



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

February 24, 2023 Edition
(Data for Week Ending February 18, 2023)

Prepared by
National Mining Association

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



NMA WEEKLY STATISTICAL SUMMARY

Vol. 61, No. 7 | Dated 02/24/23

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	02/18/23	02/12/22	% Chg	02/18/23	02/18/22	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	11,707	12,204	-4.1%	81,645	81,288	0.4%
52 Weeks Ended	608,501	579,572	5.0%			
<i>Note: the year 2022 has an extra Saturday</i>						
AAR Coal Rail Cars Loaded:	66,566	69,021	-3.6%	464,218	459,793	1.0%
Coal Production	Jan 23/22		% Chg	Jan - Jan 23/22		% Chg
Month Ended - January	51,855	49,718	4.3%	51,855	49,718	4.3%

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

	Dec 22/21	% Chg	Jan - Dec 22/21	% Chg		
Coal Exports:						
Metallurgical	3,335	3,955	-15.7%	46,411	45,336	2.4%
Steam Bit. *	3,204	3,392	-5.5%	37,818	39,517	-4.3%
Lignite	8	7	14.3%	84	78	7.7%
Anthracite	<u>74</u>	<u>48</u>	54.2%	<u>507</u>	<u>329</u>	54.1%
Total	6,621	7,402	-10.6%	84,820	85,260	-0.5%
Coal Imports:	292	689	-57.6%	6,314	5,390	17.1%

	Week Ended			Cumulative Week 1 to		
	02/18/23	02/19/22	% Chg	02/18/23	02/19/22	% Chg
EI Electric Total Output (Mil. Kwh)	75,037	78,773	-4.7%	541,004	576,053	-6.1%
EEI Coal Region Output (Mil. Kwh)	64,661	68,445	-5.5%	466,204	500,219	-6.8%
AISI Raw Steel Output (000 Tons)	1,654	1,755	-5.8%	11,426	12,199	-6.3%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	02/17/23	02/10/23	% Chg	Wed.	2/15/23
Central App, 12,500 Btu, 1.2 SO ₂	\$135.70	\$131.65	3.1%	Henry Hub	2.44
Northern App, 13,000 Btu, < 3.0 SO ₂	100.75	97.75	3.1%	New York	2.05
Illinois Basin, 11,800, 5.0 SO ₂	123.75	123.75	0.0%	Chicago	2.39
Powder River Basin, 8,800 Btu 0.8 SO ₂	15.50	15.40	0.6%	Cal.Comp.Avg.	7.16
Uinta Basin, 11,700 Btu, 0.8 SO ₂	37.40	37.55	-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		
	2/18/2023 (week 7)	2/11/2023 (week 6)	2/12/2022 (week 7)	2/18/2023	2/18/2022	% Change	2/18/2023	2/12/2022	% Change
Alabama	195	199	212	1,352	1,410	-4.1	10,049	9,151	9.8
Alaska	18	20	22	130	149	-12.9	966	1,020	-5.3
Colorado	283	282	230	1,909	1,531	24.6	14,087	12,021	17.2
Illinois	721	754	762	5,142	5,078	1.3	38,211	35,795	6.7
Indiana	477	479	432	3,262	2,880	13.3	23,370	19,587	19.3
Kentucky total	585	603	582	4,068	3,875	5.0	29,194	26,615	9.7
Eastern (KY)	263	265	231	1,803	1,540	17.1	12,539	10,380	20.8
Western (KY)	322	338	351	2,265	2,335	-3.0	16,656	16,235	2.6
Louisiana	6	6	5	38	33	14.9	311	301	3.3
Maryland	27	27	26	184	171	7.6	1,382	1,241	11.4
Mississippi	67	64	61	445	404	10.2	3,487	3,155	10.5
Missouri	2	1	1	10	10	8.0	61	44	38.6
Montana	568	586	574	3,941	3,825	3.0	29,819	28,694	3.9
New Mexico	249	259	228	1,732	1,518	14.1	11,705	9,434	24.1
North Dakota	527	537	587	3,617	3,907	-7.4	27,400	26,490	3.4
Ohio	51	54	59	360	391	-7.8	2,646	2,733	-3.2
Oklahoma	s	s	s	s	s	-17.7	2	1	100.0
Pennsylvania total	735	766	842	5,148	5,608	-8.2	38,958	41,544	-6.2
Anthracite (PA)	55	58	52	387	345	12.2	2,612	2,160	20.9
Bituminous (PA)	680	709	790	4,761	5,263	-9.5	36,346	39,384	-7.7
Tennessee	s	s	.	s	.	100.0	1	.	.
Texas	332	348	336	2,318	2,235	3.7	17,606	17,371	1.4
Utah	203	226	266	1,486	1,770	-16.1	11,408	12,399	-8.0
Virginia	201	211	217	1,413	1,443	-2.1	10,956	10,858	0.9
West Virginia total	1,664	1,732	1,705	11,673	11,356	2.8	85,227	78,655	8.4
Northern (WV)	942	980	959	6,588	6,390	3.1	48,053	44,415	8.2
Southern (WV)	722	752	746	5,085	4,966	2.4	37,174	34,240	8.6
Wyoming	4,799	4,989	5,059	33,417	33,694	-0.8	251,657	242,464	3.8
Appalachian total	3,136	3,255	3,291	21,934	21,920	0.1	161,756	154,561	4.7
Interior total	1,924	1,990	1,948	13,481	12,974	3.9	99,703	92,488	7.8
Western total	6,647	6,898	6,965	46,230	46,394	-0.4	347,042	332,522	4.4
East of Mississippi River	4,722	4,890	4,897	33,048	32,616	1.3	243,480	229,333	6.2
West of Mississippi River	6,986	7,253	7,307	48,597	48,672	-0.2	365,021	350,238	4.2
Bituminous and lignite	11,652	12,086	12,152	81,258	80,943	0.4	605,889	577,412	4.9
Anthracite	55	58	52	387	345	12.2	2,612	2,160	20.9
U.S. total	11,707	12,143	12,204	81,645	81,288	0.4	608,501	579,572	5.0
Railroad cars loaded	66,566	69,045	69,021	464,218	459,793	1.0	3,491,901	3,360,415	3.9

Source: Energy Information Administration



Weekly Electric Output

Volume 91 No. 7

OUTPUT FOR WEEK ENDED - Feb 18, 2023

Feb 23, 2023

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Feb 18, 2023** was **75,037** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **178** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended February 18		52 Weeks Ended February 18	
	GWh Output	% Increase Over Corresponding Week of 2022	GWh Output	% Increase Over Corresponding Period of 2022
New England	2,102	-12.5	114,291	-1.7
Mid-Atlantic	7,462	-13.4	413,023	-1.6
Central Industrial	12,215	-10.3	649,629	-0.4
West Central	6,290	-5.7	339,985	1.0
Southeast	18,379	-7.2	1,020,505	0.5
South Central	14,741	2.2	838,589	7.3
Rocky Mountain	5,574	4.9	296,410	0.7
Pacific Northwest	3,519	6.3	161,015	1.1
Pacific Southwest	4,755	3.0	274,406	1.9
Total United States	75,037	-4.7	4,107,853	1.6

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2023	Week Ended	2022	% Inc. (23/22)	52 Weeks Ended	2023	% Inc. (23/22)
Jan 28	79,377	Jan 29	85,093	-6.7	Jan 28	4,116,269	1.6
Feb 04	83,834	Feb 05	84,301	-0.6	Feb 04	4,115,801	1.5
Feb 11	75,319	Feb 12	79,531	-5.3	Feb 11	4,111,588	1.5
Feb 18	75,037	Feb 19	78,773	-4.7	Feb 18	4,107,853	1.6
Feb 18	541,004	Feb 19	576,053	-6.1	YEAR TO DATE, FIRST 7 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2023	Week Ended	2022	Week Ended	2021
Jan 28	183	Jan 29	205	Jan 30	174
Feb 04	196	Feb 05	203	Feb 06	176
Feb 11	178	Feb 12	193	Feb 13	190
Feb 18	178	Feb 19	194	Feb 20	197

* Excludes Alaska and Hawaii.

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

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**EI WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION
(48 CONTIGUOUS STATES)**

	Week Ended			NMA CUMULATIVE JANUARY WEEK ONE TO			52 Weeks Ended		
	18-Feb 2023 GWh Output	19-Feb 2022 GWh Output	% Increase Over Corresponding Week	18-Feb 2023 GWh Output	19-Feb 2022 GWh Output	% Increase Over Corresponding Week	18-Feb 2023 GWh Output	19-Feb 2022 GWh Output	% Increase Over Corresponding Week
New England	2,102	2,401	-12.5%	15,917	17,405	-8.5%	114,291	116,275	-1.7%
Mid-Atlantic	7,462	8,613	-13.4%	55,406	61,849	-10.4%	413,023	419,765	-1.6%
Central Industrial	12,215	13,615	-10.3%	89,404	97,397	-8.2%	649,629	652,111	-0.4%
West Central	6,290	6,669	-5.7%	46,088	47,939	-3.9%	339,985	336,720	1.0%
Southeast	18,379	19,810	-7.2%	132,898	148,948	-10.8%	1,020,505	1,015,317	0.5%
South Central	14,741	14,423	2.2%	102,613	104,560	-1.9%	838,589	781,182	7.3%
Rocky Mountain	5,574	5,315	4.9%	39,795	39,526	0.7%	296,410	294,225	0.7%
Pacific Northwest	3,519	3,311	6.3%	24,732	25,080	-1.4%	161,015	159,271	1.1%
Pacific Southwest	4,755	4,616	3.0%	34,152	33,348	2.4%	274,406	269,261	1.9%
Total United States ^{1/}	75,037	78,773	-4.7%	541,005	576,052	-6.1%	4,107,853	4,044,127	1.6%
Coal Regions Only ^{2/}	64,661	68,445	-5.5%	466,204	500,219	-6.8%	3,558,141	3,499,320	1.7%

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. **Note: the year 2022 has an extra Saturday.**

^{1/} Excludes Alaska and Hawaii

^{2/} 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

February 21, 2023

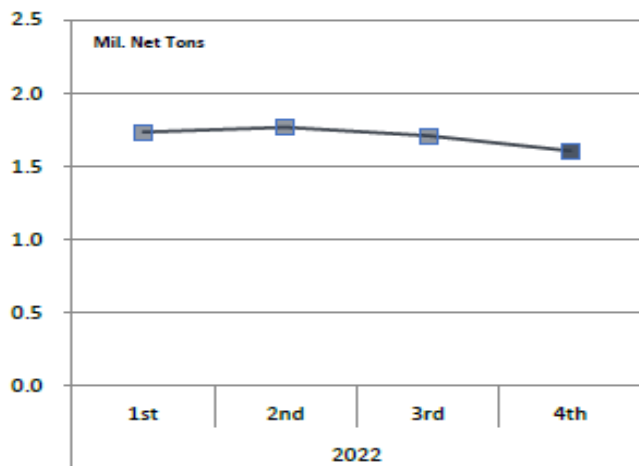
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<u>Period</u>	<u>Thousand Net Tons</u>	<u>Percent Change from Previous Period</u>	<u>Percent Capability Utilization**</u>	<u>Production by District</u>		
				<u>Week Ending</u>		
				<u>Feb 18</u>	<u>Feb 11</u>	
<u>Week Ending</u>				North East	154	156
				Great Lakes	512	524
February 18, 2023	1,654	-0.6	74.0	Midwest	202	203
February 18, 2022	1,755	-5.8	80.8	Southern	724	718
February 11, 2023	1,664	0.5	74.4	Western	62	63
				Total	1,654	1,664
<u>Year-to-Date +</u>						
February 18, 2023	11,426	-6.3	73.0			
February 18, 2022	12,199	-	80.3			

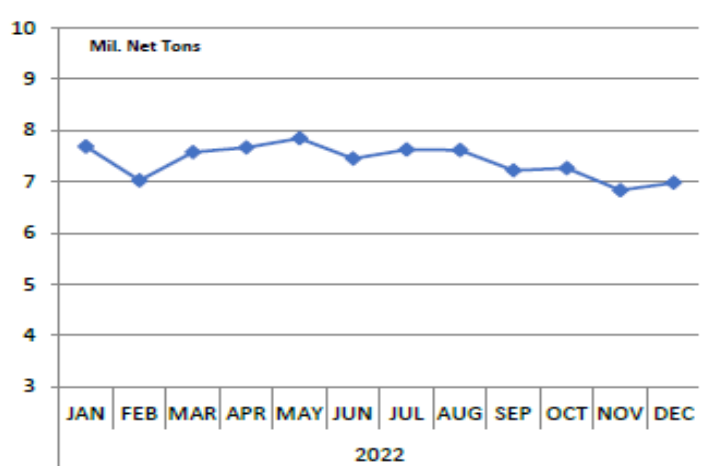
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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

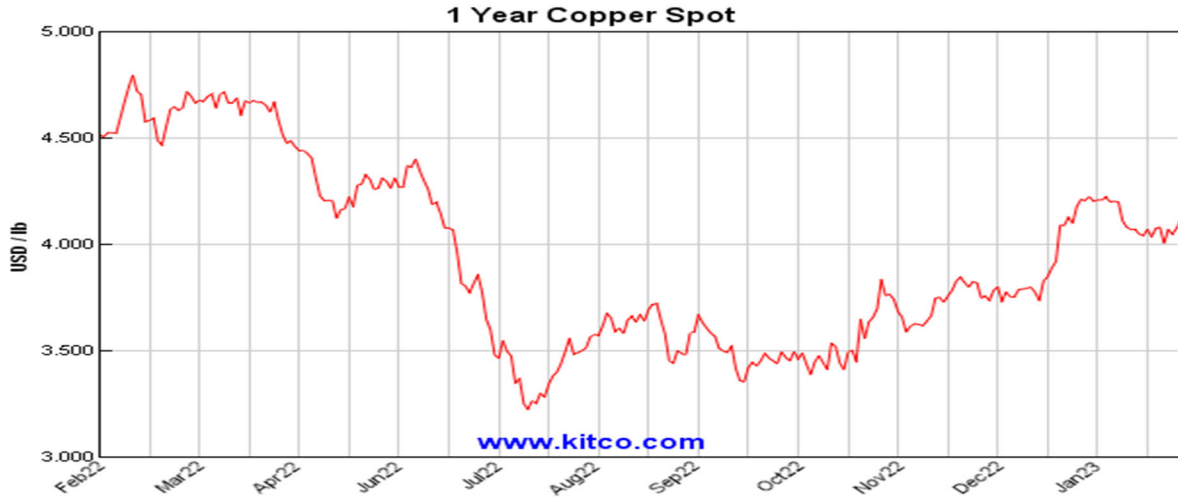
NOTE: Rate of capability utilization for December 2022 was approximately 70.6%.

Average Weekly Raw Steel Production



Monthly Raw Steel Production





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

U.S. Rail Traffic¹
Week 7, 2023 – Ended February 18, 2023

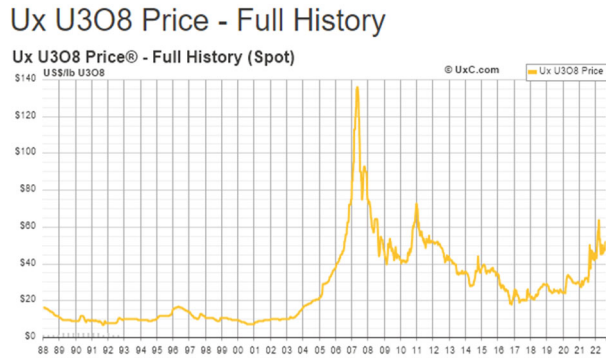
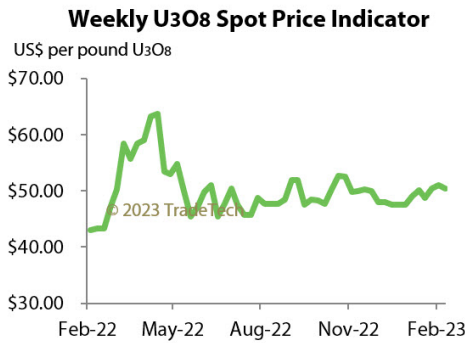
	This Week		Year-To-Date		
	Cars	vs 2022	Cumulative	Avg/wk ²	vs 2022
Total Carloads	229,227	-3.9%	1,603,005	229,001	0.3%
Chemicals	33,910	-3.9%	221,076	31,582	-8.4%
Coal	66,566	-8.5%	464,218	66,317	-0.4%
Farm Products excl. Grain, and Food	17,132	5.8%	117,839	16,834	3.8%
Forest Products	9,101	-11.1%	64,129	9,161	-8.4%
Grain	21,864	-12.5%	162,272	23,182	-3.1%
Metallic Ores and Metals	20,130	1.4%	143,560	20,509	1.9%
Motor Vehicles and Parts	13,664	11.4%	93,300	13,329	12.0%
Nonmetallic Minerals	28,387	-0.6%	202,026	28,861	8.0%
Petroleum and Petroleum Products	10,630	14.9%	74,589	10,656	13.0%
Other	7,843	-15.3%	59,996	8,571	-4.7%
Total Intermodal Units	237,705	-8.8%	1,631,109	233,016	-7.8%
Total Traffic	466,932	-6.5%	3,234,114	462,016	-4.0%

¹ Excludes U.S. operations of Canadian Pacific, CN and GMXT.

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

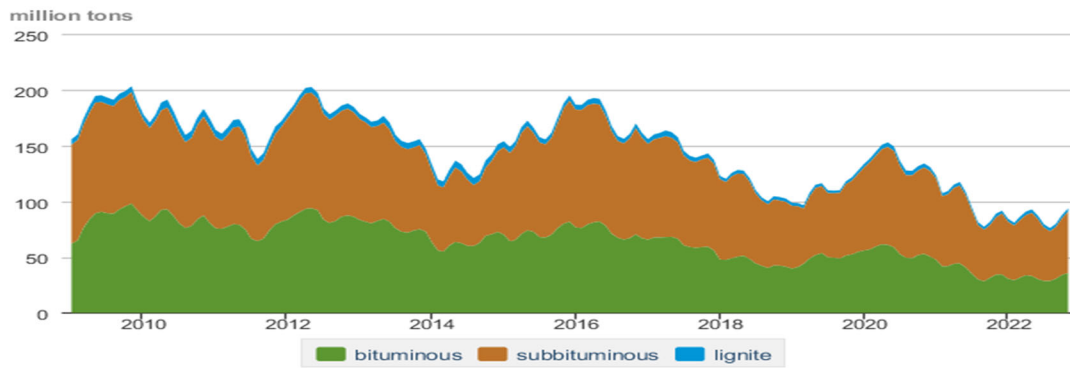
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

Trade Tech's and UX's Uranium Price Indicators



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

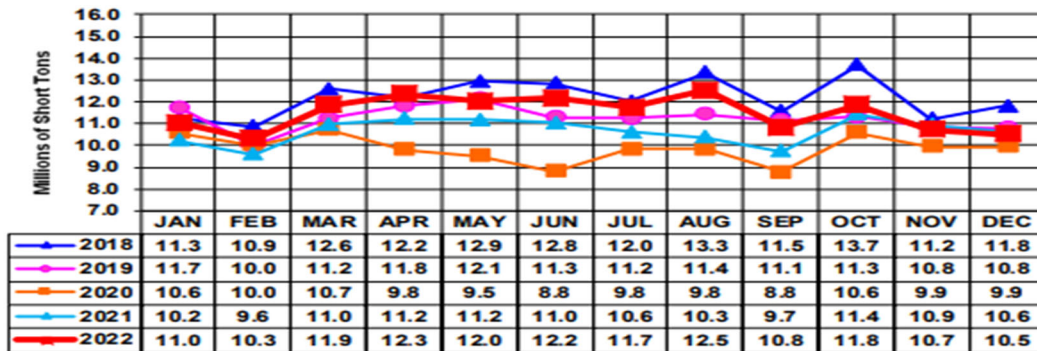
Coal stocks by type, January 2009 - November 2022



eia Data 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

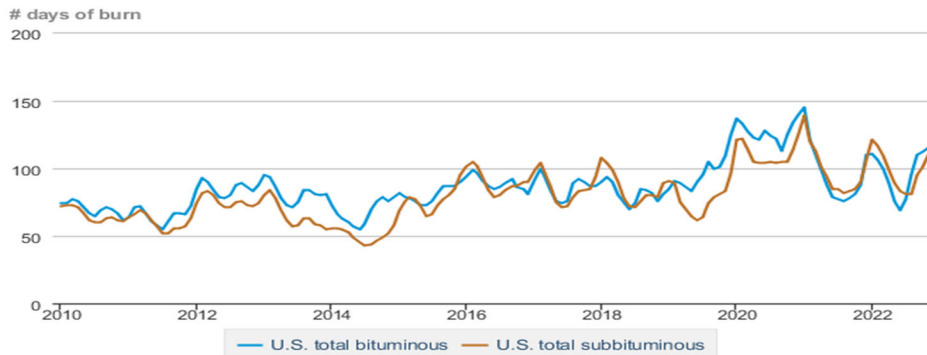
Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	01/20/23	01/27/23	02/03/23	02/10/23	02/17/23	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$142.25	\$142.25	\$131.65	\$131.65	\$135.70	\$4.05
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$117.75	\$117.75	\$97.75	\$97.75	\$100.75	\$3.00
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$140.00	\$140.00	\$123.75	\$123.75	\$123.75	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$15.45	\$15.45	\$15.40	\$15.40	\$15.50	\$0.10
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$37.70	\$37.70	\$37.55	\$37.55	\$37.40	-\$0.15

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 - November 2022



eia Data source: U.S. Energy Information Administration

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

Temperature – heating & cooling degree days (week ending Feb 09)

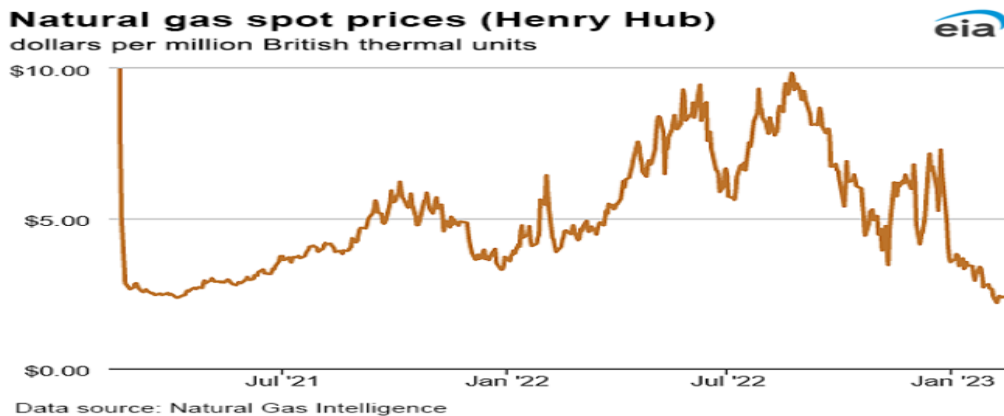
Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	271	2	23	0	0	0
Middle Atlantic	243	-15	-5	0	0	0
E N Central	245	-38	-59	0	0	0
W N Central	257	-35	-49	0	0	0
South Atlantic	141	-31	-17	8	1	2
E S Central	129	-43	-61	0	0	0
W S Central	97	-25	-76	1	-3	1
Mountain	216	2	-22	0	-1	0
Pacific	110	2	20	0	0	0
United States	190	-21	-28	2	1	1

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

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

U.S. Production of Selected Mineral Commodities	2022 Year to Date - 3rd Quarter	2021 Year to Date - 3rd Quarter	Percent Change
Aluminum, secondary (000 Mt.)	649.0	628.0	3%
Cement (Mil. Mt.)	69.1	67.7	2%
Copper (000 Mt.)	931.0	911.0	2%
Gold (Mt.)	126.0	135.0	-7%
Gypsum (Mil. Mt.)	13.8	14.2	-3%
Iron Ore (Mil. Mt.)	34.2	38.3	-11%
Lead (000 Mt.)	205.0	218.0	-6%
Molybdenum (000 Mt.)	28.0	32.0	-13%
Palladium (Mt.)	7.6	10.7	-29%
Phosphate rock (Mil. Mt.)	15.8	16.7	-5%
Platinum (Mt.)	2.3	3.1	-26%
Sand & gravel, construction (Mil. Mt.)	724.0	707.0	2%
Silver (Mt.)	765.0	777.0	-2%
Soda ash (Mil. Mt.)	8.2	8.4	-2%
Stone, crushed (Mil. Mt.)	1,140.0	1,110.0	3%
Zinc (000 Mt.)	585.0	523.0	12%

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	November 2022		November 2021		% Change of Stocks	October 2022		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	2,579	365	2,525	365	2.1%	2,200	365	17.3%
	Subbituminous								
South	Bituminous	16,264	122	13,113	90	24.0%	14,816	114	9.8%
	Subbituminous	3,708	65	3,565	59	4.0%	3,611	65	2.7%
Midwest	Bituminous	8,395	84	6,874	64	22.1%	8,322	90	0.9%
	Subbituminous	23,752	140	19,815	105	19.9%	20,656	116	15.0%
West	Bituminous	2,385	157	1,993	101	19.6%	2,681	155	-11.0%
	Subbituminous	19,245	106	17,034	86	13.0%	16,759	97	14.8%
U.S. Total	Bituminous	29,624	115	24,506	88	20.9%	28,018	112	5.7%
	Subbituminous	46,705	110	40,414	90	15.6%	41,026	101	13.8%

Source: Energy Information Administration, *Electricity Monthly Update*

Mining-Related Commodity Prices

Commodity Price - Snapshot		
Metals Prices	Date	Price
Cobalt Spot Price (\$/lb)	2/20/2023	\$16.18
Copper Spot Price (\$/lb)	2/21/2023	\$4.20
Gold Spot Price (\$/ounce)	2/21/2023	\$1,833.20
Lithium Spot Price (\$/kg)	2/21/2023	\$61.41
Molybdenum Spot Price (\$/kg)	2/20/2023	\$96.00
Nickel Spot Price (\$/lb)	2/20/2023	\$12.12
Silver Spot Price (\$/ounce)	2/21/2023	\$21.77
Steel HRC Price (\$/mt)	2/21/2023	\$989.50
Steel Rebar Price (\$/mt)	2/21/2023	\$612.64
Zinc Spot Price (\$/lb)	2/21/2023	\$1.41
Energy Prices	Date	Price
Coal Price - Australian Premium Coking Coal Futures (\$/mt)	2/21/2023	\$368.67
Coal Spot Price - Central Appalachian (\$/st)	2/17/2023	\$135.70
Coal Spot Price - Newcastle futures (\$/mt)	2/21/2023	\$210.14
Coal Spot Price - Rotterdam futures (\$/mt)	2/22/2023	\$136.50
Natural Gas Spot Price - Henry Hub (\$/mmbtu)	2/15/2023	\$2.44
Uranium Spot Price (\$/lb)	2/17/2023	\$51.75

Sources: publically available data from eia.gov, dailymetalprice.com, tradingeconomics.com, sgxgroup.com, investing.com

EIA Working Natural Gas Underground Storage**Working gas in underground storage**

Region	Stocks billion cubic feet (Bcf)		
	2023-02-10	2023-02-03	change
East	498	529	-31
Midwest	601	641	-40
Mountain	114	120	-6
Pacific	122	124	-2
South Central	931	951	-20
Total	2,266	2,366	-100

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 Oil and Natural Gas Rig ProductivityNEW-WELL PRODUCTION
PER RIG BY REGIONPRODUCTION
BY REGIONDUC WELLS BY
REGION

Region	New-well oil production per rig barrels/day			New-well gas production per rig thousand cubic feet/day		
	February 2023	March 2023	change	February 2023	March 2023	change
Anadarko	690	691	1	3,892	3,927	35
Appalachia	191	191	-	25,004	24,578	(426)
Bakken	1,704	1,705	1	2,550	2,557	7
Eagle Ford	1,486	1,469	(17)	6,017	5,939	(78)
Haynesville	19	19	-	10,722	10,711	(11)
Niobrara	1,375	1,368	(7)	3,408	3,364	(44)
Permian	1,061	1,060	(1)	2,083	2,062	(21)
Rig-weighted average	950	948	(2)	5,400	5,336	(64)

Source: Energy Information Administration, *Drilling Productivity Report*

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

Cobalt - November 2022	Nov-22	Year to Date
U.S. Imports for Consumption - Metals (mt)	571	6,530
U.S. Exports of Cobalt Materials - Cobalt Content (mt)	535	4,890
Reported Stocks of Cobalt Metal (mt)	U.S. Govt	LME
	302	165
Listed Prices by Type (\$/lb): US Spot & LME Cash Avg.	25.5	23.25

Source: USGS, Mineral Industry Survey, Cobalt in November 2022, February 2023

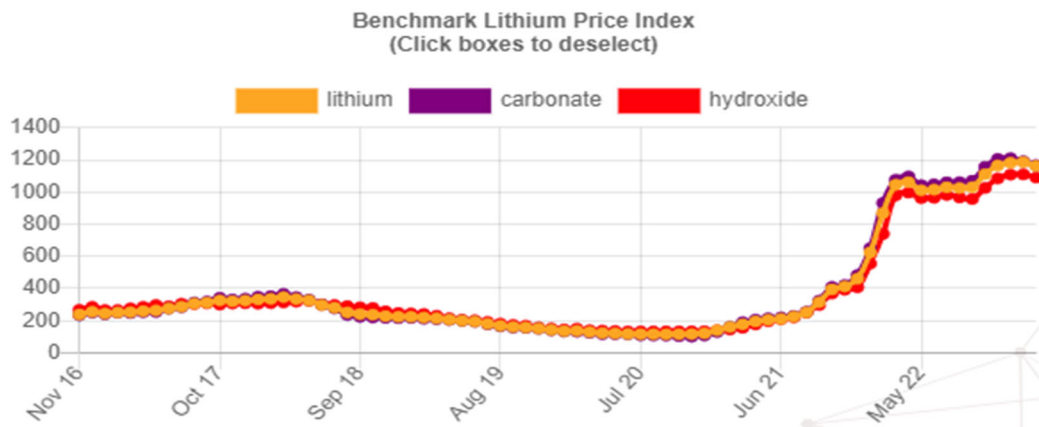
Cobalt and Lithium Prices

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/>