



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

December 23, 2022 Edition
(Data for Week Ending December 17, 2022)

Prepared by
National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

Vol. 60, No. 51 | Dated 12/23/22

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	12/17/22	12/18/21	% Chg	12/17/22	12/17/21	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	10,685	11,198	-4.6%	579,283	556,962	4.0%
52 Weeks Ended	598,297	573,612	4.3%			
AAR Coal Rail Cars Loaded:	61,577	65,021	-5.3%	3,322,325	3,215,032	3.3%
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		
	12/17/22	12/18/21	% Chg	12/17/22	12/18/21	% Chg
EI Electric Total Output (Mil. Kwh)	78,653	75,970	3.5%	4,046,786	3,956,185	2.3%
EI Coal Region Output (Mil. Kwh)	67,150	64,675	3.8%	3,506,713	3,425,062	2.4%
AISI Raw Steel Output (000 Tons)	1,627	1,768	-8.0%	85,991	91,041	-5.5%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	12/16/22	12/09/22	% Chg	Wed.	12/14/22
Central App, 12,500 Btu, 1.2 SO ₂	\$199.40	\$199.40	0.0%	Henry Hub	6.60
Northern App, 13,000 Btu, < 3.0 SO ₂	203.45	203.45	0.0%	New York	8.28
Illinois Basin, 11,800, 5.0 SO ₂	168.25	168.25	0.0%	Chicago	5.21
Powder River Basin, 8,800 Btu 0.8 SO ₂	15.60	15.60	0.0%	Cal.Comp.Avg.	23.86
Uinta Basin, 11,700 Btu, 0.8 SO ₂	41.35	41.35	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		
	12/17/2022 (week 51)	12/10/2022 (week 50)	12/18/2021 (week 51)	12/17/2022	12/17/2021	% Change	12/17/2022	12/18/2021	% Change
Alabama	160	198	151	9,643	9,168	5.2	9,899	9,497	4.2
Alaska	18	21	21	935	1,004	-6.9	970	1,038	-6.6
Colorado	258	309	267	13,084	11,387	14.9	13,537	11,716	15.5
Illinois	589	716	600	36,453	35,751	2.0	37,472	36,727	2.0
Indiana	399	466	379	21,925	18,777	16.8	22,570	19,343	16.7
Kentucky total	513	605	529	27,606	25,458	8.4	28,505	26,228	8.7
Eastern (KY)	221	262	214	11,692	9,738	20.1	12,055	10,002	20.5
Western (KY)	292	344	315	15,914	15,720	1.2	16,449	16,225	1.4
Louisiana	6	6	6	293	290	1.2	303	300	1.0
Maryland	23	26	23	1,308	1,222	7.1	1,347	1,255	7.3
Mississippi	54	63	54	3,303	3,102	6.5	3,395	3,149	7.8
Missouri	1	1	1	57	43	32.1	58	48	20.8
Montana	534	628	570	28,311	27,537	2.8	29,279	28,377	3.2
New Mexico	220	262	217	10,902	8,868	22.9	11,271	9,140	23.3
North Dakota	478	571	476	26,365	25,642	2.8	27,174	26,429	2.8
Ohio	50	59	57	2,540	2,655	-4.3	2,637	2,752	-4.2
Oklahoma	s	s	s	2	s	NM	2	s	100.0
Pennsylvania total	658	777	766	37,541	41,022	-8.5	38,842	42,226	-8.0
Anthracite (PA)	49	58	47	2,439	2,025	20.5	2,520	2,094	20.3
Bituminous (PA)	609	719	719	35,102	38,997	-10.0	36,322	40,132	-9.5
Tennessee	.	.	.	s	.	100.0	s	.	.
Texas	331	395	370	16,681	16,574	0.6	17,310	17,164	0.9
Utah	208	244	235	11,103	12,004	-7.5	11,502	12,393	-7.2
Virginia	193	227	209	10,473	10,520	-0.5	10,827	10,846	-0.2
West Virginia total	1,468	1,746	1,528	80,880	75,827	6.7	83,474	77,980	7.0
Northern (WV)	839	996	890	45,560	42,834	6.4	47,071	44,115	6.7
Southern (WV)	628	750	638	35,320	32,993	7.1	36,403	33,865	7.5
Wyoming	4,527	5,269	4,740	239,877	230,109	4.2	247,925	237,005	4.6
Appalachian total	2,771	3,294	2,948	154,077	150,152	2.6	159,082	154,558	2.9
Interior total	1,671	1,991	1,725	94,629	90,257	4.8	97,557	92,956	4.9
Western total	6,243	7,304	6,526	330,577	316,552	4.4	341,657	326,098	4.8
East of Mississippi River	4,105	4,883	4,296	231,673	223,502	3.7	238,968	230,002	3.9
West of Mississippi River	6,580	7,706	6,902	347,610	333,459	4.2	359,329	343,610	4.6
Bituminous and lignite	10,637	12,531	11,151	576,844	554,937	3.9	595,777	571,518	4.2
Anthracite	49	58	47	2,439	2,025	20.5	2,520	2,094	20.3
U.S. total	10,685	12,589	11,198	579,283	556,962	4.0	598,297	573,612	4.3
Railroad cars loaded	61,577	72,541	65,021	3,322,325	3,215,032	3.3	3,433,707	3,314,915	3.6

Source: Energy Information Administration



Weekly Electric Output

Volume 90 No. 51

OUTPUT FOR WEEK ENDED - Dec 17, 2022

Dec 21, 2022

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Dec 17, 2022** was **78,653** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **179** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended December 17		52 Weeks Ended December 17	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	2,419	9.6	115,736	-0.1
Mid-Atlantic	8,239	8.3	417,950	-0.1
Central Industrial	12,627	3.7	654,167	0.5
West Central	6,584	4.6	340,999	1.8
Southeast	19,281	2.0	1,027,344	1.1
South Central	14,532	3.1	835,461	7.4
Rocky Mountain	5,887	5.0	296,005	1.1
Pacific Northwest	3,880	2.2	161,797	2.4
Pacific Southwest	5,204	-1.7	273,778	2.2
Total United States	78,653	3.5	4,123,236	2.2

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2022	Week Ended	2021	% Inc. (22/21)	52 Weeks Ended	2022	% Inc. (22/21)
Nov 26	72,870	Nov 27	72,312	0.8	Nov 26	4,120,220	2.0
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 17	4,046,786	Dec 18	3,956,185	2.3	YEAR TO DATE, FIRST 51 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2022	Week Ended	2021	Week Ended	2020
Nov 26	176	Nov 27	172	Nov 28	170
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

* 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		
	17-Dec 2022 GWh Output	18-Dec 2021 GWh Output	% Increase Over Corresponding Week	17-Dec 2022 GWh Output	18-Dec 2021 GWh Output	% Increase Over Corresponding Week	17-Dec 2022 GWh Output	18-Dec 2021 GWh Output	% Increase Over Corresponding Week
New England	2,419	2,207	9.6%	113,333	113,528	-0.2%	115,736	115,834	-0.1%
Mid-Atlantic	8,239	7,609	8.3%	409,842	410,191	-0.1%	417,950	418,281	-0.1%
Central Industrial	12,627	12,177	3.7%	641,975	638,848	0.5%	654,167	651,192	0.5%
West Central	6,584	6,294	4.6%	334,603	328,743	1.8%	340,999	335,000	1.8%
Southeast	19,281	18,895	2.0%	1,008,267	995,760	1.3%	1,027,344	1,015,682	1.1%
South Central	14,532	14,093	3.1%	821,617	764,169	7.5%	835,461	777,793	7.4%
Rocky Mountain	5,887	5,607	5.0%	290,409	287,351	1.1%	296,005	292,901	1.1%
Pacific Northwest	3,880	3,795	2.2%	158,047	154,426	2.3%	161,797	157,946	2.4%
Pacific Southwest	5,204	5,293	-1.7%	268,692	263,175	2.1%	273,778	267,904	2.2%
Total United States ^{1/}	78,653	75,970	3.5%	4,046,785	3,956,191	2.3%	4,123,237	4,032,533	2.2%
Coal Regions Only ^{2/}	67,150	64,675	3.8%	3,506,713	3,425,062	2.4%	3,571,926	3,490,849	2.3%

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*.

AMERICAN IRON AND STEEL INSTITUTE
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December 19, 2022

ESTIMATED WEEKLY RAW STEEL * PRODUCTION

Period	Thousand Net Tons	Percent Change from Previous Period	Percent Capability Utilization**	Production by District		
				Week Ending		
				Dec 17	Dec 10	
<u>Week Ending</u>				North East	121	126
				Great Lakes	559	545
December 17, 2022	1,627	-0.5	72.9	Midwest	200	191
December 17, 2021	1,768	-8.0	80.1	Southern	674	703
December 10, 2022	1,635	0.3	73.3	Western	73	70
				Total	1,627	1,635

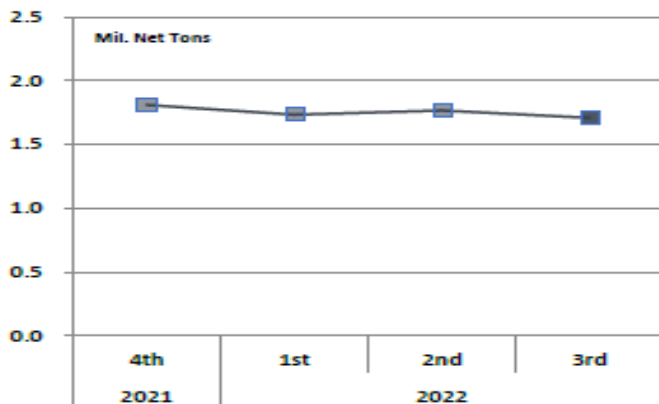
Year-to-Date +

December 17, 2022	85,991	-5.5	78.1
December 17, 2021	91,041	-	81.2

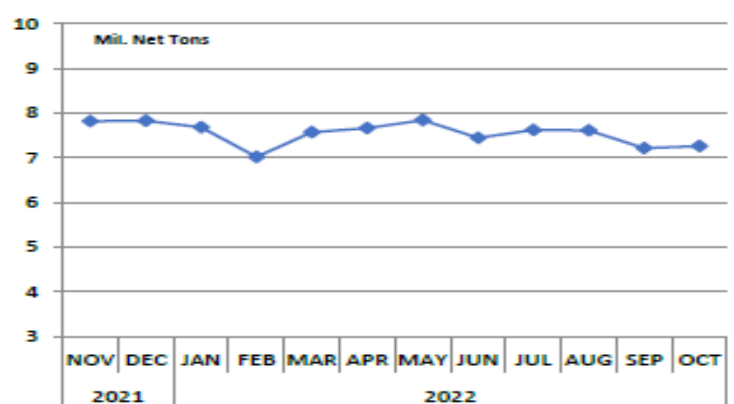
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides 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 50, 2022 – Ended December 17, 2022

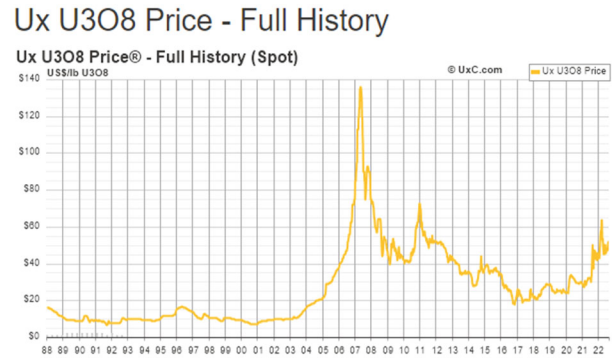
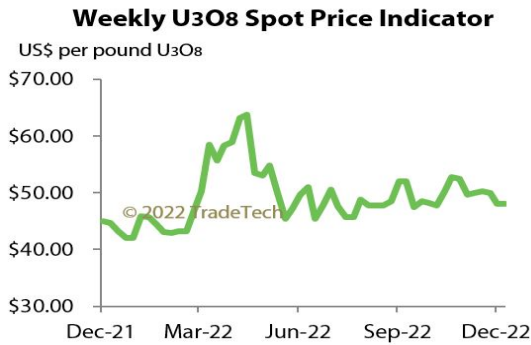
	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk ²	vs 2021
Total Carloads	226,977	-3.2%	11,603,096	232,062	0.0%
Chemicals	31,342	-8.1%	1,639,310	32,786	0.5%
Coal	61,577	-5.1%	3,315,081	66,302	3.3%
Farm Products excl. Grain, and Food	16,719	3.7%	818,700	16,374	3.1%
Forest Products	8,973	-9.4%	481,354	9,627	-3.8%
Grain	22,860	-5.0%	1,120,492	22,410	-4.1%
Metallic Ores and Metals	21,772	-0.5%	1,049,026	20,981	-6.6%
Motor Vehicles and Parts	15,251	22.3%	671,477	13,430	3.6%
Nonmetallic Minerals	29,389	-2.3%	1,575,069	31,501	4.0%
Petroleum and Petroleum Products	10,582	1.7%	482,894	9,658	-7.8%
Other	8,512	-18.6%	449,693	8,994	-8.4%
Total Intermodal Units	249,255	-7.5%	13,059,825	261,197	-4.9%
Total Traffic	476,232	-5.5%	24,662,921	493,258	-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.

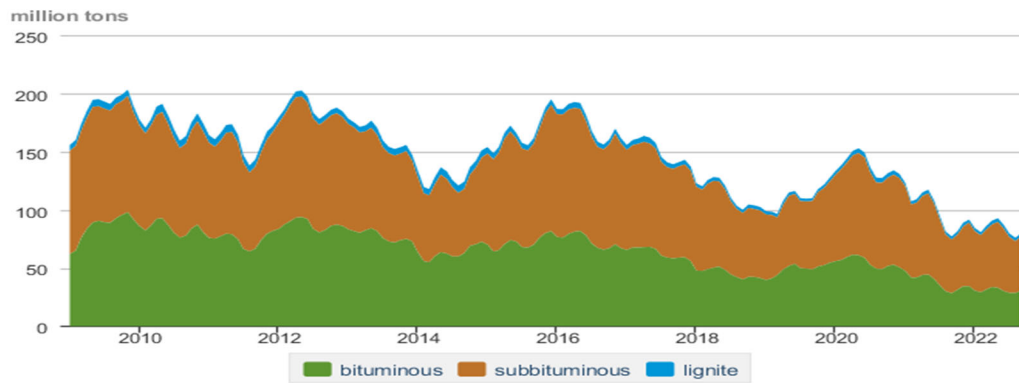
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

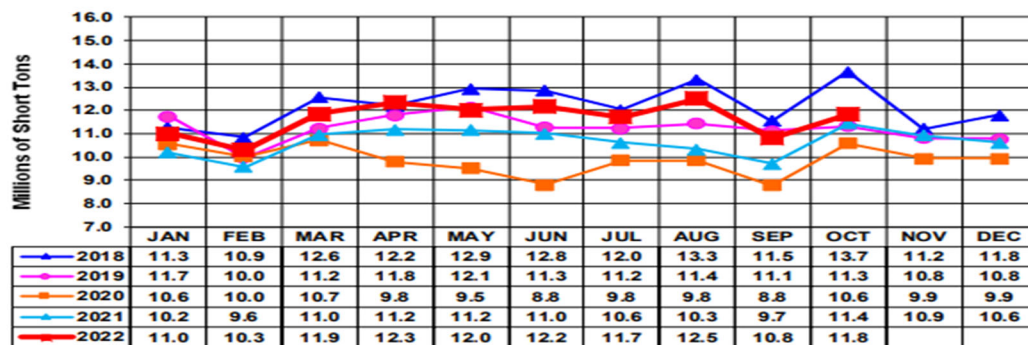
Coal stocks by type, January 2009 - September 2022



Source: U.S. Energy Information Administration

Source: Energy Information Administration, Electric Monthly Update

Coal and Coke Monthly Indicator for Internal U.S. Waterways



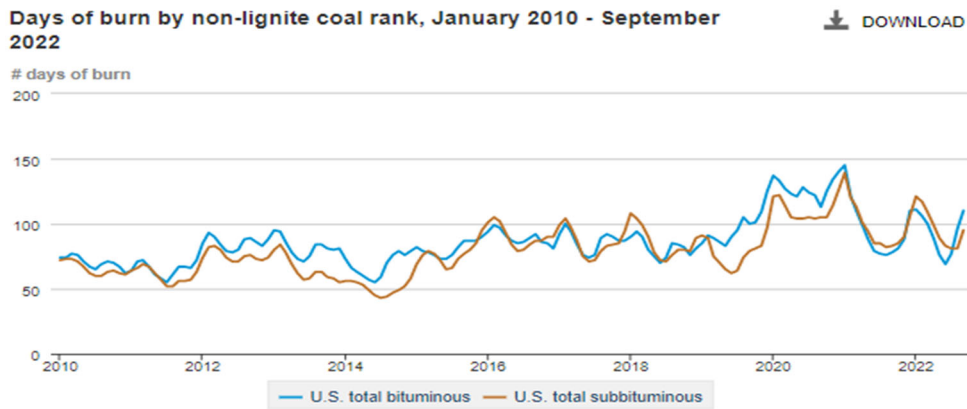
For the Internal U.S. Waterway Monthly Indicators, estimates for the most recent month are based on lock performance management data. The estimates will be superseded by actual data as it becomes available.

Source: Waterborne Commerce Statistics Center

Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	11/18/22	11/25/22	12/02/22	12/09/22	12/16/22	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$187.70	\$187.70	\$193.45	\$199.40	\$199.40	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$191.50	\$191.50	\$197.40	\$203.45	\$203.45	\$0.00
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$186.50	\$186.50	\$168.25	\$168.25	\$168.25	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$17.10	\$17.10	\$15.85	\$15.60	\$15.60	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$41.65	\$41.65	\$41.50	\$41.35	\$41.35	\$0.00

Source: Energy Information Administration (with permission from S&P Global), *Coal Market Report*



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

Temperature – heating & cooling degree days (week ending Dec 08)

Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	173	-38	-17	0	0	0
Middle Atlantic	171	-30	-4	0	0	0
E N Central	213	-17	6	0	0	0
W N Central	259	2	51	0	0	0
South Atlantic	116	-25	14	12	3	3
E S Central	95	-49	3	4	3	3
W S Central	53	-53	3	16	13	1
Mountain	205	-9	52	0	0	-1
Pacific	137	24	47	0	-1	0
United States	164	-16	19	4	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	September 2022		September 2021		% Change of Stocks	August 2022		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	1,925	365	1,879	285	2.4%	1,555	365	23.8%
	Subbituminous								
South	Bituminous	12,480	108	10,671	81	17.0%	11,197	88	11.5%
	Subbituminous	3,584	63	2,824	44	26.9%	3,310	47	8.3%
Midwest	Bituminous	7,247	87	5,670	56	27.8%	6,528	76	11.0%
	Subbituminous	17,096	111	18,426	103	-7.2%	14,452	96	18.3%
West	Bituminous	3,029	163	1,916	96	58.1%	3,186	165	-4.9%
	Subbituminous	14,939	90	15,287	75	-2.3%	14,614	79	2.2%
U.S. Total	Bituminous	24,681	110	20,136	78	22.6%	22,465	96	9.9%
	Subbituminous	35,619	95	36,537	83	-2.5%	32,375	81	10.0%

Source: Energy Information Administration, *Electricity Monthly Update*

EIA Working Natural Gas Underground Storage

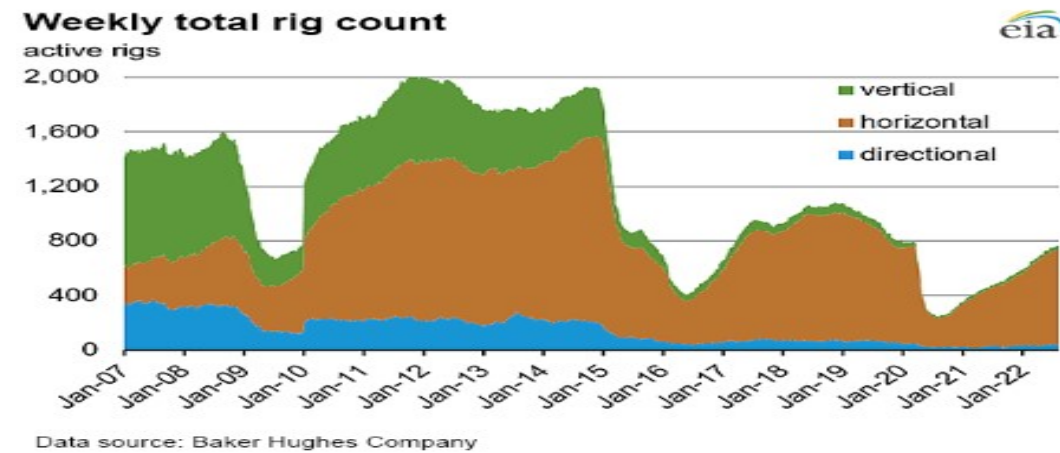
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2022-12-09	2022-12-02	change
East	822	834	-12
Midwest	1,002	1,028	-26
Mountain	186	193	-7
Pacific	203	217	-14
South Central	1,199	1,191	8
Total	3,412	3,462	-50

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					
	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 - March 2022	Mar-22	Year to Date
U.S. Imports for Consumption - Metals (mt)	648	1,840
U.S. Exports of Cobalt Materials - Cobalt Content (mt)	597	1,340
Reported Stocks of Cobalt Metal (mt)	U.S. Govt	LME
	302	248
Listed Prices by Type (\$/lb): US Spot & LME Cash Avg.	38.17	36.47

Source: USGS, Mineral Industry Survey, Cobalt in March 2022, May 2022

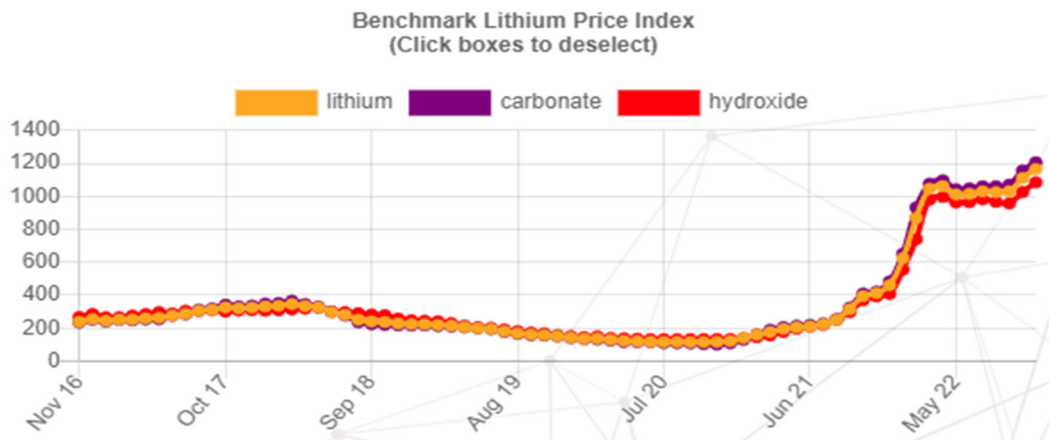
Cobalt and Lithium Prices

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/>