



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

September 1, 2023 Edition
(Data for Week Ending August 26, 2023)

Prepared by
National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

Vol. 61, No. 34 | Dated 09/01/23

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	08/26/23	08/20/22	% Chg	08/26/23	08/26/22	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	11,863	11,753	0.9%	388,356	387,998	0.1%
52 Weeks Ended	605,639	589,385	2.8%			
<i>Note: the year 2022 has an extra Saturday</i>						
AAR Coal Rail Cars Loaded:	68,828	68,280	0.8%	2,227,880	2,220,818	0.3%
Coal Production	Jul 23/22		% Chg	Jan - Jul 23/22		% Chg
Month Ended - July	49,065	49,301	-0.5%	344,373	343,223	0.3%

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

	June 23/22		% Chg	Jan - June 23/22		% Chg
Coal Exports:						
Metallurgical	3,923	4,551	-13.8%	25,014	23,541	6.3%
Steam Bit. *	4,041	2,967	36.2%	23,288	19,440	19.8%
Lignite	9	7	28.6%	52	42	23.8%
Anthracite	36	68	-47.1%	400	191	109.4%
Total	8,009	7,593	5.5%	48,754	43,214	12.8%
Coal Imports:	282	627	-55.0%	2,034	2,958	-31.2%

	Week Ended			Cumulative Week 1 to		
	08/26/23	08/27/22	% Chg	08/26/23	08/27/22	% Chg
EI Electric Total Output (Mil. Kwh)	95,735	87,491	9.4%	2,710,384	2,776,999	-2.4%
EI Coal Region Output (Mil. Kwh)	85,061	75,604	12.5%	2,356,612	2,416,017	-2.5%
AISI Raw Steel Output (000 Tons)	1,733	1,719	0.8%	58,096	59,239	-1.9%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	08/25/23	08/18/23	% Chg	Wed.	8/23/23
Central App, 12,500 Btu, 1.2 SO ₂	\$70.00	\$70.00	0.0%	Henry Hub	2.59
Northern App, 13,000 Btu, < 3.0 SO ₂	52.50	52.50	0.0%	New York	1.19
Illinois Basin, 11,800, 5.0 SO ₂	50.00	50.00	0.0%	Chicago	2.34
Powder River Basin, 8,800 Btu 0.8 SO ₂	14.30	14.30	0.0%	Cal.Comp.Avg.	3.04
Uinta Basin, 11,700 Btu, 0.8 SO ₂	32.50	32.50	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

EIA Estimated Weekly U.S. Coal Production Overview									
Coal-Producing Region & State (thousand short tons)	Week Ended			Year to Date			52 Weeks Ended		
	8/26/2023 (week 34)	8/19/2023 (week 33)	8/20/2022 (week 34)	8/26/2023	8/26/2022	% Change	8/26/2023	8/20/2022	% Change
Alabama	238	240	215	7,503	6,792	10.5	11,374	9,564	18.9
Alaska	21	20	18	672	628	7.0	1,075	984	9.2
Colorado	239	250	263	8,021	8,480	-5.4	12,582	13,228	-4.9
Illinois	772	799	701	26,602	25,023	6.3	39,796	35,803	11.2
Indiana	561	559	460	17,653	14,925	18.3	26,737	21,679	23.3
Kentucky total	589	594	541	19,475	18,569	4.9	29,896	27,810	7.5
Eastern (KY)	264	265	229	8,487	7,771	9.2	12,981	11,476	13.1
Western (KY)	325	329	312	10,987	10,798	1.8	16,915	16,334	3.6
Louisiana	6	6	6	204	194	4.8	322	310	3.9
Maryland	30	29	28	910	935	-2.7	1,459	1,351	8.0
Mississippi	66	70	70	2,027	2,247	-9.8	3,214	3,266	-1.6
Missouri	2	2	1	71	44	60.1	101	50	102.0
Montana	523	545	565	17,941	18,827	-4.7	27,883	29,228	-4.6
New Mexico	209	208	226	6,449	7,097	-9.1	10,116	10,627	-4.8
North Dakota	532	529	566	17,284	17,728	-2.5	26,822	26,641	0.7
Ohio	38	39	44	1,341	1,696	-20.9	2,179	2,721	-19.9
Oklahoma	s	s	s	2	1	64.5	2	1	100.0
Pennsylvania total	800	796	713	26,405	25,925	1.9	41,037	39,370	4.2
Anthracite (PA)	54	56	47	1,826	1,573	16.0	2,783	2,373	17.3
Bituminous (PA)	746	740	665	24,579	24,352	0.9	38,254	36,998	3.4
Tennessee	s	s	.	1	s	66.6	1	s	100.0
Texas	325	325	332	10,180	10,920	-6.8	16,658	17,589	-5.3
Utah	161	172	223	5,620	7,421	-24.3	9,132	11,683	-21.8
Virginia	235	235	224	7,483	7,042	6.3	11,724	10,843	8.1
West Virginia total	1,706	1,750	1,609	57,196	54,790	4.4	87,507	81,576	7.3
Northern (WV)	960	977	925	31,258	30,680	1.9	48,437	46,034	5.2
Southern (WV)	747	773	683	25,938	24,110	7.6	39,070	35,543	9.9
Wyoming	4,808	4,865	4,949	155,319	158,712	-2.1	246,022	245,061	0.4
Appalachian total	3,311	3,354	3,061	109,326	104,951	4.2	168,262	156,901	7.2
Interior total	2,057	2,090	1,882	67,725	64,152	5.6	103,746	95,033	9.2
Western total	6,494	6,590	6,809	211,305	218,895	-3.5	333,631	337,451	-1.1
East of Mississippi River	5,035	5,110	4,604	166,595	157,944	5.5	254,924	233,984	8.9
West of Mississippi River	6,828	6,923	7,149	221,761	230,054	-3.6	350,715	355,401	-1.3
Bituminous and lignite	11,808	11,977	11,706	386,530	386,425	s	602,856	587,012	2.7
Anthracite	54	56	47	1,826	1,573	16.0	2,783	2,373	17.3
U.S. total	11,863	12,033	11,753	388,356	387,998	0.1	605,639	589,385	2.8
Railroad cars loaded	68,828	69,773	68,280	2,227,880	2,220,818	0.3	3,497,152	3,397,916	2.9

Source: Energy Information Administration



Weekly Electric Output

Volume 91 No. 34

OUTPUT FOR WEEK ENDED - Aug 26, 2023

Aug 30, 2023

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Aug 26, 2023** was **95,735** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **201** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended August 26		52 Weeks Ended August 26	
	GWh Output	% Increase Over Corresponding Week of 2022	GWh Output	% Increase Over Corresponding Period of 2022
New England	2,228	-15.4	110,985	-4.7
Mid-Atlantic	8,808	-9.2	403,223	-4.0
Central Industrial	14,867	13.9	638,798	-2.9
West Central	8,406	18.5	338,695	-0.5
Southeast	24,144	11.5	1,008,180	-2.4
South Central	22,213	25.6	849,293	2.7
Rocky Mountain	6,623	3.4	294,568	0.3
Pacific Northwest	2,498	-9.4	161,280	0.7
Pacific Southwest	5,948	-8.4	271,265	0.6
Total United States	95,735	9.4	4,076,287	-1.0

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2023	Week Ended	2022	% Inc. (23/22)	52 Weeks Ended	2023	% Inc. (23/22)
Aug 05	95,336	Aug 06	96,094	-0.8	Aug 05	4,061,687	-1.6
Aug 12	92,749	Aug 13	91,862	1.0	Aug 12	4,062,574	-1.6
Aug 19	92,153	Aug 20	86,685	6.3	Aug 19	4,068,042	-1.4
Aug 26	95,735	Aug 27	87,491	9.4	Aug 26	4,076,287	-1.0
Aug 26	2,710,384	Aug 27	2,776,999	-2.4	YEAR TO DATE, FIRST 34 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2023	Week Ended	2022	Week Ended	2021
Aug 05	200	Aug 06	190	Aug 07	169
Aug 12	198	Aug 13	197	Aug 14	192
Aug 19	191	Aug 20	190	Aug 21	187
Aug 26	201	Aug 27	192	Aug 28	196

* 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		
	26-Aug	27-Aug	% Increase Over Corresponding Week	26-Aug	27-Aug	% Increase Over Corresponding Week	26-Aug	27-Aug	% Increase Over Corresponding Week
	2023 GWh Output	2022 GWh Output		2023 GWh Output	2022 GWh Output		2023 GWh Output	2022 GWh Output	
New England	2,228	2,634	-15.4%	73,004	77,799	-6.2%	110,985	116,420	-4.7%
Mid-Atlantic	8,808	9,699	-9.2%	267,091	283,333	-5.7%	403,223	420,221	-4.0%
Central Industrial	14,867	13,054	13.9%	426,173	445,001	-4.2%	638,798	657,845	-2.9%
West Central	8,406	7,095	18.5%	224,502	227,642	-1.4%	338,695	340,364	-0.5%
Southeast	24,144	21,663	11.5%	670,341	698,713	-4.1%	1,008,180	1,032,995	-2.4%
South Central	22,213	17,686	25.6%	575,662	566,908	1.5%	849,293	827,324	2.7%
Rocky Mountain	6,623	6,407	3.4%	192,844	194,420	-0.8%	294,568	293,771	0.3%
Pacific Northwest	2,498	2,758	-9.4%	105,932	106,011	-0.1%	161,280	160,220	0.7%
Pacific Southwest	5,948	6,495	-8.4%	174,836	177,172	-1.3%	271,265	269,599	0.6%
Total United States ^{1/}	<u>95,735</u>	<u>87,491</u>	9.4%	<u>2,710,384</u>	<u>2,776,999</u>	-2.4%	<u>4,076,287</u>	<u>4,118,759</u>	-1.0%
Coal Regions Only ^{2/}	85,061	75,604	12.5%	2,356,612	2,416,017	-2.5%	3,532,757	3,572,520	-1.1%

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. **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*.

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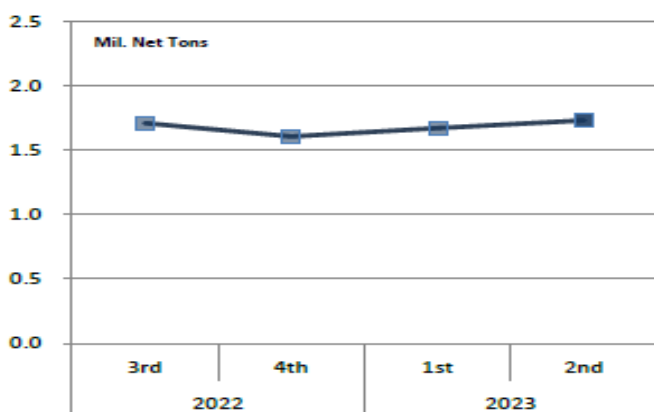
August 28, 2023

ESTIMATED WEEKLY RAW STEEL * PRODUCTION

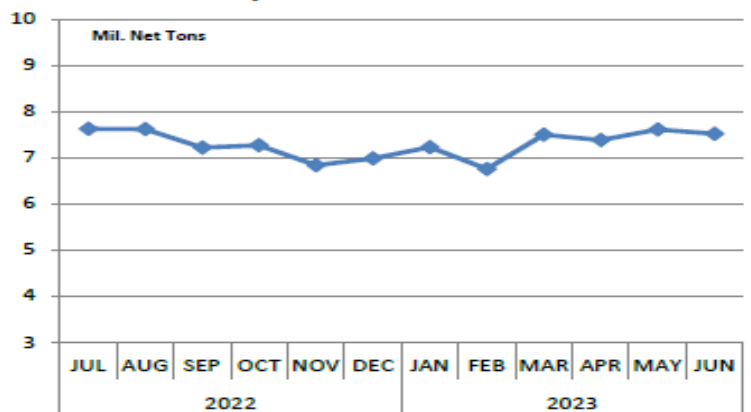
<u>Period</u>	<u>Thousand Net Tons</u>	<u>Percent Change from Previous Period</u>	<u>Percent Capability Utilization**</u>	<u>Production by District</u>		
				<u>Week Ending</u>	<u>Week Ending</u>	
				<u>Aug 26</u>	<u>Aug 19</u>	
<u>Week Ending</u>				North East	130	127
				Great Lakes	554	578
August 26, 2023	1,733	-1.3	76.2	Midwest	224	222
August 26, 2022	1,719	0.8	78.0	Southern	754	761
August 19, 2023	1,756	1.1	77.2	Western	71	68
				Total	1,733	1,756
<u>Year-to-Date +</u>						
August 26, 2023	58,096	-1.9	75.9			
August 26, 2022	59,239	-	79.7			

*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.

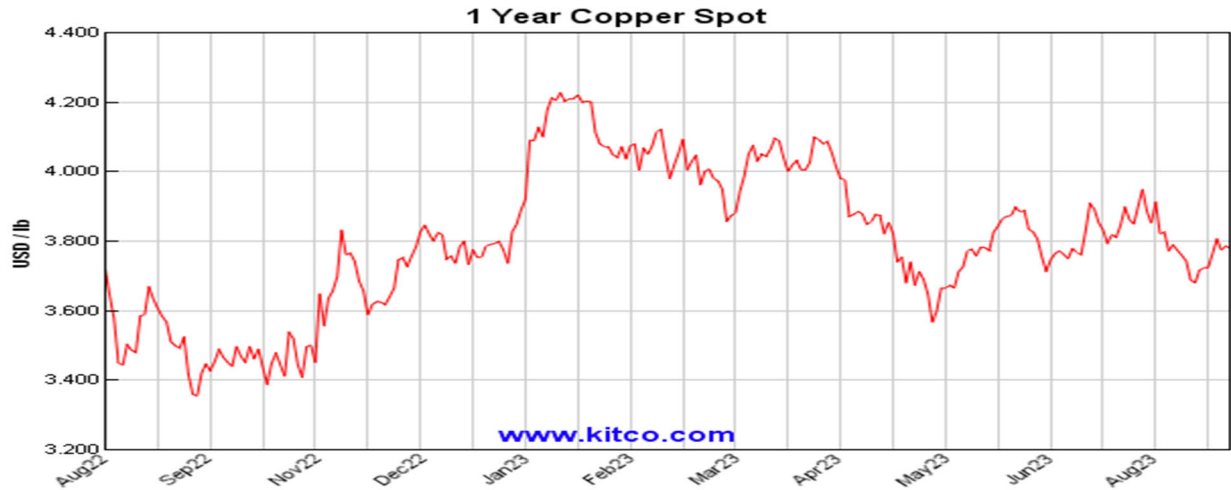
Average Weekly Raw Steel Production



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

U.S. Rail Traffic¹
 Week 34, 2023 – Ended August 26, 2023

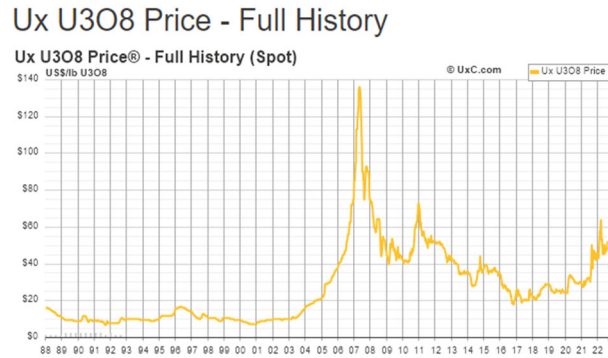
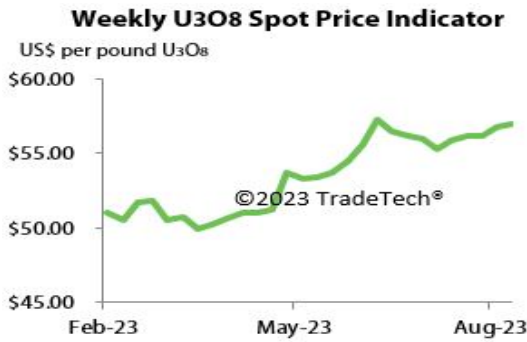
	This Week		Year-To-Date		
	Cars	vs 2022	Cumulative	Avg/wk ²	vs 2022
Total Carloads	226,679	-3.9%	7,621,657	224,166	0.1%
Chemicals	31,427	-0.4%	1,057,632	31,107	-3.6%
Coal	68,828	-7.3%	2,227,863	65,525	0.2%
Farm Products excl. Grain, and Food	14,923	-4.7%	547,056	16,090	0.7%
Forest Products	8,047	-9.0%	276,162	8,122	-7.6%
Grain	13,312	-26.4%	618,931	18,204	-12.9%
Metallic Ores and Metals	22,065	0.6%	702,830	20,671	4.4%
Motor Vehicles and Parts	16,113	10.3%	501,862	14,761	13.4%
Nonmetallic Minerals	33,254	1.5%	1,080,745	31,787	4.0%
Petroleum and Petroleum Products	9,921	16.1%	317,994	9,353	9.7%
Other	8,789	-9.2%	290,582	8,547	-2.3%
Total Intermodal Units	245,846	-7.7%	8,074,700	237,491	-9.2%
Total Traffic	472,525	-5.9%	15,696,357	461,658	-4.9%

¹ Excludes U.S. operations of CPKC, 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 and average number of days of burn for non-lignite coal by region (electric power sector)

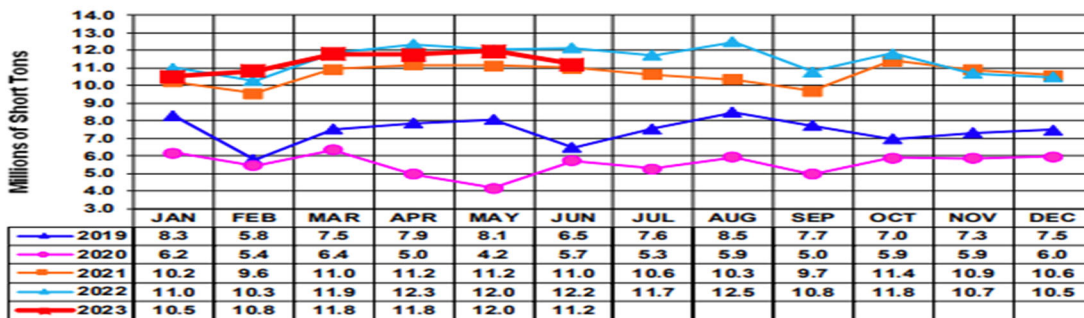
Zone	Coal	June 2023		June 2022		% Change of Stocks	May 2023		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	3,046	365	1,626	362	87.3%	2,850	365	6.9%
	Subbituminous	-	-	-	-	-	-	-	-
South	Bituminous	20,922	128	11,719	55	78.5%	20,896	111	0.1%
	Subbituminous	6,123	79	3,602	40	70.0%	5,969	80	2.6%
Midwest	Bituminous	12,680	117	7,784	68	62.9%	12,076	103	5.0%
	Subbituminous	32,099	146	20,884	106	53.7%	32,457	136	-1.1%
West	Bituminous	3,238	152	3,279	156	-1.3%	3,000	140	7.9%
	Subbituminous	30,634	141	19,122	83	60.2%	30,704	133	-0.2%
U.S. Total	Bituminous	39,886	137	24,408	70	63.4%	38,822	118	2.7%
	Subbituminous	68,857	134	43,608	83	57.9%	69,131	125	-0.4%

Source: U.S. Energy Information Administration

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

Source: Energy Information Administration, 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

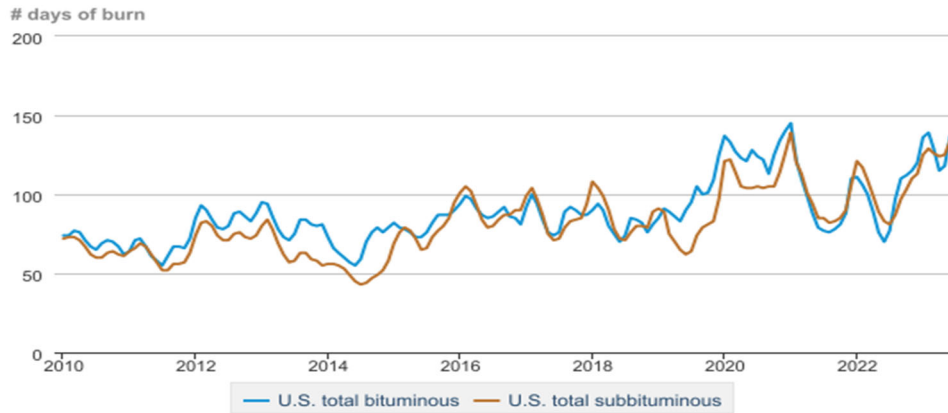
Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	07/28/23	08/04/23	08/11/23	08/18/23	08/25/23	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$62.25	\$66.25	\$66.25	\$70.00	\$70.00	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$52.60	\$52.50	\$52.50	\$52.50	\$52.50	\$0.00
Illinois Basin 11,600 Btu, 5.0 SO ₂	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$14.30	\$14.30	\$14.30	\$14.30	\$14.30	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$32.50	\$32.50	\$32.50	\$32.50	\$32.50	\$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 - June 2023



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

Temperature – heating & cooling degree days (week ending Aug 17)

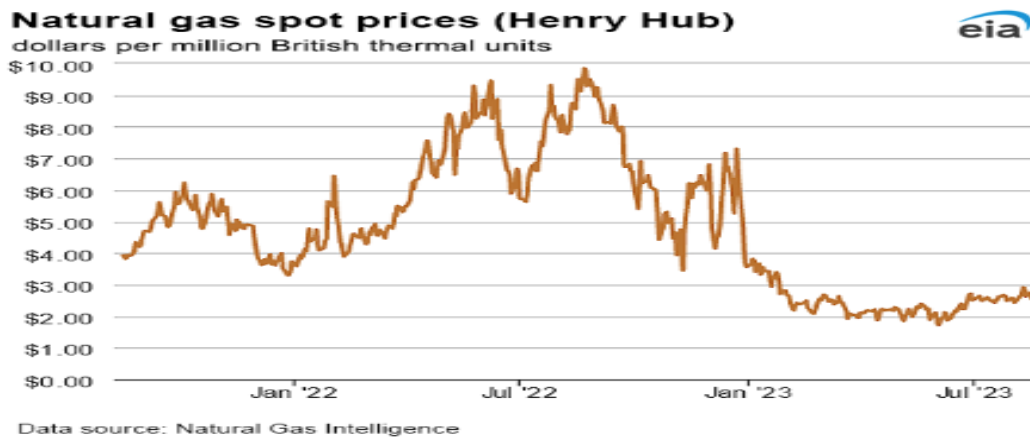
Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	1	-3	-2	33	-3	6
Middle Atlantic	0	-3	-3	55	5	16
E N Central	4	-1	-4	35	-12	11
W N Central	4	0	2	46	-15	-7
South Atlantic	0	0	0	107	16	27
E S Central	0	0	0	91	3	15
W S Central	0	0	0	146	24	18
Mountain	1	-4	1	78	8	4
Pacific	0	-3	0	70	26	-3
United States	2	-2	-1	76	8	12

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

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

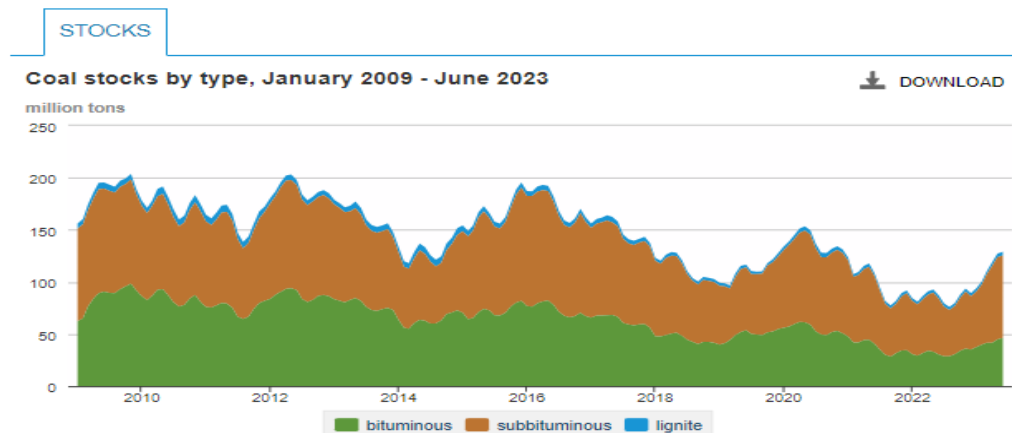
U.S. Production of Selected Mineral Commodities	2023 Year to Date - 1st Quarter	2022 Year to Date - 1st Quarter	Percent Change
Aluminum, secondary (000 Mt.)	223.0	215.0	4%
Cement (Mil. Mt.)	18.4	19.0	-3%
Copper (000 Mt.)	291.0	308.0	-6%
Gold (Mt.)	40.4	40.2	0%
Gypsum (Mil. Mt.)	4.7	4.3	9%
Iron Ore (Mil. Mt.)	10.1	8.7	16%
Lead (000 Mt.)	67.2	68.6	-2%
Molybdenum (000 Mt.)	8.1	8.8	-8%
Palladium (Mt.)	2.4	2.9	-17%
Phosphate rock (Mil. Mt.)	4.6	4.6	0%
Platinum (Mt.)	0.7	0.9	-22%
Sand & gravel, construction (Mil. Mt.)	160.0	175.0	-9%
Silver (Mt.)	269.0	258.0	4%
Soda ash (Mil. Mt.)	2.6	2.8	-7%
Stone, crushed (Mil. Mt.)	300.0	295.0	2%
Zinc (000 Mt.)	178.0	180.0	-1%

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*.

Electric Power Sector Coal Stocks: June 2023



Source: Energy Information Administration, *Electricity Monthly Update*

Mining-Related Commodity Prices

Commodity Price - Snapshot		
Metals Prices	Date	Price
Cobalt Spot Price (\$/lb)	8/29/23	\$15.15
Copper Spot Price (\$/lb)	8/30/23	\$3.78
Gold Spot Price (\$/ounce)	8/30/23	\$1,943.61
Lead Spot Price (\$/lb)	8/29/23	\$1.00
Lithium Spot Price (\$/kg)	8/30/23	\$29.01
Molybdenum Spot Price (\$/kg)	8/29/23	\$58.75
Nickel Spot Price (\$/lb)	8/29/23	\$9.29
Silver Spot Price (\$/ounce)	8/30/23	\$24.60
Steel HRC Price (\$/mt)	8/30/23	\$706.26
Steel Rebar Price (\$/mt)	8/30/23	\$506.64
Zinc Spot Price (\$/lb)	8/30/23	\$1.10
Energy Prices	Date	Price
Coal Price - Australian Premium Coking Coal Futures (\$/mt)	8/29/23	\$263.00
Coal Spot Price - Central Appalachian (\$/st)	8/25/23	\$70.00
Coal Spot Price - Newcastle futures (\$/mt)	8/29/23	\$156.39
Coal Spot Price - Rotterdam futures (\$/mt)	8/30/23	\$122.50
Natural Gas Spot Price - Henry Hub (\$/mmbtu)	8/23/23	\$2.59
Uranium Spot Price (\$/lb)	8/28/23	\$58.50

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)		
	2023-08-18	2023-08-11	change
East	731	717	14
Midwest	831	812	19
Mountain	206	202	4
Pacific	242	240	2
South Central	1,072	1,093	-21
Total	3,083	3,065	18

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

Note: Totals may not equal sum of components because of independent rounding.

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		
	August 2023	September 2023	change	August 2023	September 2023	change
Anadarko	686	693	7	4,132	4,235	103
Appalachia	193	193	-	23,734	23,770	36
Bakken	1,686	1,694	8	2,618	2,639	21
Eagle Ford	1,439	1,453	14	5,896	5,955	59
Haynesville	19	19	-	11,484	11,541	57
Niobrara	1,437	1,444	7	4,014	4,074	60
Permian	1,073	1,079	6	2,059	2,067	8
Rig-weighted average	970	981	11	5,260	5,264	4

Source: Energy Information Administration, *Drilling Productivity Report*

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

Cobalt - June 2023	Jun-23	Year to Date
U.S. Imports for Consumption - Metals (mt)	562	3,890
U.S. Exports of Cobalt Materials - Cobalt Content (mt)	331	2,570
Reported LME Stocks of Cobalt Metal (mt)	93	-
Listed Prices by Type (\$/lb): US Spot & LME Cash Avg.	15.11	13.12

Source: USGS, Mineral Industry Survey, Cobalt in June, August 2023

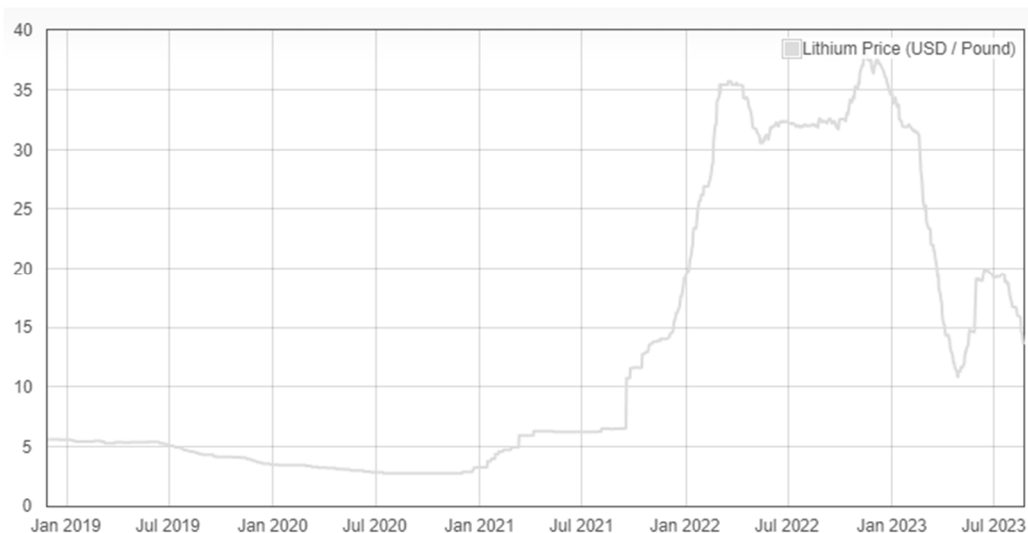
Cobalt and Lithium Prices

Cobalt Prices (US\$/pound):



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

Lithium Prices (US\$/pound):



Source: Dailymetalprice.com - <https://www.dailymetalprice.com/metalpricecharts.php>