



# NATIONAL MINING ASSOCIATION

## WEEKLY STATISTICAL SUMMARY

**September 9, 2022 Edition**

(Data for Week Ending September 3, 2022)

Prepared by

**National Mining Association**

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# NMA WEEKLY STATISTICAL SUMMARY

Vol. 60, No. 36 | Dated 09/09/22

## PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	09/03/22	09/04/21	% Chg	09/03/22	09/03/21	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	12,500	11,383	9.8%	401,818	386,493	4.0%
52 Weeks Ended	591,330	559,373	5.7%			
AAR Coal Rail Cars Loaded:	72,999	66,950	9.0%	2,303,471	2,219,708	3.8%
Coal Production	Aug 22/21		% Chg	Jan - Aug 22/21		% Chg
Month Ended - August	52,815	50,039	5.5%	381,317	396,437	-3.8%

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

	July 22/21		% Chg	Jan - July 22/21		% Chg
	July 22/21	July 22/21		Jan - July 22/21	Jan - July 22/21	
Exports:						
Metallurgical	3,822	3,390	12.7%	27,363	25,428	7.6%
Steam Bit. *	2,765	3,115	-11.2%	22,205	23,713	-6.4%
Lignite	6	4	50.0%	48	45	6.7%
Anthracite	102	5	1940.0%	393	194	102.6%
Total	6,695	6,514	2.8%	50,009	49,380	1.3%
Imports:	660	564	17.0%	3,618	3,170	14.1%

	Week Ended			Cumulative Week 1 to		
	09/03/22	09/04/21	% Chg	09/03/22	09/04/21	% Chg
EEl Electric Total Output (Mil. Kwh)	88,595	84,565	4.8%	2,938,006	2,847,851	3.2%
EEl Coal Region Output (Mil. Kwh)	76,476	73,816	3.6%	2,553,317	2,468,409	3.4%
AISI Raw Steel Output (000 Tons)	1,715	1,858	-7.7%	61,318	63,690	-3.7%

## EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	09/02/22	08/26/22	% Chg	Wed.	08/31/22
Central App, 12,500 Btu, 1.2 SO <sub>2</sub>	\$192.90	\$187.15	3.1%	Henry Hub	8.95
Northern App, 13,000 Btu, < 3.0 SO <sub>2</sub>	176.50	145.85	21.0%	New York	8.43
Illinois Basin, 11,800, 5.0 SO <sub>2</sub>	196.65	189.70	3.7%	Chicago	8.53
Powder River Basin, 8,800 Btu 0.8 SO <sub>2</sub>	16.20	16.25	-0.3%	Cal.Comp.Avg.	10.74
Uinta Basin, 11,700 Btu, 0.8 SO <sub>2</sub>	42.70	42.85	-0.4%		

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

## EIA Estimated Weekly U.S. Coal Production Overview

Coal-Producing Region & State (thousand short tons)	Week Ended			Year to Date			52 Weeks Ended		
	9/3/2022 (week 36)	8/27/2022 (week 35)	9/4/2021 (week 36)	9/3/2022	9/3/2021	% Change	9/3/2022	9/4/2021	% Change
Alabama	163	146	172	6,338	6,795	-6.7	8,966	10,348	-13.4
Alaska	19	18	17	645	702	-8.1	983	1,040	-5.5
Colorado	314	316	260	9,044	7,371	22.7	13,515	10,678	26.6
Illinois	681	648	620	25,781	26,576	-3.0	35,972	36,676	-1.9
Indiana	440	416	384	14,687	13,006	12.9	21,102	18,976	11.2
<b>Kentucky total</b>	<b>577</b>	<b>557</b>	<b>488</b>	<b>19,076</b>	<b>17,595</b>	<b>8.4</b>	<b>27,844</b>	<b>25,622</b>	<b>8.7</b>
Eastern (KY)	252	247	193	8,102	6,574	23.2	11,633	9,248	25.8
Western (KY)	325	310	295	10,974	11,021	-0.4	16,211	16,374	-1.0
Louisiana	7	8	8	212	194	9.0	317	298	6.4
Maryland	27	28	25	907	868	4.5	1,299	1,200	8.3
Mississippi	75	72	66	2,293	2,240	2.4	3,246	2,845	14.1
Missouri	s	s	s	39	37	5.2	46	86	-46.5
Montana	645	668	599	19,916	18,776	6.1	29,642	27,344	8.4
New Mexico	213	205	155	6,939	5,816	19.3	10,368	8,752	18.5
North Dakota	548	544	555	17,911	18,113	-1.1	26,238	26,413	-0.7
Ohio	56	54	56	1,804	1,799	0.3	2,757	2,823	-2.3
Oklahoma	s	s	s	1	s	120.7	1	s	100.0
<b>Pennsylvania total</b>	<b>777</b>	<b>777</b>	<b>707</b>	<b>26,947</b>	<b>29,638</b>	<b>-9.1</b>	<b>39,640</b>	<b>41,938</b>	<b>-5.5</b>
Anthracite (PA)	49	47	39	1,620	1,340	20.9	2,386	2,069	15.3
Bituminous (PA)	728	730	668	25,327	28,298	-10.5	37,254	39,870	-6.6
Tennessee	.	.	.	s	.	100.0	s	.	.
Texas	390	379	369	11,483	10,965	4.7	17,721	17,222	2.9
Utah	241	247	240	7,731	8,416	-8.1	11,717	12,534	-6.5
Virginia	228	245	221	7,262	7,306	-0.6	10,828	10,555	2.6
<b>West Virginia total</b>	<b>1,669</b>	<b>1,653</b>	<b>1,435</b>	<b>56,074</b>	<b>53,023</b>	<b>5.8</b>	<b>81,485</b>	<b>75,080</b>	<b>8.0</b>
Northern (WV)	926	907	791	31,133	29,727	4.7	45,763	42,774	7.0
Southern (WV)	743	747	643	24,941	23,296	7.1	35,721	32,306	10.6
Wyoming	5,428	5,589	5,005	166,726	157,202	6.1	247,645	228,944	8.2
<b>Appalachian total</b>	<b>3,172</b>	<b>3,149</b>	<b>2,809</b>	<b>107,435</b>	<b>106,003</b>	<b>1.4</b>	<b>156,607</b>	<b>151,193</b>	<b>3.6</b>
<b>Interior total</b>	<b>1,920</b>	<b>1,834</b>	<b>1,741</b>	<b>65,471</b>	<b>64,039</b>	<b>2.2</b>	<b>94,615</b>	<b>92,475</b>	<b>2.3</b>
<b>Western total</b>	<b>7,408</b>	<b>7,587</b>	<b>6,832</b>	<b>228,912</b>	<b>216,396</b>	<b>5.8</b>	<b>340,108</b>	<b>315,704</b>	<b>7.7</b>
<b>East of Mississippi River</b>	<b>4,694</b>	<b>4,595</b>	<b>4,173</b>	<b>161,171</b>	<b>158,846</b>	<b>1.5</b>	<b>233,138</b>	<b>226,063</b>	<b>3.1</b>
<b>West of Mississippi River</b>	<b>7,806</b>	<b>7,975</b>	<b>7,210</b>	<b>240,647</b>	<b>227,593</b>	<b>5.7</b>	<b>358,193</b>	<b>333,310</b>	<b>7.5</b>
Bituminous and lignite	12,451	12,524	11,344	400,197	385,098	3.9	588,944	557,304	5.7
Anthracite	49	47	39	1,620	1,340	20.9	2,386	2,069	15.3
<b>U.S. total</b>	<b>12,500</b>	<b>12,571</b>	<b>11,383</b>	<b>401,818</b>	<b>386,439</b>	<b>4.0</b>	<b>591,330</b>	<b>559,373</b>	<b>5.7</b>
Railroad cars loaded	72,999	74,295	66,950	2,303,471	2,219,708	3.8	3,409,926	3,230,134	5.6

Source: Energy Information Administration



## Weekly Electric Output

Volume 90 No. 36

### OUTPUT FOR WEEK ENDED - Sep 03, 2022

Sep 08, 2022

The net available amount of electric energy distributed by the Total Electric Utility Industry\* for the week ended Saturday, **Sep 03, 2022** was **88,595** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **200** on the weekly electric output index.

### WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended September 03		52 Weeks Ended September 03	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	2,448	6.1	116,561	0.8
Mid-Atlantic	9,363	9.0	420,996	1.5
Central Industrial	13,719	3.7	658,333	2.2
West Central	7,193	3.9	340,635	3.0
Southeast	22,478	5.4	1,034,145	2.6
South Central	16,891	-3.1	826,790	7.5
Rocky Mountain	6,832	8.1	294,282	0.4
Pacific Northwest	2,794	9.2	160,454	1.9
Pacific Southwest	6,877	16.9	270,594	0.6
Total United States	88,595	4.8	4,122,790	3.0

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

Week Ended	2022	Week Ended	2021	% Inc. (22/21)	52 Weeks Ended	2022	% Inc. (22/21)
Aug 13	91,862	Aug 14	93,435	-1.7	Aug 13	4,127,606	3.3
Aug 20	86,685	Aug 21	89,556	-3.2	Aug 20	4,124,735	3.1
Aug 27	87,491	Aug 28	93,467	-6.4	Aug 27	4,118,759	2.9
Sep 03	88,595	Sep 04	84,565	4.8	Sep 03	4,122,789	3.0
<b>Sep 03</b>	<b>2,938,006</b>	<b>Sep 04</b>	<b>2,847,851</b>	<b>3.2</b>	<b>YEAR TO DATE, FIRST 36 WEEKS</b>		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2022	Week Ended	2021	Week Ended	2020
Aug 13	197	Aug 14	192	Aug 15	183
Aug 20	190	Aug 21	187	Aug 22	175
Aug 27	192	Aug 28	196	Aug 29	187
Sep 03	200	Sep 04	183	Sep 05	178

\* 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		
	3-Sep 2022 GWh Output	4-Sep 2021 GWh Output	% Increase Over Corresponding Week	3-Sep 2022 GWh Output	4-Sep 2021 GWh Output	% Increase Over Corresponding Week	3-Sep 2022 GWh Output	4-Sep 2021 GWh Output	% Increase Over Corresponding Week
<b>New England</b>	2,448	2,307	6.1%	<b>82,490</b>	<b>81,859</b>	<b>0.8%</b>	116,561	115,668	0.8%
<b>Mid-Atlantic</b>	9,363	8,588	9.0%	<b>300,150</b>	<b>297,451</b>	<b>0.9%</b>	420,996	414,946	1.5%
<b>Central Industrial</b>	13,719	13,232	3.7%	<b>470,133</b>	<b>462,840</b>	<b>1.6%</b>	658,333	644,466	2.2%
<b>West Central</b>	7,193	6,923	3.9%	<b>241,622</b>	<b>236,124</b>	<b>2.3%</b>	340,635	330,856	3.0%
<b>Southeast</b>	22,478	21,328	5.4%	<b>737,134</b>	<b>717,827</b>	<b>2.7%</b>	1,034,145	1,008,118	2.6%
<b>South Central</b>	16,891	17,425	-3.1%	<b>597,303</b>	<b>548,527</b>	<b>8.9%</b>	826,790	768,754	7.5%
<b>Rocky Mountain</b>	6,832	6,320	8.1%	<b>206,975</b>	<b>205,640</b>	<b>0.6%</b>	294,282	293,037	0.4%
<b>Pacific Northwest</b>	2,794	2,560	9.1%	<b>113,207</b>	<b>110,929</b>	<b>2.1%</b>	160,454	157,514	1.9%
<b>Pacific Southwest</b>	6,877	5,882	16.9%	<b>188,992</b>	<b>186,658</b>	<b>1.3%</b>	270,594	269,027	0.6%
<b>Total United States <sup>1/</sup></b>	<b>88,595</b>	<b>84,565</b>	<b>4.8%</b>	<b>2,938,006</b>	<b>2,847,855</b>	<b>3.2%</b>	<b>4,122,790</b>	<b>4,002,386</b>	<b>3.0%</b>
<b>Coal Regions Only <sup>2/</sup></b>	76,476	73,816	3.6%	<b>2,553,317</b>	<b>2,468,409</b>	<b>3.4%</b>	3,575,181	3,460,177	3.3%

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  
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September 6, 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 Sep 3</u>	<u>Week Ending Aug 27</u>
<b><u>Week Ending</u></b>				North East	151 164
				Great Lakes	539 560
September 3, 2022	1,715	-1.8	77.8	Midwest	201 202
September 3, 2021	1,858	-7.7	84.2	Southern	759 758
August 27, 2022	1,747	-0.5	79.3	Western	65 63
				<b>Total</b>	<b>1,715 1,747</b>
<b><u>Year-to-Date +</u></b>					
September 3, 2022	61,318	-3.7	79.9		
September 3, 2021	63,690	-	80.7		

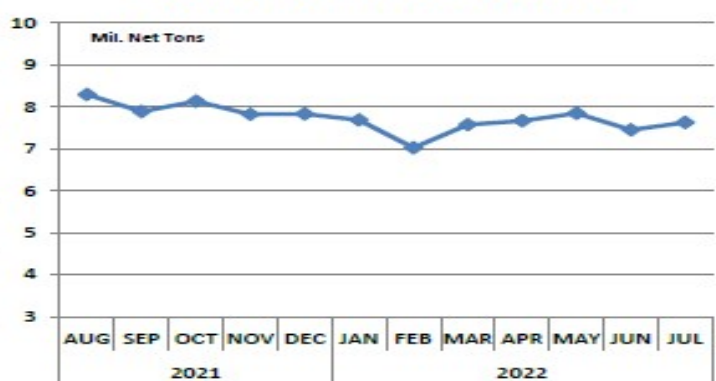
\*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides 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: 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 35, 2022 – Ended September 3, 2022

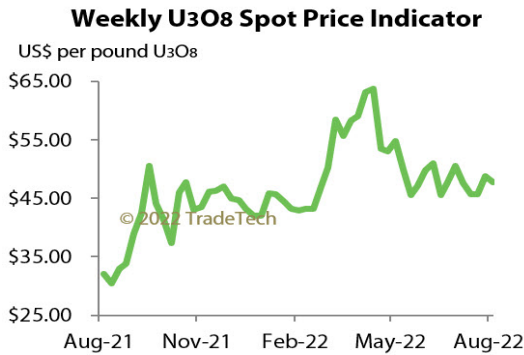
	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk <sup>2</sup>	vs 2021
<b>Total Carloads</b>	<b>241,431</b>	<b>5.7%</b>	<b>8,090,712</b>	<b>231,163</b>	<b>0.25%</b>
Chemicals	32,451	5.3%	1,176,563	33,616	3.6%
Coal	72,999	8.7%	2,296,230	65,607	3.7%
Farm Products excl. Grain, and Food	16,326	6.4%	569,795	16,280	4.1%
Forest Products	9,989	-2.0%	345,176	9,862	-1.7%
Grain	20,342	22.2%	771,799	22,051	-4.5%
Metallic Ores and Metals	22,053	-3.3%	736,007	21,029	-6.9%
Motor Vehicles and Parts	13,829	11.4%	457,472	13,071	0.0%
Nonmetallic Minerals	33,938	5.2%	1,090,693	31,163	4.3%
Petroleum and Petroleum Products	9,604	-4.6%	331,374	9,468	-11.2%
Other	9,900	-8.2%	315,603	9,017	-8.8%
<b>Total Intermodal Units</b>	<b>271,656</b>	<b>2.1%</b>	<b>9,248,250</b>	<b>264,236</b>	<b>-5.1%</b>
<b>Total Traffic</b>	<b>513,087</b>	<b>3.7%</b>	<b>17,338,962</b>	<b>495,399</b>	<b>-2.7%</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.

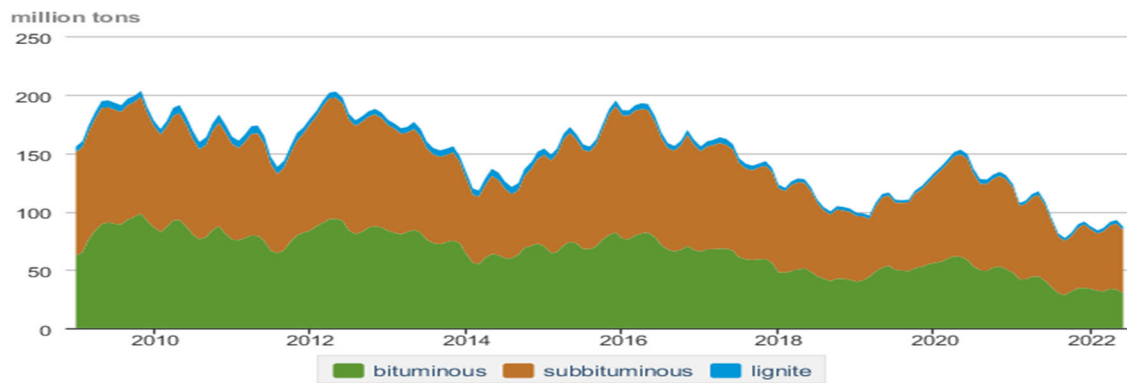
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

### 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>

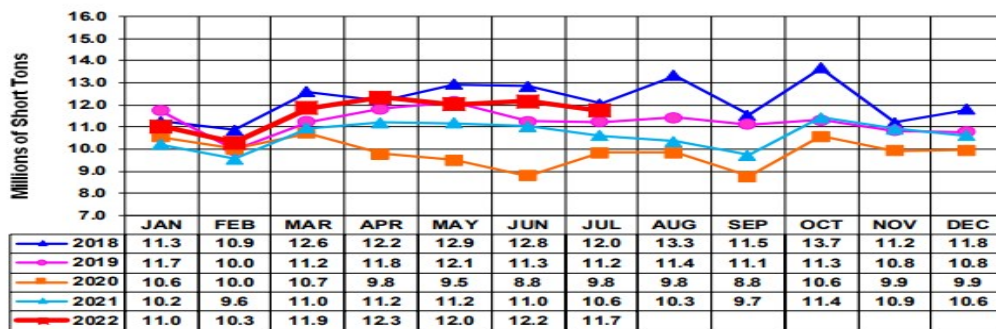
### Coal stocks by type, January 2009 - June 2022



Source: U.S. Energy Information Administration

Source: Energy Information Administration, Electric Monthly Update

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



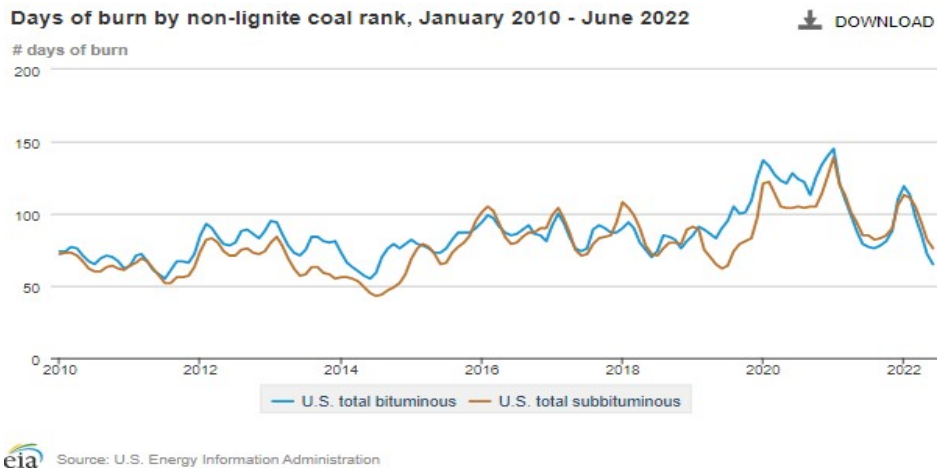
For the Internal U.S. Waterway Monthly Indicators, estimates for the most recent month are based on lock performance management data. The estimates will be superseded by actual data as it becomes available.

Source: Waterborne Commerce Statistics Center

Average weekly coal commodity spot prices  
dollars per short ton

	Week ending					Week ago
	08/05/22	08/12/22	08/19/22	08/26/22	09/02/22	change
Central Appalachia 12,500 Btu, 1.2 SO <sub>2</sub>	\$181.55	\$181.55	\$187.15	\$187.15	\$192.90	\$5.75
Northern Appalachia 13,000 Btu, < 3.0 SO <sub>2</sub>	\$141.50	\$141.50	\$145.85	\$145.85	\$176.50	\$30.65
Illinois Basin 11,800 Btu, 5.0 SO <sub>2</sub>	\$186.50	\$186.50	\$189.70	\$189.70	\$196.65	\$6.95
Powder River Basin 8,800 Btu, 0.8 SO <sub>2</sub>	\$16.30	\$16.30	\$16.25	\$16.25	\$16.20	\$-0.05
Uinta Basin 11,700 Btu, 0.8 SO <sub>2</sub>	\$43.00	\$43.00	\$42.85	\$42.85	\$42.70	\$-0.15

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



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

Region	Temperature – heating & cooling degree days (week ending Aug 18)					
	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	3	-1	2	24	-10	-40
Middle Atlantic	3	0	3	35	-14	-41
E N Central	9	3	6	24	-22	-28
W N Central	2	-3	0	52	-8	-11
South Atlantic	0	0	0	76	-14	-31
E S Central	0	0	0	72	-15	-25
W S Central	0	0	0	126	4	8
Mountain	0	-6	-1	72	2	2
Pacific	0	-3	-1	74	30	4
United States	3	-1	2	62	-6	-19

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

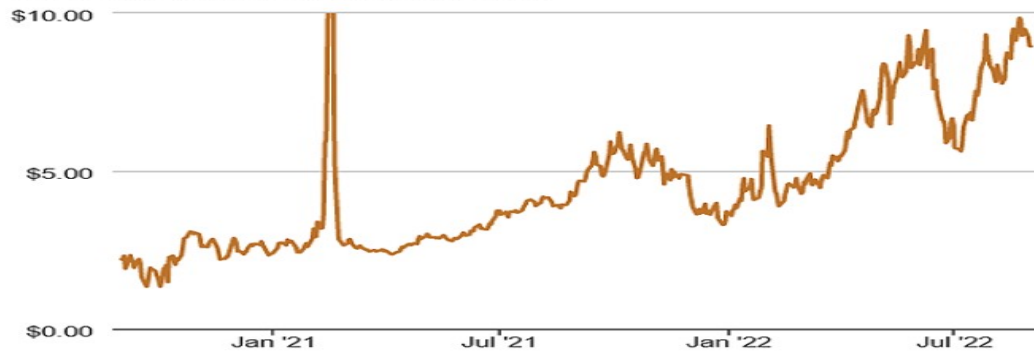
Source: Energy Information Administration, *Natural Gas Weekly Update*.

USGS Production of Selected Mineral Commodities	2022 Year to Date - 1st Quarter	2021 Year to Date - 1st Quarter	Percent Change
Aluminum, secondary (000 Mt.)	215.0	209.0	3%
Cement (Mil. Mt.)	19.1	18.1	6%
Copper (000 Mt.)	321.0	297.0	8%
Gold (Mt.)	52.5	44.7	17%
Gypsum (Mil. Mt.)	4.3	4.6	-7%
Iron Ore (Mil. Mt.)	10.5	13.2	-20%
Lead (000 Mt.)	68.2	72.6	-6%
Molybdenum (000 Mt.)	9.0	13.1	-31%
Palladium (Mt.)	2.9	3.7	-22%
Phosphate rock (Mil. Mt.)	4.6	5.3	-13%
Platinum (Mt.)	0.9	1.1	-18%
Sand & gravel, construction (Mil. Mt.)	185.0	176.0	5%
Silver (Mt.)	255.0	255.0	0%
Soda ash (Mil. Mt.)	2.8	2.7	4%
Stone, crushed (Mil. Mt.)	291.0	281.0	4%
Zinc (000 Mt.)	180.0	163.0	10%

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

### Natural gas spot prices (Henry Hub)

dollars per million British thermal units



Data source: Natural Gas Intelligence

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	June 2022		June 2021		% Change of Stocks	May 2022		
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	% Change of Stocks
Northeast	Bituminous	1,644	298	2,627	365	-37.4%	1,384	270	18.8%
	Subbituminous								
South	Bituminous	11,374	53	14,613	65	-22.2%	12,155	63	-6.4%
	Subbituminous	3,602	40	4,931	54	-27.0%	3,503	45	2.8%
Midwest	Bituminous	6,925	59	8,801	73	-21.3%	7,010	65	-1.2%
	Subbituminous	19,048	92	23,351	106	-18.4%	19,538	92	-2.5%
West	Bituminous	3,279	156	2,770	134	18.4%	3,143	147	4.3%
	Subbituminous	18,135	78	21,522	82	-15.7%	19,578	88	-7.4%
U.S. Total	Bituminous	23,222	65	28,810	79	-19.4%	23,692	72	-2.0%
	Subbituminous	40,785	76	49,804	85	-18.1%	42,619	82	-4.3%

Source: Energy Information Administration, *Electricity Monthly Update*

### EIA Working Natural Gas Underground Storage

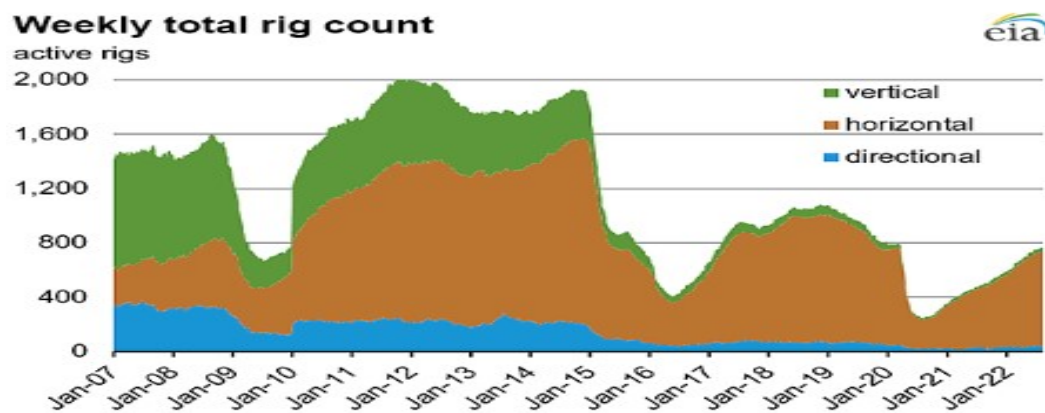
**Working gas in underground storage**

Region	Stocks billion cubic feet (Bcf)		
	2022-08-26	2022-08-19	change
East	614	598	16
Midwest	747	714	33
Mountain	157	153	4
Pacific	241	243	-2
South Central	881	871	10
Total	2,640	2,579	61

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



Data source: Baker Hughes Company

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

### EIA Oil and Natural Gas Rig Productivity

Region	NEW-WELL PRODUCTION PER RIG BY REGION			PRODUCTION BY REGION			DUC WELLS BY REGION		
	New-well oil production per rig barrels/day			New-well gas production per rig thousand cubic feet/day					
	August 2022	September 2022	change	August 2022	September 2022	change			
Anadarko	711	713	2	3,827	3,823	(4)			
Appalachia	191	191	-	27,939	27,855	(84)			
Bakken	1,726	1,726	-	2,503	2,503	-			
Eagle Ford	1,739	1,695	(44)	6,550	6,386	(164)			
Haynesville	20	20	-	11,022	10,912	(110)			
Niobrara	1,517	1,502	(15)	3,817	3,759	(58)			
Permian	1,107	1,095	(12)	2,150	2,127	(23)			
Rig-weighted average	1,011	1,004	(7)	5,820	5,668	(152)			

Source: Energy Information Administration, *Drilling Productivity Report*

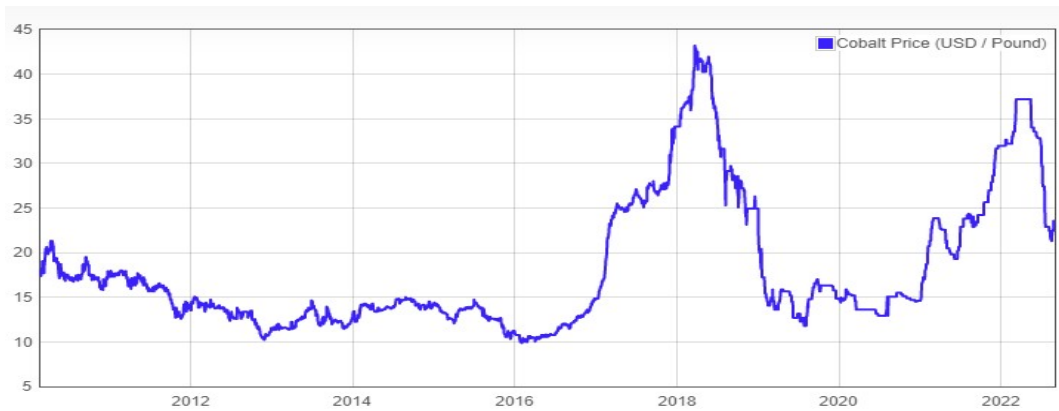
### USGS Cobalt – U.S. Trade, Reported Stocks and Listed Prices

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

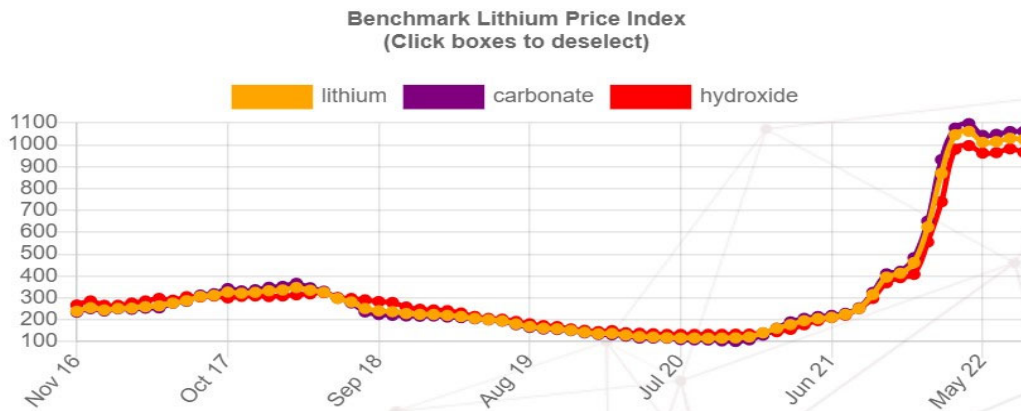
### Cobalt and Lithium Prices

#### 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/>