



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

January 20, 2023 Edition
(Data for Week Ending January 14, 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. 2 | Dated 01/20/23

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	01/14/23	01/08/22	% Chg	01/14/23	01/14/22	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	12,207	9,710	25.7%	23,450	21,420	9.5%
52 Weeks Ended	609,647	574,708	6.1%			
<i>Note: the year 2022 has an extra Saturday</i>						
AAR Coal Rail Cars Loaded:	69,406	54,916	26.4%	133,334	121,205	10.0%
Coal Production	Dec 22/21		% Chg	Jan - Dec 22/21		% Chg
Month Ended - December	46,326	48,576	-4.6%	597,176	577,431	3.4%

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

	Nov 22/21		% Chg	Jan - Nov 22/21		% Chg
Coal Exports:						
Metallurgical	4,163	3,577	16.4%	43,076	41,381	4.1%
Steam Bit. *	3,336	3,410	-2.2%	34,614	36,125	-4.2%
Lignite	11	6	83.3%	76	71	7.0%
Anthracite	47	6	683.3%	433	281	54.1%
Total	7,557	6,999	8.0%	78,199	77,858	0.4%
Coal Imports:	690	436	58.3%	6,021	4,701	28.1%

	Week Ended			Cumulative Week 1 to		
	01/14/23	01/15/22	% Chg	01/14/23	01/15/22	% Chg
EI Electric Total Output (Mil. Kwh)	77,445	80,764	-4.1%	150,552	163,217	-7.8%
EI Coal Region Output (Mil. Kwh)	66,718	69,719	-4.3%	129,184	140,967	-8.4%
AISI Raw Steel Output (000 Tons)	1,602	1,735	-7.7%	3,197	3,471	-7.9%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	01/13/23	01/06/23	% Chg	Wed.	1/11/23
Central App, 12,500 Btu, 1.2 SO ₂	\$138.00	\$138.00	0.0%	Henry Hub	3.35
Northern App, 13,000 Btu, < 3.0 SO ₂	115.00	115.00	0.0%	New York	2.79
Illinois Basin, 11,800, 5.0 SO ₂	116.00	116.00	0.0%	Chicago	3.15
Powder River Basin, 8,800 Btu 0.8 SO ₂	15.50	15.50	0.0%	Cal.Comp.Avg.	17.63
Uinta Basin, 11,700 Btu, 0.8 SO ₂	37.85	37.85	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		
	1/14/2023 (week 2)	1/7/2023 (week 1)	1/8/2022 (week 2)	1/14/2023	1/14/2022	% Change	1/14/2023	1/8/2022	% Change
Alabama	204	187	168	391	372	5.1	10,116	9,331	8.4
Alaska	20	17	18	37	39	-4.8	982	1,032	-4.8
Colorado	273	272	183	544	403	34.9	13,840	11,845	16.8
Illinois	808	692	607	1,500	1,338	12.1	38,275	36,439	5.0
Indiana	480	458	344	938	759	23.6	23,147	19,382	19.4
Kentucky total	608	562	463	1,169	1,021	14.5	29,125	26,313	10.7
Eastern (KY)	265	253	184	518	406	27.6	12,378	10,120	22.3
Western (KY)	343	309	279	652	615	5.9	16,747	16,193	3.4
Louisiana	5	6	4	11	9	24.4	308	299	3.0
Maryland	27	26	20	53	45	17.3	1,376	1,252	9.9
Mississippi	64	64	48	128	106	20.0	3,465	3,176	9.1
Missouri	2	1	1	3	3	19.6	60	44	36.4
Montana	585	545	457	1,130	1,008	12.1	29,801	28,454	4.7
New Mexico	256	240	181	495	400	23.8	11,577	9,241	25.3
North Dakota	528	506	467	1,034	1,029	0.5	27,669	26,356	5.0
Ohio	55	49	47	104	103	0.5	2,674	2,739	-2.4
Oklahoma	s	s	s	s	s	-3.5	2	1	100.0
Pennsylvania total	774	706	670	1,480	1,478	0.2	39,384	42,028	-6.3
Anthracite (PA)	58	53	41	111	91	22.3	2,588	2,108	22.8
Bituminous (PA)	716	653	629	1,369	1,387	-1.3	36,796	39,920	-7.8
Tennessee	s	s	.	s	.	100.0	1	.	.
Texas	345	319	267	663	589	12.6	17,582	17,188	2.3
Utah	234	195	211	428	466	-8.2	11,643	12,358	-5.8
Virginia	212	193	172	406	380	6.7	11,002	10,837	1.5
West Virginia total	1,764	1,598	1,356	3,363	2,992	12.4	85,207	78,186	9.0
Northern (WV)	988	905	763	1,893	1,684	12.4	48,023	44,203	8.6
Southern (WV)	776	694	593	1,470	1,309	12.3	37,184	33,983	9.4
Wyoming	4,965	4,609	4,025	9,573	8,879	7.8	252,410	238,207	6.0
Appalachian total	3,302	3,012	2,618	6,314	5,776	9.3	162,138	154,493	4.9
Interior total	2,046	1,848	1,550	3,894	3,419	13.9	99,586	92,721	7.4
Western total	6,860	6,383	5,542	13,243	12,225	8.3	347,923	327,493	6.2
East of Mississippi River	4,996	4,535	3,896	9,531	8,595	10.9	243,772	229,683	6.1
West of Mississippi River	7,211	6,709	5,814	13,920	12,825	8.5	365,875	345,025	6.0
Bituminous and lignite	12,149	11,190	9,669	23,339	21,329	9.4	607,059	572,600	6.0
Anthracite	58	53	41	111	91	22.3	2,588	2,108	22.8
U.S. total	12,207	11,243	9,710	23,450	21,420	9.5	609,647	574,708	6.1
Railroad cars loaded	69,406	63,928	54,916	133,334	121,205	10.0	3,496,625	3,321,918	5.3

Source: Energy Information Administration



Weekly Electric Output

Volume 91 No. 2

OUTPUT FOR WEEK ENDED - Jan 14, 2023

Jan 19, 2023

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Jan 14, 2023** was **77,445** 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 January 14		52 Weeks Ended January 14	
	GWh Output	% Increase Over Corresponding Week of 2022	GWh Output	% Increase Over Corresponding Period of 2022
New England	2,320	-9.8	115,306	-0.7
Mid-Atlantic	8,069	-10.1	417,306	-0.5
Central Industrial	12,839	-6.0	654,868	0.5
West Central	6,649	1.6	341,160	1.3
Southeast	19,526	-5.1	1,032,314	2.0
South Central	14,035	-1.5	838,847	7.8
Rocky Mountain	5,600	-1.9	295,876	0.9
Pacific Northwest	3,426	-5.8	160,790	0.6
Pacific Southwest	4,981	3.0	273,768	1.8
Total United States	77,445	-4.1	4,130,235	2.3

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2023	Week Ended	2022	% Inc. (23/22)	52 Weeks Ended	2023	% Inc. (23/22)
Dec 24	89,032	Dec 25	76,450	16.5	Dec 24	4,135,818	2.6
Dec 31	79,495	Jan 01	72,412	9.8	Dec 31	4,142,901	2.8
Jan 07	73,106	Jan 08	82,453	-11.3	Jan 07	4,133,554	2.4
Jan 14	77,445	Jan 15	80,764	-4.1	Jan 14	4,130,235	2.3
Jan 14	150,552	Jan 15	163,217	-7.8	YEAR TO DATE, FIRST 2 WEEKS		

WEEKLY ELECTRIC OUTPUT INDEX--TOTAL U.S.*
SEASONALLY ADJUSTED 1982 = 100

Week Ended	2023	Week Ended	2022	Week Ended	2021
Dec 24	211	Dec 25	182	Dec 26	177
Dec 31	182	Jan 01	160	Jan 02	160
Jan 07	170	Jan 08	179	Jan 09	165
Jan 14	178	Jan 15	176	Jan 16	169

* 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		
	14-Jan 2023 GWh Output	15-Jan 2022 GWh Output	% Increase Over Corresponding Week	14-Jan 2023 GWh Output	15-Jan 2022 GWh Output	% Increase Over Corresponding Week	14-Jan 2023 GWh Output	15-Jan 2022 GWh Output	% Increase Over Corresponding Week
New England	2,320	2,571	-9.8%	4,512	4,987	-9.5%	115,306	116,175	-0.7%
Mid-Atlantic	8,069	8,979	-10.1%	15,362	17,521	-12.3%	417,306	419,223	-0.5%
Central Industrial	12,839	13,665	-6.0%	24,883	27,637	-10.0%	654,868	651,713	0.5%
West Central	6,649	6,541	1.7%	12,982	13,658	-4.9%	341,160	336,782	1.3%
Southeast	19,526	20,580	-5.1%	37,378	41,618	-10.2%	1,032,314	1,012,175	2.0%
South Central	14,035	14,248	-1.5%	27,507	29,196	-5.8%	838,847	778,165	7.8%
Rocky Mountain	5,600	5,706	-1.9%	11,072	11,337	-2.3%	295,876	293,250	0.9%
Pacific Northwest	3,426	3,638	-5.8%	6,941	7,515	-7.6%	160,790	159,858	0.6%
Pacific Southwest	4,981	4,836	3.0%	9,914	9,748	1.7%	273,768	268,903	1.8%
Total United States ^{1/}	<u>77,445</u>	<u>80,764</u>	-4.1%	<u>150,551</u>	<u>163,217</u>	-7.8%	<u>4,130,235</u>	<u>4,036,244</u>	2.3%
Coal Regions Only ^{2/}	66,718	69,719	-4.3%	129,184	140,967	-8.4%	3,580,371	3,491,308	2.6%

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

January 17, 2023

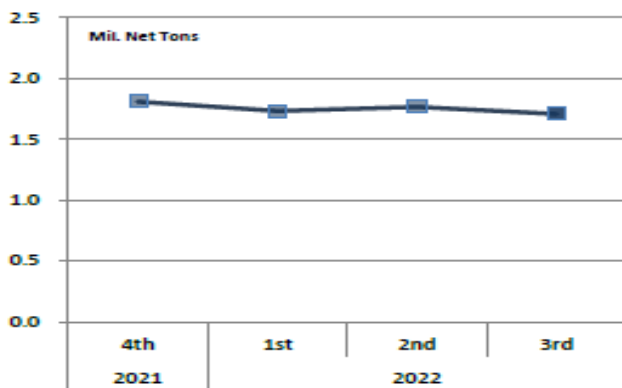
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<u>Period</u>	<u>Thousand Net Tons</u>	<u>Percent Change from Previous Period</u>	<u>Percent Capacity Utilization**</u>	<u>Production by District</u>		
				<u>Week Ending Jan 14</u>	<u>Week Ending Jan 7</u>	
<u>Week Ending</u>				North East	124	128
				Great Lakes	546	541
January 14, 2023	1,602	0.4	71.7	Midwest	205	200
January 14, 2022	1,735	-7.7	79.8	Southern	657	654
January 7, 2023	1,595	-0.4	71.3	Western	<u>70</u>	<u>72</u>
				Total	1,602	1,595
<u>Year-to-Date +</u>						
January 14, 2023	3,197	-7.9	71.5			
January 14, 2022	3,471	-	79.8			

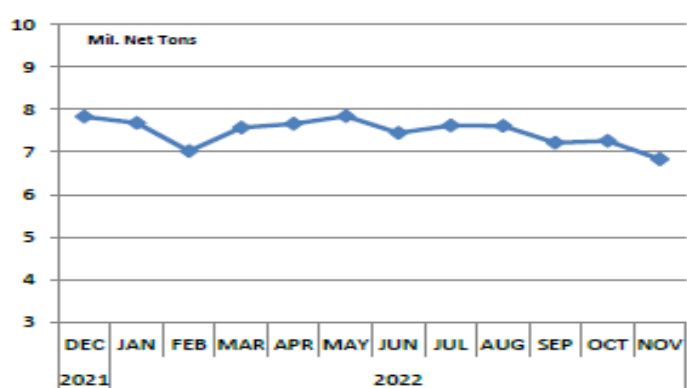
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides 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 September 2022 was approximately 76.4%, 7.19 million net tons.

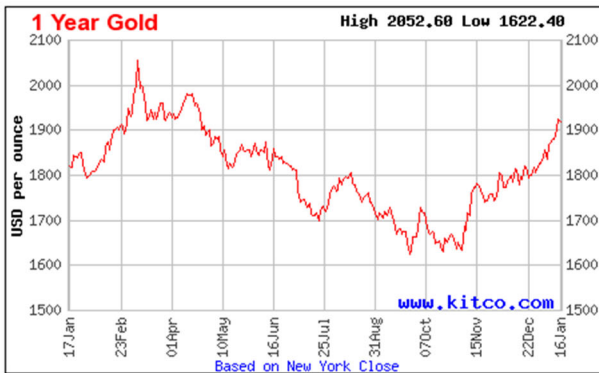
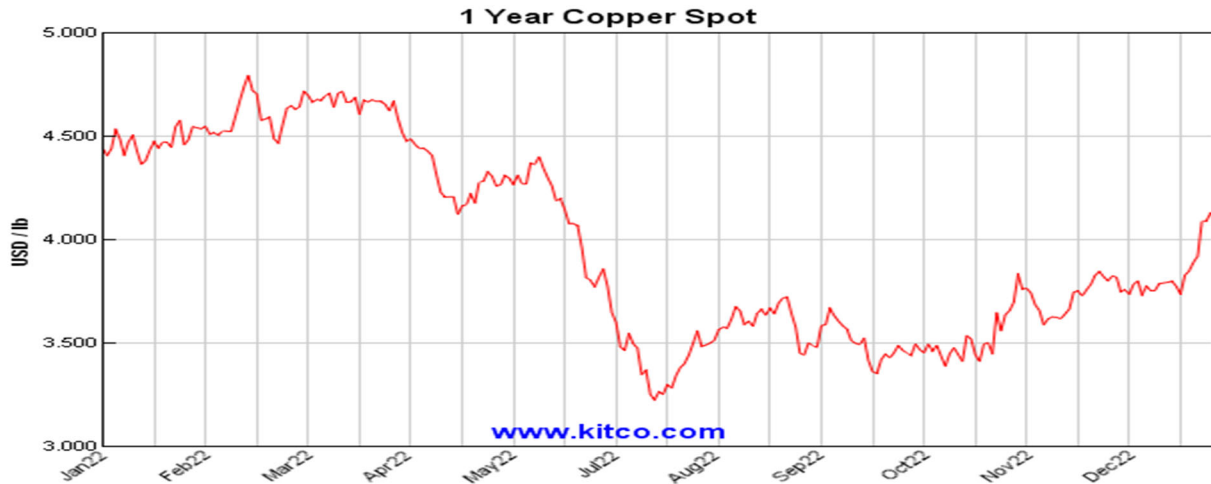
Average Weekly Raw Steel Production



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 2, 2023 – Ended January 14, 2023

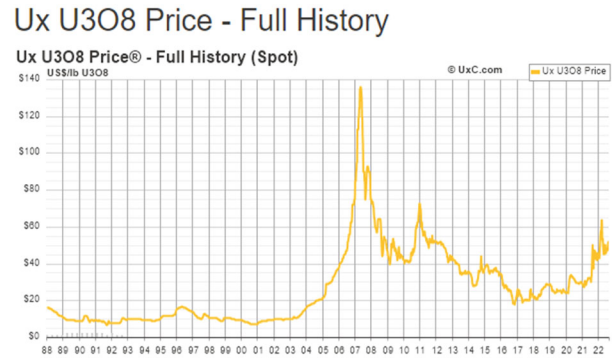
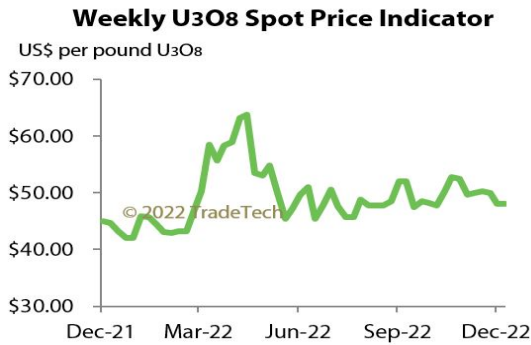
	This Week		Year-To-Date		
	Cars	vs 2022	Cumulative	Avg/wk ²	vs 2022
Total Carloads	244,171	4.2%	457,133	228,567	2.9%
Chemicals	31,793	-6.5%	59,149	29,575	-13.5%
Coal	69,406	1.7%	133,334	66,667	8.1%
Farm Products excl. Grain, and Food	17,077	3.4%	32,512	16,256	2.4%
Forest Products	9,244	-7.2%	17,818	8,909	-9.3%
Grain	28,008	14.2%	50,097	25,049	8.0%
Metallic Ores and Metals	23,208	6.1%	43,511	21,756	4.4%
Motor Vehicles and Parts	14,562	17.6%	26,314	13,157	13.5%
Nonmetallic Minerals	30,380	11.1%	56,770	28,385	7.2%
Petroleum and Petroleum Products	10,913	11.6%	21,032	10,516	12.6%
Other	9,580	-1.2%	16,596	8,298	-9.8%
Total Intermodal Units	241,829	-7.0%	445,356	222,678	-9.2%
Total Traffic	486,000	-1.7%	902,489	451,245	-3.5%

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.

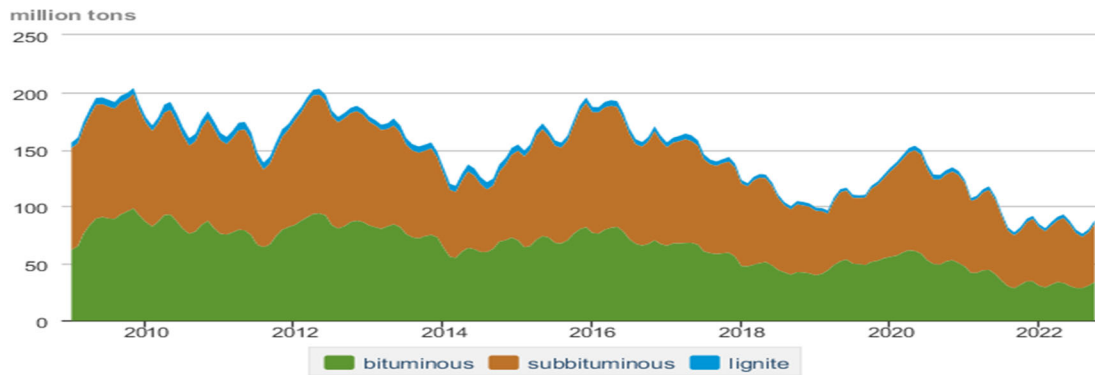
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

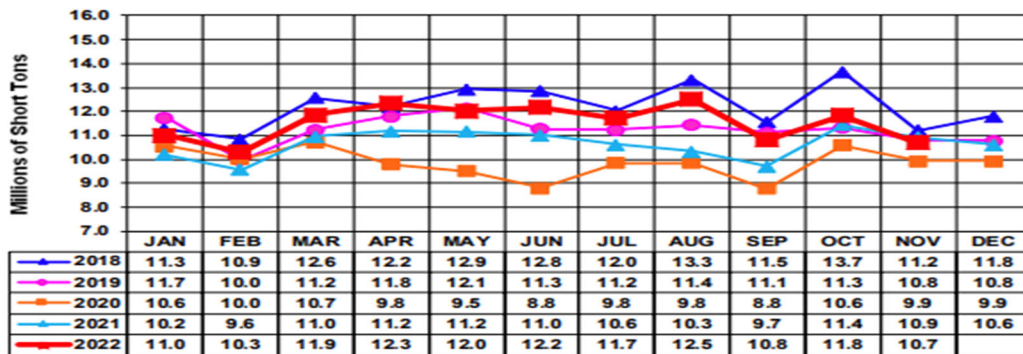
Coal stocks by type, January 2009 - October 2022



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

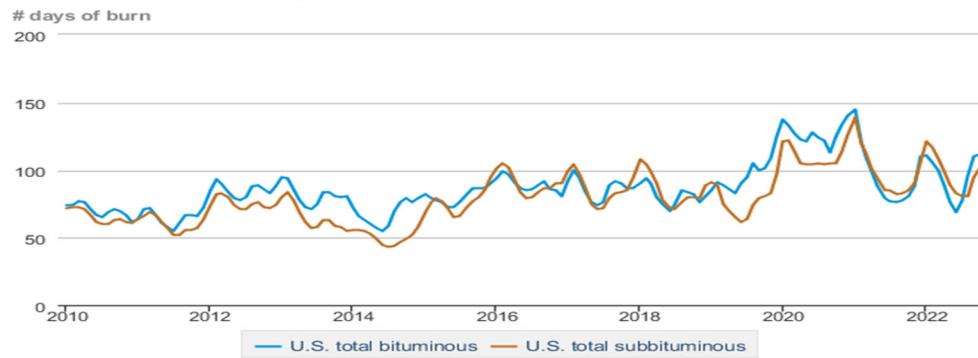
Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	12/16/22	12/23/22	12/30/22	01/06/23	01/13/23	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$199.40	\$205.55	\$205.55	\$138.00	\$138.00	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$203.45	\$209.70	\$209.70	\$115.00	\$115.00	\$0.00
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$168.25	\$168.25	\$168.25	\$116.00	\$116.00	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$15.60	\$15.55	\$15.55	\$15.50	\$15.50	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$41.35	\$41.20	\$41.20	\$37.85	\$37.85	\$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 - October 2022



eia Data source: U.S. Energy Information Administration

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

Temperature – heating & cooling degree days (week ending Jan 05)

Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	165	-101	-38	0	0	0
Middle Atlantic	134	-120	-51	0	0	0
E N Central	168	-121	-82	0	0	0
W N Central	229	-84	-114	0	0	0
South Atlantic	75	-105	-27	13	6	-2
E S Central	63	-123	-49	1	0	-5
W S Central	59	-80	-45	8	6	-5
Mountain	227	-9	-32	0	0	0
Pacific	128	2	-21	0	0	0
United States	140	-82	-54	3	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

Natural gas spot prices (Henry Hub)
dollars per million British thermal units



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	October 2022		October 2021		% Change of Stocks	September 2022		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	2,200	365	2,164	350	1.6%	1,925	365	14.3%
	Subbituminous								
South	Bituminous	14,816	114	12,039	86	23.1%	12,480	108	18.7%
	Subbituminous	3,611	65	3,297	52	9.5%	3,584	63	0.8%
Midwest	Bituminous	8,322	90	6,298	58	32.1%	7,247	87	14.8%
	Subbituminous	20,656	116	19,527	105	5.8%	17,096	111	20.8%
West	Bituminous	2,681	155	1,800	88	48.9%	3,029	163	-11.5%
	Subbituminous	16,759	97	15,142	73	10.7%	14,939	90	12.2%
U.S. Total	Bituminous	28,018	112	22,302	81	25.6%	24,681	110	13.5%
	Subbituminous	41,026	101	37,966	85	8.1%	35,619	95	15.2%

Source: U.S. Energy Information Administration

Source: Energy Information Administration, *Electricity Monthly Update*

EIA Working Natural Gas Underground Storage

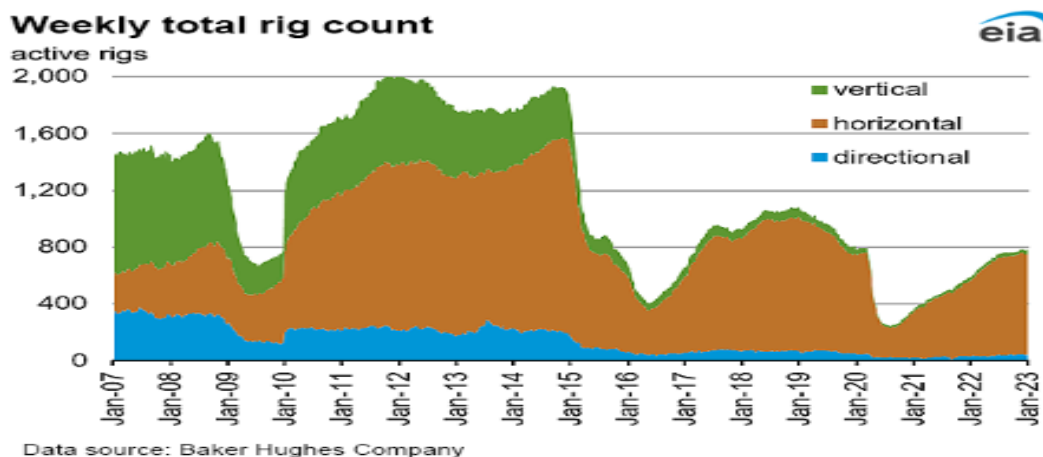
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2023-01-06	2022-12-30	change
East	700	691	9
Midwest	823	839	-16
Mountain	153	157	-4
Pacific	160	165	-5
South Central	1,067	1,040	27
Total	2,902	2,891	11

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



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					
	January 2023	February 2023	change	January 2023	February 2023	change			
Anadarko	689	690	1	3,857	3,892	35			
Appalachia	191	191	-	25,436	25,004	(432)			
Bakken	1,707	1,716	9	2,555	2,573	18			
Eagle Ford	1,481	1,465	(16)	5,952	5,875	(77)			
Haynesville	19	19	-	10,739	10,728	(11)			
Niobrara	1,381	1,375	(6)	3,453	3,408	(45)			
Permian	1,061	1,060	(1)	2,086	2,065	(21)			
Rig-weighted average	952	948	(4)	5,434	5,378	(56)			

Source: Energy Information Administration, *Drilling Productivity Report*

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

Cobalt - September 2022	Sep-22	Year to Date
U.S. Imports for Consumption - Metals (mt)	578	5,380
U.S. Exports of Cobalt Materials - Cobalt Content (mt)	349	3,780
Reported Stocks of Cobalt Metal (mt)	U.S. Govt	LME
	302	175
Listed Prices by Type (\$/lb): US Spot & LME Cash Avg.	25.9	23.25

Source: USGS, Mineral Industry Survey, Cobalt in September 2022, December 2022

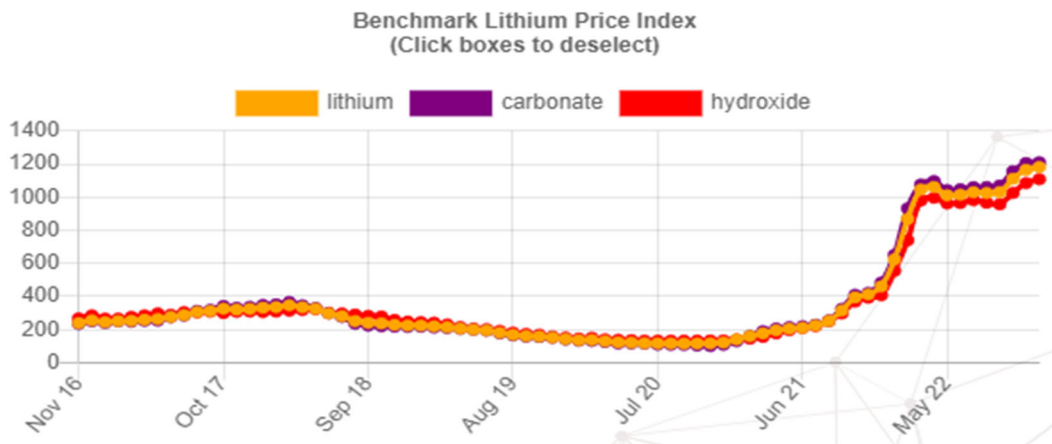
Cobalt and Lithium Prices

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/>