



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

December 9, 2022 Edition
(Data for Week Ending December 3, 2022)

Prepared by
National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

Vol. 60, No. 49 | Dated 12/09/22

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	12/03/22	12/04/21	% Chg	12/03/22	12/03/21	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	11,995	11,838	1.3%	556,009	534,182	4.1%
52 Weeks Ended	597,719	572,402	4.4%			
AAR Coal Rail Cars Loaded:	69,107	68,736	0.5%	3,188,207	3,082,767	3.4%
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		
	12/03/22	12/04/21	% Chg	12/03/22	12/04/21	% Chg
EEl Electric Total Output (Mil. Kwh)	75,205	73,744	2.0%	3,893,117	3,804,071	2.3%
EEl Coal Region Output (Mil. Kwh)	64,306	63,550	1.2%	3,375,637	3,295,194	2.4%
AISI Raw Steel Output (000 Tons)	1,630	1,801	-9.5%	82,729	87,505	-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)	
	12/02/22	11/25/22	% Chg	Wed.	11/30/22
Central App, 12,500 Btu, 1.2 SO ₂	\$193.45	\$187.70	3.1%	Henry Hub	6.80
Northern App, 13,000 Btu, < 3.0 SO ₂	197.40	191.50	3.1%	New York	6.73
Illinois Basin, 11,800, 5.0 SO ₂	168.25	186.50	-9.8%	Chicago	5.92
Powder River Basin, 8,800 Btu 0.8 SO ₂	15.85	17.10	-7.3%	Cal.Comp.Avg.	7.02
Uinta Basin, 11,700 Btu, 0.8 SO ₂	41.50	41.65	-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		
	12/3/2022 (week 49)	11/26/2022 (week 48)	12/4/2021 (week 49)	12/3/2022	12/3/2021	% Change	12/3/2022	12/4/2021	% Change
Alabama	174	141	160	9,286	8,861	4.8	9,849	9,629	2.3
Alaska	20	17	22	896	962	-6.8	974	1,039	-6.3
Colorado	276	275	282	12,517	10,845	15.4	13,510	11,591	16.6
Illinois	654	567	634	35,148	34,531	1.8	37,383	36,782	1.6
Indiana	455	386	401	21,061	18,005	17.0	22,474	19,304	16.4
Kentucky total	584	510	559	26,488	24,382	8.6	28,459	26,145	8.9
Eastern (KY)	251	225	226	11,210	9,303	20.5	12,007	9,902	21.3
Western (KY)	333	285	333	15,278	15,079	1.3	16,452	16,243	1.3
Louisiana	6	6	6	281	278	1.1	302	302	s
Maryland	26	23	24	1,259	1,176	7.1	1,344	1,251	7.4
Mississippi	61	59	57	3,186	2,993	6.5	3,387	3,096	9.4
Missouri	1	s	1	56	42	31.9	58	53	9.4
Montana	588	547	603	27,149	26,377	2.9	29,273	28,303	3.4
New Mexico	255	212	230	10,421	8,426	23.7	11,230	9,043	24.2
North Dakota	527	468	503	25,316	24,674	2.6	27,089	26,489	2.3
Ohio	56	51	60	2,431	2,540	-4.3	2,643	2,762	-4.3
Oklahoma	s	s	s	2	s	NM	2	s	100.0
Pennsylvania total	749	655	810	36,106	39,463	-8.5	38,959	42,236	-7.8
Anthracite (PA)	56	47	50	2,333	1,928	21.0	2,509	2,087	20.2
Bituminous (PA)	693	608	760	33,773	37,535	-10.0	36,450	40,149	-9.2
Tennessee	.	.	.	s	.	100.0	s	.	.
Texas	358	337	391	15,955	15,821	0.8	17,334	17,181	0.9
Utah	237	208	249	10,651	11,525	-7.6	11,527	12,424	-7.2
Virginia	214	192	221	10,053	10,095	-0.4	10,831	10,844	-0.1
West Virginia total	1,658	1,459	1,615	77,666	72,718	6.8	83,358	77,646	7.4
Northern (WV)	954	823	941	43,725	41,023	6.6	47,040	43,959	7.0
Southern (WV)	705	636	675	33,941	31,695	7.1	36,318	33,687	7.8
Wyoming	5,097	4,605	5,010	230,081	220,468	4.4	247,734	236,279	4.8
Appalachian total	3,128	2,746	3,116	148,012	144,156	2.7	158,991	154,272	3.1
Interior total	1,867	1,640	1,823	90,967	86,749	4.9	97,391	92,961	4.8
Western total	7,000	6,332	6,899	317,030	303,277	4.5	341,337	325,170	5.0
East of Mississippi River	4,630	4,042	4,541	222,685	214,764	3.7	238,686	229,697	3.9
West of Mississippi River	7,365	6,675	7,297	333,323	319,419	4.4	359,032	342,705	4.8
Bituminous and lignite	11,939	10,670	11,788	553,676	532,254	4.0	595,210	570,315	4.4
Anthracite	56	47	50	2,333	1,928	21.0	2,509	2,087	20.2
U.S. total	11,995	10,717	11,838	556,009	534,182	4.1	597,719	572,402	4.4
Railroad cars loaded	69,107	61,740	68,736	3,188,207	3,082,767	3.4	3,431,372	3,309,019	3.7

Source: Energy Information Administration



Weekly Electric Output

Volume 90 No. 49

OUTPUT FOR WEEK ENDED - Dec 03, 2022

Dec 07, 2022

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Dec 03, 2022** was **75,205** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **175** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION
(48 CONTIGUOUS STATES)

	Week Ended December 03		52 Weeks Ended December 03	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	2,182	-5.0	115,652	-0.4
Mid-Atlantic	7,568	-3.2	417,582	-0.4
Central Industrial	12,262	-0.1	654,075	0.3
West Central	6,551	1.6	340,811	1.8
Southeast	17,686	-2.5	1,027,842	1.0
South Central	14,303	7.0	834,747	7.3
Rocky Mountain	5,936	7.9	295,661	0.9
Pacific Northwest	3,784	22.9	161,433	2.5
Pacific Southwest	4,933	2.3	273,879	2.4
Total United States	75,205	2.0	4,121,681	2.1

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2022	Week Ended	2021	% Inc. (22/21)	52 Weeks Ended	2022	% Inc. (22/21)
Nov 12	70,667	Nov 13	69,510	1.7	Nov 12	4,114,661	2.1
Nov 19	76,644	Nov 20	71,643	7.0	Nov 19	4,119,662	2.1
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 03	3,893,117	Dec 04	3,804,071	2.3	YEAR TO DATE, FIRST 49 WEEKS		

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

Week Ended	2022	Week Ended	2021	Week Ended	2020
Nov 12	171	Nov 13	166	Nov 14	174
Nov 19	188	Nov 20	174	Nov 21	177
Nov 26	176	Nov 27	172	Nov 28	170
Dec 03	175	Dec 04	171	Dec 05	172

* Excludes Alaska and Hawaii.

+ Includes investor-owned companies, cooperatives and government-owned utilities.

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**EEl WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION
(48 CONTIGUOUS STATES)**

	Week Ended			NMA CUMULATIVE JANUARY WEEK ONE TO			52 Weeks Ended		
	3-Dec 2022 GWh Output	4-Dec 2021 GWh Output	% Increase Over Corresponding Week	3-Dec 2022 GWh Output	4-Dec 2021 GWh Output	% Increase Over Corresponding Week	3-Dec 2022 GWh Output	4-Dec 2021 GWh Output	% Increase Over Corresponding Week
New England	2,182	2,296	-5.0%	108,713	108,991	-0.3%	115,652	116,123	-0.4%
Mid-Atlantic	7,568	7,819	-3.2%	393,958	394,675	-0.2%	417,582	419,360	-0.4%
Central Industrial	12,262	12,280	-0.1%	617,158	614,123	0.5%	654,075	651,841	0.3%
West Central	6,551	6,450	1.6%	321,583	315,910	1.8%	340,811	334,815	1.8%
Southeast	17,686	18,132	-2.5%	971,172	958,167	1.4%	1,027,842	1,017,757	1.0%
South Central	14,303	13,366	7.0%	793,010	736,277	7.7%	834,747	778,081	7.3%
Rocky Mountain	5,936	5,503	7.9%	278,756	276,042	1.0%	295,661	292,997	0.9%
Pacific Northwest	3,784	3,078	22.9%	150,302	147,045	2.2%	161,433	157,554	2.5%
Pacific Southwest	4,933	4,820	2.3%	258,465	252,847	2.2%	273,879	267,404	2.4%
Total United States ^{1/}	75,205	73,744	2.0%	3,893,117	3,804,077	2.3%	4,121,682	4,035,932	2.1%
Coal Regions Only ^{2/}	64,306	63,550	1.2%	3,375,637	3,295,194	2.4%	3,570,718	3,494,851	2.2%

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 5, 2022

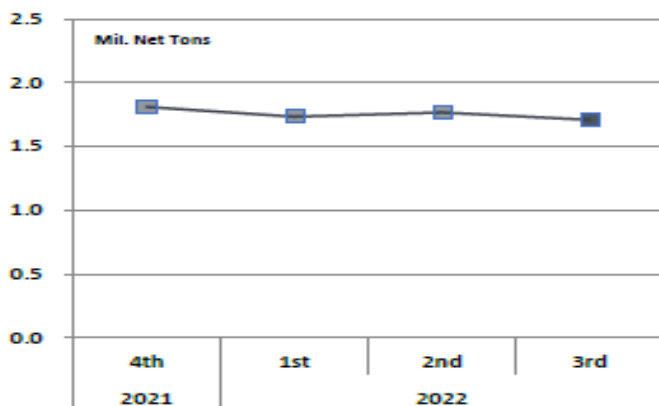
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<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 3</u>	<u>Week Ending Nov 26</u>	
<u>Week Ending</u>				North East	139	143
				Great Lakes	541	533
December 3, 2022	1,630	0.3	73.1	Midwest	196	187
December 3, 2021	1,801	-9.5	81.6	Southern	684	690
November 26, 2022	1,625	-0.2	72.8	Western	<u>70</u>	<u>72</u>
				Total	1,630	1,625
<u>Year-to-Date +</u>						
December 3, 2022	82,729	-5.5	78.3			
December 3, 2021	87,505	-	81.3			

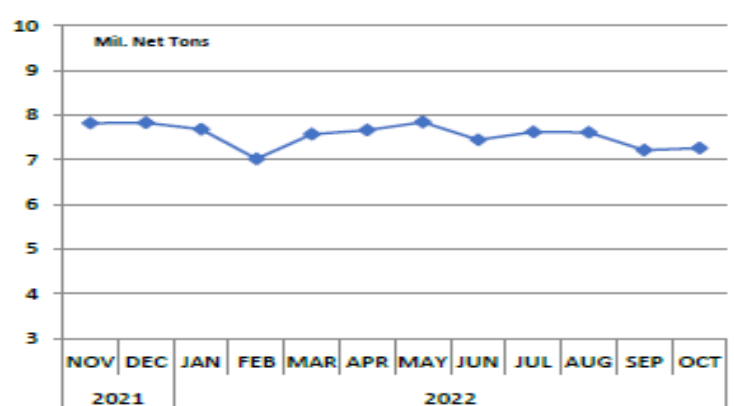
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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

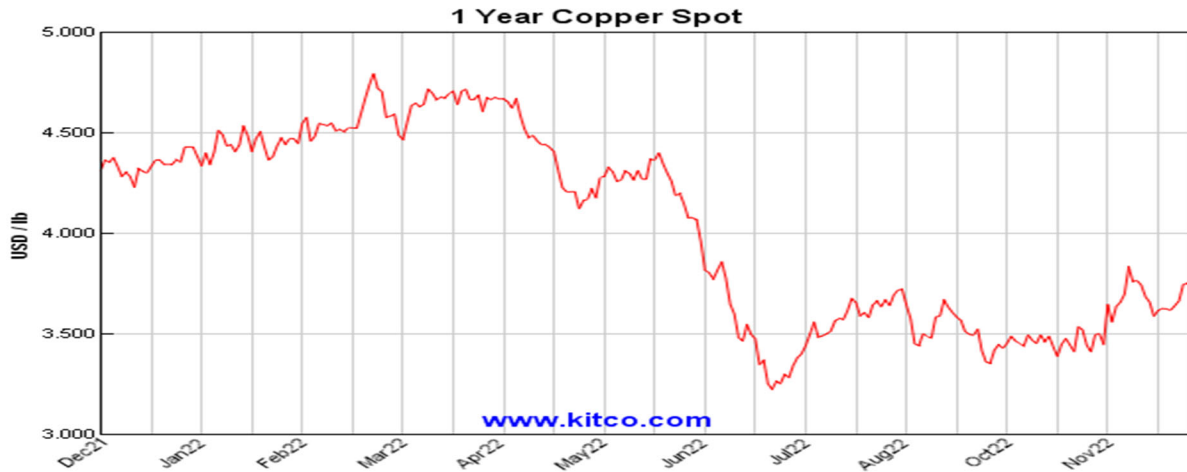
Average Weekly Raw Steel Production



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 48, 2022 – Ended December 3, 2022

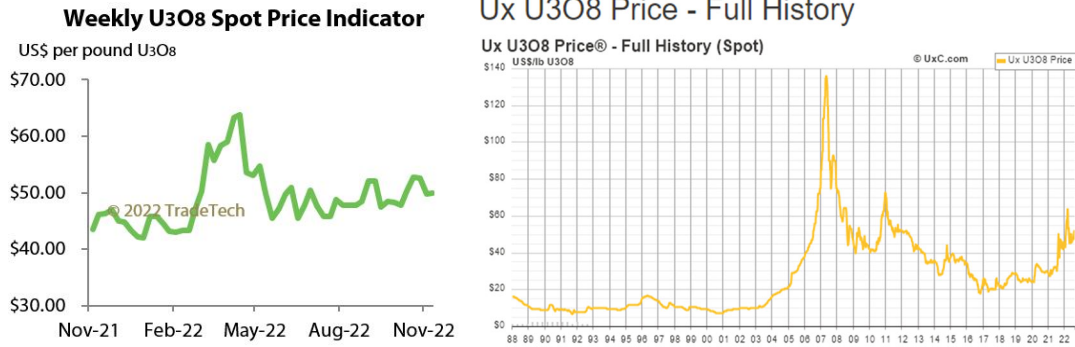
	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk ²	vs 2021
Total Carloads	241,307	-5.4%	11,134,112	231,961	0.0%
Chemicals	28,290	-26.6%	1,577,710	32,869	1.0%
Coal	69,107	0.7%	3,180,963	66,270	3.4%
Farm Products excl. Grain, and Food	17,709	0.5%	785,045	16,355	3.1%
Forest Products	9,666	-8.5%	463,085	9,648	-3.7%
Grain	26,212	-7.1%	1,073,826	22,371	-4.1%
Metallic Ores and Metals	22,181	-1.4%	1,006,600	20,971	-6.9%
Motor Vehicles and Parts	15,044	1.5%	641,175	13,358	3.2%
Nonmetallic Minerals	32,801	-0.4%	1,513,105	31,523	4.1%
Petroleum and Petroleum Products	10,595	-1.1%	461,241	9,609	-8.2%
Other	9,702	-7.0%	431,362	8,987	-8.5%
Total Intermodal Units	254,165	-6.7%	12,552,267	261,506	-4.8%
Total Traffic	495,472	-6.0%	23,686,379	493,466	-2.6%

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.

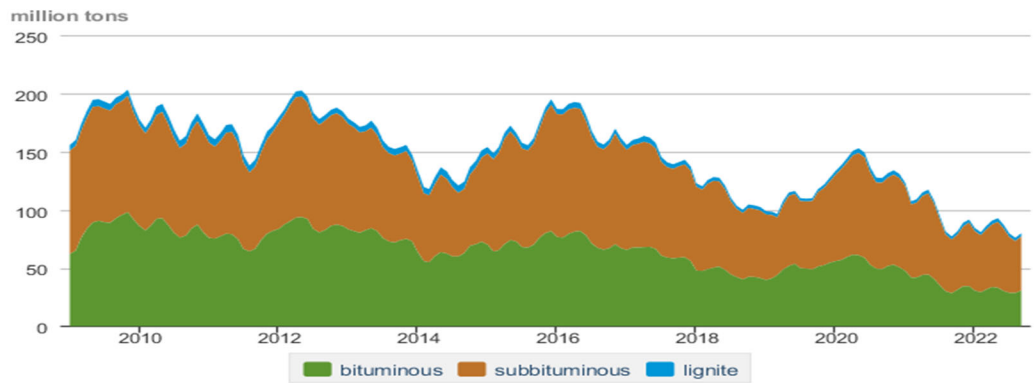
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

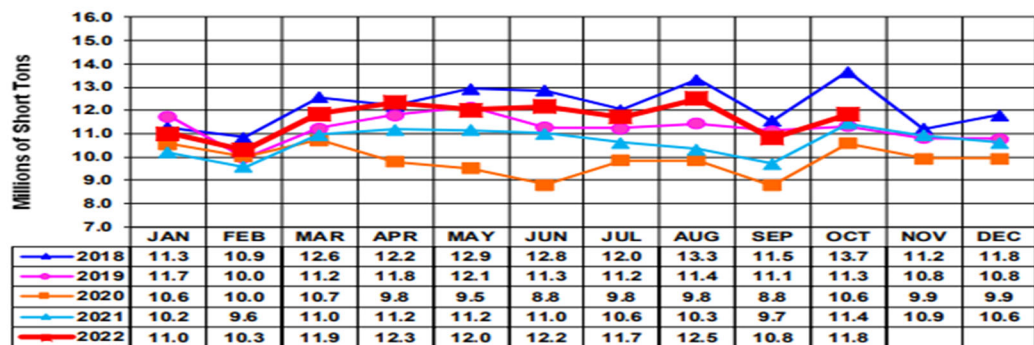
Coal stocks by type, January 2009 - September 2022



eia Source: U.S. Energy Information Administration

Source: Energy Information Administration, Electric Monthly Update

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



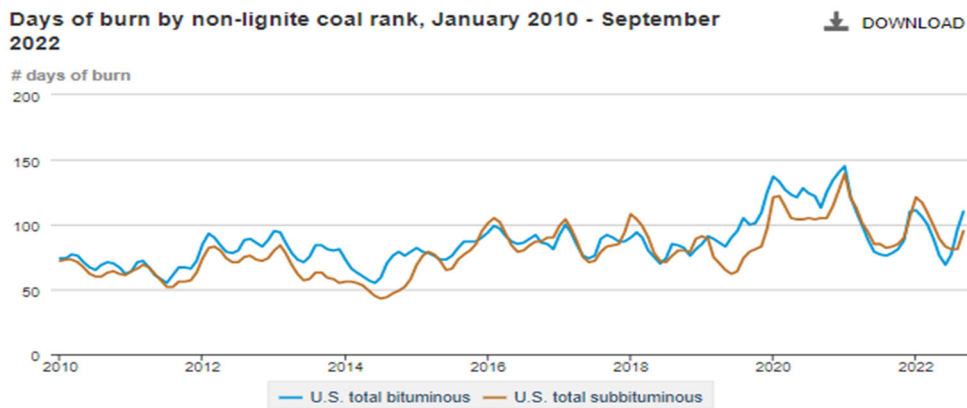
For the Internal U.S. Waterway Monthly Indicators, estimates for the most recent month are based on lock performance management data. The estimates will be superseded by actual data as it becomes available.

Source: Waterborne Commerce Statistics Center

Average weekly coal commodity spot prices dollars per short ton

	Week ending					Week ago
	11/04/22	11/11/22	11/18/22	11/25/22	12/02/22	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$182.10	\$182.10	\$187.70	\$187.70	\$193.45	\$5.75
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$185.80	\$185.80	\$191.50	\$191.50	\$197.40	\$5.90
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$186.50	\$186.50	\$186.50	\$186.50	\$168.25	\$-18.25
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$17.15	\$17.15	\$17.10	\$17.10	\$15.85	\$-1.25
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$41.80	\$41.80	\$41.65	\$41.65	\$41.50	\$-0.15

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 Nov 24)

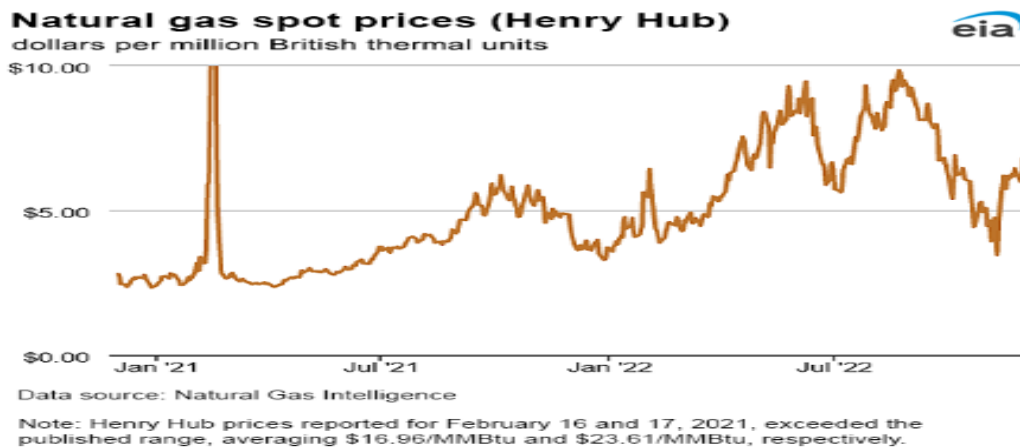
Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	216	40	44	0	0	0
Middle Atlantic	209	42	38	0	0	0
E N Central	235	43	32	0	0	0
W N Central	244	28	49	0	0	0
South Atlantic	154	41	25	8	-3	-2
E S Central	171	54	36	0	-1	0
W S Central	136	54	71	0	-5	-5
Mountain	221	33	65	0	0	-2
Pacific	92	-3	20	0	-1	0
United States	185	34	38	2	-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*.

USGS Production of Selected Mineral Commodities	2022 Year to Date - 2nd Quarter	2021 Year to Date - 2nd Quarter	Percent Change
Aluminum, secondary (000 Mt.)	434.0	418.0	4%
Cement (Mil. Mt.)	44.1	42.6	4%
Copper (000 Mt.)	621.0	595.0	4%
Gold (Mt.)	80.8	89.1	-9%
Gypsum (Mil. Mt.)	9.1	9.6	-5%
Iron Ore (Mil. Mt.)	22.6	26.0	-13%
Lead (000 Mt.)	142.0	146.0	-3%
Molybdenum (000 Mt.)	20.5	22.4	-8%
Palladium (Mt.)	5.9	7.2	-18%
Phosphate rock (Mil. Mt.)	10.0	11.0	-9%
Platinum (Mt.)	1.7	2.1	-19%
Sand & gravel, construction (Mil. Mt.)	459.0	448.0	2%
Silver (Mt.)	504.0	516.0	-2%
Soda ash (Mil. Mt.)	5.5	5.6	-2%
Stone, crushed (Mil. Mt.)	705.0	688.0	2%
Zinc (000 Mt.)	369.0	354.0	4%

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

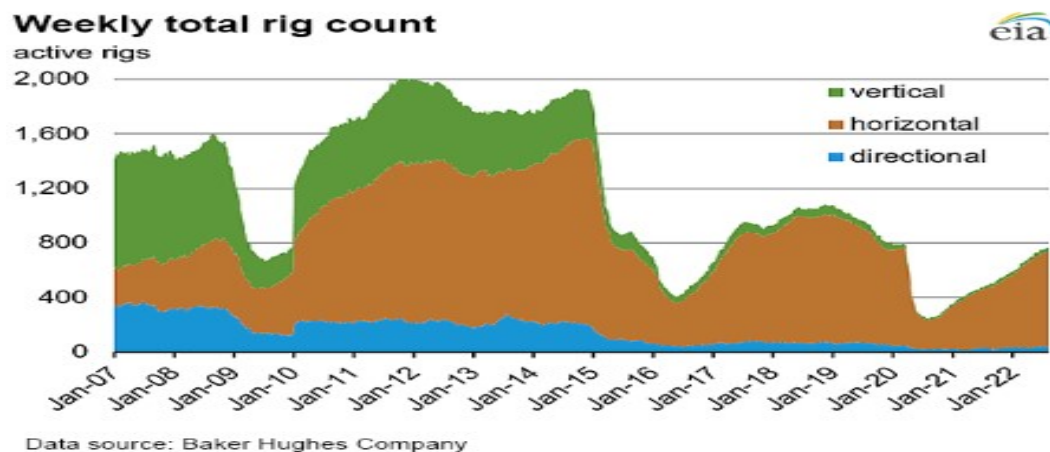
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2022-11-25	2022-11-18	change
East	840	866	-26
Midwest	1,040	1,063	-23
Mountain	197	203	-6
Pacific	226	232	-6
South Central	1,181	1,200	-19
Total	3,483	3,564	-81

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					
	November 2022	December 2022	change	November 2022	December 2022	change			
Anadarko	696	697	1	3,796	3,803	7			
Appalachia	191	191	-	26,985	26,149	(836)			
Bakken	1,696	1,710	14	2,510	2,535	25			
Eagle Ford	1,557	1,541	(16)	6,133	6,041	(92)			
Haynesville	20	20	-	10,781	10,760	(21)			
Niobrara	1,395	1,388	(7)	3,545	3,492	(53)			
Permian	1,061	1,049	(12)	2,112	2,089	(23)			
Rig-weighted average	964	953	(11)	5,513	5,549	36			

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

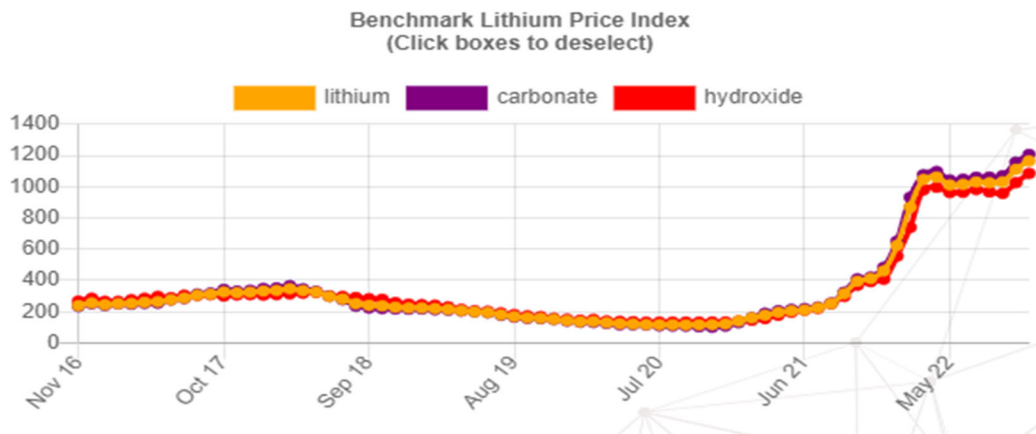
Cobalt and Lithium Prices

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/>