



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

January 27, 2023 Edition
(Data for Week Ending January 21, 2023)

Prepared by
National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

Vol. 61, No. 3 | Dated 01/27/23

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	01/21/23	01/15/22	% Chg	01/21/23	01/21/22	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	12,078	12,000	0.7%	35,529	33,181	7.1%
52 Weeks Ended	609,725	576,135	5.8%			
<i>Note: the year 2022 has an extra Saturday</i>						
AAR Coal Rail Cars Loaded:	68,675	67,867	1.2%	202,009	187,719	7.6%
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		
	01/21/23	01/22/22	% Chg	01/21/23	01/22/22	% Chg
EI Electric Total Output (Mil. Kwh)	76,887	85,137	-9.7%	227,438	248,354	-8.4%
EI Coal Region Output (Mil. Kwh)	66,037	74,351	-11.2%	195,221	215,318	-9.3%
AISI Raw Steel Output (000 Tons)	1,620	1,735	-6.6%	4,817	5,206	-7.5%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	01/20/23	01/13/23	% Chg	Wed.	1/18/23
Central App, 12,500 Btu, 1.2 SO ₂	\$142.25	\$138.00	3.1%	Henry Hub	3.11
Northern App, 13,000 Btu, < 3.0 SO ₂	117.75	115.00	2.4%	New York	2.82
Illinois Basin, 11,800, 5.0 SO ₂	140.00	116.00	20.7%	Chicago	2.99
Powder River Basin, 8,800 Btu 0.8 SO ₂	15.45	15.50	-0.3%	Cal.Comp.Avg.	19.98
Uinta Basin, 11,700 Btu, 0.8 SO ₂	37.70	37.85	-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		
	1/21/2023 (week 3)	1/14/2023 (week 2)	1/15/2022 (week 3)	1/21/2023	1/21/2022	% Change	1/21/2023	1/15/2022	% Change
Alabama	198	204	208	588	576	2.2	10,106	9,304	8.6
Alaska	20	20	22	57	61	-6.3	980	1,031	-4.9
Colorado	280	273	226	825	625	31.9	13,895	11,888	16.9
Illinois	750	808	750	2,250	2,073	8.5	38,275	36,344	5.3
Indiana	476	480	425	1,414	1,176	20.3	23,199	19,439	19.3
Kentucky total	600	608	572	1,769	1,582	11.9	29,153	26,395	10.4
Eastern (KY)	264	265	227	782	629	24.4	12,414	10,180	21.9
Western (KY)	336	343	345	988	953	3.6	16,738	16,215	3.2
Louisiana	6	5	5	16	14	21.2	309	300	3.0
Maryland	27	27	25	80	70	14.1	1,377	1,251	10.1
Mississippi	64	64	60	192	165	16.4	3,469	3,174	9.3
Missouri	1	2	1	4	4	14.7	60	44	36.4
Montana	583	585	565	1,713	1,561	9.7	29,819	28,523	4.5
New Mexico	258	256	224	753	620	21.5	11,610	9,287	25.0
North Dakota	534	528	577	1,568	1,595	-1.7	27,627	26,406	4.6
Ohio	54	55	58	158	160	-1.3	2,671	2,740	-2.5
Oklahoma	s	s	s	s	s	-12.2	2	1	100.0
Pennsylvania total	762	774	828	2,242	2,289	-2.1	39,318	41,967	-6.3
Anthracite (PA)	57	58	51	168	141	19.6	2,594	2,120	22.4
Bituminous (PA)	705	716	777	2,074	2,148	-3.5	36,724	39,847	-7.8
Tennessee	s	s	.	s	.	100.0	1	.	.
Texas	346	345	330	1,009	912	10.6	17,598	17,237	2.1
Utah	224	234	261	653	723	-9.7	11,606	12,377	-6.2
Virginia	210	212	213	616	589	4.5	10,999	10,850	1.4
West Virginia total	1,723	1,764	1,676	5,086	4,635	9.7	85,254	78,345	8.8
Northern (WV)	975	988	943	2,868	2,608	10.0	48,055	44,282	8.5
Southern (WV)	748	776	733	2,218	2,027	9.4	37,199	34,062	9.2
Wyoming	4,962	4,965	4,974	14,535	13,754	5.7	252,399	239,234	5.5
Appalachian total	3,238	3,302	3,236	9,551	8,947	6.7	162,139	154,636	4.9
Interior total	1,980	2,046	1,915	5,874	5,296	10.9	99,651	92,753	7.4
Western total	6,861	6,860	6,849	20,104	18,938	6.2	347,935	328,745	5.8
East of Mississippi River	4,864	4,996	4,815	14,395	13,314	8.1	243,821	229,809	6.1
West of Mississippi River	7,214	7,211	7,185	21,134	19,867	6.4	365,904	346,326	5.7
Bituminous and lignite	12,021	12,149	11,949	35,360	33,040	7.0	607,131	574,015	5.8
Anthracite	57	58	51	168	141	19.6	2,594	2,120	22.4
U.S. total	12,078	12,207	12,000	35,529	33,181	7.1	609,725	576,135	5.8
Railroad cars loaded	68,675	69,406	67,867	202,009	187,719	7.6	3,497,433	3,332,120	5.0

Source: Energy Information Administration



Weekly Electric Output

Volume 91 No. 3

OUTPUT FOR WEEK ENDED - Jan 21, 2023

Jan 25, 2023

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Jan 21, 2023** was **76,887** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **176** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended January 21		52 Weeks Ended January 21	
	GWh Output	% Increase Over Corresponding Week of 2022	GWh Output	% Increase Over Corresponding Period of 2022
New England	2,314	-9.7	115,056	-1.2
Mid-Atlantic	8,038	-12.3	416,177	-0.9
Central Industrial	12,663	-10.4	653,405	0.1
West Central	6,378	-8.4	340,571	1.0
Southeast	19,193	-15.4	1,028,833	1.4
South Central	13,837	-11.0	837,138	7.3
Rocky Mountain	5,928	1.0	295,934	0.8
Pacific Northwest	3,543	0.7	160,814	0.6
Pacific Southwest	4,993	6.1	274,057	1.9
Total United States	76,887	-9.7	4,121,985	1.9

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2023	Week Ended	2022	% Inc. (23/22)	52 Weeks Ended	2023	% Inc. (23/22)
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 21	76,887	Jan 22	85,137	-9.7	Jan 21	4,121,985	1.9
Jan 21	227,438	Jan 22	248,354	-8.4	YEAR TO DATE, FIRST 3 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2023	Week Ended	2022	Week Ended	2021
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
Jan 21	176	Jan 22	188	Jan 23	166

* 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		
	21-Jan 2023 GWh Output	22-Jan 2022 GWh Output	% Increase Over Corresponding Week	21-Jan 2023 GWh Output	22-Jan 2022 GWh Output	% Increase Over Corresponding Week	21-Jan 2023 GWh Output	22-Jan 2022 GWh Output	% Increase Over Corresponding Week
New England	2,314	2,563	-9.7%	6,826	7,550	-9.6%	115,056	116,412	-1.2%
Mid-Atlantic	8,038	9,167	-12.3%	23,400	26,688	-12.3%	416,177	420,135	-0.9%
Central Industrial	12,663	14,126	-10.4%	37,546	41,763	-10.1%	653,405	652,759	0.1%
West Central	6,378	6,967	-8.5%	19,360	20,625	-6.1%	340,571	337,230	1.0%
Southeast	19,193	22,675	-15.4%	56,571	64,293	-12.0%	1,028,833	1,014,819	1.4%
South Central	13,837	15,546	-11.0%	41,344	44,742	-7.6%	837,138	780,475	7.3%
Rocky Mountain	5,928	5,870	1.0%	17,000	17,207	-1.2%	295,934	293,540	0.8%
Pacific Northwest	3,543	3,519	0.7%	10,484	11,034	-5.0%	160,814	159,846	0.6%
Pacific Southwest	4,993	4,704	6.1%	14,907	14,452	3.1%	274,057	268,994	1.9%
Total United States ^{1/}	76,887	85,137	-9.7%	227,438	248,354	-8.4%	4,121,985	4,044,210	1.9%
Coal Regions Only ^{2/}	66,037	74,351	-11.2%	195,221	215,318	-9.3%	3,572,058	3,498,958	2.1%

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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January 23, 2023

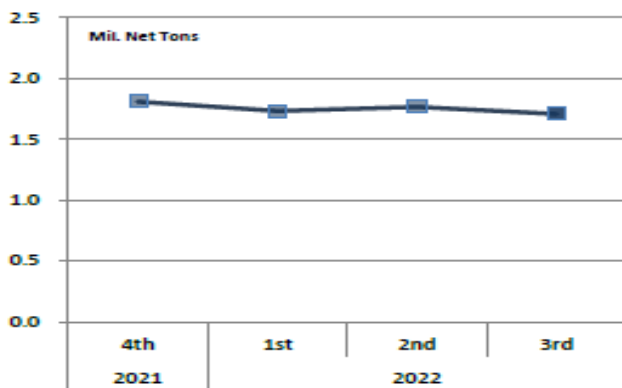
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<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</u>		
				<u>Jan 21</u>	<u>Jan 14</u>	
<u>Week Ending</u>				North East	127	124
				Great Lakes	542	546
January 21, 2023	1,620	1.1	72.5	Midwest	202	205
January 21, 2022	1,735	-6.6	79.8	Southern	681	657
January 14, 2023	1,602	-0.4	71.7	Western	68	70
				Total	1,620	1,602
<u>Year-to-Date +</u>						
January 21, 2023	4,817	-7.5	71.8			
January 21, 2022	5,206	-	79.8			

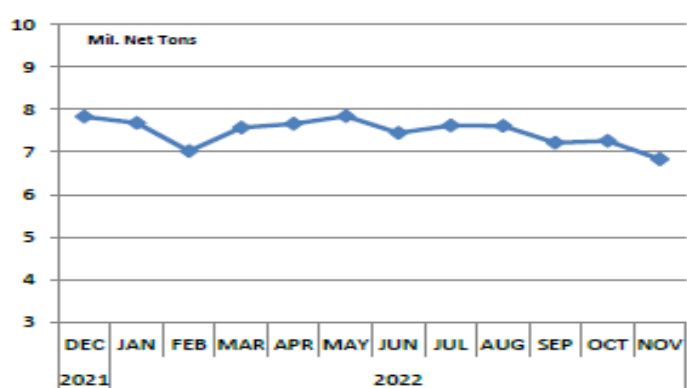
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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

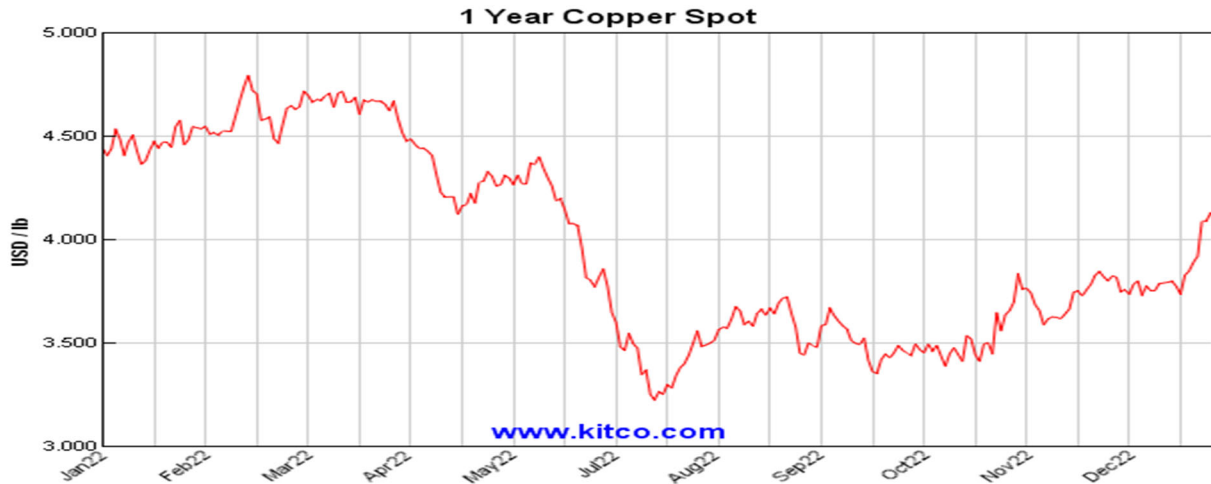
Average Weekly Raw Steel Production



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 3, 2023 – Ended January 21, 2023

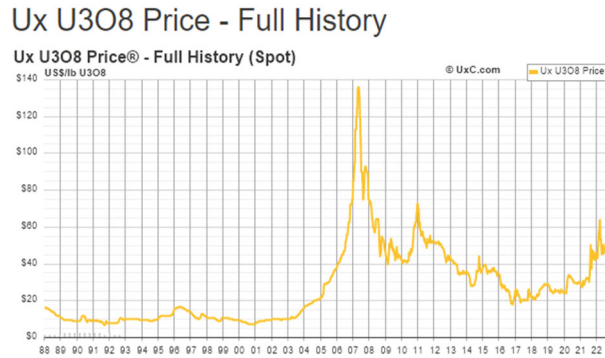
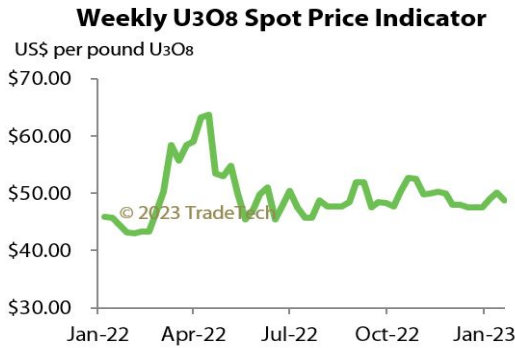
	This Week		Year-To-Date		
	Cars	vs 2022	Cumulative	Avg/wk ²	vs 2022
Total Carloads	230,545	3.3%	687,678	229,226	3.0%
Chemicals	31,038	-8.5%	90,187	30,062	-11.9%
Coal	68,675	3.7%	202,009	67,336	6.6%
Farm Products excl. Grain, and Food	16,979	7.3%	49,491	16,497	4.0%
Forest Products	9,065	-8.1%	26,883	8,961	-8.9%
Grain	22,015	-5.4%	72,112	24,037	3.5%
Metallic Ores and Metals	19,583	-2.5%	63,094	21,031	2.1%
Motor Vehicles and Parts	13,166	21.4%	39,480	13,160	16.0%
Nonmetallic Minerals	31,264	23.2%	88,034	29,345	12.4%
Petroleum and Petroleum Products	10,586	10.3%	31,618	10,539	11.8%
Other	8,174	-0.2%	24,770	8,257	-6.9%
Total Intermodal Units	236,940	-6.7%	682,296	227,432	-8.4%
Total Traffic	467,485	-2.1%	1,369,974	456,658	-3.0%

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.

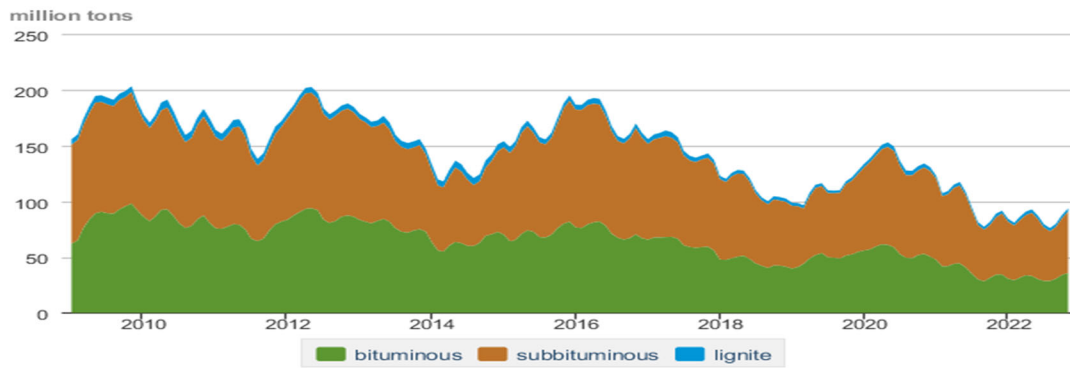
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

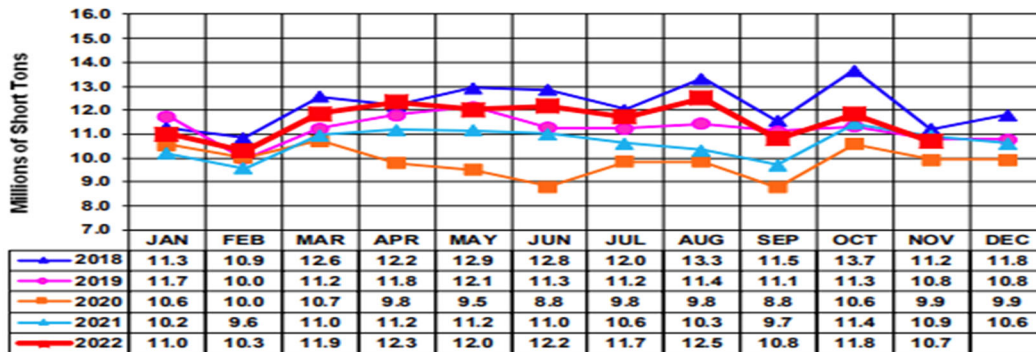
Coal stocks by type, January 2009 - November 2022



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.

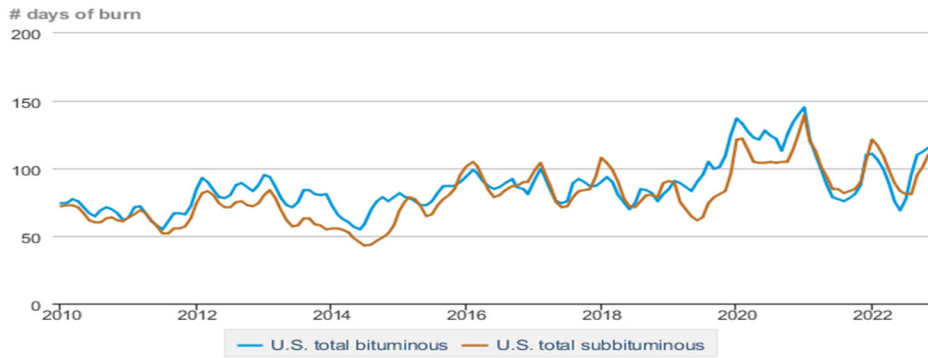
Source: Waterborne Commerce Statistics Center

Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	12/23/22	12/30/22	01/06/23	01/13/23	01/20/23	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$205.55	\$205.55	\$138.00	\$138.00	\$142.25	\$4.25
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$209.70	\$209.70	\$115.00	\$115.00	\$117.75	\$2.75
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$168.25	\$168.25	\$116.00	\$116.00	\$140.00	\$24.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$15.55	\$15.55	\$15.50	\$15.50	\$15.45	\$-0.05
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$41.20	\$41.20	\$37.85	\$37.85	\$37.70	\$-0.15

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



 Data source: U.S. Energy Information Administration

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

Temperature – heating & cooling degree days (week ending Jan 12)

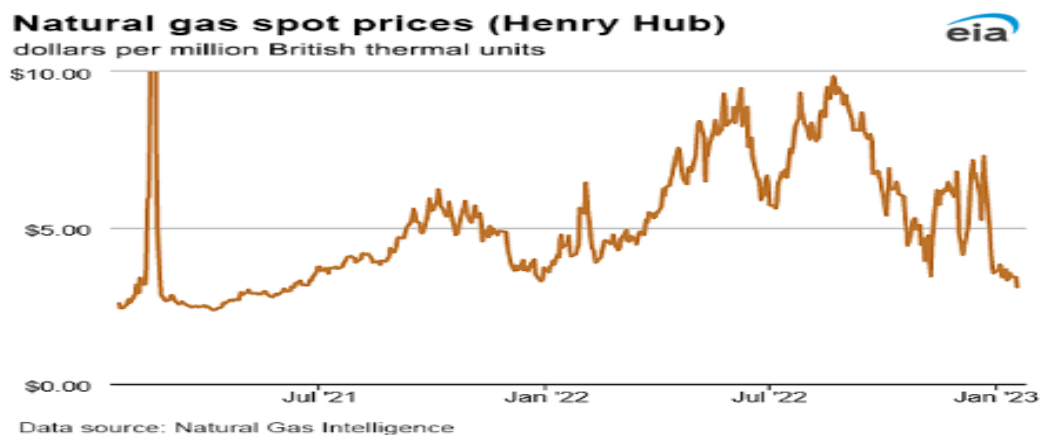
Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	224	-48	-56	0	0	0
Middle Atlantic	201	-59	-73	0	0	0
E N Central	222	-74	-85	0	0	0
W N Central	263	-55	-61	0	0	0
South Atlantic	146	-36	-36	4	-4	-6
E S Central	127	-63	-63	0	-2	0
W S Central	70	-72	-48	4	1	3
Mountain	203	-33	-1	0	0	0
Pacific	115	-9	19	0	0	0
United States	176	-50	-46	1	-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*

EIA Working Natural Gas Underground Storage

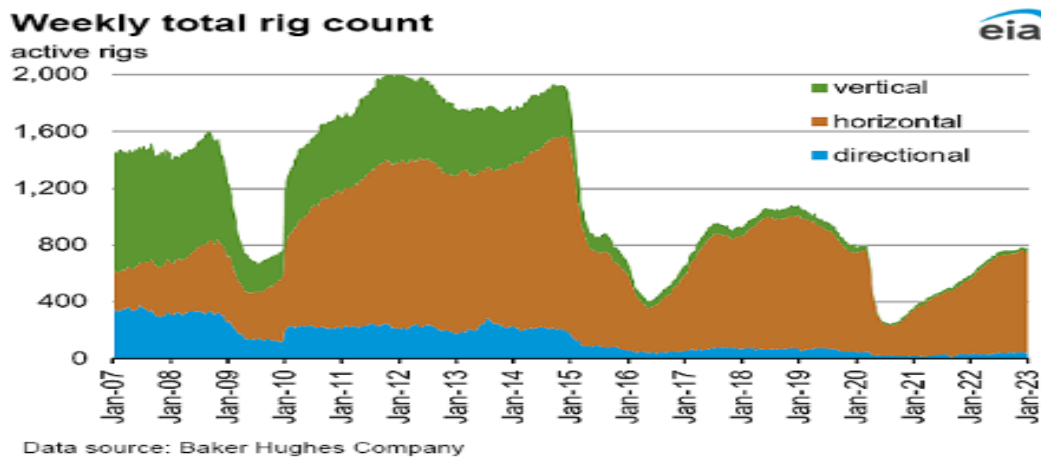
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2023-01-13	2023-01-06	change
East	662	700	-38
Midwest	785	823	-38
Mountain	147	153	-6
Pacific	157	160	-3
South Central	1,069	1,067	2
Total	2,820	2,902	-82

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

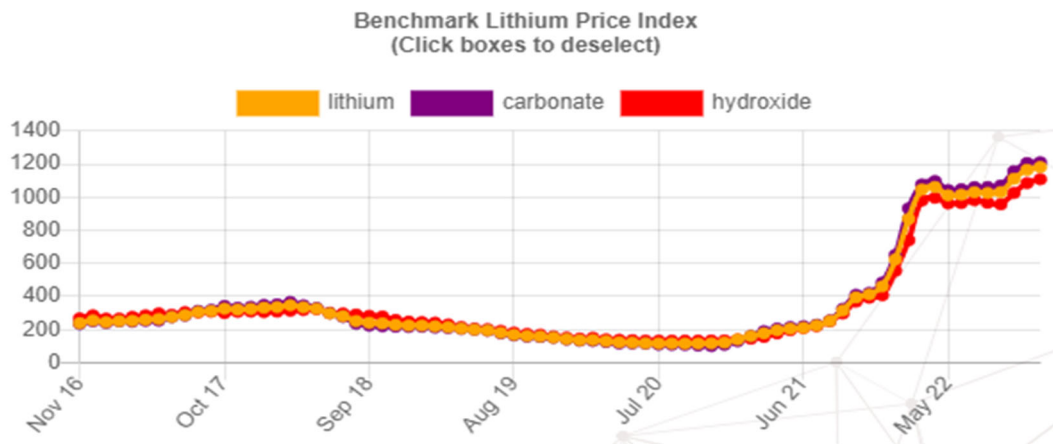
Cobalt and Lithium Prices

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/>