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National Mining Association

# Weekly Statistical Summary

December 30, 2016 Edition  
(Data for Week Ending December 24, 2016)

Prepared by  
National Mining Association



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# NMA Weekly Statistical Summary

Vol. 54, No. 52  
Dated 12/30/16

## PRODUCTION, CONSUMPTION & TRADE

|  | Week Ended       |          |               | * Cumulative Jan 1 to  |           |               |
|--|------------------|----------|---------------|------------------------|-----------|---------------|
|  | 12/24/16         | 12/26/15 | % Chng        | 12/24/16               | 12/24/15  | % Chng        |
| <b>EIA Coal Production (000 Tons):</b> |                  |          |               |                        |           |               |
| Week Ended/Year to Date                | 15,201           | 11,906   | 27.7%         | 726,262                | 885,453   | -18.0%        |
| 52 Weeks Ended                         | 734,646          | 898,655  | -18.3%        |                        |           |               |
| AAR Coal Rail Cars Loaded:             | 84,518           | 70,350   | 20.1%         | 4,045,366              | 5,085,956 | -20.5%        |
| Coal Production<br>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%        |

## DOC Bituminous Coal Trade (000 Tons)

| Exports:      | October 16/15 |              |               | Jan - Oct 16/15 |               |               |
|---------------|---------------|--------------|---------------|-----------------|---------------|---------------|
|               |               |              | % Chng        |                 |               | % 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%         |
| <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> |
| Imports:      | 768           | 854          | -10.1%        | 8,491           | 9,468         | -10.3%        |

|                                     | Week Ended |          |        | Cumulative Jan 1 to |           |        |
|-------------------------------------|------------|----------|--------|---------------------|-----------|--------|
|                                     | 12/24/16   | 12/26/15 | % Chng | 12/24/16            | 12/26/15  | % Chng |
| EI Electric Total Output (Mil. Kwh) | 81,466     | 70,180   | 16.1%  | 4,027,928           | 4,019,387 | 0.2%   |
| EI Coal Region Output (Mil. Kwh)    | 69,761     | 59,248   | 17.7%  | 3,468,540           | 3,455,325 | 0.4%   |
| AISI Raw Steel Output (000 Tons)    | 1,636      | 1,485    | 10.2%  | 86,380              | 86,935    | -0.6%  |

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

| Average Coal Spot Prices<br>(\$/Short Ton)        | Week Ending |          |        | Natural Gas Spot Prices (\$/MMBtu) |          |
|---|-------------|----------|--------|------------------------------------|----------|
|   | 12/23/16    | 12/16/16 | % Chng | Wed.                               | 12/21/16 |
| Central App, 12,500 Btu, 1.2 SO <sub>2</sub>      | \$48.05     | \$48.05  | 0.0%   | Henry Hub                          | 3.48     |
| Northern App, 13,000 Btu, < 3.0 SO <sub>2</sub>   | 45.75       | 45.75    | 0.0%   | New York                           | 3.65     |
| Illinois Basin, 11,800, 5.0 SO <sub>2</sub>       | 34.50       | 34.50    | 0.0%   | Chicago                            | 3.49     |
| Powder River Basin, 8,800 Btu 0.8 SO <sub>2</sub> | 11.00       | 11.00    | 0.0%   | Cal.Comp.Avg.                      | 3.49     |
| Uinta Basin, 11,700 Btu, 0.8 SO <sub>2</sub>      | 40.90       | 40.90    | 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



THE AMERICAN RESOURCE

National Mining Association Web Site: [http:// www.nma.org](http://www.nma.org)

| <b>EIA Estimated Weekly U.S. Coal Production Overview</b> |                         |                         |                         |                |                |              |                |                |              |
|---|-------------------------|-------------------------|-------------------------|----------------|----------------|--------------|----------------|----------------|--------------|
| Coal-Producing Region & State<br>(thousand short tons)    | Week Ended              |                         |                         | Year to Date   |                |              | 52 Weeks Ended |                |              |
|   | 12/24/2016<br>(week 52) | 12/17/2016<br>(week 51) | 12/26/2015<br>(week 52) | 12/24/2016     | 12/24/2015     | % Change     | 12/24/2016     | 12/26/2015     | % Change     |
| Alabama   | 173                     | 169                     | 135                     | 8,707          | 13,062         | -33.3        | 8,802          | 13,257         | -33.6        |
| Alaska  | 25                      | 24                      | 18                      | 1,049          | 1,160          | -9.6         | 1,061          | 1,178          | -9.9         |
| Arizona   | 105                     | 109                     | 79                      | 5,352          | 6,728          | -20.5        | 5,408          | 6,831          | -20.8        |
| Arkansas  | 1                       | 1                       | 1                       | 43             | 90             | -52.6        | 44             | 92             | -52.2        |
| Colorado  | 198                     | 216                     | 187                     | 11,261         | 18,698         | -39.8        | 11,393         | 18,972         | -39.9        |
| Illinois  | 931                     | 913                     | 688                     | 44,449         | 55,563         | -20.0        | 44,933         | 56,356         | -20.3        |
| Indiana   | 579                     | 597                     | 417                     | 28,878         | 33,893         | -14.8        | 29,172         | 34,397         | -15.2        |
| Kansas  | 2                       | 3                       | 3                       | 67             | 196            | -65.9        | 69             | 199            | -65.3        |
| <b>Kentucky Total</b>                                     | <b>878</b>              | <b>904</b>              | <b>743</b>              | <b>43,088</b>  | <b>60,717</b>  | <b>-29.0</b> | <b>43,611</b>  | <b>61,636</b>  | <b>-29.2</b> |
| Eastern (KY)  | 345                     | 356                     | 331                     | 17,019         | 27,790         | -38.8        | 17,252         | 28,216         | -38.9        |
| Western (KY)  | 533                     | 548                     | 412                     | 26,069         | 32,926         | -20.8        | 26,359         | 33,420         | -21.1        |
| Louisiana   | 58                      | 63                      | 44                      | 2,807          | 3,396          | -17.3        | 2,838          | 3,452          | -17.8        |
| Maryland  | 30                      | 30                      | 25                      | 1,464          | 1,898          | -22.9        | 1,481          | 1,924          | -23.0        |
| Mississippi   | 56                      | 59                      | 36                      | 2,871          | 3,109          | -7.7         | 2,896          | 3,147          | -8.0         |
| Missouri  | 2                       | 3                       | 1                       | 205            | 137            | 49.4         | 206            | 140            | 47.1         |
| Montana   | 662                     | 681                     | 548                     | 31,367         | 41,335         | -24.1        | 31,753         | 41,987         | -24.4        |
| New Mexico  | 336                     | 337                     | 282                     | 14,469         | 19,406         | -25.4        | 14,667         | 19,674         | -25.4        |
| North Dakota  | 675                     | 634                     | 400                     | 28,858         | 28,416         | 1.6          | 29,139         | 28,818         | 1.1          |
| Ohio  | 289                     | 296                     | 212                     | 13,927         | 16,836         | -17.3        | 14,076         | 17,089         | -17.6        |
| Oklahoma  | 14                      | 14                      | 10                      | 654            | 770            | -15.1        | 661            | 781            | -15.4        |
| <b>Pennsylvania Total</b>                                 | <b>891</b>              | <b>927</b>              | <b>633</b>              | <b>44,428</b>  | <b>50,261</b>  | <b>-11.6</b> | <b>44,875</b>  | <b>51,037</b>  | <b>-12.1</b> |
| Anthracite (PA)   | 38                      | 40                      | 31                      | 1,755          | 2,112          | -16.9        | 1,777          | 2,141          | -17.0        |
| Bituminous (PA)   | 853                     | 887                     | 602                     | 42,673         | 48,149         | -11.4        | 43,097         | 48,897         | -11.9        |
| Tennessee   | 17                      | 18                      | 12                      | 770            | 886            | -13.0        | 779            | 899            | -13.3        |
| Texas   | 940                     | 959                     | 542                     | 41,037         | 35,395         | 15.9         | 41,419         | 35,975         | 15.1         |
| Utah  | 298                     | 302                     | 197                     | 13,828         | 14,229         | -2.8         | 13,966         | 14,458         | -3.4         |
| Virginia  | 280                     | 282                     | 190                     | 13,396         | 14,137         | -5.2         | 13,531         | 14,332         | -5.6         |
| <b>West Virginia Total</b>                                | <b>1,692</b>            | <b>1,675</b>            | <b>1,233</b>            | <b>79,874</b>  | <b>94,444</b>  | <b>-15.4</b> | <b>80,743</b>  | <b>95,821</b>  | <b>-15.7</b> |
| Northern (WV)   | 976                     | 965                     | 689                     | 44,206         | 47,121         | -6.2         | 44,691         | 47,789         | -6.5         |
| Southern (WV)   | 716                     | 710                     | 544                     | 35,668         | 47,323         | -24.6        | 36,051         | 48,032         | -24.9        |
| Wyoming   | 6,068                   | 6,474                   | 5,268                   | 293,414        | 370,690        | -20.8        | 297,125        | 376,202        | -21.0        |
| <b>Appalachian Total</b>                                  | <b>3,718</b>            | <b>3,754</b>            | <b>2,772</b>            | <b>179,586</b> | <b>219,313</b> | <b>-18.1</b> | <b>181,538</b> | <b>222,575</b> | <b>-18.4</b> |
| <b>Interior Total</b>                                     | <b>3,117</b>            | <b>3,159</b>            | <b>2,155</b>            | <b>147,079</b> | <b>165,477</b> | <b>-11.1</b> | <b>148,597</b> | <b>167,961</b> | <b>-11.5</b> |
| <b>Western Total</b>                                      | <b>8,366</b>            | <b>8,776</b>            | <b>6,979</b>            | <b>399,597</b> | <b>500,663</b> | <b>-20.2</b> | <b>404,513</b> | <b>508,120</b> | <b>-20.4</b> |
| <b>East of Mississippi River</b>                          | <b>5,818</b>            | <b>5,871</b>            | <b>4,325</b>            | <b>281,852</b> | <b>344,805</b> | <b>-18.3</b> | <b>284,898</b> | <b>349,896</b> | <b>-18.6</b> |
| <b>West of Mississippi River</b>                          | <b>9,384</b>            | <b>9,818</b>            | <b>7,581</b>            | <b>444,411</b> | <b>540,648</b> | <b>-17.8</b> | <b>449,750</b> | <b>548,759</b> | <b>-18.0</b> |
| Bituminous and Lignite                                    | 15,163                  | 15,649                  | 11,875                  | 724,507        | 883,341        | -18.0        | 732,870        | 896,514        | -18.3        |
| Anthracite  | 38                      | 40                      | 31                      | 1,755          | 2,112          | -16.9        | 1,777          | 2,141          | -17.0        |
| <b>U.S. Total</b>   | <b>15,201</b>           | <b>15,689</b>           | <b>11,906</b>           | <b>726,262</b> | <b>885,453</b> | <b>-18.0</b> | <b>734,648</b> | <b>898,655</b> | <b>-18.3</b> |
| Railroad Cars Loaded                                      | 84,518                  | 87,219                  | 70,350                  | 4,045,366      | 5,085,956      | -20.5        | 4,094,912      | 5,164,851      | -20.7        |

Source: Energy Information Administration

Prepared by EEI's Business Information Group



## WEEKLY ELECTRIC OUTPUT

Volume 84 No. 52

### OUTPUT FOR WEEK ENDED - Dec 24, 2016

Dec 29, 2016

The net available amount of electric energy distributed by the Total Electric Utility Industry+ for the week ended Saturday, Dec 24, 2016 was **81,466** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **203** on the weekly electric output index.

### WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

|                     | Week Ended December 24 |  | 52 Weeks Ended December 24 |  |
|---------------------|------------------------|--|----------------------------|--|
|                     | GWh Output             | % Increase Over Corresponding Week of 2015 | GWh Output                 | % Increase Over Corresponding Period of 2015 |
| New England         | 2,538                  | 14.3                                       | 123,943                    | -2.3   |
| Mid-Atlantic        | 8,648                  | 14.1                                       | 435,683                    | -2.0   |
| Central Industrial  | 13,842                 | 16.5                                       | 677,232                    | 0.4  |
| West Central        | 6,709                  | 13.1                                       | 330,868                    | 0.3  |
| Southeast           | 20,946                 | 23.5                                       | 1,031,828                  | 1.1  |
| South Central       | 13,878                 | 22.3                                       | 717,294                    | 1.1  |
| Rocky Mountain      | 5,738                  | 3.4  | 275,631                    | -0.4   |
| Pacific Northwest   | 3,983                  | 8.0  | 152,369                    | 0.1  |
| Pacific Southwest   | 5,184                  | 3.2  | 283,080                    | -0.7   |
| Total United States | 81,466                 | 16.1                                       | 4,027,928                  | 0.2  |

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

| Week Ended | 2016      | Week Ended | 2015      | % Inc. (16/15) | 52 Weeks Ended               | 2016      | % Inc. (16/15) |
|------------|-----------|------------|-----------|----------------|------------------------------|-----------|----------------|
| 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 24     | 81,466    | Dec 26     | 70,180    | 16.1           | Dec 24                       | 4,027,928 | 0.2            |
| Dec 24     | 4,027,928 | Dec 26     | 4,019,387 | 0.2            | YEAR TO DATE, FIRST 52 WEEKS |           |                |

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

SEASONALLY ADJUSTED 1982 = 100

| Week Ended | 2016 | Week Ended | 2015 | Week Ended | 2014 |
|------------|------|------------|------|------------|------|
| 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  |
| Dec 24     | 203  | Dec 26     | 156  | Dec 27     | 191  |

\* 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 |           |  |
|--|---------------|---------------|--|------------------------------------|------------------|--|----------------|-----------|--|
|  | 24-Dec        | 26-Dec        | % Increase Over<br>Corresponding<br>Week of 2015 | 24-Dec                             | 26-Dec           | % Increase Over<br>Corresponding<br>Week of 2015 | 24-Dec         | 26-Dec    | % Increase Over<br>Corresponding<br>Week of 2015 |
|  | 2016          | 2015          |  | 2016                               | 2015             |  | 2016           | 2015      |  |
|  | GWh           | GWh           |  | GWh                                | GWh              |  | GWh            | GWh       |  |
|  | Output        | Output        |  | Output                             | Output           |  | Output         | Output    |  |
| <b>New England</b>                       | 2,538         | 2,221         | 14.3%  | <b>123,943</b>                     | <b>126,894</b>   | <b>-2.3%</b>                                     | 123,943        | 126,894   | -2.3%  |
| <b>Mid-Atlantic</b>                      | 8,648         | 7,577         | 14.1%  | <b>435,686</b>                     | <b>444,360</b>   | <b>-2.0%</b>                                     | 435,683        | 444,359   | -2.0%  |
| <b>Central Industrial</b>                | 13,842        | 11,882        | 16.5%  | <b>677,237</b>                     | <b>674,320</b>   | <b>0.4%</b>                                      | 677,232        | 674,318   | 0.4%   |
| <b>West Central</b>                      | 6,709         | 5,934         | 13.1%  | <b>330,869</b>                     | <b>329,837</b>   | <b>0.3%</b>                                      | 330,868        | 329,835   | 0.3%   |
| <b>Southeast</b>                         | 20,946        | 16,956        | 23.5%  | <b>1,031,826</b>                   | <b>1,020,767</b> | <b>1.1%</b>                                      | 1,031,828      | 1,020,773 | 1.1%   |
| <b>South Central</b>                     | 13,878        | 11,350        | 22.3%  | <b>717,294</b>                     | <b>709,228</b>   | <b>1.1%</b>                                      | 717,294        | 709,227   | 1.1%   |
| <b>Rocky Mountain</b>                    | 5,738         | 5,549         | 3.4%   | <b>275,628</b>                     | <b>276,813</b>   | <b>-0.4%</b>                                     | 275,631        | 276,813   | -0.4%  |
| <b>Pacific Northwest</b>                 | 3,983         | 3,688         | 8.0%   | <b>152,363</b>                     | <b>152,145</b>   | <b>0.1%</b>                                      | 152,369        | 152,142   | 0.1%   |
| <b>Pacific Southwest</b>                 | 5,184         | 5,023         | 3.2%   | <b>283,082</b>                     | <b>285,026</b>   | <b>-0.7%</b>                                     | 283,080        | 285,027   | -0.7%  |
| <b>Total United States <sup>1/</sup></b> | <b>81,466</b> | <b>70,180</b> | <b>16.1%</b>                                     | <b>4,027,928</b>                   | <b>4,019,390</b> | <b>0.2%</b>                                      | 4,027,928      | 4,019,388 | 0.2%   |
| <b>Coal Regions Only <sup>2/</sup></b>   | 69,761        | 59,248        | 17.7%  | <b>3,468,540</b>                   | <b>3,455,325</b> | <b>0.4%</b>                                      | 3,468,536      | 3,455,325 | 0.4%   |

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*.

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December 27, 2016

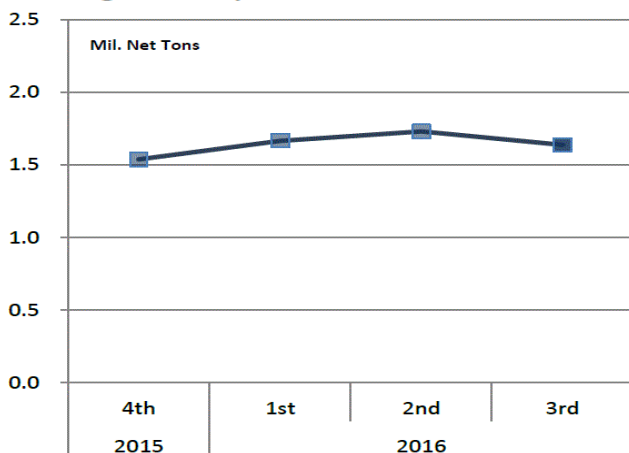
**ESTIMATED WEEKLY RAW STEEL \* PRODUCTION**

| <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. 24</u>    | <u>Week Ending Dec. 17</u> |              |
| <b><u>Week Ending</u></b>    |                          |  |   | North East                    | 204                        | 209          |
|                              |                          |  |   | Great Lakes                   | 652                        | 664          |
| December 24, 2016            | 1,636                    | -3.4                                       | 69.0                                    | Midwest                       | 168                        | 167          |
| December 24, 2015            | 1,485                    | 10.2                                       | 62.1                                    | Southern                      | 547                        | 581          |
| December 17, 2016            | 1,694                    | 1.2  | 71.4                                    | Western                       | 65                         | 73           |
|                              |                          |  |   | <b>Total</b>                  | <b>1,636</b>               | <b>1,694</b> |
| <b><u>Year-to-Date +</u></b> |                          |  |   |                               |                            |              |
| December 24, 2016            | 86,380                   | -0.6                                       | 70.8                                    |                               |                            |              |
| December 24, 2015            | 86,935                   | -  | 70.1                                    |                               |                            |              |

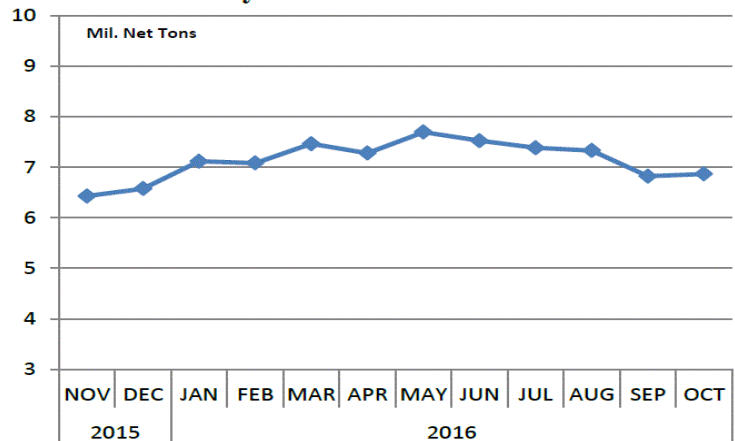
\*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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



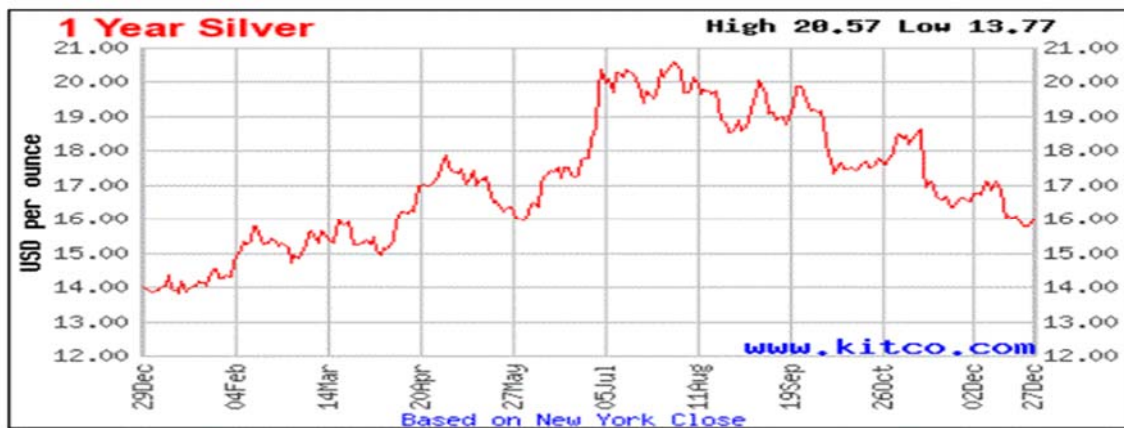
\*Steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for castings and strand or pressure cast blooms, slabs or other product forms. \*\* Based on tonnage capability to produce raw steel for a sustained full order book.



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

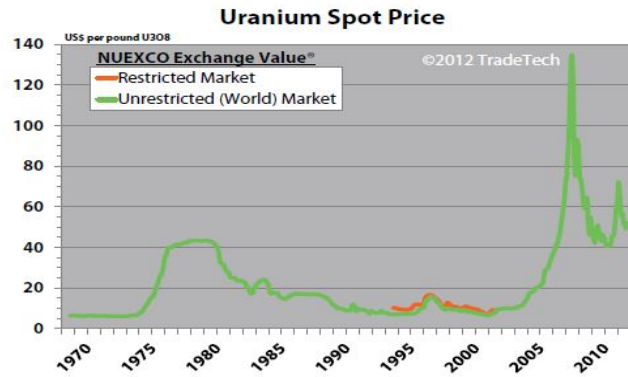
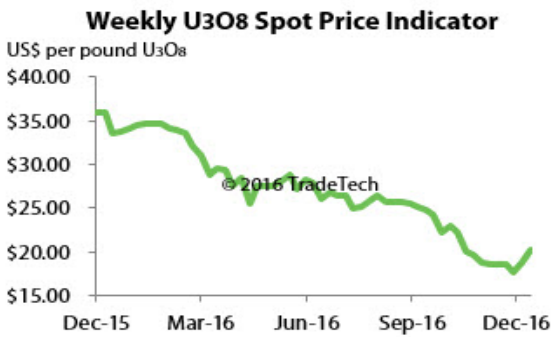


Source: Kitco website - [www.kitco.com/connecting.html](http://www.kitco.com/connecting.html)



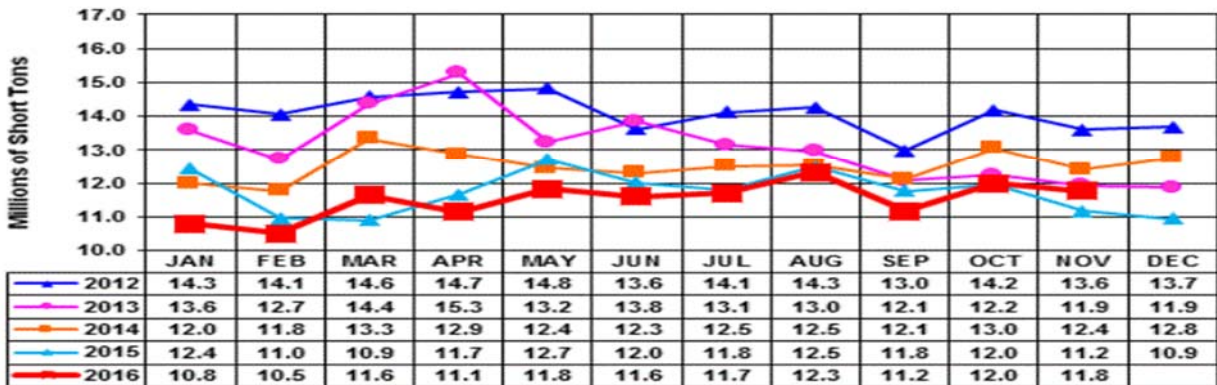
Source: Kitco website - [www.kitco.com/connecting.html](http://www.kitco.com/connecting.html)

### Trade Tech's Uranium Price Indicators



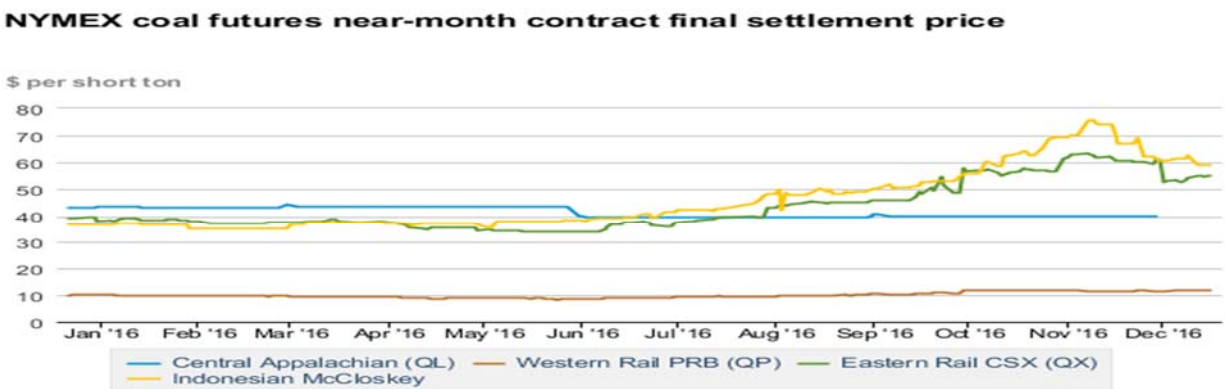
Source: Trade Tech, Uranium Info Website – [www.uranium.info](http://www.uranium.info)

### 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.

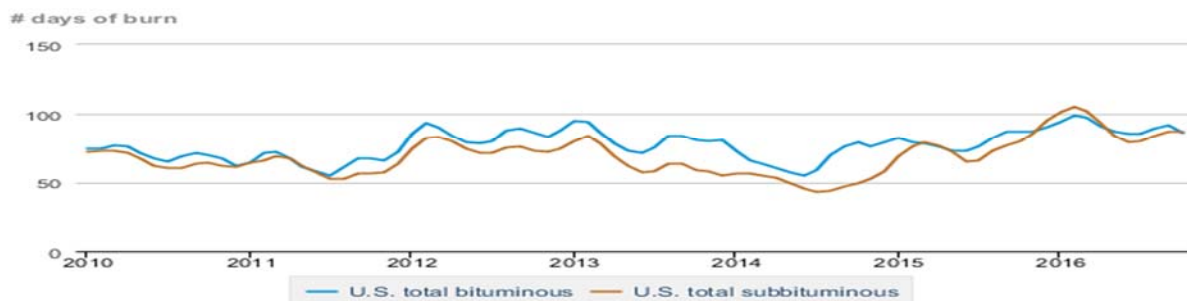
Source: Energy Information Administration, based on NYMEX and Daily Energy Bulletin data

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

|  | Week ending |          |          |          |          | Week ago |
|--|-------------|----------|----------|----------|----------|----------|
|  | 11/25/16    | 12/02/16 | 12/09/16 | 12/16/16 | 12/23/16 | change   |
| Central Appalachia<br>12,500 Btu, 1.2 SO <sub>2</sub>    | \$45.05     | \$45.05  | \$48.05  | \$48.05  | \$48.05  | \$0.00   |
| Northern Appalachia<br>13,000 Btu, < 3.0 SO <sub>2</sub> | \$42.25     | \$42.25  | \$45.75  | \$45.75  | \$45.75  | \$0.00   |
| Illinois Basin<br>11,800 Btu, 5.0 SO <sub>2</sub>        | \$33.25     | \$33.25  | \$34.50  | \$34.50  | \$34.50  | \$0.00   |
| Powder River Basin<br>8,800 Btu, 0.8 SO <sub>2</sub>     | \$9.00      | \$9.00   | \$11.00  | \$11.00  | \$11.00  | \$0.00   |
| Uinta Basin<br>11,700 Btu, 0.8 SO <sub>2</sub>           | \$39.40     | \$39.40  | \$40.90  | \$40.90  | \$40.90  | \$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 - October 2016



 Source: U.S. Energy Information Administration

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

### Temperature -- heating & cooling degree days (week ending Dec 15)

| Region          | HDD Current | HDD deviation from: |           | CDD Current | CDD deviation from: |           |
|-----------------|-------------|---------------------|-----------|-------------|---------------------|-----------|
|                 |             | normal              | last year |             | normal              | last year |
| New England     | 251         | 23                  | 138       | 0           | 0                   | 0         |
| Middle Atlantic | 242         | 25                  | 145       | 0           | 0                   | 0         |
| E N Central     | 309         | 61                  | 199       | 0           | 0                   | 0         |
| W N Central     | 341         | 67                  | 176       | 0           | 0                   | 0         |
| South Atlantic  | 173         | 21                  | 117       | 10          | 2                   | -6        |
| E S Central     | 187         | 29                  | 134       | 0           | -1                  | -3        |
| W S Central     | 120         | 4                   | 77        | 1           | -1                  | -11       |
| Mountain        | 200         | -23                 | -9        | 0           | 0                   | 0         |
| Pacific         | 94          | -25                 | -40       | 0           | 0                   | 0         |
| United States   | 217         | 22                  | 107       | 2           | 1                   | -3        |

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)



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          | October 2016       |              | October 2015       |              | % Change of Stocks | September 2016     |              | % Change of Stocks |
|------------|---------------|--------------------|--------------|--------------------|--------------|--------------------|--------------------|--------------|--------------------|
|            |               | Stocks (1000 tons) | Days of Burn | Stocks (1000 tons) | Days of Burn |                    | Stocks (1000 tons) | Days of Burn |                    |
| Northeast  | Bituminous    | 5,646              | 84           | 7,509              | 95           | -24.8%             | 5,487              | 95           | 2.9%               |
|            | Subbituminous | 136                | 69           | 731                | 174          | -81.4%             | 136                | 97           | 0.0%               |
| South      | Bituminous    | 27,996             | 83           | 34,879             | 89           | -19.7%             | 27,339             | 88           | 2.4%               |
|            | Subbituminous | 6,039              | 73           | 6,946              | 76           | -13.1%             | 5,631              | 68           | 7.2%               |
| Midwest    | Bituminous    | 16,909             | 94           | 16,311             | 82           | 3.7%               | 16,549             | 99           | 2.2%               |
|            | Subbituminous | 43,096             | 84           | 41,629             | 71           | 3.5%               | 40,862             | 84           | 5.5%               |
| West       | Bituminous    | 5,859              | 84           | 5,628              | 75           | 4.1%               | 5,885              | 84           | -0.5%              |
|            | Subbituminous | 31,312             | 95           | 34,905             | 94           | -10.3%             | 30,830             | 95           | 1.6%               |
| U.S. Total | Bituminous    | 56,410             | 86           | 64,328             | 87           | -12.3%             | 55,260             | 92           | 2.1%               |
|            | Subbituminous | 80,583             | 87           | 84,211             | 80           | -4.3%              | 77,459             | 87           | 4.0%               |

Source: Energy Information Administration, *Electricity Monthly Update*

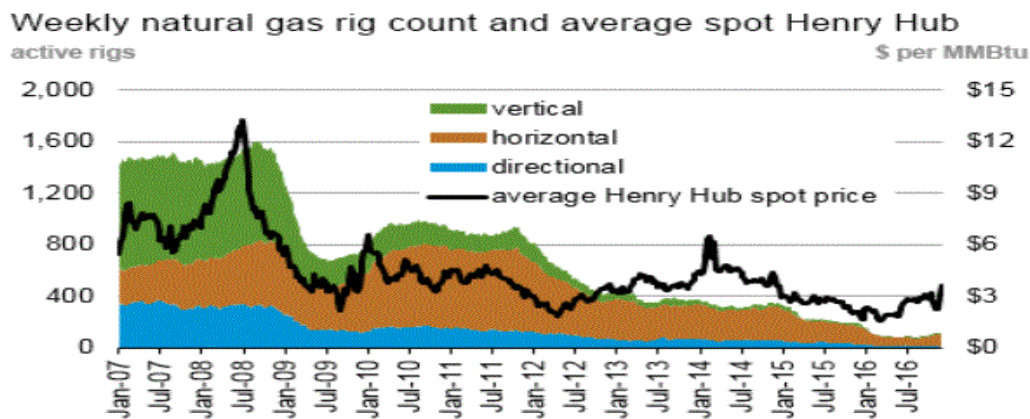
## EIA Working Natural Gas Underground Storage

### Working gas in underground storage

| Region        | Stocks<br>billion cubic feet (Bcf) |            |        |
|---------------|------------------------------------|------------|--------|
|               | 2016-12-16                         | 2016-12-09 | change |
| East          | 810                                | 865        | -55    |
| Midwest       | 1,007                              | 1,071      | -64    |
| Mountain      | 230                                | 244        | -14    |
| Pacific       | 302                                | 312        | -10    |
| South Central | 1,248                              | 1,314      | -66    |
| Total         | 3,597                              | 3,806      | -209   |

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<br>barrels/day |              |        | New-well gas production per rig<br>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*