Avg/wk <sup>2</sup>	vs 2016
<b>Total Carloads</b>	<b>263,064</b>	<b>-3.2%</b>	<b>11,172,437</b>	<b>259,824</b>	<b>3.4%</b>
Chemicals	30,028	1.6%	1,330,462	30,941	0.7%
Coal	83,597	-10.5%	3,660,442	85,127	10.4%
Farm Products excl. Grain, and Food	16,509	-7.6%	685,136	15,933	-1.7%
Forest Products	9,958	1.3%	431,765	10,041	-0.9%
Grain	22,589	-10.4%	952,967	22,162	-1.1%
Metallic Ores and Metals	23,244	16.9%	973,786	22,646	5.1%
Motor Vehicles and Parts	17,670	-5.0%	717,738	16,692	-7.3%
Nonmetallic Minerals	40,659	9.9%	1,595,842	37,113	8.4%
Petroleum and Petroleum Products	9,643	-9.1%	407,549	9,478	-13.9%
Other	9,167	-6.5%	416,750	9,692	-2.1%
<b>Total Intermodal Units</b>	<b>283,518</b>	<b>3.7%</b>	<b>11,576,709</b>	<b>269,226</b>	<b>3.7%</b>
<b>Total Traffic</b>	<b>546,582</b>	<b>0.2%</b>	<b>22,749,146</b>	<b>529,050</b>	<b>3.6%</b>

<sup>1</sup> Excludes U.S. operations of CN and Canadian Pacific.

<sup>2</sup> Average per week figures may not sum to totals as a result of independent rounding.

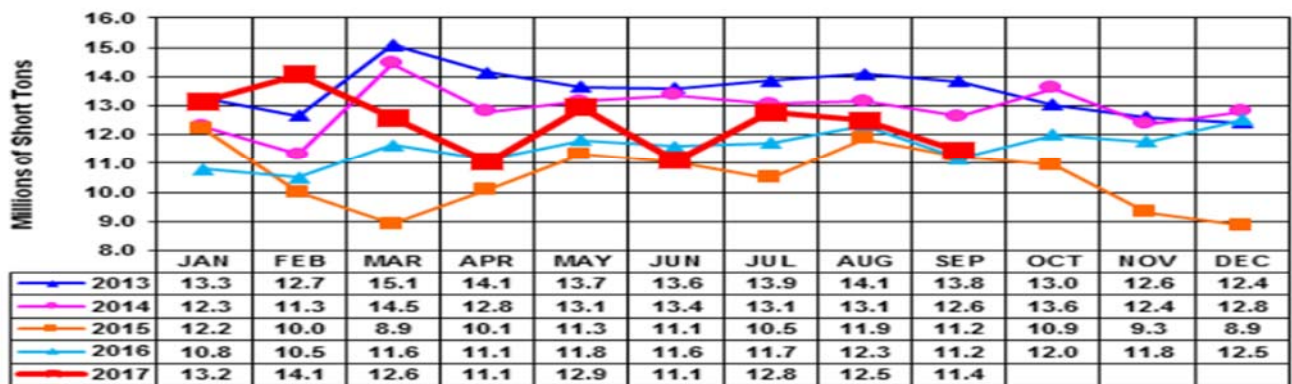
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

### Trade Tech's Uranium Price Indicators



Sources: Trade Tech, Uranium Info Website – [www.uranium.info](http://www.uranium.info) ; Ux Consulting Co., LLC – <http://www.uxc.com>

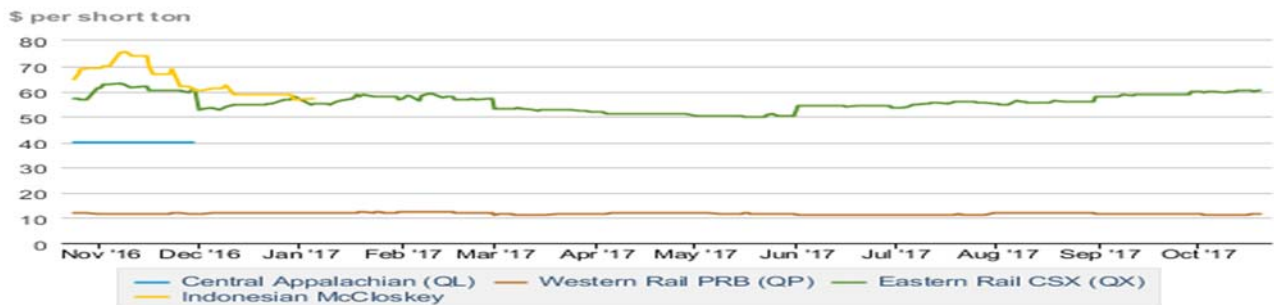
### Coal and Coke Monthly Indicator for Internal U.S. Waterways



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.

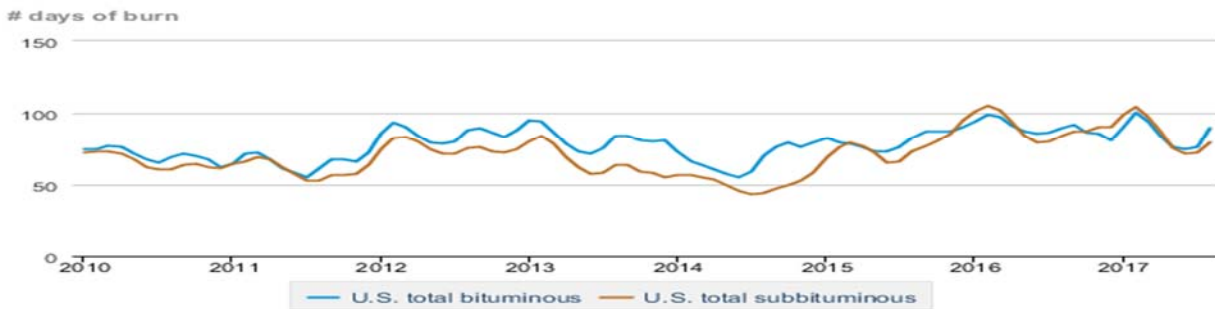
Source: Energy Information Administration, based on NYMEX and Daily Energy Bulletin data

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

	Week ending					Week ago
	09/29/17	10/06/17	10/13/17	10/20/17	10/27/17	change
Central Appalachia 12,500 Btu, 1.2 SO <sub>2</sub>	\$56.25	\$55.50	\$55.50	\$55.50	\$57.85	\$2.35
Northern Appalachia 13,000 Btu, < 3.0 SO <sub>2</sub>	\$46.10	\$45.40	\$45.40	\$45.40	\$45.45	\$0.05
Illinois Basin 11,800 Btu, 5.0 SO <sub>2</sub>	\$30.85	\$32.60	\$32.60	\$32.60	\$32.60	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO <sub>2</sub>	\$11.55	\$11.75	\$11.75	\$11.75	\$11.75	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO <sub>2</sub>	\$40.70	\$41.10	\$41.10	\$41.10	\$41.10	\$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 2017



Source: U.S. Energy Information Administration

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

### Temperature – heating & cooling degree days (week ending Oct 19)

Region	HDD Current	HDD deviation from:		CDD Current	CDD deviation from:	
		normal	last year		normal	last year
New England	67	-35	30	0	0	-5
Middle Atlantic	56	-35	15	1	0	-8
E N Central	53	-42	20	2	1	-13
W N Central	69	-24	13	3	1	-11
South Atlantic	31	-18	20	39	13	-11
E S Central	34	-14	28	17	6	-27
W S Central	17	-1	15	43	15	-38
Mountain	80	-11	31	17	6	1
Pacific	20	-15	-5	14	6	14
United States	45	-24	15	17	6	-10

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	2017 Year to Date - 2nd Quarter	2016 Year to Date - 2nd Quarter	Percent Change
Aluminum, secondary (000 Mt.)	487.0	484.0	1%
Cement (Mil. Mt.)	39.6	39.0	2%
Copper (000 Mt.)	650.0	722.0	-10%
Gold (Mt.)	121.0	106.0	14%
Gypsum (Mil. Mt.)	8.2	8.3	-1%
Iron Ore (Mil. Mt.)	21.1	19.2	10%
Lead (000 Mt.)	158.0	177.0	-11%
Molybdenum (000 Mt.)	19.3	17.4	11%
Phosphate rock (Mil. Mt.)	13.6	12.9	5%
Sand & gravel, construction (Mil. Mt.)	393.0	399.0	-2%
Silver (Mt.)	536.0	563.0	-5%
Soda ash (Mil. Mt.)	5.8	5.8	0%
Stone, crushed (Mil. Mt.)	626.0	640.0	-2%
Zinc (000 Mt.)	336.0	406.0	-17%

Source: U.S. Geological Survey, Mineral Industry Surveys. Percent change based on USGS rounded numbers. 2017 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	August 2017		August 2016			July 2017		
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn	% Change of Stocks	Stocks (1000 tons)	Days of Burn	% Change of Stocks
Northeast	Bituminous	4,143	88	5,312	98	-22.0%	3,915	72	5.8%
	Subbituminous	129	139	153	131	-15.6%	129	166	0.0%
South	Bituminous	27,973	91	27,906	84	0.2%	28,498	75	-1.8%
	Subbituminous	5,362	59	5,899	67	-9.1%	5,709	55	-6.1%
Midwest	Bituminous	13,187	83	16,830	99	-21.6%	13,750	76	-4.1%
	Subbituminous	36,407	80	40,679	82	-10.5%	38,044	73	-4.3%
West	Bituminous	5,457	90	5,715	79	-4.5%	5,576	82	-2.1%
	Subbituminous	26,995	83	31,529	92	-14.4%	28,432	74	-5.1%
U.S. Total	Bituminous	50,760	89	55,763	89	-9.0%	51,738	76	-1.9%
	Subbituminous	68,894	79	78,259	84	-12.0%	72,313	72	-4.7%

Source: U.S. Energy Information Administration

NOTE: Stockpile levels shown above reflect a sample of electric power sector plants, which were used to create the days of burn statistics. These levels will not equal total electric power sector stockpile levels.

Source: Energy Information Administration, *Electricity Monthly Update*

### EIA Working Natural Gas Underground Storage

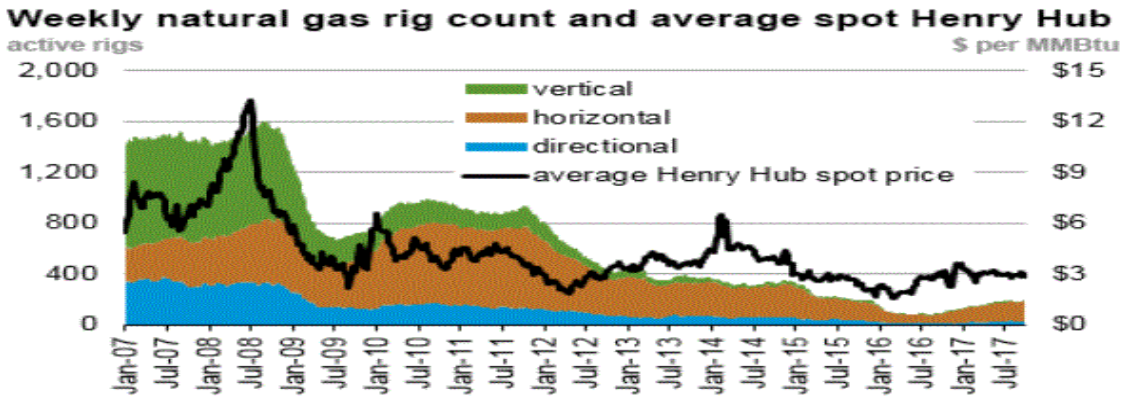
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2017-10-20	2017-10-13	change
East	915	902	13
Midwest	1,082	1,054	28
Mountain	224	224	0
Pacific	315	316	-1
South Central	1,174	1,150	24
<b>Total</b>	<b>3,710</b>	<b>3,646</b>	<b>64</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		
	October 2017	November 2017	change	October 2017	November 2017	change
Anadarko	376	380	4	2,521	2,530	9
Appalachia	134	135	1	14,204	14,179	(25)
Bakken	1,226	1,246	20	1,561	1,565	4
Eagle Ford	1,069	1,090	21	4,116	4,311	195
Haynesville	33	34	1	7,735	7,718	(17)
Niobrara	1,077	1,084	7	4,250	4,259	9
Permian	572	568	(4)	998	998	-
<b>Total</b>	<b>593</b>	<b>589</b>	<b>(4)</b>	<b>3,414</b>	<b>3,449</b>	<b>35</b>

Source: Energy Information Administration, *Drilling Productivity Report*