



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

March 17, 2023 Edition
(Data for Week Ending March 11, 2023)

Prepared by
National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

Vol. 61, No. 10 | Dated 03/17/23

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	03/11/23	03/05/22	% Chg	03/11/23	03/11/22	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	11,383	12,077	-5.7%	117,212	116,306	0.8%
52 Weeks Ended	605,427	583,899	3.7%			
<i>Note: the year 2022 has an extra Saturday</i>						
AAR Coal Rail Cars Loaded:	64,926	68,304	-4.9%	605,427	583,899	3.7%
Coal Production	Feb 23/22		% Chg	Jan - Feb 23/22		% Chg
Month Ended - February	46,498	47,773	-2.7%	98,353	97,554	0.8%

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

	Jan 23/22		% Chg	Jan - Jan 23/22		% Chg
Coal Exports:						
Metallurgical	4,049	2,945	37.5%	4,049	2,945	37.5%
Steam Bit. *	3,001	2,758	8.8%	3,001	2,758	8.8%
Lignite	8	8	0.0%	8	8	0.0%
Anthracite	87	5	1640.0%	87	5	1640.0%
Total	7,145	5,716	25.0%	7,145	5,716	25.0%
Coal Imports:	479	503	-4.8%	479	503	-4.8%

	Week Ended			Cumulative Week 1 to		
	03/11/23	03/12/22	% Chg	03/11/23	03/12/22	% Chg
EEl Electric Total Output (Mil. Kwh)	73,813	75,113	-1.7%	764,096	804,715	-5.0%
EEl Coal Region Output (Mil. Kwh)	63,341	65,110	-2.7%	656,831	697,668	-5.9%
AISI Raw Steel Output (000 Tons)	1,677	1,710	-1.9%	16,513	17,394	-5.1%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	03/10/23	03/03/23	% Chg	Wed.	3/08/23
Central App, 12,500 Btu, 1.2 SO ₂	\$128.60	\$128.60	0.0%	Henry Hub	2.50
Northern App, 13,000 Btu, < 3.0 SO ₂	97.50	97.50	0.0%	New York	2.45
Illinois Basin, 11,800, 5.0 SO ₂	107.00	107.00	0.0%	Chicago	2.49
Powder River Basin, 8,800 Btu 0.8 SO ₂	15.30	15.30	0.0%	Cal.Comp.Avg.	7.50
Uinta Basin, 11,700 Btu, 0.8 SO ₂	37.25	37.25	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		
	3/11/2023 (week 10)	3/4/2023 (week 9)	3/5/2022 (week 10)	3/11/2023	3/11/2022	% Change	3/11/2023	3/5/2022	% Change
Alabama	219	239	210	1,999	2,018	-0.9	10,561	9,072	16.4
Alaska	19	22	22	190	213	-10.9	1,009	1,016	-0.7
Colorado	240	283	227	2,683	2,191	22.5	13,462	12,152	10.8
Illinois	768	874	754	7,532	7,265	3.7	39,234	35,513	10.5
Indiana	486	536	428	4,729	4,121	14.8	24,473	19,760	23.9
Kentucky total	565	639	576	5,834	5,544	5.2	29,220	26,862	8.8
Eastern (KY)	247	277	229	2,572	2,203	16.7	12,584	10,560	19.2
Western (KY)	318	362	347	3,262	3,341	-2.4	16,636	16,302	2.0
Louisiana	5	6	5	55	48	14.6	318	303	5.0
Maryland	27	30	25	266	244	8.7	1,395	1,237	12.8
Mississippi	67	72	60	643	577	11.3	3,483	3,150	10.6
Missouri	2	2	1	15	14	9.6	76	44	72.7
Montana	518	605	568	5,604	5,473	2.4	28,833	28,903	-0.2
New Mexico	218	254	225	2,440	2,172	12.4	11,004	9,575	14.9
North Dakota	516	573	580	5,194	5,590	-7.1	26,812	26,639	0.6
Ohio	44	56	58	511	560	-8.7	2,491	2,736	-9.0
Oklahoma	s	s	s	s	s	-13.9	2	1	100.0
Pennsylvania total	776	853	833	7,494	8,024	-6.6	39,962	41,365	-3.4
Anthracite (PA)	52	60	51	552	494	11.9	2,620	2,197	19.3
Bituminous (PA)	724	793	782	6,942	7,531	-7.8	37,342	39,168	-4.7
Tennessee	s	s	.	s	.	100.0	1	.	.
Texas	305	361	332	3,303	3,197	3.3	17,462	17,518	-0.3
Utah	186	225	263	2,113	2,533	-16.6	10,520	12,456	-15.5
Virginia	203	230	214	2,043	2,065	-1.1	11,149	10,897	2.3
West Virginia total	1,644	1,863	1,687	16,812	16,248	3.5	85,439	79,137	8.0
Northern (WV)	930	1,049	949	9,481	9,143	3.7	48,089	44,656	7.7
Southern (WV)	714	814	738	7,331	7,105	3.2	37,349	34,481	8.3
Wyoming	4,575	5,167	5,006	47,752	48,210	-0.9	248,521	245,563	1.2
Appalachian total	3,160	3,548	3,257	31,696	31,362	1.1	163,582	155,004	5.5
Interior total	1,951	2,213	1,928	19,538	18,563	5.3	101,683	92,591	9.8
Western total	6,272	7,129	6,893	65,977	66,380	-0.6	340,161	336,304	1.1
East of Mississippi River	4,800	5,392	4,846	47,862	46,667	2.6	247,408	229,729	7.7
West of Mississippi River	6,583	7,497	7,231	69,349	69,639	-0.4	358,019	354,170	1.1
Bituminous and lignite	11,331	12,829	12,026	116,660	115,812	0.7	602,807	581,702	3.6
Anthracite	52	60	51	552	494	11.9	2,620	2,197	19.3
U.S. total	11,383	12,889	12,077	117,212	116,306	0.8	605,427	583,899	3.7
Railroad cars loaded	64,926	72,903	68,304	666,265	657,843	1.3	3,490,067	3,391,286	2.9

Source: Energy Information Administration

EI

Weekly Electric Output

Volume 91 No. 10

OUTPUT FOR WEEK ENDED - Mar 11, 2023

Mar 15, 2023

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Mar 11, 2023** was **73,813** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **168** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended March 11		52 Weeks Ended March 11	
	GWh Output	% Increase Over Corresponding Week of 2022	GWh Output	% Increase Over Corresponding Period of 2022
New England	2,101	-2.3	114,194	-1.9
Mid-Atlantic	7,648	0.8	412,427	-1.8
Central Industrial	11,983	-4.0	647,485	-1.0
West Central	6,134	-4.1	339,328	0.3
Southeast	17,957	-3.4	1,018,107	0.2
South Central	14,339	-2.0	837,030	6.2
Rocky Mountain	5,280	-2.9	296,944	0.6
Pacific Northwest	3,512	4.5	161,619	1.1
Pacific Southwest	4,859	8.1	275,150	2.1
Total United States	73,813	-1.7	4,102,283	1.1

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2023	Week Ended	2022	% Inc. (23/22)	52 Weeks Ended	2023	% Inc. (23/22)
Feb 18	75,037	Feb 19	78,773	-4.7	Feb 18	4,107,853	1.6
Feb 25	74,362	Feb 26	79,110	-6.0	Feb 25	4,103,105	1.3
Mar 04	74,916	Mar 05	74,439	0.6	Mar 04	4,103,582	1.3
Mar 11	73,813	Mar 12	75,113	-1.7	Mar 11	4,102,283	1.1
Mar 11	764,096	Mar 12	804,715	-5.0	YEAR TO DATE, FIRST 10 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2023	Week Ended	2022	Week Ended	2021
Feb 18	178	Feb 19	194	Feb 20	197
Feb 25	178	Feb 26	181	Feb 27	169
Mar 04	170	Mar 05	171	Mar 06	169
Mar 11	168	Mar 12	182	Mar 13	169

* Excludes Alaska and Hawaii.

+ Includes investor-owned companies, cooperatives and government-owned utilities. copyright © 2023 Edison Electric Institute. All rights reserved.

EEI WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION (48 CONTIGUOUS STATES)

	Week Ended			NMA CUMULATIVE JANUARY WEEK ONE TO			52 Weeks Ended		
	11-Mar 2023 GWh Output	12-Mar 2022 GWh Output	% Increase Over Corresponding Week	11-Mar 2023 GWh Output	12-Mar 2022 GWh Output	% Increase Over Corresponding Week	11-Mar 2023 GWh Output	12-Mar 2022 GWh Output	% Increase Over Corresponding Week
New England	2,101	2,149	-2.2%	22,605	24,189	-6.5%	114,194	116,434	-1.9%
Mid-Atlantic	7,648	7,587	0.8%	78,516	85,555	-8.2%	412,427	419,814	-1.8%
Central Industrial	11,983	12,477	-4.0%	125,142	135,280	-7.5%	647,485	653,782	-1.0%
West Central	6,134	6,396	-4.1%	64,662	67,169	-3.7%	339,328	338,235	0.3%
Southeast	17,957	18,587	-3.4%	186,534	204,983	-9.0%	1,018,107	1,016,253	0.2%
South Central	14,339	14,625	-2.0%	145,376	148,882	-2.4%	837,030	788,047	6.2%
Rocky Mountain	5,280	5,438	-2.9%	56,601	55,799	1.4%	296,944	295,065	0.6%
Pacific Northwest	3,512	3,360	4.5%	35,880	35,624	0.7%	161,619	159,865	1.1%
Pacific Southwest	4,859	4,494	8.1%	48,780	47,233	3.3%	275,150	269,375	2.1%
Total United States ^{1/}	73,813	75,113	-1.7%	764,096	804,714	-5.0%	4,102,284	4,056,870	1.1%
Coal Regions Only ^{2/}	63,341	65,110	-2.7%	656,831	697,668	-5.9%	3,551,321	3,511,196	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*.

AMERICAN IRON AND STEEL INSTITUTE
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March 13, 2023

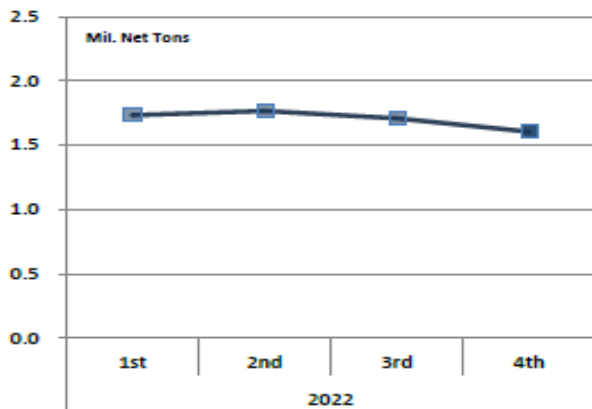
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

Period	Thousand Net Tons	Percent Change from Previous Period	Percent Capability Utilization**	Production by District		
				Week Ending		
				Mar 11	Mar 4	
<u>Week Ending</u>				North East	148	143
				Great Lakes	547	533
March 11, 2023	1,677	0.8	75.0	Midwest	210	206
March 11, 2022	1,710	-1.9	78.7	Southern	704	717
March 4, 2023	1,664	-0.6	74.4	Western	68	65
				Total	1,677	1,664
<u>Year-to-Date +</u>						
March 11, 2023	16,513	-5.1	73.9			
March 11, 2022	17,394	-	79.7			

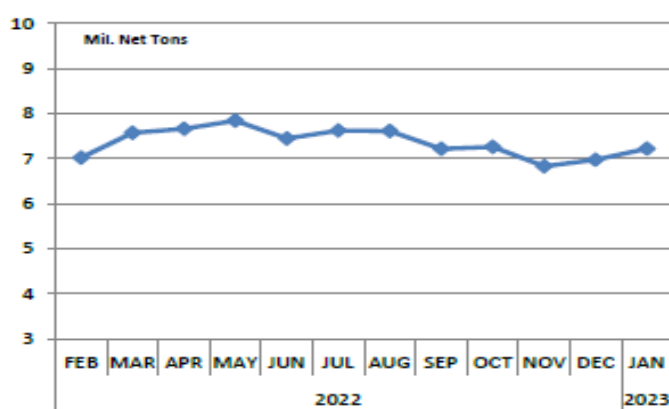
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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

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

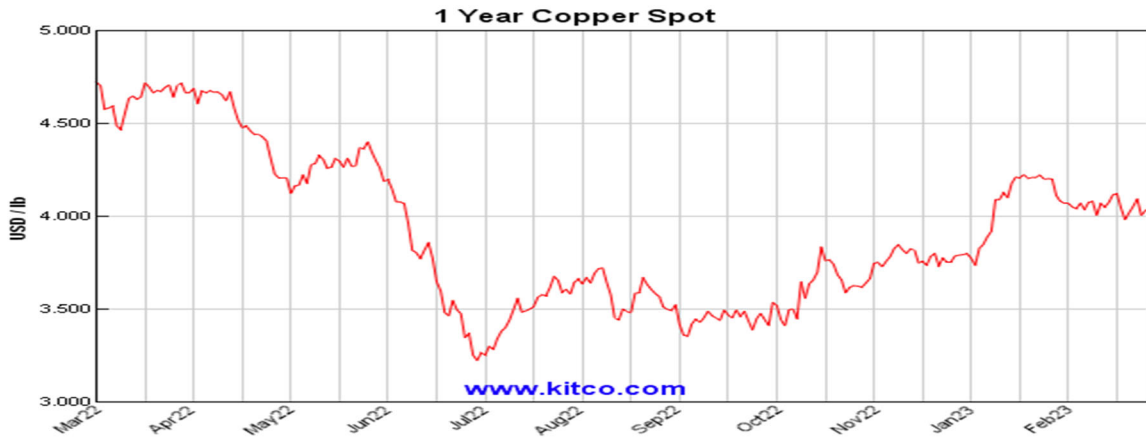
Average Weekly Raw Steel Production



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 10, 2023 – Ended March 11, 2023

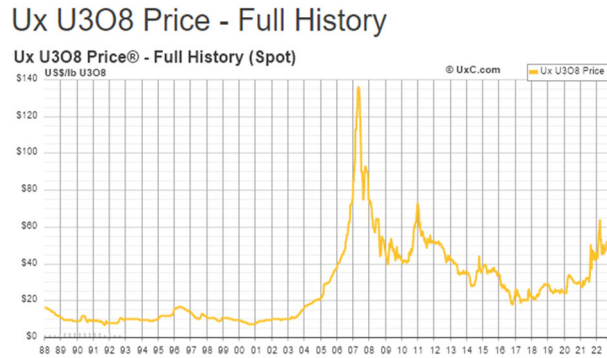
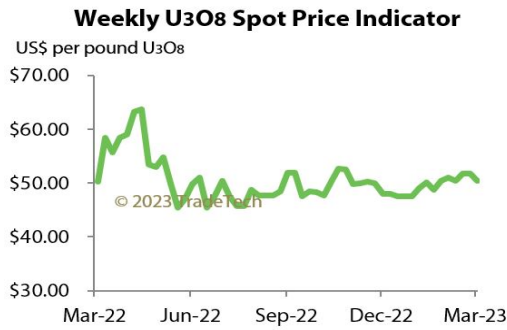
	This Week		Year-To-Date		
	Cars	vs 2022	Cumulative	Avg/wk ²	vs 2022
Total Carloads	229,246	-1.5%	2,296,099	229,610	-0.1%
Chemicals	33,013	-8.1%	320,604	32,060	-7.4%
Coal	64,926	-0.1%	666,265	66,627	-0.2%
Farm Products excl. Grain, and Food	17,238	1.0%	169,834	16,983	4.1%
Forest Products	9,487	-3.6%	92,598	9,260	-7.1%
Grain	20,174	-5.1%	223,479	22,348	-5.2%
Metallic Ores and Metals	18,962	-5.4%	202,103	20,210	0.4%
Motor Vehicles and Parts	15,271	9.6%	136,568	13,657	10.5%
Nonmetallic Minerals	31,720	4.1%	295,092	29,509	6.5%
Petroleum and Petroleum Products	9,563	-4.4%	105,304	10,530	12.1%
Other	8,892	-3.3%	84,252	8,425	-5.6%
Total Intermodal Units	229,383	-13.0%	2,330,068	233,007	-9.0%
Total Traffic	458,629	-7.6%	4,626,167	462,617	-4.8%

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.

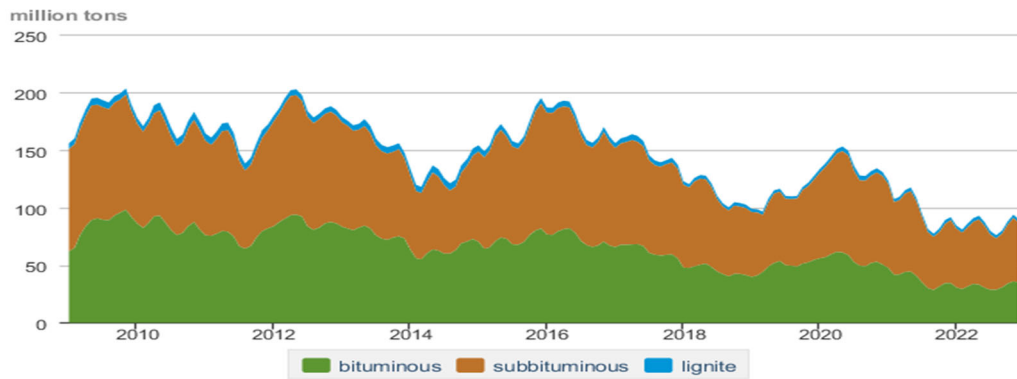
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

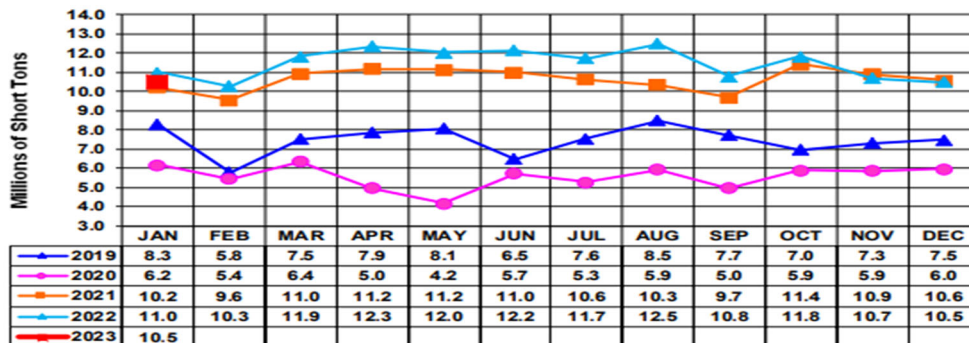
Coal stocks by type, January 2009 - December 2022



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

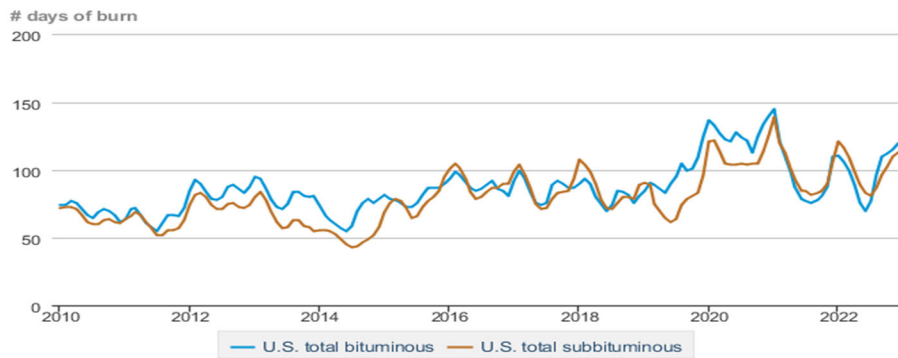
Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	02/10/23	02/17/23	02/24/23	03/03/23	03/10/23	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$131.65	\$135.70	\$135.70	\$128.60	\$128.60	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$97.75	\$100.75	\$100.75	\$97.50	\$97.50	\$0.00
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$123.75	\$123.75	\$123.75	\$107.00	\$107.00	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$15.40	\$15.50	\$15.50	\$15.30	\$15.30	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$37.55	\$37.40	\$37.40	\$37.25	\$37.25	\$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 - December 2022



 Data source: U.S. Energy Information Administration

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

Region	Temperature – heating & cooling degree days (week ending Mar 02)					
	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	259	22	-15	0	0	0
Middle Atlantic	211	-12	-18	0	0	0
E N Central	199	-39	-40	0	0	0
W N Central	251	12	-11	0	0	0
South Atlantic	79	-61	-33	18	9	5
E S Central	58	-77	-76	5	2	5
W S Central	44	-43	-102	21	14	20
Mountain	227	46	15	0	-1	-1
Pacific	173	76	71	0	-1	0
United States	171	-6	-17	6	3	3

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

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	December 2022		December 2021		% Change of Stocks	November 2022		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	2,521	365	2,851	365	-11.6%	2,579	365	-2.3%
	Subbituminous								
South	Bituminous	15,741	124	14,515	114	8.4%	16,264	122	-3.2%
	Subbituminous	3,663	59	3,921	68	-6.6%	3,708	65	-1.2%
Midwest	Bituminous	8,608	89	7,700	77	11.8%	8,395	84	2.5%
	Subbituminous	22,997	141	20,064	119	14.6%	23,752	140	-3.2%
West	Bituminous	2,131	153	2,051	126	3.9%	2,385	157	-10.6%
	Subbituminous	18,658	107	18,838	105	-1.0%	19,245	106	-3.1%
U.S. Total	Bituminous	29,000	120	27,117	110	6.9%	29,624	115	-2.1%
	Subbituminous	45,317	113	42,822	106	5.8%	46,705	110	-3.0%

Source: Energy Information Administration, *Electricity Monthly Update*

Mining-Related Commodity Prices

Commodity Price - Snapshot		
Metals Prices	Date	Price
Cobalt Spot Price (\$/lb)	3/14/23	\$15.50
Copper Spot Price (\$/lb)	3/15/23	\$3.89
Gold Spot Price (\$/ounce)	3/15/23	\$1,924.93
Lithium Spot Price (\$/kg)	3/15/23	\$47.45
Molybdenum Spot Price (\$/kg)	3/14/23	\$90.50
Nickel Spot Price (\$/lb)	3/14/23	\$10.35
Silver Spot Price (\$/ounce)	3/15/23	\$21.81
Steel HRC Price (\$/mt)	3/15/23	\$1,259.30
Steel Rebar Price (\$/mt)	3/15/23	\$629.24
Zinc Spot Price (\$/lb)	3/15/23	\$1.29
Energy Prices	Date	Price
Coal Price - Australian Premium Coking Coal Futures (\$/mt)	3/14/23	\$338.00
Coal Spot Price - Central Appalachian (\$/st)	3/10/23	\$128.60
Coal Spot Price - Newcastle futures (\$/mt)	3/15/23	\$179.52
Coal Spot Price - Rotterdam futures (\$/mt)	3/15/23	\$137.00
Natural Gas Spot Price - Henry Hub (\$/mmbtu)	3/8/23	\$2.50
Uranium Spot Price (\$/lb)	3/14/23	\$50.30

Sources: publicly 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)		
	2023-03-03	2023-02-24	change
East	416	451	-35
Midwest	515	544	-29
Mountain	92	99	-7
Pacific	81	99	-18
South Central	925	922	3
Total	2,030	2,114	-84

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 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		
	March 2023	April 2023	change	March 2023	April 2023	change
Anadarko	672	673	1	3,921	3,952	31
Appalachia	190	191	1	24,578	24,161	(417)
Bakken	1,684	1,685	1	2,507	2,508	1
Eagle Ford	1,413	1,398	(15)	5,847	5,771	(76)
Haynesville	19	19	-	10,743	10,732	(11)
Niobrara	1,420	1,434	14	3,705	3,798	93
Permian	1,057	1,056	(1)	2,073	2,052	(21)
Rig-weighted average	944	939	(5)	5,343	5,298	(45)

Source: Energy Information Administration, *Drilling Productivity Report*

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

Cobalt - December 2022	Dec-22	Year to Date
U.S. Imports for Consumption - Metals (mt)	678	7,210
U.S. Exports of Cobalt Materials - Cobalt Content (mt)	460	5,320
Reported Stocks of Cobalt Metal (mt)	U.S. Govt	LME
	302	165
Listed Prices by Type (\$/lb): US Spot & LME Cash Avg.	20.61	23.24

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

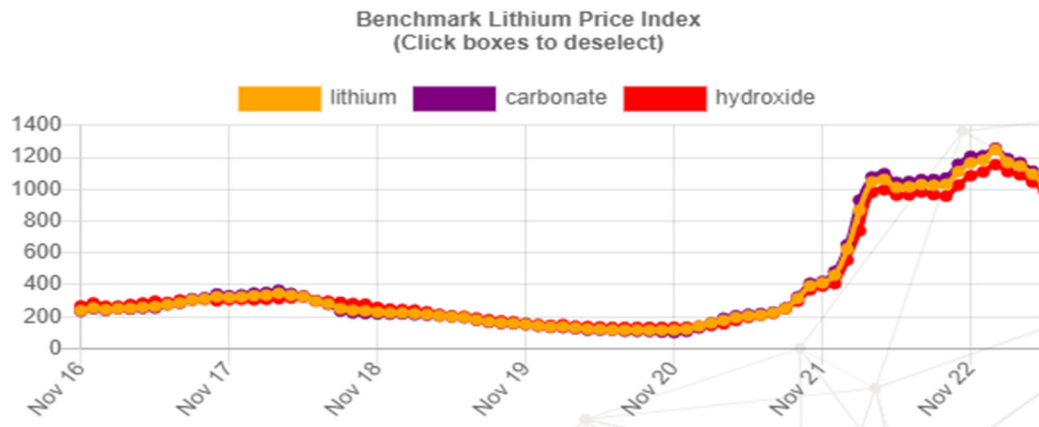
Cobalt and Lithium Prices

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/>