



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

January 6, 2023 Edition
(Data for Week Ending December 31, 2022)

Prepared by
National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

Vol. 60, No. 53 | Dated 01/06/23

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	12/31/22	12/25/21	% Chg	12/31/22	12/31/21	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	9,172	10,134	-9.5%	597,176	577,431	3.4%
52 Weeks Ended	606,056	575,313	5.3%			
<i>Note: the year 2022 has an extra Saturday</i>						
AAR Coal Rail Cars Loaded:	52,863	59,363	-10.9%	3,425,452	3,334,869	2.7%
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
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%
Imports:	690	436	58.3%	6,021	4,701	28.1%

	Week Ended			Cumulative Week 1 to		
	12/31/22	01/01/22	% Chg	12/31/22	01/01/22	% Chg
EI Electric Total Output (Mil. Kwh)	79,495	72,412	9.8%	4,142,901	4,030,500	2.8%
EI Coal Region Output (Mil. Kwh)	68,980	60,824	13.4%	3,592,154	3,486,985	3.0%
AISI Raw Steel Output (000 Tons)	1,602	1,768	-9.4%	89,059	94,569	-5.8%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	12/30/22	12/23/22	% Chg	Wed.	12/21/22
Central App, 12,500 Btu, 1.2 SO ₂	\$205.55	\$205.55	0.0%	Henry Hub	6.14
Northern App, 13,000 Btu, < 3.0 SO ₂	209.70	209.70	0.0%	New York	6.29
Illinois Basin, 11,800, 5.0 SO ₂	168.20	168.20	0.0%	Chicago	17.69
Powder River Basin, 8,800 Btu 0.8 SO ₂	15.55	15.55	0.0%	Cal.Comp.Avg.	53.59
Uinta Basin, 11,700 Btu, 0.8 SO ₂	41.20	41.20	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		
	12/31/2022 (week 53)	12/24/2022 (week 52)	12/25/2021 (week 52)	12/31/2022	12/31/2021	% Change	12/31/2022	12/25/2021	% Change
Alabama	135	138	137	9,916	9,444	5.0	10,036	9,462	6.1
Alaska	16	15	19	965	1,042	-7.4	982	1,040	-5.6
Colorado	207	211	241	13,503	11,875	13.7	13,714	11,794	16.3
Illinois	506	502	543	37,461	36,848	1.7	37,937	36,772	3.2
Indiana	349	324	343	22,599	19,470	16.1	22,899	19,399	18.0
Kentucky total	450	423	479	28,479	26,426	7.8	28,899	26,318	9.8
Eastern (KY)	193	183	194	12,068	10,130	19.1	12,238	10,065	21.6
Western (KY)	257	240	285	16,411	16,296	0.7	16,661	16,253	2.5
Louisiana	4	4	5	302	300	0.5	306	300	2.0
Maryland	20	18	20	1,346	1,263	6.6	1,364	1,258	8.4
Mississippi	46	43	49	3,392	3,201	6.0	3,434	3,176	8.1
Missouri	1	1	s	59	44	32.8	59	46	28.3
Montana	446	431	516	29,187	28,580	2.1	29,639	28,468	4.1
New Mexico	199	185	197	11,287	9,265	21.8	11,459	9,201	24.5
North Dakota	402	395	431	27,163	26,513	2.5	27,540	26,458	4.1
Ohio	43	41	51	2,624	2,759	-4.9	2,669	2,754	-3.1
Oklahoma	s	s	s	2	1	NM	2	s	100.0
Pennsylvania total	578	543	693	38,661	42,422	-8.9	39,269	42,306	-7.2
Anthracite (PA)	43	41	43	2,523	2,111	19.5	2,561	2,102	21.8
Bituminous (PA)	534	502	650	36,138	40,311	-10.4	36,708	40,205	-8.7
Tennessee	.	.	.	s	.	100.0	s	.	.
Texas	270	270	335	17,221	17,250	-0.2	17,514	17,198	1.8
Utah	182	169	213	11,454	12,434	-7.9	11,640	12,407	-6.2
Virginia	163	156	189	10,791	10,902	-1.0	10,957	10,869	0.8
West Virginia total	1,278	1,220	1,383	83,378	78,620	6.1	84,590	78,278	8.1
Northern (WV)	736	697	805	46,993	44,460	5.7	47,698	44,273	7.7
Southern (WV)	542	523	578	36,385	34,160	6.5	36,891	34,005	8.5
Wyoming	3,879	3,633	4,289	247,389	238,773	3.6	251,147	237,809	5.6
Appalachian total	2,409	2,298	2,667	158,785	155,540	2.1	161,122	154,993	4.0
Interior total	1,432	1,384	1,561	97,445	93,410	4.3	98,813	93,144	6.1
Western total	5,331	5,039	5,906	340,947	328,481	3.8	346,122	327,176	5.8
East of Mississippi River	3,566	3,407	3,888	238,647	231,355	3.2	242,054	230,592	5.0
West of Mississippi River	5,605	5,314	6,246	358,529	346,076	3.6	364,003	344,720	5.6
Bituminous and lignite	9,129	8,681	10,091	594,653	575,320	3.4	603,495	573,211	5.3
Anthracite	43	41	43	2,523	2,111	19.5	2,561	2,102	21.8
U.S. total	9,172	8,722	10,134	597,176	577,431	3.4	606,056	575,313	5.3
Railroad cars loaded	52,863	50,264	59,363	3,425,452	3,334,868	2.7	3,477,471	3,323,536	4.6

Source: Energy Information Administration



Weekly Electric Output

Volume 90 No. 53

OUTPUT FOR WEEK ENDED - Dec 31, 2022

Jan 05, 2023

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Dec 31, 2022** was **79,495** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **182** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended December 31		52 Weeks Ended December 31	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	2,312	3.1	115,781	-0.1
Mid-Atlantic	8,327	11.7	419,466	0.3
Central Industrial	12,754	11.7	657,622	1.2
West Central	6,691	-1.4	341,836	1.9
Southeast	21,077	32.2	1,036,554	2.4
South Central	14,681	8.7	840,535	8.0
Rocky Mountain	5,450	-4.8	296,141	1.1
Pacific Northwest	3,416	-22.4	161,364	1.4
Pacific Southwest	4,787	-3.2	273,602	1.9
Total United States	79,495	9.8	4,142,901	2.8

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2022	Week Ended	2021	% Inc. (22/21)	52 Weeks Ended	2022	% Inc. (22/21)
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 31	79,495	Jan 01	72,412	9.8	Dec 31	4,142,901	2.8

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2022	Week Ended	2021	Week Ended	2020
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
Dec 31	182	Jan 01	160	Jan 02	160

* 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		
	31-Dec 2022 GWh Output	1-Jan 2022 GWh Output	% Increase Over Corresponding Week	31-Dec 2022 GWh Output	1-Jan 2022 GWh Output	% Increase Over Corresponding Week	31-Dec 2022 GWh Output	1-Jan 2022 GWh Output	% Increase Over Corresponding Week
New England	2,312	2,243	3.1%	115,781	115,872	-0.1%	115,781	115,872	-0.1%
Mid-Atlantic	8,327	7,454	11.7%	419,466	418,103	0.3%	419,466	418,103	0.3%
Central Industrial	12,754	11,413	11.7%	657,622	650,102	1.2%	657,622	650,102	1.2%
West Central	6,691	6,787	-1.4%	341,836	335,616	1.9%	341,836	335,616	1.9%
Southeast	21,077	15,943	32.2%	1,036,554	1,012,032	2.4%	1,036,554	1,012,032	2.4%
South Central	14,681	13,504	8.7%	840,535	778,067	8.0%	840,535	778,067	8.0%
Rocky Mountain	5,450	5,723	-4.8%	296,141	293,065	1.0%	296,141	293,065	1.0%
Pacific Northwest	3,416	4,402	-22.4%	161,364	159,064	1.4%	161,364	159,064	1.4%
Pacific Southwest	4,787	4,943	-3.2%	273,602	268,579	1.9%	273,602	268,579	1.9%
Total United States ^{1/}	79,495	72,412	9.8%	4,142,901	4,030,500	2.8%	4,142,901	4,030,500	2.8%
Coal Regions Only ^{2/}	68,980	60,824	13.4%	3,592,154	3,486,985	3.0%	3,592,154	3,486,985	3.0%

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 3, 2022

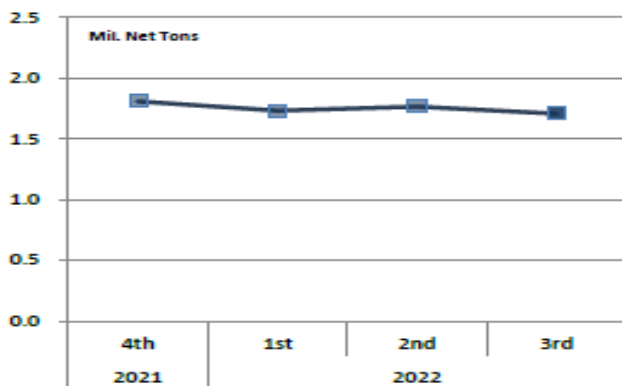
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<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 31</u>	<u>Dec 24</u>	
<u>Week Ending</u>				North East	125	119
				Great Lakes	544	557
December 31, 2022	1,602	-0.7	71.8	Midwest	195	197
December 31, 2021	1,768	-9.4	80.1	Southern	663	670
December 24, 2022	1,614	-0.8	72.3	Western	<u>75</u>	<u>71</u>
				Total	1,602	1,614
<u>Year-to-Date +</u>						
December 31, 2022	89,059	-5.8	77.7			
December 31, 2021	94,569	-	81.2			

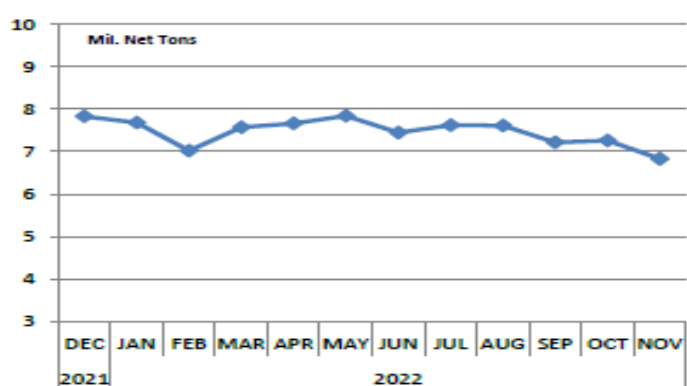
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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

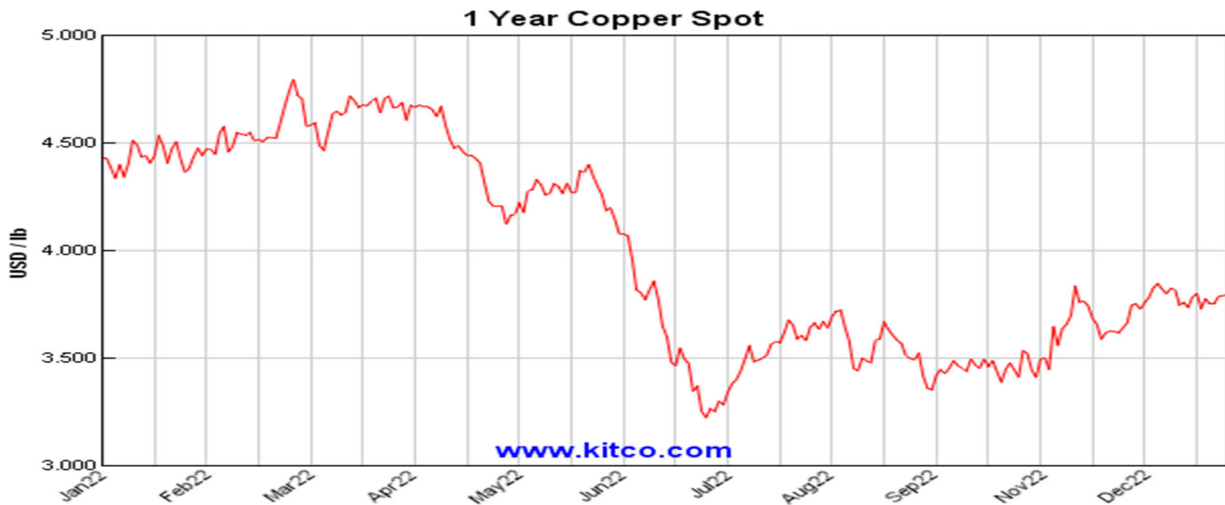
Average Weekly Raw Steel Production



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 52, 2022 – Ended December 31, 2022

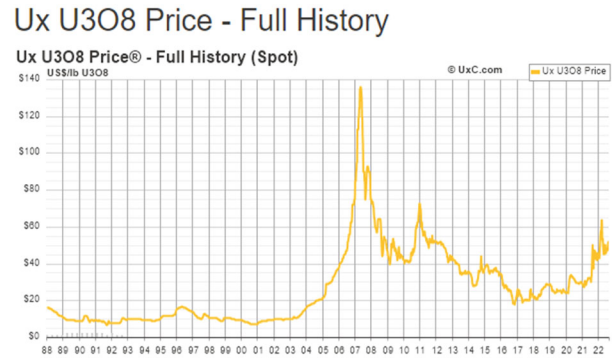
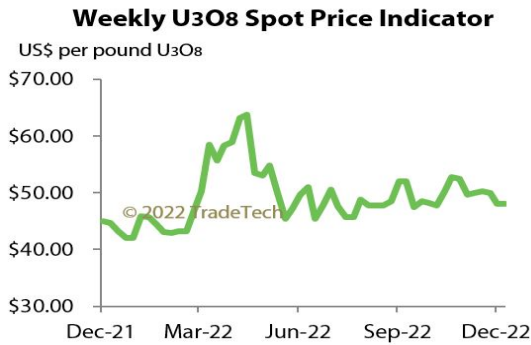
	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk ²	vs 2021
Total Carloads	179,992	-12.5%	11,976,283	230,313	-0.3%
Chemicals	25,174	-22.2%	1,693,989	32,577	0.0%
Coal	52,863	-10.7%	3,418,208	65,735	2.7%
Farm Products excl. Grain, and Food	13,210	-12.0%	846,711	16,283	2.8%
Forest Products	7,299	-21.7%	497,096	9,560	-4.2%
Grain	18,383	-6.7%	1,157,073	22,251	-4.2%
Metallic Ores and Metals	18,584	-14.9%	1,087,168	20,907	-6.6%
Motor Vehicles and Parts	9,418	5.2%	692,244	13,312	3.8%
Nonmetallic Minerals	19,853	-14.1%	1,618,657	31,128	3.7%
Petroleum and Petroleum Products	8,278	-8.0%	500,771	9,630	-7.6%
Other	6,930	-5.7%	464,366	8,930	-8.2%
Total Intermodal Units	185,561	-0.5%	13,452,480	258,702	-4.9%
Total Traffic	365,553	-6.8%	25,428,763	489,015	-2.8%

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.

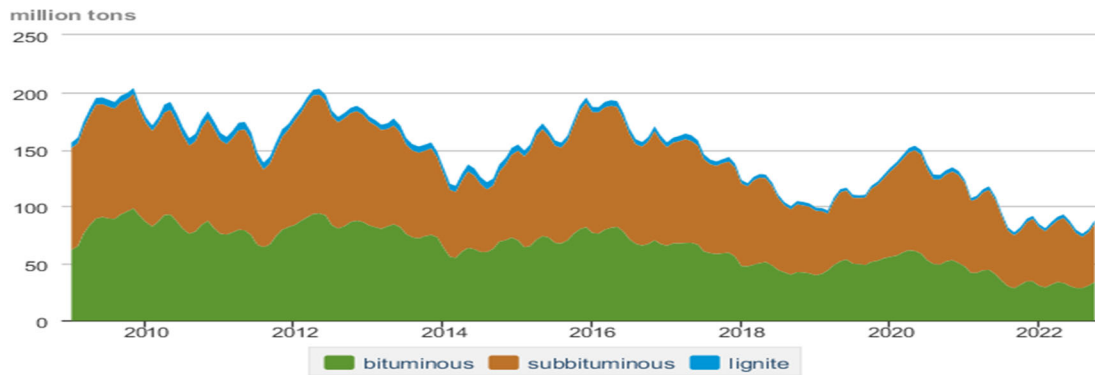
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

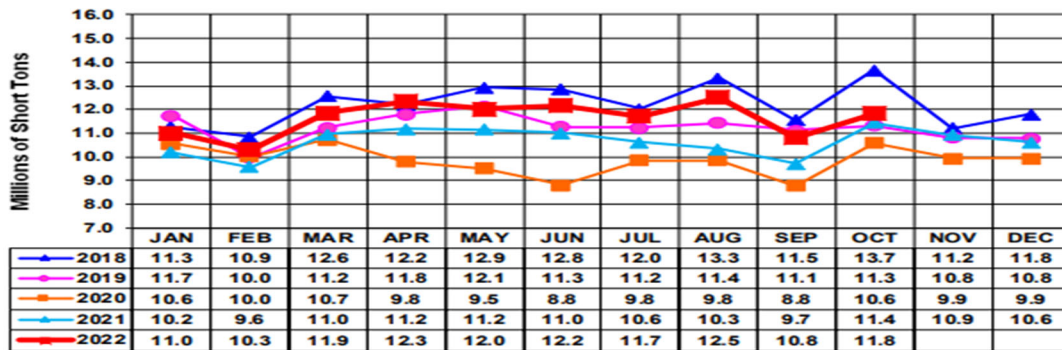
Coal stocks by type, January 2009 - October 2022



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.

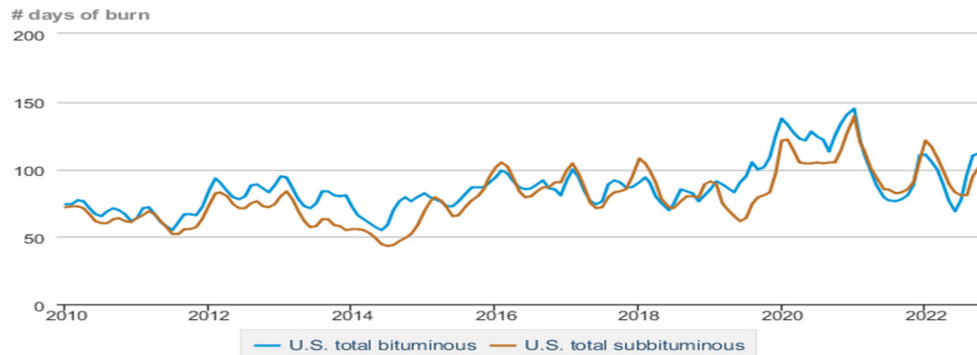
Source: Waterborne Commerce Statistics Center

Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	12/02/22	12/09/22	12/16/22	12/23/22	12/30/22	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$193.45	\$199.40	\$199.40	\$205.55	\$205.55	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$197.40	\$203.45	\$203.45	\$209.70	\$209.70	\$0.00
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$168.25	\$168.25	\$168.25	\$168.25	\$168.25	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$15.85	\$15.60	\$15.60	\$15.55	\$15.55	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$41.50	\$41.35	\$41.35	\$41.20	\$41.20	\$0.00

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



 Data source: U.S. Energy Information Administration

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

Temperature – heating & cooling degree days (week ending Dec 15)

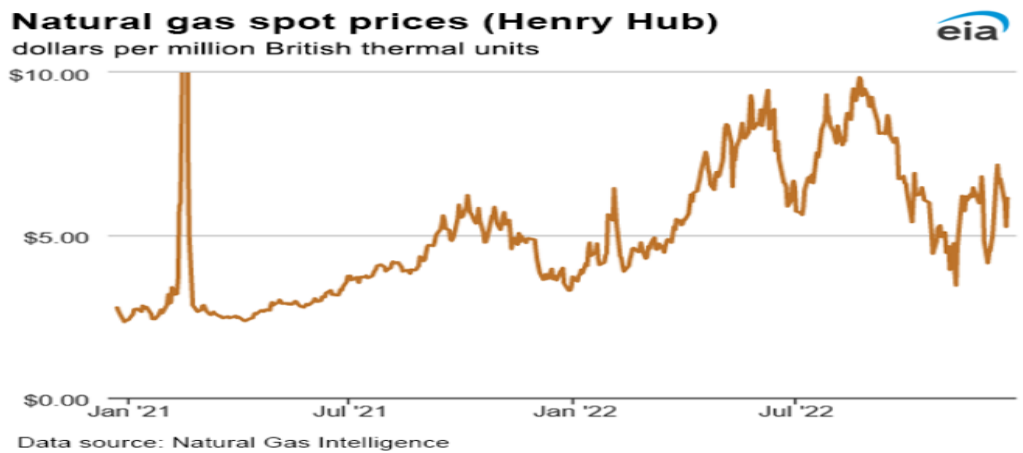
Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	241	13	57	0	0	0
Middle Atlantic	231	13	67	0	0	0
E N Central	203	-46	39	0	0	0
W N Central	224	-51	42	0	0	0
South Atlantic	135	-18	12	10	2	-4
E S Central	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

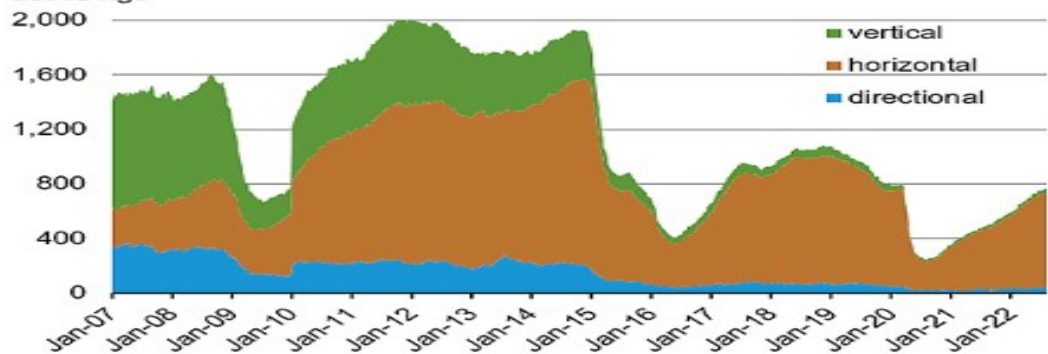
Data source: U.S. Energy Information Administration Form EIA-912, *Weekly Underground Natural Gas Storage Report*

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

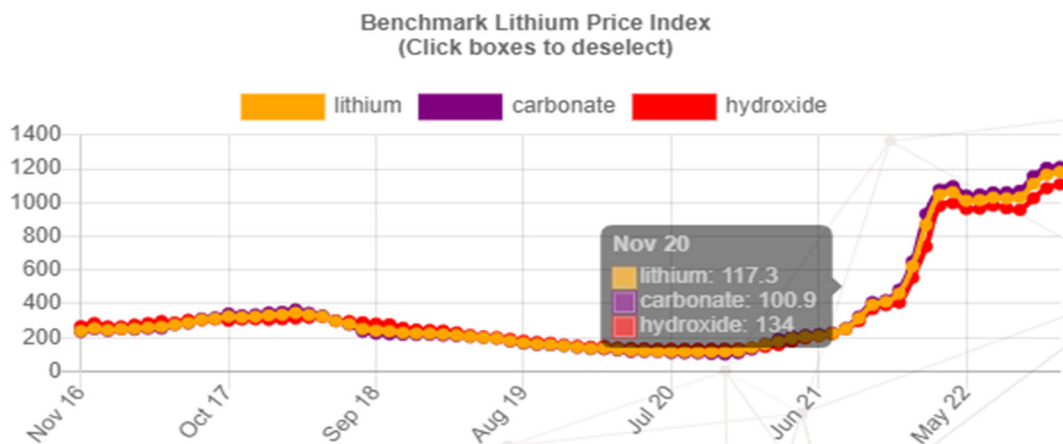
Cobalt and Lithium Prices

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/>