



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

October 28, 2022 Edition
(Data for Week Ending October 22, 2022)

Prepared by
National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

Vol. 60, No. 43 | Dated 10/28/22

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	10/22/22	10/23/21	% Chg	10/22/22	10/22/21	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	11,988	11,317	5.9%	484,720	465,672	4.1%
52 Weeks Ended	595,008	566,291	5.1%			
AAR Coal Rail Cars Loaded:	68,889	65,712	4.8%	2,784,092	2,684,973	3.7%
Coal Production	Sep 22/21		% Chg	Jan - Sep 22/21		% Chg
Month Ended - September	51,372	49,760	3.2%	447,814	431,076	3.9%

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

	Aug 22/21		% Chg	Jan - Aug 22/21		% Chg
Exports:						
Metallurgical	3,496	4,260	-17.9%	30,859	29,688	3.9%
Steam Bit. *	3,447	3,404	1.3%	25,652	27,116	-5.4%
Lignite	6	6	0.0%	54	51	5.9%
Anthracite	<u>14</u>	<u>27</u>	-48.1%	<u>307</u>	<u>221</u>	38.9%
Total	6,963	7,697	-9.5%	56,872	57,076	-0.4%
Imports:	779	368	111.7%	4,397	3,538	24.3%

	Week Ended			Cumulative Week 1 to		
	10/22/22	10/23/21	% Chg	10/22/22	10/23/21	% Chg
EEl Electric Total Output (Mil. Kwh)	69,780	68,303	2.2%	3,459,556	3,377,395	2.4%
EEl Coal Region Output (Mil. Kwh)	60,125	58,973	2.0%	3,002,420	2,927,343	2.6%
AISI Raw Steel Output (000 Tons)	1,669	1,836	-9.1%	73,064	76,556	-4.6%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	10/21/22	10/14/22	% Chg	Wed.	10/19/22
Central App, 12,500 Btu, 1.2 SO ₂	\$176.65	\$176.65	0.0%	Henry Hub	5.50
Northern App, 13,000 Btu, < 3.0 SO ₂	180.25	180.25	0.0%	New York	5.13
Illinois Basin, 11,800, 5.0 SO ₂	186.50	186.50	0.0%	Chicago	5.27
Powder River Basin, 8,800 Btu 0.8 SO ₂	17.45	17.45	0.0%	Cal.Comp.Avg.	6.15
Uinta Basin, 11,700 Btu, 0.8 SO ₂	41.95	41.95	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		
	10/22/2022 (week 43)	10/15/2022 (week 42)	10/23/2021 (week 42)	10/22/2022	10/22/2021	% Change	10/22/2022	10/23/2021	% Change
Alabama	154	154	153	7,425	7,936	-6.4	8,914	9,976	-10.6
Alaska	20	19	21	775	834	-7.1	980	1,039	-5.7
Colorado	292	299	269	11,154	9,214	21.0	13,779	11,165	23.4
Illinois	628	617	606	30,211	30,860	-2.1	36,120	36,801	-1.9
Indiana	438	420	383	17,641	15,684	12.5	21,377	19,104	11.9
Kentucky total	578	555	535	22,974	21,144	8.7	28,186	25,784	9.3
Eastern (KY)	254	245	216	9,813	7,993	22.8	11,921	9,562	24.7
Western (KY)	324	311	319	13,161	13,151	0.1	16,265	16,222	0.3
Louisiana	6	6	6	258	244	5.9	314	307	2.3
Maryland	25	25	23	1,084	1,037	4.5	1,306	1,236	5.7
Mississippi	66	65	54	2,768	2,663	3.9	3,298	2,930	12.6
Missouri	1	1	1	43	39	9.3	48	67	-28.4
Montana	601	596	576	24,166	22,888	5.6	29,783	27,957	6.5
New Mexico	245	231	220	8,468	7,097	19.3	10,608	8,712	21.8
North Dakota	514	509	481	21,541	21,762	-1.0	26,230	26,554	-1.2
Ohio	57	56	57	2,191	2,193	-0.1	2,749	2,780	-1.1
Oklahoma	s	s	s	1	s	73.3	1	s	100.0
Pennsylvania total	743	713	774	32,048	34,776	-7.8	39,593	42,088	-5.9
Anthracite (PA)	54	51	48	1,965	1,639	19.9	2,431	2,056	18.2
Bituminous (PA)	689	662	726	30,083	33,137	-9.2	37,162	40,032	-7.2
Tennessee	.	.	.	s	.	100.0	s	.	.
Texas	362	366	374	14,081	13,556	3.9	17,727	17,143	3.4
Utah	236	227	238	9,336	10,085	-7.4	11,654	12,460	-6.5
Virginia	212	209	211	8,757	8,817	-0.7	10,814	10,792	0.2
West Virginia total	1,643	1,589	1,544	67,266	63,369	6.1	82,316	76,322	7.9
Northern (WV)	932	896	899	37,411	35,579	5.1	46,176	43,300	6.6
Southern (WV)	711	692	645	29,855	27,791	7.4	36,141	33,023	9.4
Wyoming	5,166	5,014	4,790	202,531	191,472	5.8	249,209	233,072	6.9
Appalachian total	3,089	2,989	2,979	128,585	126,123	2.0	157,614	152,757	3.2
Interior total	1,825	1,785	1,743	78,164	76,197	2.6	95,150	92,574	2.8
Western total	7,075	6,894	6,595	277,971	263,351	5.6	342,243	320,960	6.6
East of Mississippi River	4,545	4,401	4,342	192,366	188,481	2.1	234,675	227,814	3.0
West of Mississippi River	7,443	7,267	6,976	292,354	277,190	5.5	360,333	338,477	6.5
Bituminous and lignite	11,935	11,617	11,269	482,755	464,033	4.0	592,577	564,235	5.0
Anthracite	54	51	48	1,965	1,639	19.9	2,431	2,056	18.2
U.S. total	11,988	11,668	11,317	484,720	465,672	4.1	595,008	566,291	5.1
Railroad cars loaded	68,889	66,914	65,712	2,784,092	2,684,973	3.7	3,425,447	3,276,814	4.5

Source: Energy Information Administration



Weekly Electric Output

Volume 90 No. 43

OUTPUT FOR WEEK ENDED - Oct 22, 2022

Oct 26, 2022

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Oct 22, 2022** was **69,780** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **183** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended October 22		52 Weeks Ended October 22	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	1,896	-0.4	115,921	-0.2
Mid-Atlantic	6,833	1.0	418,569	0.0
Central Industrial	10,999	4.7	654,949	0.7
West Central	6,065	6.3	340,196	1.8
Southeast	17,009	0.6	1,027,907	1.2
South Central	13,668	-1.2	828,848	6.8
Rocky Mountain	5,551	5.7	294,880	0.6
Pacific Northwest	2,529	-4.5	159,775	0.9
Pacific Southwest	5,230	9.4	273,750	2.5
Total United States	69,780	2.2	4,114,795	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)
Oct 01	70,819	Oct 02	75,020	-5.6	Oct 01	4,121,580	2.4
Oct 08	69,706	Oct 09	75,195	-7.3	Oct 08	4,116,091	2.2
Oct 15	70,244	Oct 16	73,017	-3.8	Oct 15	4,113,318	2.0
Oct 22	69,780	Oct 23	68,303	2.2	Oct 22	4,114,795	2.1
Oct 22	3,459,556	Oct 23	3,377,395	2.4	YEAR TO DATE, FIRST 43 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2022	Week Ended	2021	Week Ended	2020
Oct 01	177	Oct 02	178	Oct 03	183
Oct 08	176	Oct 09	187	Oct 10	171
Oct 15	181	Oct 16	185	Oct 17	174
Oct 22	183	Oct 23	175	Oct 24	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		
	22-Oct 2022 GWh Output	23-Oct 2021 GWh Output	% Increase Over Corresponding Week	22-Oct 2022 GWh Output	23-Oct 2021 GWh Output	% Increase Over Corresponding Week	22-Oct 2022 GWh Output	23-Oct 2021 GWh Output	% Increase Over Corresponding Week
New England	1,896	1,904	-0.4%	96,467	96,478	0.0%	115,921	116,166	-0.2%
Mid-Atlantic	6,833	6,764	1.0%	351,122	350,851	0.1%	418,569	418,363	0.0%
Central Industrial	10,999	10,506	4.7%	548,385	544,475	0.7%	654,949	650,430	0.7%
West Central	6,065	5,707	6.3%	284,846	279,787	1.8%	340,196	334,090	1.8%
Southeast	17,009	16,915	0.6%	864,348	851,279	1.5%	1,027,907	1,016,116	1.2%
South Central	13,668	13,830	-1.2%	707,170	656,335	7.7%	828,848	776,430	6.8%
Rocky Mountain	5,551	5,251	5.7%	246,549	244,616	0.8%	294,880	293,265	0.6%
Pacific Northwest	2,529	2,647	-4.5%	130,896	129,297	1.2%	159,775	158,275	0.9%
Pacific Southwest	5,230	4,779	9.4%	229,772	224,282	2.4%	273,750	266,978	2.5%
Total United States ^{1/}	69,780	68,303	2.2%	3,459,555	3,377,400	2.4%	4,114,795	4,030,113	2.1%
Coal Regions Only ^{2/}	60,125	58,973	2.0%	3,002,420	2,927,343	2.6%	3,565,349	3,488,694	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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October 24, 2022

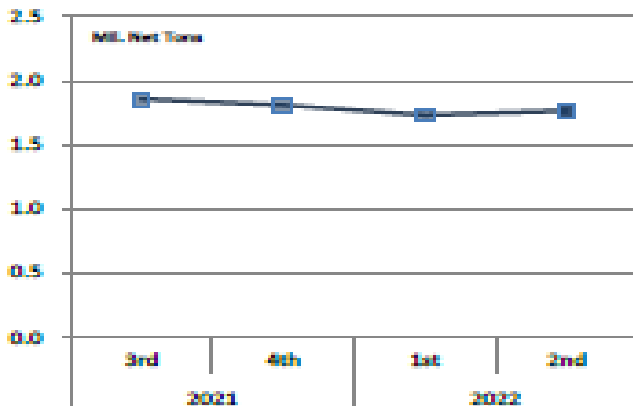
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

Period	Thousand Net Tons	Percent Change from Previous Period	Percent Capacity Utilization**	Production by District		
				Week Ending Oct 22	Week Ending Oct 15	
<u>Week Ending</u>				North East	142	141
				Great Lakes	553	556
October 22, 2022	1,669	-1.1	74.8	Midwest	179	184
October 22, 2021	1,836	-9.1	83.2	Southern	726	739
October 15, 2022	1,688	0.5	75.7	Western	69	68
				Total	1,669	1,688
<u>Year-to-Date +</u>						
October 22, 2022	73,064	-4.6	79.2			
October 22, 2021	76,556	-	81.2			

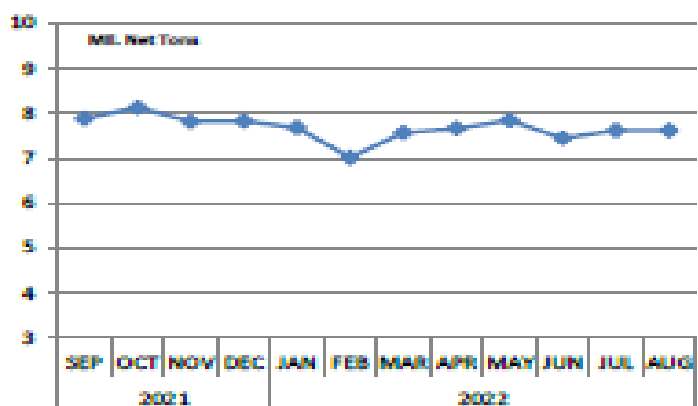
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides 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 June 2022 was approximately 79.6%, 7.45 million net tons. Given the large number of changes to steelmaking capability and the evolving market, AISI is updating the capacity statistics.

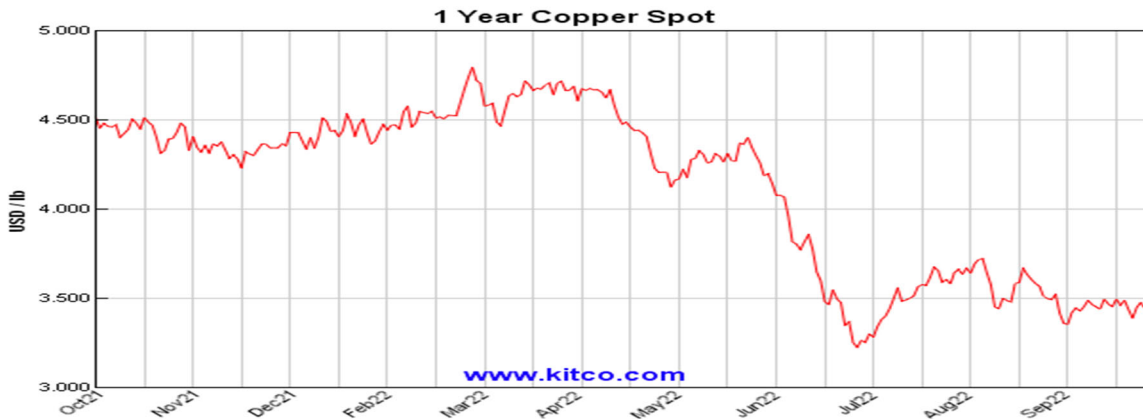
Average Weekly Raw Steel Production



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 42, 2022 – Ended October 22, 2022

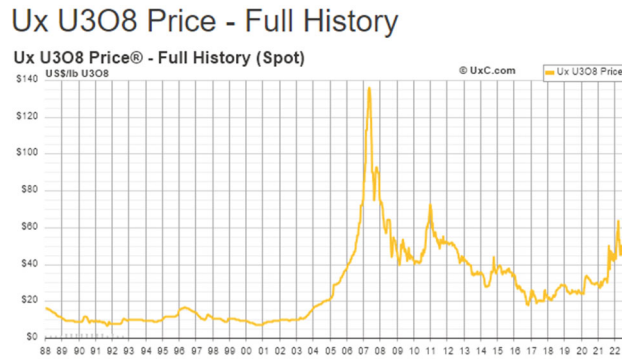
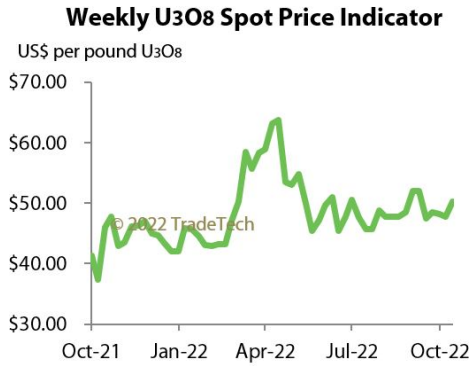
	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk ²	vs 2021
Total Carloads	237,456	-0.7%	9,726,951	231,594	0.1%
Chemicals	31,593	0.5%	1,394,099	33,193	2.6%
Coal	68,889	5.0%	2,776,851	66,116	3.7%
Farm Products excl. Grain, and Food	17,316	-0.5%	684,339	16,294	3.6%
Forest Products	8,894	-12.4%	408,996	9,738	-3.2%
Grain	24,053	-7.2%	924,822	22,020	-4.4%
Metallic Ores and Metals	19,673	-15.1%	881,368	20,985	-7.5%
Motor Vehicles and Parts	14,671	9.5%	555,960	13,237	2.2%
Nonmetallic Minerals	32,565	3.4%	1,323,970	31,523	4.0%
Petroleum and Petroleum Products	10,300	7.9%	401,105	9,550	-9.4%
Other	9,502	-13.9%	375,441	8,939	-9.9%
Total Intermodal Units	267,866	-1.4%	11,051,944	263,142	-4.9%
Total Traffic	505,322	-1.1%	20,778,895	494,736	-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.

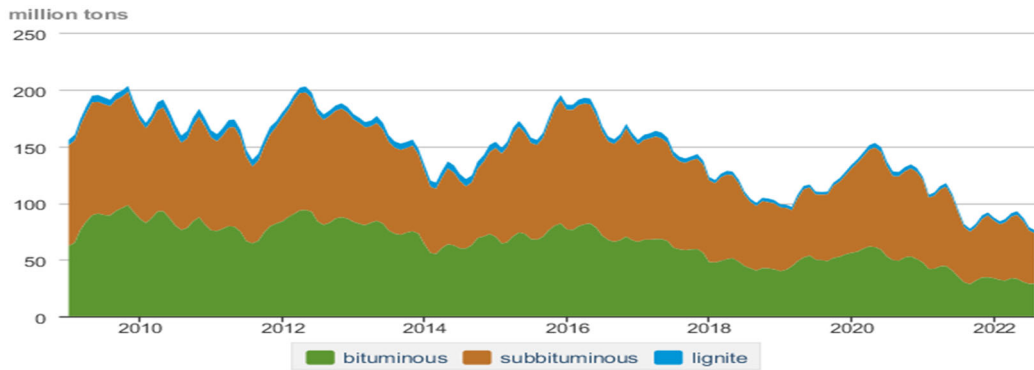
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

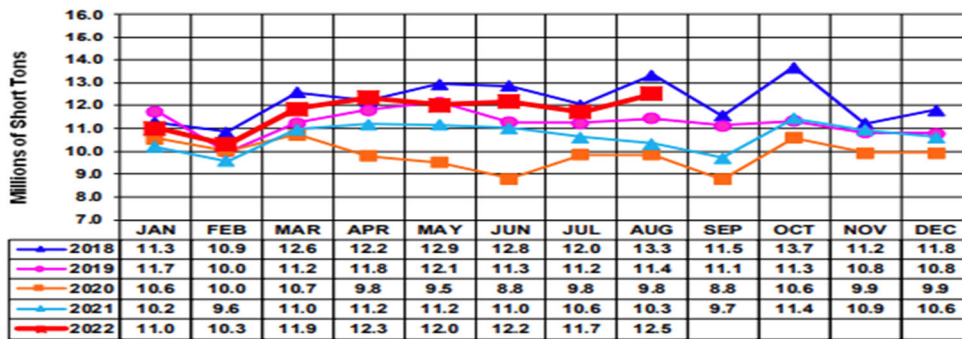
Coal stocks by type, January 2009 - August 2022



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.

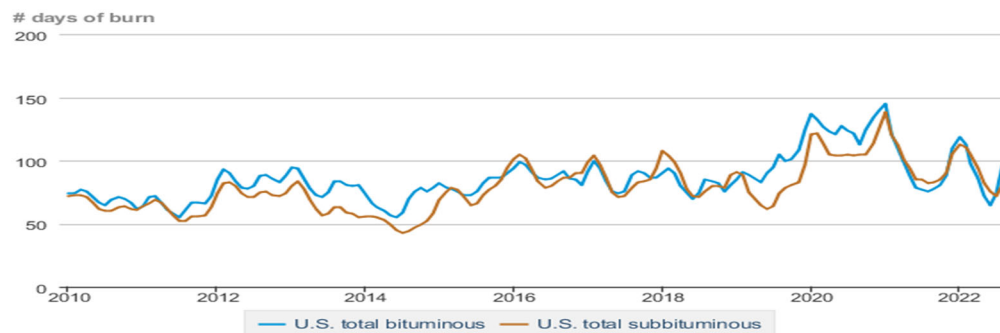
Source: Waterborne Commerce Statistics Center

Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	09/23/22	09/30/22	10/07/22	10/14/22	10/21/22	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$198.85	\$204.95	\$204.95	\$176.65	\$176.65	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$181.95	\$187.55	\$187.55	\$180.25	\$180.25	\$0.00
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$196.75	\$196.75	\$196.75	\$186.50	\$186.50	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$16.15	\$16.25	\$16.25	\$17.45	\$17.45	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$42.55	\$42.40	\$42.40	\$41.95	\$41.95	\$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 - August 2022



Source: U.S. Energy Information Administration

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

Temperature – heating & cooling degree days (week ending Oct 13)

Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	78	-10	47	0	0	0
Middle Atlantic	73	-3	62	0	-2	-3
E N Central	92	12	83	0	-2	-23
W N Central	89	12	62	0	-4	-13
South Atlantic	44	5	42	25	-7	-24
E S Central	46	8	44	4	-12	-43
W S Central	7	-4	6	43	6	-28
Mountain	60	-16	-29	17	1	10
Pacific	4	-23	-57	23	12	23
United States	55	-2	31	14	-1	-11

Data source: National Oceanic and Atmospheric Administration
Note: HDDs=heating degree days; CDDs=cooling degree days

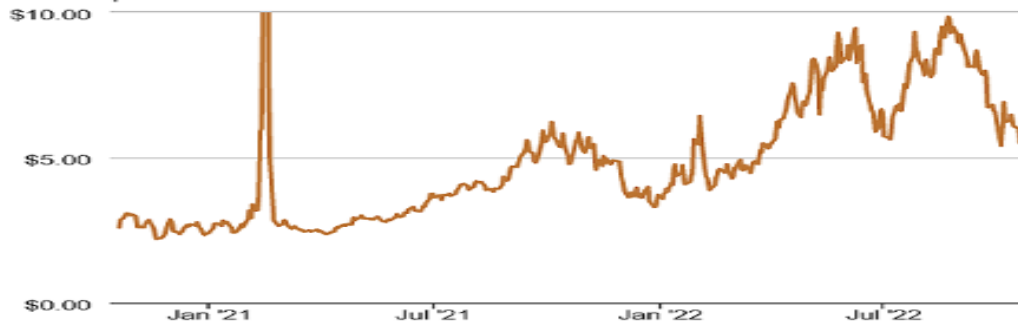
Source: Energy Information Administration, *Natural Gas Weekly Update*.

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

Natural gas spot prices (Henry Hub)

dollars per million British thermal units



Data source: Natural Gas Intelligence

Note: Henry Hub prices reported for February 16 and 17, 2021, exceeded the published range, averaging \$16.96/MMBtu and \$23.61/MMBtu, respectively.

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	August 2022		August 2021		% Change of Stocks	July 2022		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	1,607	362	1,634	242	-1.6%	1,672	365	-3.8%
	Subbituminous								
South	Bituminous	11,197	88	11,024	73	1.6%	10,833	56	3.4%
	Subbituminous	3,310	47	3,009	38	10.0%	3,254	38	1.7%
Midwest	Bituminous	6,528	76	5,951	61	9.7%	6,748	65	-3.3%
	Subbituminous	14,452	96	18,048	102	-19.9%	15,941	93	-9.3%
West	Bituminous	3,186	165	2,156	109	47.7%	3,221	159	-1.1%
	Subbituminous	14,614	79	16,520	77	-11.5%	15,571	70	-6.1%
U.S. Total	Bituminous	22,517	96	20,766	76	8.4%	22,473	74	0.2%
	Subbituminous	32,375	81	37,576	82	-13.8%	34,766	72	-6.9%

Source: Energy Information Administration, *Electricity Monthly Update*

EIA Working Natural Gas Underground Storage

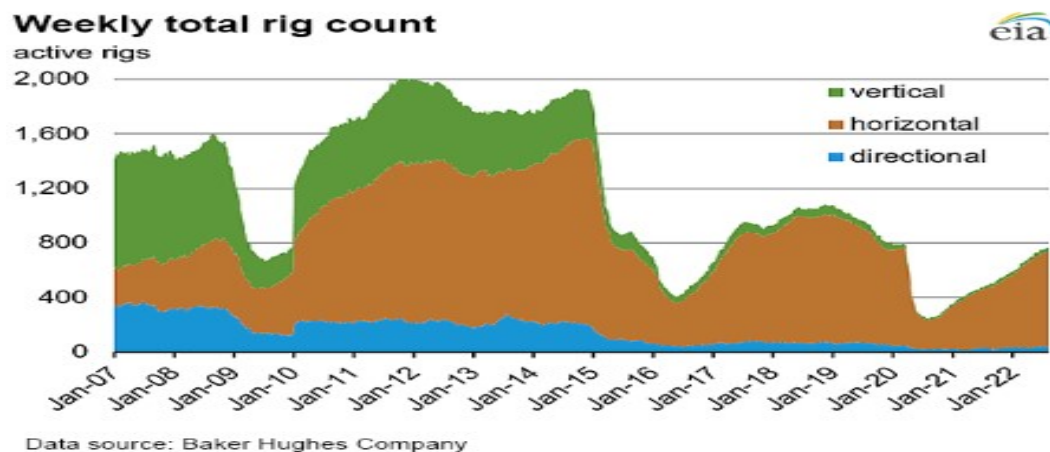
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2022-10-14	2022-10-07	change
East	812	782	30
Midwest	987	952	35
Mountain	195	190	5
Pacific	249	249	0
South Central	1,099	1,058	41
Total	3,342	3,231	111

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					
	October 2022	November 2022	change	October 2022	November 2022	change			
Anadarko	692	695	3	3,771	3,786	15			
Appalachia	191	191	-	27,869	27,874	5			
Bakken	1,701	1,704	3	2,492	2,506	14			
Eagle Ford	1,587	1,571	(16)	6,258	6,133	(125)			
Haynesville	20	20	-	10,835	10,781	(54)			
Niobrara	1,398	1,391	(7)	3,599	3,545	(54)			
Permian	1,078	1,061	(17)	2,116	2,093	(23)			
Rig-weighted average	980	966	(14)	5,570	5,564	(6)			

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

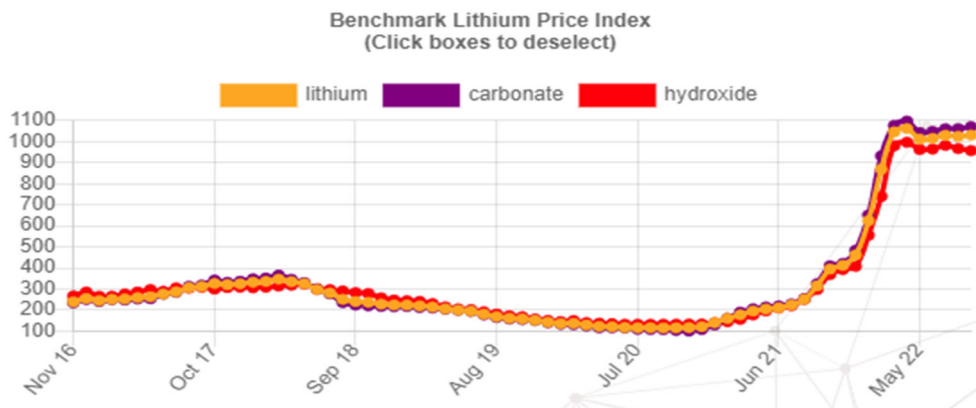
Cobalt and Lithium Prices

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/>