



# **NATIONAL MINING ASSOCIATION**

## **WEEKLY STATISTICAL SUMMARY**

**November 18, 2022 Edition**  
(Data for Week Ending November 12, 2022)

Prepared by  
**National Mining Association**

101 Constitution Avenue NW, Suite 500 East  
Washington, DC 20001  
(202) 463-2600  
[www.nma.org](http://www.nma.org)



# NMA WEEKLY STATISTICAL SUMMARY

Vol. 60, No. 46 | Dated 11/18/22

## PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	11/12/22	11/13/21	% Chg	11/12/22	11/12/21	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	11,721	11,578	1.2%	520,648	500,218	4.1%
52 Weeks Ended	596,355	570,493	4.5%			
AAR Coal Rail Cars Loaded:	67,493	67,225	0.4%	2,990,872	2,885,561	3.6%
Coal Production	Oct 22/21		% Chg	Jan - Oct 22/21		% Chg
Month Ended - October	52,450	48,954	7.1%	500,264	480,030	4.2%

### U.S. Department of Commerce Coal Trade (000 Tons)

	Sep 22/21		% Chg	Jan - Sep 22/21		% Chg
Exports:						
Metallurgical	4,270	3,741	14.1%	35,129	33,429	5.1%
Steam Bit. *	2,787	2,758	1.1%	28,439	29,874	-4.8%
Lignite	6	6	0.0%	60	57	5.3%
Anthracite	27	14	92.9%	334	235	42.1%
Total	7,090	6,519	8.8%	63,962	63,595	0.6%
Imports:	531	202	162.9%	4,928	3,739	31.8%

	Week Ended			Cumulative Week 1 to		
	11/12/22	11/13/21	% Chg	11/12/22	11/13/21	% Chg
EEl Electric Total Output (Mil. Kwh)	70,667	69,510	1.7%	3,668,399	3,586,373	2.3%
EEl Coal Region Output (Mil. Kwh)	60,502	59,620	1.5%	3,182,236	3,107,477	2.4%
AISI Raw Steel Output (000 Tons)	1,645	1,828	-10.0%	77,992	82,049	-4.9%

## EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	11/11/22	11/04/22	% Chg	Wed.	11/09/22
Central App, 12,500 Btu, 1.2 SO <sub>2</sub>	\$182.10	\$182.10	0.0%	Henry Hub	3.45
Northern App, 13,000 Btu, < 3.0 SO <sub>2</sub>	185.80	185.80	0.0%	New York	2.23
Illinois Basin, 11,800, 5.0 SO <sub>2</sub>	186.50	186.50	0.0%	Chicago	3.65
Powder River Basin, 8,800 Btu 0.8 SO <sub>2</sub>	17.15	17.15	0.0%	Cal.Comp.Avg.	7.89
Uinta Basin, 11,700 Btu, 0.8 SO <sub>2</sub>	41.80	41.80	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. r/ revised.  
Sources: EIA; Edison Electric Institute; American Iron & Steel Institute; Association of American Railroads; Dept. of Commerce; S&P Global; NGI's Daily Gas Price Index

<b>EIA Estimated Weekly U.S. Coal Production Overview</b>									
Coal-Producing Region & State (thousand short tons)	Week Ended			Year to Date			52 Weeks Ended		
	11/12/2022 (week 46)	11/5/2022 (week 45)	11/13/2021 (week 46)	11/12/2022	11/12/2021	% Change	11/12/2022	11/13/2021	% Change
Alabama	151	157	156	7,904	8,403	-5.9	8,925	9,824	-9.2
Alaska	19	19	22	833	898	-7.2	975	1,041	-6.3
Colorado	286	304	276	12,065	10,037	20.2	13,867	11,401	21.6
Illinois	614	628	620	32,127	32,711	-1.8	36,183	36,857	-1.8
Indiana	428	427	392	18,936	16,854	12.4	21,501	19,243	11.7
<b>Kentucky total</b>	<b>566</b>	<b>565</b>	<b>547</b>	<b>24,693</b>	<b>22,777</b>	<b>8.4</b>	<b>28,271</b>	<b>26,018</b>	<b>8.7</b>
Eastern (KY)	249	249	221	10,570	8,654	22.1	12,017	9,751	23.2
Western (KY)	317	316	326	14,122	14,123	s	16,253	16,267	-0.1
Louisiana	6	6	6	277	261	6.0	315	305	3.3
Maryland	25	25	23	1,159	1,107	4.7	1,312	1,246	5.3
Mississippi	65	66	56	2,965	2,829	4.8	3,329	3,017	10.3
Missouri	1	1	1	44	41	9.3	48	60	-20.0
Montana	588	606	590	25,989	24,647	5.4	29,845	28,188	5.9
New Mexico	240	235	225	9,190	7,767	18.3	10,659	8,897	19.8
North Dakota	502	518	492	23,108	23,230	-0.5	26,326	26,575	-0.9
Ohio	56	57	59	2,363	2,368	-0.2	2,746	2,777	-1.1
Oklahoma	s	s	s	1	s	73.9	1	s	100.0
<b>Pennsylvania total</b>	<b>726</b>	<b>725</b>	<b>792</b>	<b>34,255</b>	<b>37,140</b>	<b>-7.8</b>	<b>39,435</b>	<b>42,244</b>	<b>-6.6</b>
Anthracite (PA)	52	52	49	2,124	1,785	19.0	2,444	2,076	17.7
Bituminous (PA)	674	673	743	32,131	35,355	-9.1	36,991	40,168	-7.9
Tennessee	.	.	.	s	.	100.0	s	.	.
Texas	354	373	383	15,200	14,698	3.4	17,703	17,202	2.9
Utah	231	231	243	10,035	10,811	-7.2	11,626	12,468	-6.8
Virginia	207	212	216	9,397	9,462	-0.7	10,809	10,841	-0.3
<b>West Virginia total</b>	<b>1,606</b>	<b>1,616</b>	<b>1,580</b>	<b>72,186</b>	<b>68,084</b>	<b>6.0</b>	<b>82,517</b>	<b>77,134</b>	<b>7.0</b>
Northern (WV)	911	911	920	40,188	38,324	4.9	46,205	43,718	5.7
Southern (WV)	695	704	660	31,997	29,759	7.5	36,312	33,416	8.7
Wyoming	5,051	5,099	4,900	217,920	206,093	5.7	249,962	235,152	6.3
<b>Appalachian total</b>	<b>3,020</b>	<b>3,040</b>	<b>3,047</b>	<b>137,834</b>	<b>135,216</b>	<b>1.9</b>	<b>157,762</b>	<b>153,817</b>	<b>2.6</b>
<b>Interior total</b>	<b>1,784</b>	<b>1,815</b>	<b>1,783</b>	<b>83,673</b>	<b>81,518</b>	<b>2.6</b>	<b>95,333</b>	<b>92,951</b>	<b>2.6</b>
<b>Western total</b>	<b>6,917</b>	<b>7,011</b>	<b>6,747</b>	<b>299,140</b>	<b>283,484</b>	<b>5.5</b>	<b>343,260</b>	<b>323,724</b>	<b>6.0</b>
<b>East of Mississippi River</b>	<b>4,444</b>	<b>4,476</b>	<b>4,442</b>	<b>205,985</b>	<b>201,734</b>	<b>2.1</b>	<b>235,029</b>	<b>229,201</b>	<b>2.5</b>
<b>West of Mississippi River</b>	<b>7,278</b>	<b>7,391</b>	<b>7,136</b>	<b>314,662</b>	<b>298,484</b>	<b>5.4</b>	<b>361,327</b>	<b>341,291</b>	<b>5.9</b>
Bituminous and lignite	11,669	11,815	11,529	518,523	498,434	4.0	593,911	568,416	4.5
Anthracite	52	52	49	2,124	1,785	19.0	2,444	2,076	17.7
<b>U.S. total</b>	<b>11,721</b>	<b>11,867</b>	<b>11,578</b>	<b>520,648</b>	<b>500,218</b>	<b>4.1</b>	<b>596,355</b>	<b>570,493</b>	<b>4.5</b>
Railroad cars loaded	67,493	68,303	67,225	2,990,872	2,885,561	3.6	3,431,439	3,299,616	4.0

Source: Energy Information Administration

EEI

**Weekly Electric Output**

**Volume 90 No. 46**

**OUTPUT FOR WEEK ENDED - Nov 12, 2022**

**Nov 16, 2022**

The net available amount of electric energy distributed by the Total Electric Utility Industry\* for the week ended Saturday, **Nov 12, 2022** was **70,667** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **171** on the weekly electric output index.

**WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION**

(48 CONTIGUOUS STATES)

	Week Ended November 12		52 Weeks Ended November 12	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	1,951	-2.6	115,732	-0.3
Mid-Atlantic	6,825	-3.1	417,895	-0.1
Central Industrial	10,908	-3.5	653,804	0.5
West Central	5,944	0.9	340,139	1.8
Southeast	17,306	0.1	1,027,457	1.1
South Central	14,327	10.6	830,879	6.8
Rocky Mountain	5,192	0.8	294,857	0.7
Pacific Northwest	3,396	11.8	160,176	1.4
Pacific Southwest	4,818	-0.7	273,722	2.4
<b>Total United States</b>	<b>70,667</b>	<b>1.7</b>	<b>4,114,661</b>	<b>2.1</b>

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

Week Ended	2022	Week Ended	2021	% Inc. (22/21)	52 Weeks Ended	2022	% Inc. (22/21)
Oct 22	69,780	Oct 23	68,303	2.2	Oct 22	4,114,795	2.1
Oct 29	68,883	Oct 30	69,278	-0.6	Oct 29	4,114,400	2.1
Nov 05	69,293	Nov 06	70,190	-1.3	Nov 05	4,113,504	2.0
Nov 12	70,667	Nov 13	69,510	1.7	Nov 12	4,114,661	2.1
<b>Nov 12</b>	<b>3,668,399</b>	<b>Nov 13</b>	<b>3,586,373</b>	<b>2.3</b>	<b>YEAR TO DATE, FIRST 46 WEEKS</b>		

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

**SEASONALLY ADJUSTED 1982 = 100**

Week Ended	2022	Week Ended	2021	Week Ended	2020
Oct 22	183	Oct 23	175	Oct 24	177
Oct 29	180	Oct 30	177	Oct 31	175
Nov 05	173	Nov 06	173	Nov 07	178
Nov 12	171	Nov 13	166	Nov 14	174

\* 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		
	12-Nov 2022 GWh Output	13-Nov 2021 GWh Output	% Increase Over Corresponding Week	12-Nov 2022 GWh Output	13-Nov 2021 GWh Output	% Increase Over Corresponding Week	12-Nov 2022 GWh Output	13-Nov 2021 GWh Output	% Increase Over Corresponding Week
<b>New England</b>	1,951	2,002	-2.5%	<b>102,280</b>	<b>102,480</b>	<b>-0.2%</b>	115,732	116,024	-0.3%
<b>Mid-Atlantic</b>	6,825	7,042	-3.1%	<b>371,450</b>	<b>371,853</b>	<b>-0.1%</b>	417,895	418,418	-0.1%
<b>Central Industrial</b>	10,908	11,301	-3.5%	<b>580,619</b>	<b>577,855</b>	<b>0.5%</b>	653,804	650,642	0.5%
<b>West Central</b>	5,944	5,894	0.8%	<b>302,351</b>	<b>297,349</b>	<b>1.7%</b>	340,139	334,095	1.8%
<b>Southeast</b>	17,306	17,280	0.2%	<b>916,467</b>	<b>903,847</b>	<b>1.4%</b>	1,027,457	1,016,373	1.1%
<b>South Central</b>	14,327	12,951	10.6%	<b>749,182</b>	<b>696,317</b>	<b>7.6%</b>	830,879	777,775	6.8%
<b>Rocky Mountain</b>	5,192	5,152	0.8%	<b>262,167</b>	<b>260,256</b>	<b>0.7%</b>	294,857	292,942	0.7%
<b>Pacific Northwest</b>	3,396	3,037	11.8%	<b>139,769</b>	<b>137,769</b>	<b>1.5%</b>	160,176	157,934	1.4%
<b>Pacific Southwest</b>	4,818	4,851	-0.7%	<b>244,113</b>	<b>238,652</b>	<b>2.3%</b>	273,722	267,319	2.4%
<b>Total United States <sup>1/</sup></b>	<b>70,667</b>	<b>69,510</b>	<b>1.7%</b>	<b>3,668,398</b>	<b>3,586,378</b>	<b>2.3%</b>	<b>4,114,661</b>	<b>4,031,522</b>	<b>2.1%</b>
<b>Coal Regions Only <sup>2/</sup></b>	60,502	59,620	1.5%	<b>3,182,236</b>	<b>3,107,477</b>	<b>2.4%</b>	3,565,031	3,490,245	2.1%

**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.**

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

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

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

AMERICAN IRON AND STEEL INSTITUTE  
 25 Massachusetts Avenue, NW, Suite 800  
 Washington, D.C. 20001

November 14, 2022

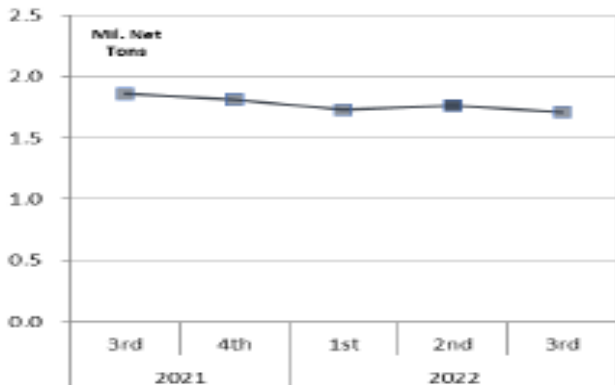
**ESTIMATED WEEKLY RAW STEEL \* PRODUCTION**

<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 Nov 12</u>	<u>Week Ending Nov 5</u>	
<b><u>Week Ending</u></b>				North East	143	145
				Great Lakes	536	529
November 12, 2022	1,645	0.3	73.7	Midwest	187	182
November 12, 2021	1,828	-10.0	82.8	Southern	709	716
November 5, 2022	1,640	-1.4	73.5	Western	70	68
				<b>Total</b>	<b>1,645</b>	<b>1,640</b>
<b><u>Year-to-Date +</u></b>						
November 12, 2022	77,992	-4.9	78.8			
November 12, 2021	82,049	-	81.3			

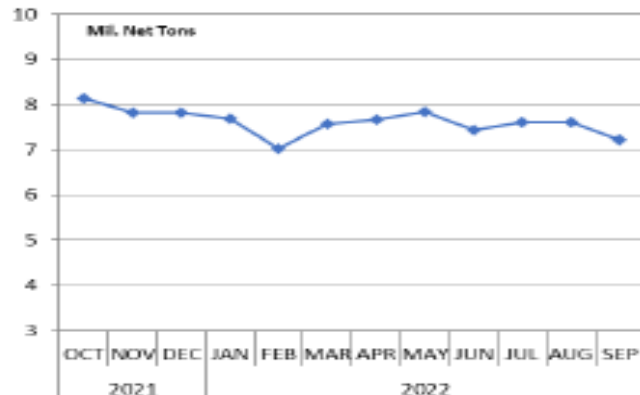
\*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides 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: Rate of capability utilization for June 2022 was approximately 79.6%, 7.45 million net tons. Given the large number of changes to steelmaking capability and the evolving market, AISI is updating the capacity statistics.

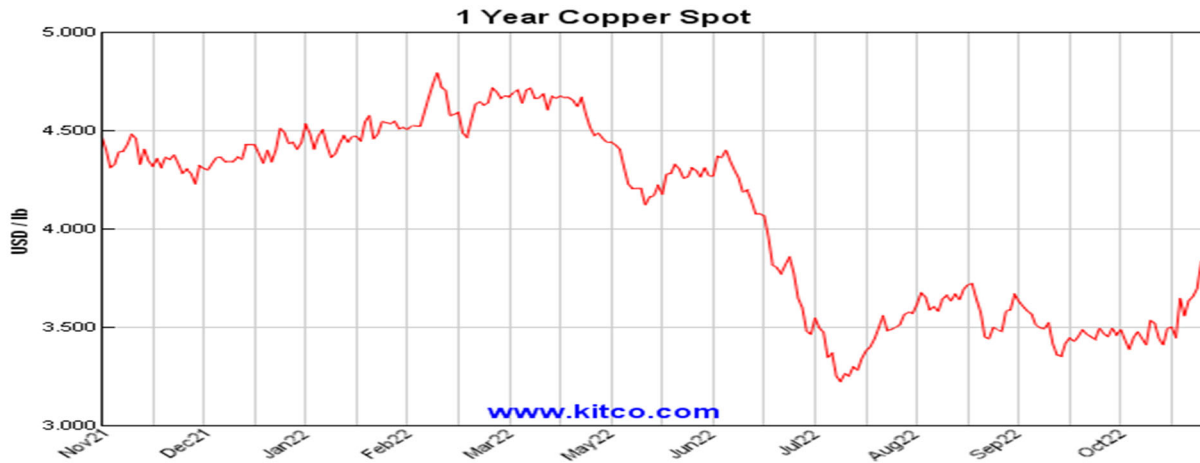
**Average Weekly Raw Steel Production**



**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)

### U.S. Rail Traffic<sup>1</sup> Week 45, 2022 – Ended November 12, 2022

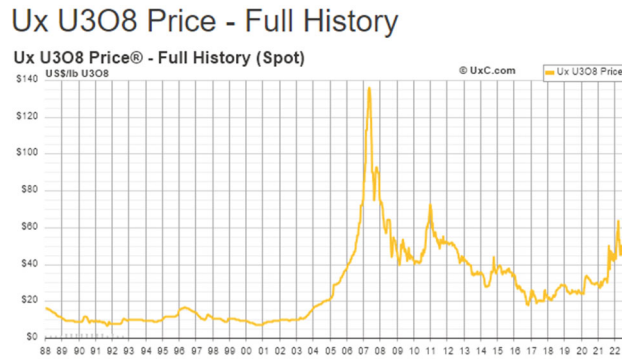
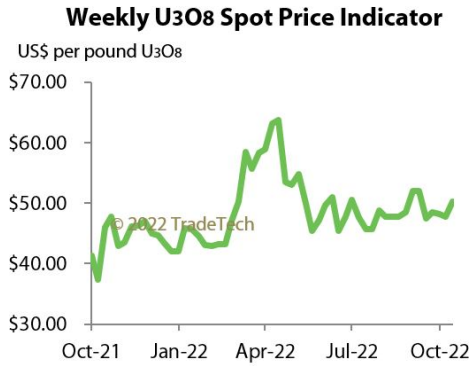
	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk <sup>2</sup>	vs 2021
<b>Total Carloads</b>	<b>235,474</b>	<b>-0.2%</b>	<b>10,450,126</b>	<b>232,225</b>	<b>0.2%</b>
Chemicals	32,168	-4.1%	1,490,162	33,115	2.1%
Coal	67,493	0.4%	2,983,631	66,303	3.6%
Farm Products excl. Grain, and Food	17,242	4.5%	735,549	16,346	3.4%
Forest Products	9,057	-8.1%	436,286	9,695	-3.4%
Grain	23,932	-5.4%	1,000,729	22,238	-4.1%
Metallic Ores and Metals	19,346	-4.5%	943,928	20,976	-7.3%
Motor Vehicles and Parts	14,829	16.9%	600,301	13,340	3.3%
Nonmetallic Minerals	32,706	5.4%	1,425,243	31,672	4.4%
Petroleum and Petroleum Products	10,056	-0.9%	431,606	9,591	-8.6%
Other	8,645	-8.2%	402,691	8,949	-9.6%
<b>Total Intermodal Units</b>	<b>254,876</b>	<b>-4.5%</b>	<b>11,835,682</b>	<b>263,015</b>	<b>-4.7%</b>
<b>Total Traffic</b>	<b>490,350</b>	<b>-2.5%</b>	<b>22,285,808</b>	<b>495,240</b>	<b>-2.5%</b>

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

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

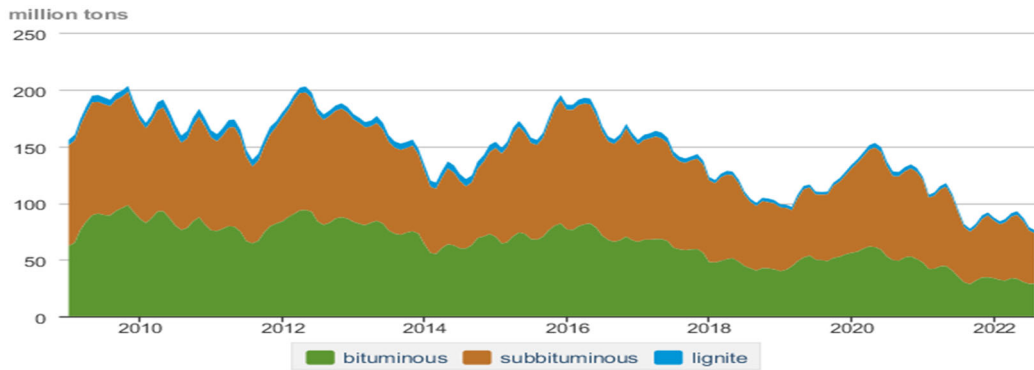
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

### Trade Tech's and UX's Uranium Price Indicators



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

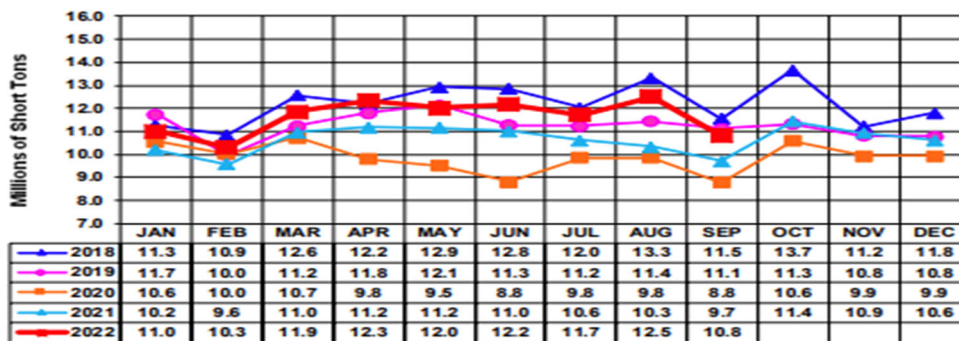
### Coal stocks by type, January 2009 - August 2022



Source: U.S. Energy Information Administration

Source: Energy Information Administration, Electric Monthly Update

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



For the Internal U.S. Waterway Monthly Indicators, estimates for the most recent month are based on lock performance management data. The estimates will be superseded by actual data as it becomes available.

Source: Waterborne Commerce Statistics Center

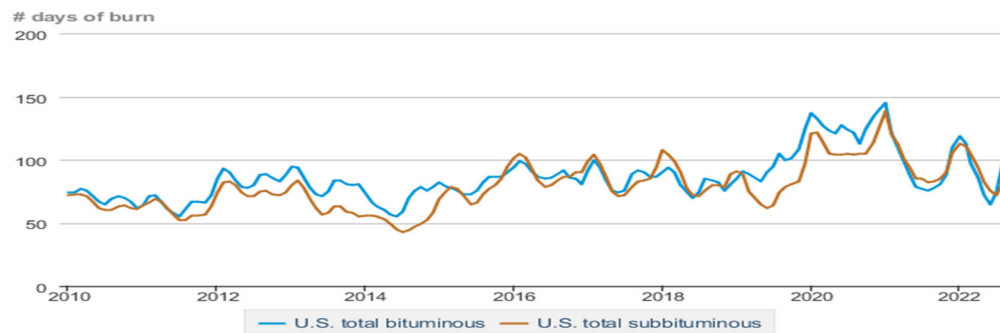
Average weekly coal commodity spot prices  
dollars per short ton

	Week ending					Week ago
	10/14/22	10/21/22	10/28/22	11/04/22	11/11/22	change
Central Appalachia 12,500 Btu, 1.2 SO <sub>2</sub>	\$176.65	\$176.65	\$182.10	\$182.10	\$182.10	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO <sub>2</sub>	\$180.25	\$180.25	\$185.80	\$185.80	\$185.80	\$0.00
Illinois Basin 11,800 Btu, 5.0 SO <sub>2</sub>	\$186.50	\$186.50	\$186.50	\$186.50	\$186.50	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO <sub>2</sub>	\$17.45	\$17.45	\$17.15	\$17.15	\$17.15	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO <sub>2</sub>	\$41.95	\$41.95	\$41.80	\$41.80	\$41.80	\$0.00

Data source: With permission, S&P Global

Source: Energy Information Administration (with permission from S&P Global), *Coal Market Report*

Days of burn by non-lignite coal rank, January 2010 - August 2022



Source: U.S. Energy Information Administration

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

Temperature – heating & cooling degree days (week ending Nov 03)

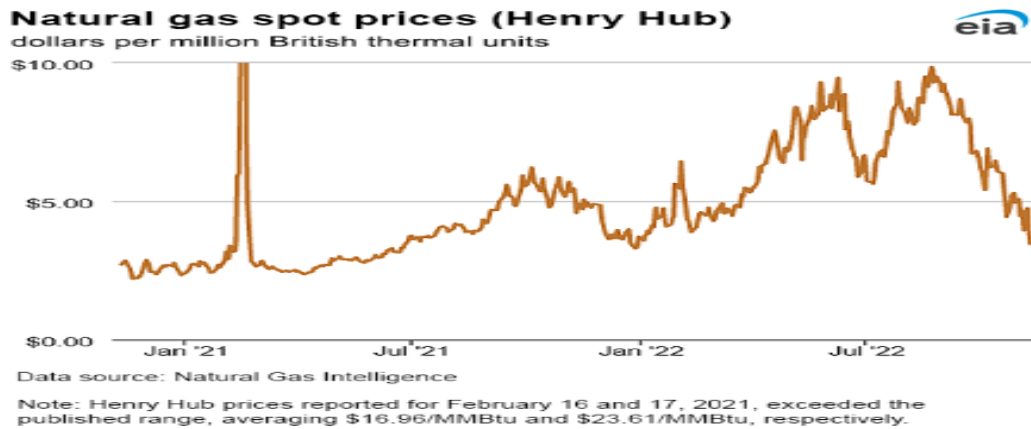
Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	102	-29	-10	0	0	0
Middle Atlantic	91	-31	-12	0	0	0
E N Central	91	-44	-38	0	0	0
W N Central	84	-58	-67	0	0	0
South Atlantic	52	-23	-20	24	7	9
E S Central	42	-34	-43	0	-3	0
W S Central	34	-7	-14	14	-1	5
Mountain	134	4	28	0	-4	-6
Pacific	71	12	31	0	-2	-1
United States	79	-23	-15	6	0	2

Data source: National Oceanic and Atmospheric Administration  
Note: HDDs=heating degree days; CDDs=cooling degree days

Source: Energy Information Administration, *Natural Gas Weekly Update*.

USGS Production of Selected Mineral Commodities	2022 Year to Date - 2nd Quarter	2021 Year to Date - 2nd Quarter	Percent Change
Aluminum, secondary (000 Mt.)	434.0	418.0	4%
Cement (Mil. Mt.)	44.1	42.6	4%
Copper (000 Mt.)	621.0	595.0	4%
Gold (Mt.)	80.8	89.1	-9%
Gypsum (Mil. Mt.)	9.1	9.6	-5%
Iron Ore (Mil. Mt.)	22.6	26.0	-13%
Lead (000 Mt.)	142.0	146.0	-3%
Molybdenum (000 Mt.)	20.5	22.4	-8%
Palladium (Mt.)	5.9	7.2	-18%
Phosphate rock (Mil. Mt.)	10.0	11.0	-9%
Platinum (Mt.)	1.7	2.1	-19%
Sand & gravel, construction (Mil. Mt.)	459.0	448.0	2%
Silver (Mt.)	504.0	516.0	-2%
Soda ash (Mil. Mt.)	5.5	5.6	-2%
Stone, crushed (Mil. Mt.)	705.0	688.0	2%
Zinc (000 Mt.)	369.0	354.0	4%

Source: U.S. Geological Survey, Mineral Industry Surveys. Percent change based on USGS rounded numbers. 2022 data are preliminary estimates. W - withheld, N/A - not available



Source: Energy Information Administration, *Natural Gas Weekly*.

**Coal stocks and average number of days of burn for non-lignite coal by region (electric power sector)**

Zone	Coal	August 2022		August 2021		% Change of Stocks	July 2022		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	1,607	362	1,634	242	-1.6%	1,672	365	-3.8%
	Subbituminous								
South	Bituminous	11,197	88	11,024	73	1.6%	10,833	56	3.4%
	Subbituminous	3,310	47	3,009	38	10.0%	3,254	38	1.7%
Midwest	Bituminous	6,528	76	5,951	61	9.7%	6,748	65	-3.3%
	Subbituminous	14,452	96	18,048	102	-19.9%	15,941	93	-9.3%
West	Bituminous	3,186	165	2,156	109	47.7%	3,221	159	-1.1%
	Subbituminous	14,614	79	16,520	77	-11.5%	15,571	70	-6.1%
U.S. Total	Bituminous	22,517	96	20,766	76	8.4%	22,473	74	0.2%
	Subbituminous	32,375	81	37,576	82	-13.8%	34,766	72	-6.9%

Source: Energy Information Administration, *Electricity Monthly Update*

## EIA Working Natural Gas Underground Storage

### Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2022-11-04	2022-10-28	change
East	865	848	17
Midwest	1,068	1,042	26
Mountain	208	204	4
Pacific	247	247	0
South Central	1,193	1,160	33
<b>Total</b>	<b>3,580</b>	<b>3,501</b>	<b>79</b>

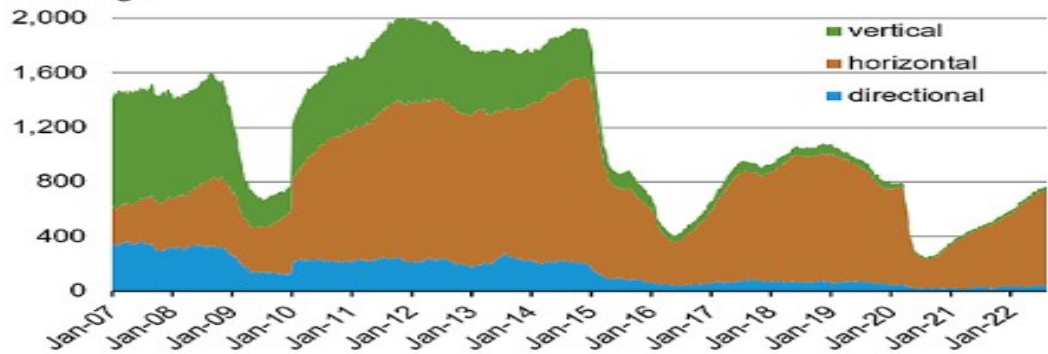
Data source: U.S. Energy Information Administration Form EIA-912, *Weekly Underground Natural Gas Storage Report*

Source: Energy Information Administration, *Natural Gas Weekly Update*

## EIA Natural Gas Rig Count

### Weekly total rig count

active rigs



Data source: Baker Hughes Company

Source: Energy Information Administration, *Natural Gas Weekly Update*

## EIA Oil and Natural Gas Rig Productivity

NEW-WELL PRODUCTION  
PER RIG BY REGION

PRODUCTION  
BY REGION

DUC WELLS BY  
REGION

Region	New-well oil production per rig barrels/day			New-well gas production per rig thousand cubic feet/day		
	November 2022	December 2022	change	November 2022	December 2022	change
Anadarko	696	697	1	3,796	3,803	7
Appalachia	191	191	-	26,985	26,149	(836)
Bakken	1,696	1,710	14	2,510	2,535	25
Eagle Ford	1,557	1,541	(16)	6,133	6,041	(92)
Haynesville	20	20	-	10,781	10,760	(21)
Niobrara	1,395	1,388	(7)	3,545	3,492	(53)
Permian	1,061	1,049	(12)	2,112	2,089	(23)
Rig-weighted average	964	953	(11)	5,513	5,549	36

Source: Energy Information Administration, *Drilling Productivity Report*

### USGS Cobalt – U.S. Trade, Reported Stocks and Listed Prices

Cobalt - March 2022	Mar-22	Year to Date
U.S. Imports for Consumption - Metals (mt)	648	1,840
U.S. Exports of Cobalt Materials - Cobalt Content (mt)	597	1,340
Reported Stocks of Cobalt Metal (mt)	U.S. Govt	LME
	302	248
Listed Prices by Type (\$/lb): US Spot & LME Cash Avg.	38.17	36.47

Source: USGS, Mineral Industry Survey, Cobalt in March 2022, May 2022

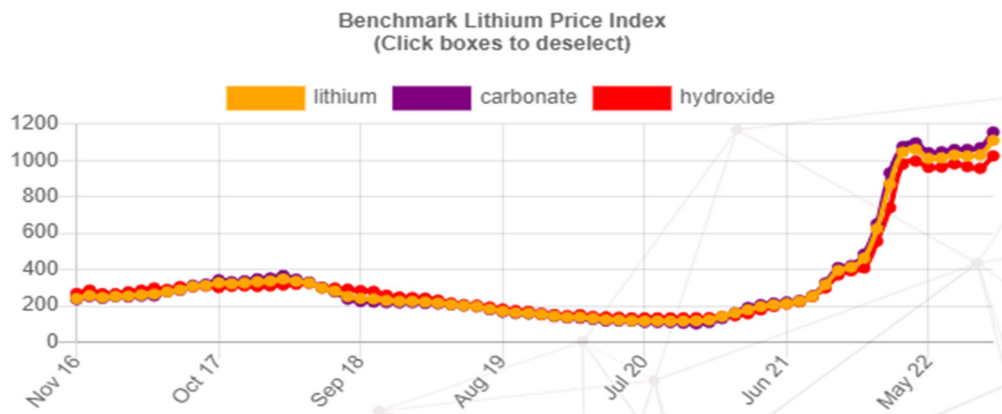
### Cobalt and Lithium Prices

#### Cobalt Prices (US\$/pound):



Source: Dailymetalprice.com - <https://www.dailymetalprice.com/metalpricecharts.php?c=co&u=lb&d=0>

#### Lithium Price Index:



Source: Benchmark Mineral Intelligence - <https://www.benchmarkminerals.com/lithium-prices/>