



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

December 30, 2022 Edition
(Data for Week Ending December 24, 2022)

Prepared by
National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

Vol. 60, No. 52 | Dated 12/30/22

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	12/24/22	12/25/21	% Chg	12/24/22	12/24/21	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	8,722	10,134	-13.9%	588,005	567,312	3.6%
52 Weeks Ended	596,884	575,313	3.7%			
AAR Coal Rail Cars Loaded:	50,264	59,363	-15.3%	3,372,589	3,275,592	3.0%
Coal Production	Nov 22/21		% Chg	Jan - Nov 22/21		% Chg
Month Ended - November	49,481	48,825	1.3%	549,745	528,855	4.0%

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

	Oct 22/21		% Chg	Jan - Oct 22/21		% Chg
Exports:						
Metallurgical	3,783	4,375	-13.5%	38,913	37,804	2.9%
Steam Bit. *	2,839	2,841	-0.1%	31,278	32,716	-4.4%
Lignite	5	8	-37.5%	65	65	0.0%
Anthracite	<u>52</u>	<u>40</u>	30.0%	<u>386</u>	<u>275</u>	40.4%
Total	6,679	7,264	-8.1%	70,642	70,860	-0.3%
Imports:	404	525	-23.0%	5,332	4,265	25.0%

	Week Ended			Cumulative Week 1 to		
	12/24/22	12/25/21	% Chg	12/24/22	12/25/21	% Chg
EI Electric Total Output (Mil. Kwh)	89,032	76,450	16.5%	4,135,818	4,032,635	2.6%
EI Coal Region Output (Mil. Kwh)	77,287	65,216	18.5%	3,583,997	3,490,278	2.7%
AISI Raw Steel Output (000 Tons)	1,614	1,768	-8.7%	87,605	92,809	-5.6%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	12/23/22	12/16/22	% Chg	Wed.	12/21/22
Central App, 12,500 Btu, 1.2 SO ₂	\$205.55	\$199.40	3.1%	Henry Hub	6.14
Northern App, 13,000 Btu, < 3.0 SO ₂	209.70	203.45	3.1%	New York	6.29
Illinois Basin, 11,800, 5.0 SO ₂	168.20	168.25	0.0%	Chicago	17.69
Powder River Basin, 8,800 Btu 0.8 SO ₂	15.55	15.60	-0.3%	Cal.Comp.Avg.	53.59
Uinta Basin, 11,700 Btu, 0.8 SO ₂	41.20	41.35	-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		
	12/24/2022 (week 52)	12/17/2022 (week 51)	12/25/2021 (week 52)	12/24/2022	12/24/2021	% Change	12/24/2022	12/25/2021	% Change
Alabama	138	160	137	9,781	9,308	5.1	9,901	9,462	4.6
Alaska	15	18	19	949	1,023	-7.2	966	1,040	-7.1
Colorado	211	258	241	13,295	11,634	14.3	13,507	11,794	14.5
Illinois	502	589	543	36,955	36,305	1.8	37,431	36,772	1.8
Indiana	324	399	343	22,250	19,128	16.3	22,550	19,399	16.2
Kentucky total	423	513	479	28,029	25,948	8.0	28,449	26,318	8.1
Eastern (KY)	183	221	194	11,875	9,936	19.5	12,044	10,065	19.7
Western (KY)	240	292	285	16,154	16,011	0.9	16,404	16,253	0.9
Louisiana	4	6	5	297	295	0.8	302	300	0.7
Maryland	18	23	20	1,327	1,243	6.8	1,344	1,258	6.8
Mississippi	43	54	49	3,346	3,152	6.2	3,389	3,176	6.7
Missouri	1	1	s	58	44	32.1	58	46	26.1
Montana	431	534	516	28,742	28,064	2.4	29,194	28,468	2.6
New Mexico	185	220	197	11,087	9,069	22.3	11,260	9,201	22.4
North Dakota	395	478	431	26,760	26,082	2.6	27,138	26,458	2.6
Ohio	41	50	51	2,581	2,708	-4.7	2,626	2,754	-4.6
Oklahoma	s	s	s	2	s	NM	2	s	100.0
Pennsylvania total	543	658	693	38,084	41,730	-8.7	38,691	42,306	-8.5
Anthracite (PA)	41	49	43	2,480	2,068	19.9	2,518	2,102	19.8
Bituminous (PA)	502	609	650	35,604	39,661	-10.2	36,174	40,205	-10.0
Tennessee	.	.	.	s	.	100.0	s	.	.
Texas	270	331	335	16,951	16,916	0.2	17,245	17,198	0.3
Utah	169	208	213	11,272	12,221	-7.8	11,459	12,407	-7.6
Virginia	156	193	189	10,628	10,713	-0.8	10,794	10,869	-0.7
West Virginia total	1,220	1,468	1,383	82,099	77,239	6.3	83,311	78,278	6.4
Northern (WV)	697	839	805	46,257	43,656	6.0	46,962	44,273	6.1
Southern (WV)	523	628	578	35,843	33,583	6.7	36,349	34,005	6.9
Wyoming	3,633	4,527	4,289	243,510	234,490	3.8	247,268	237,809	4.0
Appalachian total	2,298	2,771	2,667	156,376	152,877	2.3	158,713	154,993	2.4
Interior total	1,384	1,671	1,561	96,013	91,851	4.5	97,380	93,144	4.5
Western total	5,039	6,243	5,906	335,616	322,584	4.0	340,791	327,176	4.2
East of Mississippi River	3,407	4,105	3,888	235,081	227,473	3.3	238,487	230,592	3.4
West of Mississippi River	5,314	6,580	6,246	352,924	339,839	3.9	358,397	344,720	4.0
Bituminous and lignite	8,681	10,637	10,091	585,524	565,244	3.6	594,367	573,211	3.7
Anthracite	41	49	43	2,480	2,068	19.9	2,518	2,102	19.8
U.S. total	8,722	10,685	10,134	588,005	567,312	3.6	596,884	575,313	3.7
Railroad cars loaded	50,264	61,577	59,363	3,372,589	3,275,592	3.0	3,424,608	3,323,536	3.0

Source: Energy Information Administration



Weekly Electric Output

Volume 90 No. 52

OUTPUT FOR WEEK ENDED - Dec 24, 2022

Dec 29, 2022

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Dec 24, 2022** was **89,032** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **211** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended December 24		52 Weeks Ended December 24	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	2,381	-1.0	115,713	-0.2
Mid-Atlantic	8,749	7.9	418,592	0.1
Central Industrial	14,309	17.3	656,282	0.8
West Central	7,327	14.6	341,932	2.0
Southeast	23,152	21.4	1,031,420	1.6
South Central	17,744	28.1	839,357	7.9
Rocky Mountain	6,006	7.3	296,414	1.2
Pacific Northwest	4,300	14.7	162,350	2.6
Pacific Southwest	5,064	-0.4	273,758	2.0
Total United States	89,032	16.5	4,135,818	2.6

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2022	Week Ended	2021	% Inc. (22/21)	52 Weeks Ended	2022	% Inc. (22/21)
Dec 03	75,205	Dec 04	73,744	2.0	Dec 03	4,121,681	2.1
Dec 10	75,015	Dec 11	76,144	-1.5	Dec 10	4,120,553	2.1
Dec 17	78,653	Dec 18	75,970	3.5	Dec 17	4,123,236	2.2
Dec 24	89,032	Dec 25	76,450	16.5	Dec 24	4,135,818	2.6
Dec 24	4,135,818	Dec 25	4,032,635	2.6	YEAR TO DATE, FIRST 52 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2022	Week Ended	2021	Week Ended	2020
Dec 03	175	Dec 04	171	Dec 05	172
Dec 10	169	Dec 11	171	Dec 12	165
Dec 17	179	Dec 18	172	Dec 19	176
Dec 24	211	Dec 25	182	Dec 26	177

* 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		
	24-Dec 2022 GWh Output	25-Dec 2021 GWh Output	% Increase Over Corresponding Week	24-Dec 2022 GWh Output	25-Dec 2021 GWh Output	% Increase Over Corresponding Week	24-Dec 2022 GWh Output	25-Dec 2021 GWh Output	% Increase Over Corresponding Week
New England	2,381	2,404	-1.0%	115,713	115,932	-0.2%	115,713	115,930	-0.2%
Mid-Atlantic	8,749	8,107	7.9%	418,592	418,298	0.1%	418,592	418,296	0.1%
Central Industrial	14,309	12,194	17.3%	656,282	651,042	0.8%	656,282	651,041	0.8%
West Central	7,327	6,394	14.6%	341,932	335,137	2.0%	341,932	335,136	2.0%
Southeast	23,152	19,076	21.4%	1,031,420	1,014,836	1.6%	1,031,420	1,014,838	1.6%
South Central	17,744	13,848	28.1%	839,357	778,017	7.9%	839,357	778,018	7.9%
Rocky Mountain	6,006	5,597	7.3%	296,414	292,948	1.2%	296,414	292,947	1.2%
Pacific Northwest	4,300	3,747	14.8%	162,350	158,173	2.6%	162,350	158,170	2.6%
Pacific Southwest	5,064	5,083	-0.4%	273,758	268,258	2.1%	273,758	268,259	2.0%
Total United States ^{1/}	89,032	76,450	16.5%	4,135,818	4,032,641	2.6%	4,135,818	4,032,635	2.6%
Coal Regions Only ^{2/}	77,287	65,216	18.5%	3,583,997	3,490,278	2.7%	3,583,997	3,490,276	2.7%

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.

^{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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December 27, 2022

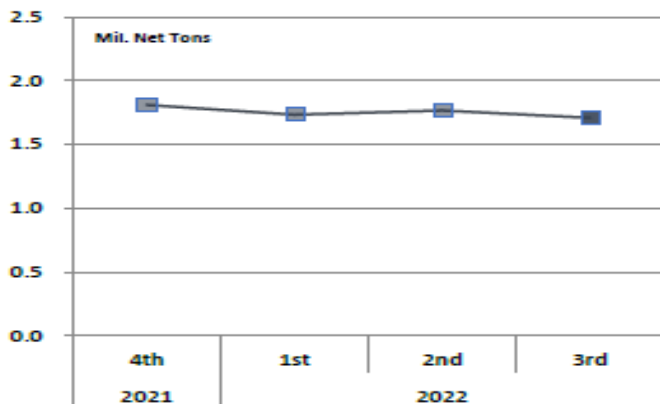
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<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 Dec 24</u>	<u>Week Ending Dec 17</u>	
<u>Week Ending</u>				North East	119	121
				Great Lakes	557	559
December 24, 2022	1,614	-0.8	72.3	Midwest	197	200
December 24, 2021	1,768	-8.7	80.1	Southern	670	674
December 17, 2022	1,627	-0.5	72.9	Western	71	73
				Total	1,614	1,627
<u>Year-to-Date +</u>						
December 24, 2022	87,605	-5.6	78.0			
December 24, 2021	92,809	-	81.2			

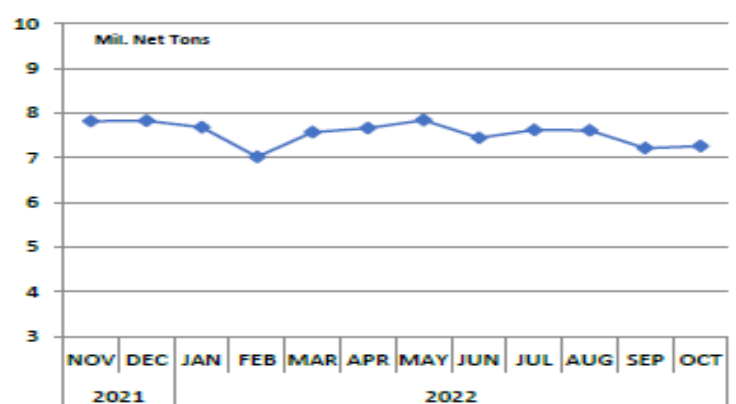
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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

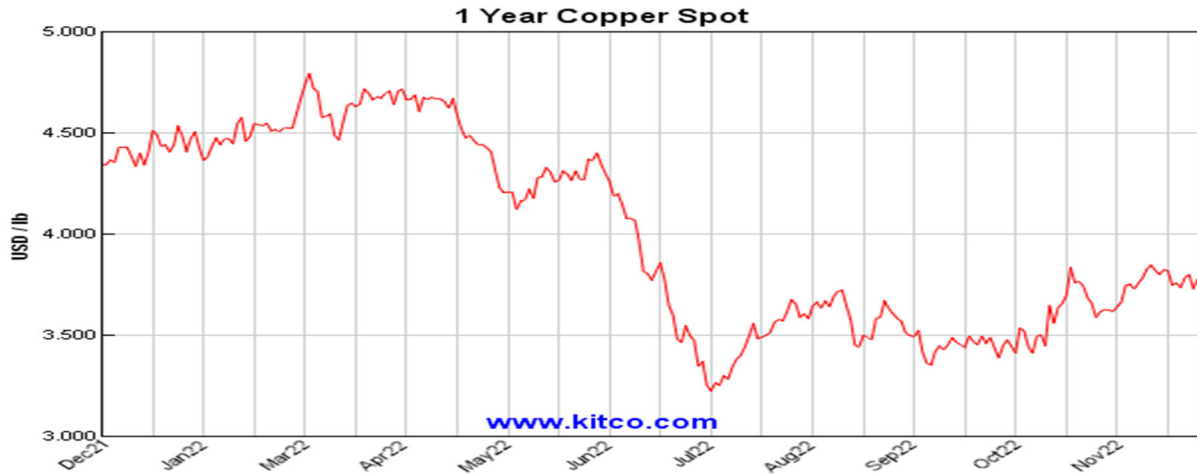
Average Weekly Raw Steel Production



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 51, 2022 – Ended December 24, 2022

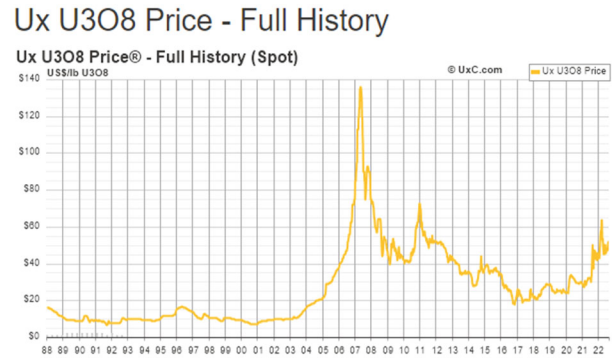
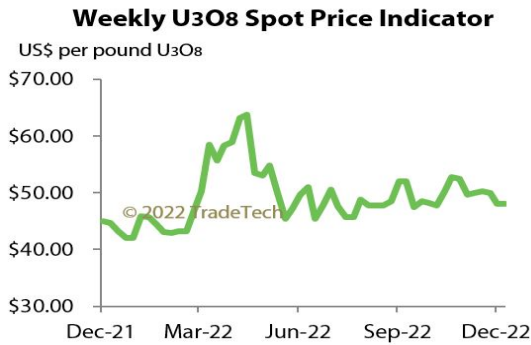
	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk ²	vs 2021
Total Carloads	193,195	-4.1%	11,796,291	231,300	-0.1%
Chemicals	29,505	-3.5%	1,668,815	32,722	0.4%
Coal	50,264	-15.6%	3,365,345	65,987	3.0%
Farm Products excl. Grain, and Food	14,801	-1.4%	833,501	16,343	3.1%
Forest Products	8,443	-9.1%	489,797	9,604	-3.9%
Grain	18,198	-5.2%	1,138,690	22,327	-4.1%
Metallic Ores and Metals	19,558	2.7%	1,068,584	20,953	-6.4%
Motor Vehicles and Parts	11,349	15.1%	682,826	13,389	3.8%
Nonmetallic Minerals	23,735	3.8%	1,598,804	31,349	4.0%
Petroleum and Petroleum Products	9,599	10.2%	492,493	9,657	-7.5%
Other	7,743	3.8%	457,436	8,969	-8.3%
Total Intermodal Units	207,094	-5.5%	13,266,919	260,136	-4.9%
Total Traffic	400,289	-4.8%	25,063,210	491,435	-2.7%

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.

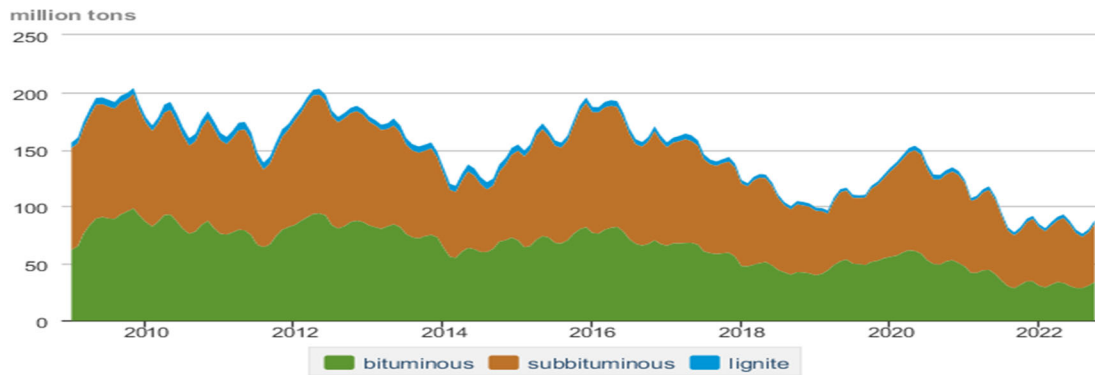
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

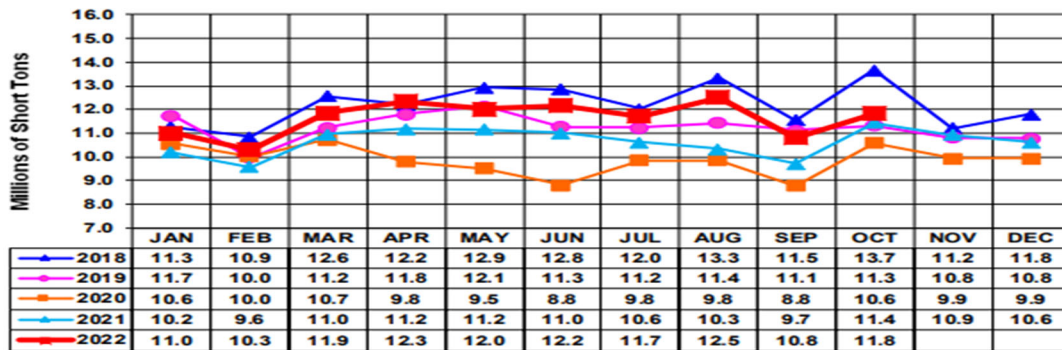
Coal stocks by type, January 2009 - October 2022



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

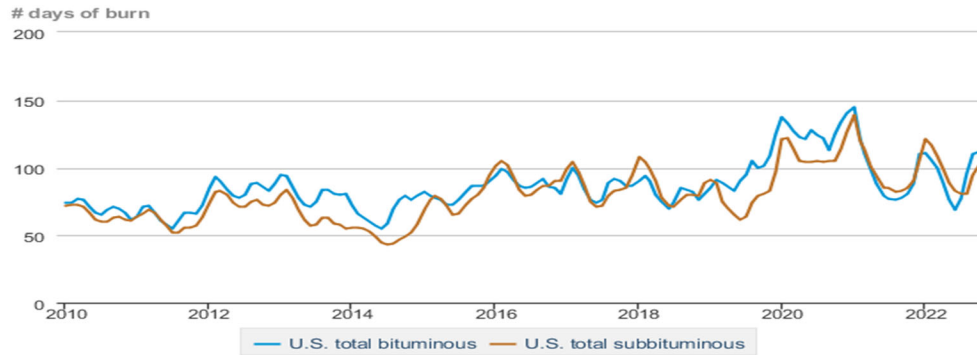
Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	11/25/22	12/02/22	12/09/22	12/16/22	12/23/22	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$187.70	\$193.45	\$199.40	\$199.40	\$205.55	\$6.15
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$191.50	\$197.40	\$203.45	\$203.45	\$209.70	\$6.25
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$186.50	\$168.25	\$168.25	\$168.25	\$168.25	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$17.10	\$15.85	\$15.60	\$15.60	\$15.55	-\$0.05
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$41.65	\$41.50	\$41.35	\$41.35	\$41.20	-\$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 - 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 Dec 15)

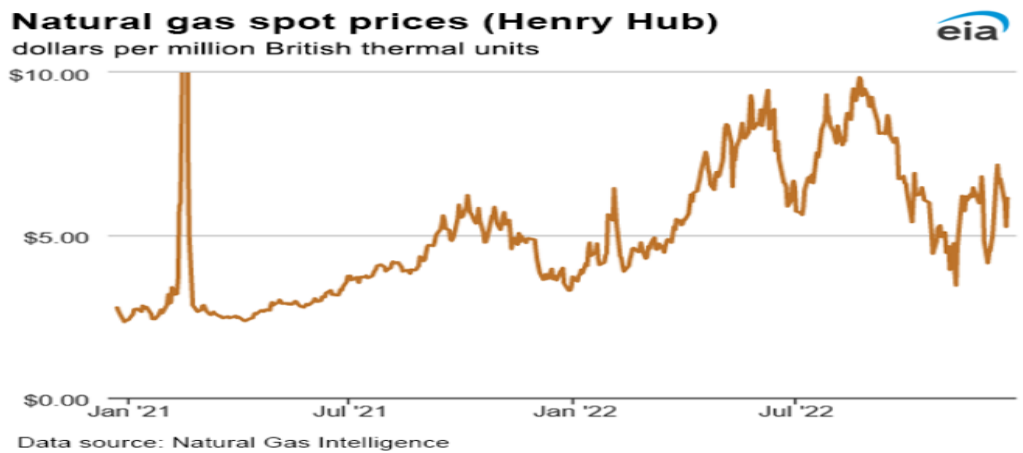
Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	241	13	57	0	0	0
Middle Atlantic	231	13	67	0	0	0
E N Central	203	-46	39	0	0	0
W N Central	224	-51	42	0	0	0
South Atlantic	135	-18	12	10	2	-4
E S Central	93	-64	-10	0	-1	-1
W S Central	60	-57	9	13	11	-5
Mountain	236	12	38	0	0	0
Pacific	153	34	8	0	0	0
United States	178	-16	31	3	2	-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	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)		
	2022-12-16	2022-12-09	change
East	789	822	-33
Midwest	974	1,002	-28
Mountain	178	186	-8
Pacific	186	203	-17
South Central	1,199	1,199	0
Total	3,325	3,412	-87

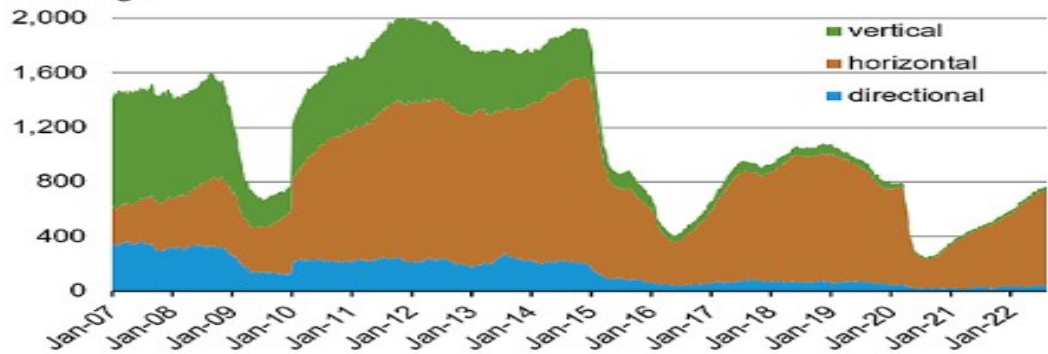
Data source: U.S. Energy Information Administration Form EIA-912, *Weekly Underground Natural Gas Storage Report*

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

EIA Natural Gas Rig Count

Weekly total rig count

active rigs



Data source: Baker Hughes Company

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		
	December 2022	January 2023	change	December 2022	January 2023	change
Anadarko	697	698	1	3,857	3,903	46
Appalachia	191	191	-	25,981	25,591	(390)
Bakken	1,710	1,720	10	2,547	2,568	21
Eagle Ford	1,522	1,507	(15)	6,041	5,969	(72)
Haynesville	19	19	-	10,760	10,738	(22)
Niobrara	1,388	1,381	(7)	3,492	3,440	(52)
Permian	1,060	1,059	(1)	2,089	2,066	(23)
Rig-weighted average	956	958	2	5,542	5,441	(101)

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

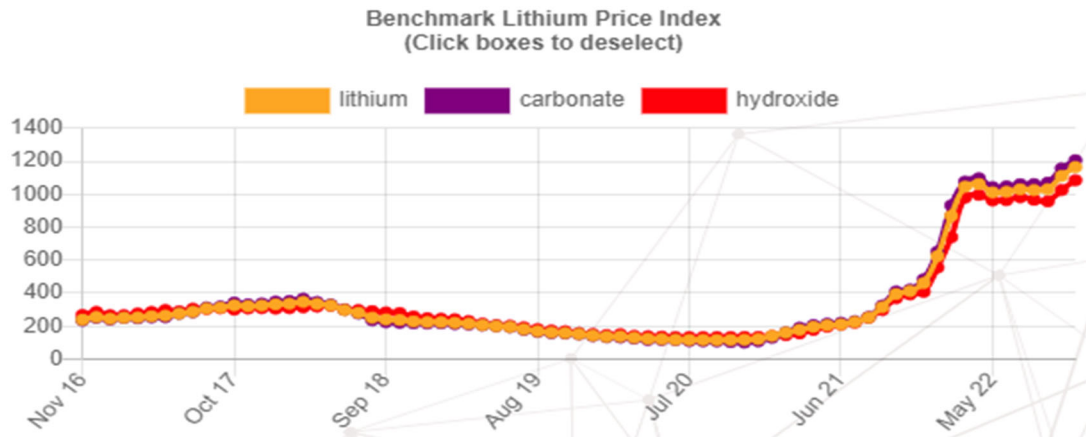
Cobalt and Lithium Prices

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/>