



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

September 30, 2022 Edition

(Data for Week Ending September 24, 2022)

Prepared by

National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

Vol. 60, No. 39 | Dated 09/30/22

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	09/24/22	09/25/21	% Chg	09/24/22	09/24/21	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	12,122	11,901	1.9%	437,703	421,549	3.8%
52 Weeks Ended	592,037	563,130	5.1%			
AAR Coal Rail Cars Loaded:	70,697	70,002	1.0%	2,514,434	2,428,059	3.6%
Coal Production	Aug 22/21		% Chg	Jan - Aug 22/21		% Chg
Month Ended - August	52,815	50,039	5.5%	381,317	396,437	-3.8%

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

	July 22/21			Jan - July 22/21		
			% Chg			% Chg
Exports:						
Metallurgical	3,822	3,390	12.7%	27,363	25,428	7.6%
Steam Bit. *	2,765	3,115	-11.2%	22,205	23,713	-6.4%
Lignite	6	4	50.0%	48	45	6.7%
Anthracite	102	5	1940.0%	393	194	102.6%
Total	6,695	6,514	2.8%	50,009	49,380	1.3%
Imports:	660	564	17.0%	3,618	3,170	14.1%

	Week Ended			Cumulative Week 1 to		
	09/24/22	09/25/21	% Chg	09/24/22	09/25/21	% Chg
EEl Electric Total Output (Mil. Kwh)	79,329	75,786	4.7%	3,179,007	3,085,861	3.0%
EEl Coal Region Output (Mil. Kwh)	69,433	65,329	6.3%	2,761,400	2,674,158	3.3%
AISI Raw Steel Output (000 Tons)	1,683	1,839	-8.5%	66,418	69,208	-4.0%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	09/23/22	09/16/22	% Chg	Wed.	09/21/22
Central App, 12,500 Btu, 1.2 SO ₂	\$198.85	\$198.85	0.0%	Henry Hub	7.99
Northern App, 13,000 Btu, < 3.0 SO ₂	181.95	181.95	0.0%	New York	5.95
Illinois Basin, 11,800, 5.0 SO ₂	196.75	196.75	0.0%	Chicago	6.82
Powder River Basin, 8,800 Btu 0.8 SO ₂	16.15	16.15	0.0%	Cal.Comp.Avg.	7.51
Uinta Basin, 11,700 Btu, 0.8 SO ₂	42.55	42.55	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		
	9/24/2022 (week 39)	9/17/2022 (week 38)	9/25/2021 (week 39)	9/24/2022	9/24/2021	% Change	9/24/2022	9/25/2021	% Change
Alabama	158	159	180	6,803	7,326	-7.1	8,898	10,208	-12.8
Alaska	18	18	18	699	755	-7.4	984	1,041	-5.5
Colorado	305	320	272	9,960	8,173	21.9	13,626	10,908	24.9
Illinois	661	668	648	27,709	28,488	-2.7	35,985	36,832	-2.3
Indiana	427	443	401	15,953	14,190	12.4	21,181	19,017	11.4
Kentucky total	560	571	510	20,734	19,100	8.6	27,994	25,632	9.2
Eastern (KY)	244	249	202	8,827	7,170	23.1	11,760	9,370	25.5
Western (KY)	316	322	308	11,908	11,930	-0.2	16,233	16,261	-0.2
Louisiana	7	8	9	234	220	6.3	313	308	1.6
Maryland	26	27	27	985	946	4.1	1,298	1,225	6.0
Mississippi	73	77	69	2,508	2,442	2.7	3,257	2,841	14.6
Missouri	s	s	s	40	37	8.2	47	77	-39.0
Montana	626	655	626	21,776	20,624	5.6	29,650	27,737	6.9
New Mexico	206	233	163	7,561	6,296	20.1	10,510	8,585	22.4
North Dakota	532	538	581	19,483	19,826	-1.7	26,095	26,590	-1.9
Ohio	55	57	58	1,968	1,971	-0.2	2,748	2,799	-1.8
Oklahoma	s	s	s	1	s	78.3	1	s	100.0
Pennsylvania total	753	761	739	29,156	31,818	-8.4	39,664	42,057	-5.7
Anthracite (PA)	47	52	41	1,763	1,460	20.7	2,409	2,048	17.6
Bituminous (PA)	706	709	698	27,393	30,358	-9.8	37,256	40,009	-6.9
Tennessee	.	.	.	s	.	100.0	s	.	.
Texas	378	396	386	12,615	12,103	4.2	17,712	17,165	3.2
Utah	234	242	251	8,424	9,157	-8.0	11,668	12,505	-6.7
Virginia	222	231	231	7,918	7,987	-0.9	10,802	10,744	0.5
West Virginia total	1,618	1,653	1,500	60,857	57,448	5.9	81,835	75,625	8.2
Northern (WV)	898	911	827	33,794	32,167	5.1	45,979	42,982	7.0
Southern (WV)	720	742	673	27,064	25,280	7.1	35,855	32,643	9.8
Wyoming	5,264	5,425	5,233	182,318	172,641	5.6	247,770	231,232	7.2
Appalachian total	3,076	3,137	2,937	116,514	114,666	1.6	157,006	152,029	3.3
Interior total	1,862	1,914	1,821	70,967	69,411	2.2	94,729	92,502	2.4
Western total	7,184	7,432	7,144	250,221	237,472	5.4	340,302	318,598	6.8
East of Mississippi River	4,552	4,647	4,363	174,592	171,717	1.7	233,663	226,982	2.9
West of Mississippi River	7,570	7,837	7,538	263,110	249,832	5.3	358,374	336,148	6.6
Bituminous and lignite	12,075	12,432	11,861	435,940	420,089	3.8	589,629	561,082	5.1
Anthracite	47	52	41	1,763	1,460	20.7	2,409	2,048	17.6
U.S. total	12,122	12,484	11,901	437,703	421,549	3.8	592,037	563,130	5.1
Railroad cars loaded	70,697	72,774	70,002	2,514,434	2,428,059	3.6	3,412,140	3,258,929	4.7

Source: Energy Information Administration



Weekly Electric Output

Volume 90 No. 39

OUTPUT FOR WEEK ENDED - Sep 24, 2022

Sep 28, 2022

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Sep 24, 2022** was **79,329** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **199** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended September 24		52 Weeks Ended September 24	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	2,030	-8.0	116,179	-0.1
Mid-Atlantic	7,595	-3.8	419,990	0.6
Central Industrial	11,955	3.7	657,742	1.5
West Central	6,545	5.5	341,072	2.5
Southeast	19,686	7.5	1,035,161	2.4
South Central	17,988	14.7	829,716	7.4
Rocky Mountain	5,664	-0.6	293,834	-0.1
Pacific Northwest	2,485	-2.4	160,364	1.6
Pacific Southwest	5,381	-5.7	271,722	0.9
Total United States	79,329	4.7	4,125,781	2.7

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2022	Week Ended	2021	% Inc. (22/21)	52 Weeks Ended	2022	% Inc. (22/21)
Sep 03	88,595	Sep 04	84,565	4.8	Sep 03	4,122,789	3.0
Sep 10	83,200	Sep 11	80,448	3.4	Sep 10	4,125,542	3.0
Sep 17	78,471	Sep 18	81,776	-4.0	Sep 17	4,122,237	2.7
Sep 24	79,329	Sep 25	75,786	4.7	Sep 24	4,125,780	2.7
Sep 24	3,179,007	Sep 25	3,085,861	3.0	YEAR TO DATE, FIRST 39 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2022	Week Ended	2021	Week Ended	2020
Sep 03	200	Sep 04	183	Sep 05	178
Sep 10	194	Sep 11	177	Sep 12	187
Sep 17	187	Sep 18	184	Sep 19	182
Sep 24	199	Sep 25	178	Sep 26	178

* Excludes Alaska and Hawaii.

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

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

	Week Ended			NMA CUMULATIVE JANUARY WEEK ONE TO			52 Weeks Ended		
	24-Sep 2022 GWh Output	25-Sep 2021 GWh Output	% Increase Over Corresponding Week	24-Sep 2022 GWh Output	25-Sep 2021 GWh Output	% Increase Over Corresponding Week	24-Sep 2022 GWh Output	25-Sep 2021 GWh Output	% Increase Over Corresponding Week
New England	2,030	2,206	-8.0%	88,863	88,614	0.3%	116,179	116,244	-0.1%
Mid-Atlantic	7,595	7,896	-3.8%	324,030	322,339	0.5%	419,990	417,566	0.6%
Central Industrial	11,955	11,530	3.7%	506,108	499,405	1.3%	657,742	647,747	1.5%
West Central	6,545	6,202	5.5%	261,407	255,472	2.3%	341,072	332,599	2.5%
Southeast	19,686	18,319	7.5%	796,672	776,348	2.6%	1,035,161	1,010,834	2.4%
South Central	17,988	15,681	14.7%	648,554	596,852	8.7%	829,716	772,705	7.4%
Rocky Mountain	5,664	5,701	-0.6%	224,629	223,742	0.4%	293,834	294,021	-0.1%
Pacific Northwest	2,485	2,547	-2.4%	120,819	118,632	1.8%	160,364	157,867	1.6%
Pacific Southwest	5,381	5,704	-5.7%	207,924	204,461	1.7%	271,722	269,387	0.9%
Total United States ^{1/}	79,329	75,786	4.7%	3,179,006	3,085,865	3.0%	4,125,780	4,018,970	2.7%
Coal Regions Only ^{2/}	69,433	65,329	6.3%	2,761,400	2,674,158	3.3%	3,577,515	3,475,472	2.9%

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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September 26, 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 Sep 24</u>	<u>Week Ending Sep 17</u>	
<u>Week Ending</u>				North East	144	142
				Great Lakes	565	562
September 24, 2022	1,683	-0.6	76.4	Midwest	194	195
September 24, 2021	1,839	-8.5	83.3	Southern	715	727
September 17, 2022	1,694	-1.7	76.9	Western	65	68
				Total	1,683	1,694
<u>Year-to-Date +</u>						
September 24, 2022	66,418	-4.0	79.6			
September 24, 2021	69,208	-	81.0			

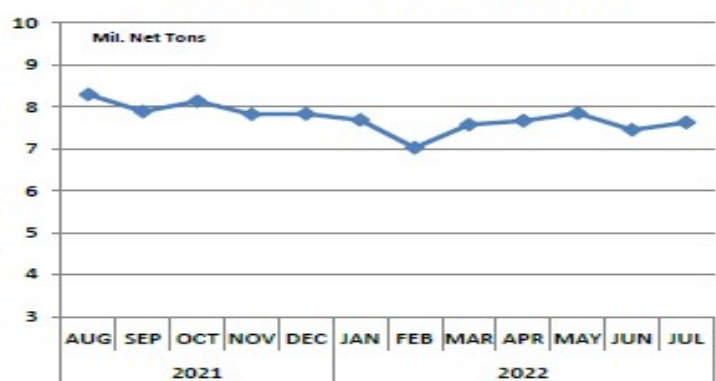
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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

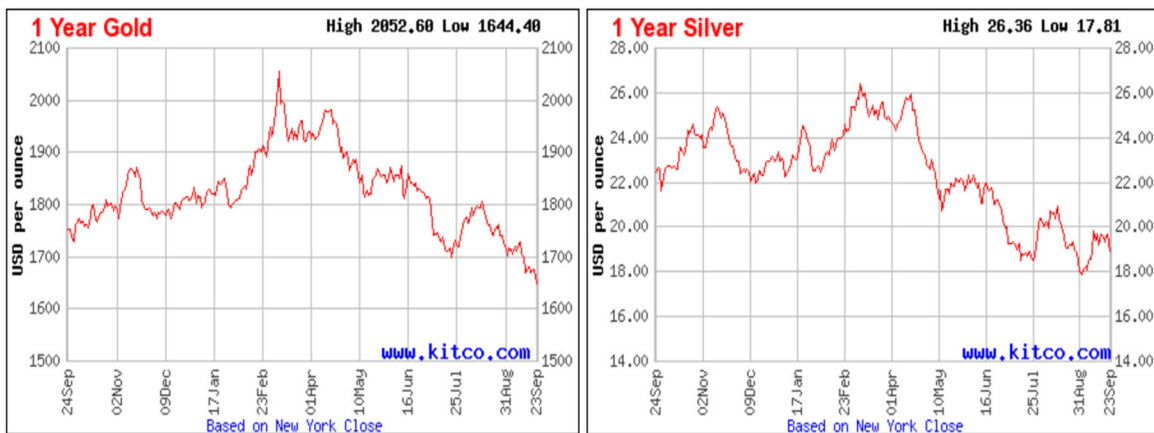
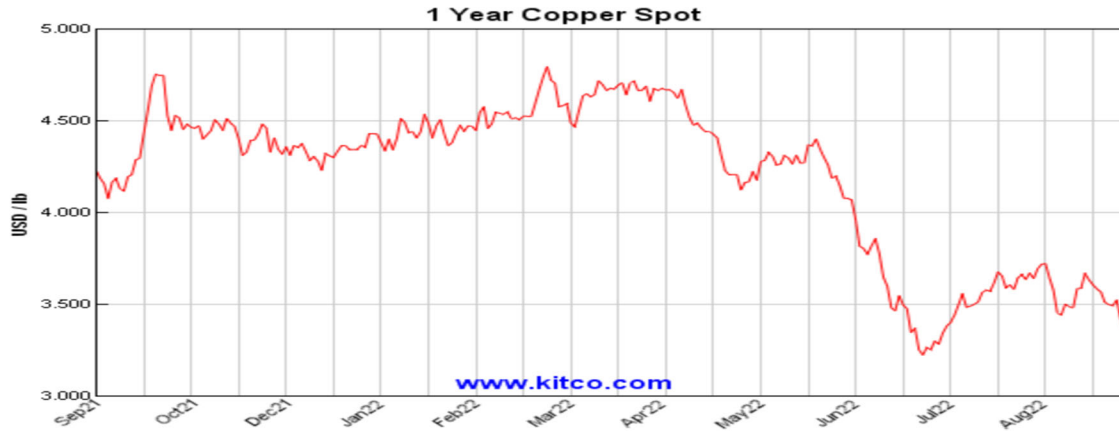
Average Weekly Raw Steel Production



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 38, 2022 – Ended September 24, 2022

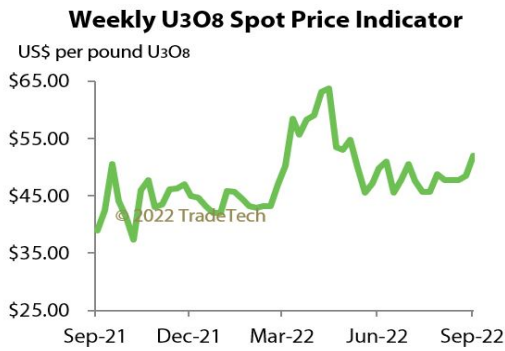
	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk ²	vs 2021
Total Carloads	231,258	-3.2%	8,784,882	231,181	0.2%
Chemicals	30,261	-5.5%	1,270,277	33,428	3.4%
Coal	70,697	1.2%	2,507,193	65,979	3.5%
Farm Products excl. Grain, and Food	15,352	-1.0%	617,219	16,243	4.0%
Forest Products	9,516	-6.9%	373,140	9,819	-2.2%
Grain	19,540	-10.4%	828,752	21,809	-4.4%
Metallic Ores and Metals	20,708	-14.1%	798,233	21,006	-7.4%
Motor Vehicles and Parts	13,165	13.9%	497,889	13,102	1.4%
Nonmetallic Minerals	34,436	1.1%	1,191,501	31,355	4.2%
Petroleum and Petroleum Products	9,404	-10.0%	360,381	9,484	-10.8%
Other	8,179	-11.6%	340,297	8,955	-9.2%
Total Intermodal Units	257,853	-5.4%	9,998,106	263,108	-5.1%
Total Traffic	489,111	-4.4%	18,782,988	494,289	-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.

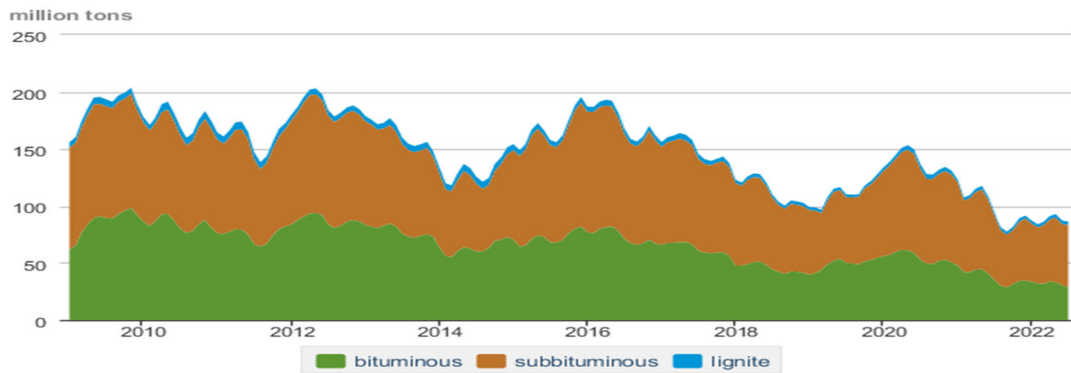
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

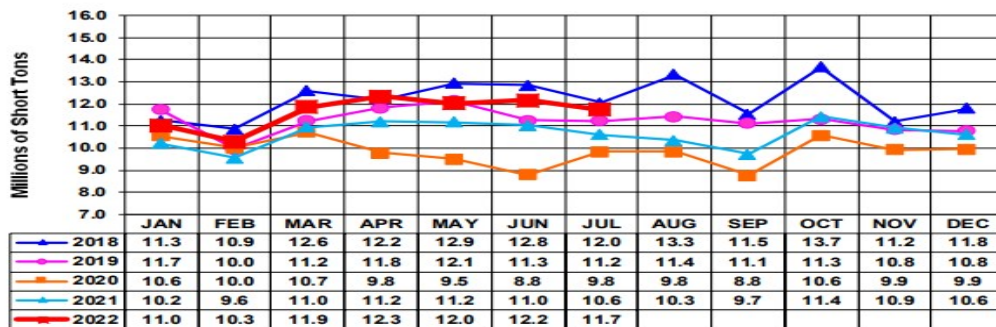
Coal stocks by type, January 2009 - July 2022



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.

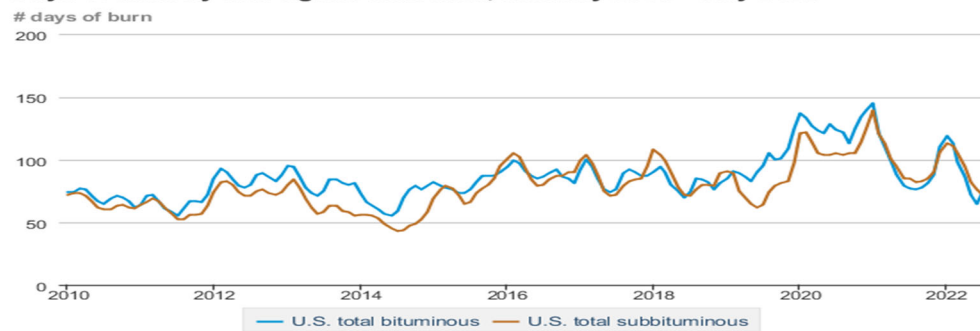
Source: Waterborne Commerce Statistics Center

Average weekly coal commodity spot prices *dollars per short ton*

	Week ending					Week ago
	08/26/22	09/02/22	09/09/22	09/16/22	09/23/22	change
Central Appalachia <i>12,500 Btu, 1.2 SO₂</i>	\$187.15	\$192.90	\$192.90	\$198.85	\$198.85	\$0.00
Northern Appalachia <i>13,000 Btu, < 3.0 SO₂</i>	\$145.85	\$176.50	\$176.50	\$181.95	\$181.95	\$0.00
Illinois Basin <i>11,800 Btu, 5.0 SO₂</i>	\$189.70	\$196.65	\$196.65	\$196.75	\$196.75	\$0.00
Powder River Basin <i>8,800 Btu, 0.8 SO₂</i>	\$16.25	\$16.20	\$16.20	\$16.15	\$16.15	\$0.00
Uinta Basin <i>11,700 Btu, 0.8 SO₂</i>	\$42.85	\$42.70	\$42.70	\$42.55	\$42.55	\$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 - July 2022



Source: U.S. Energy Information Administration

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

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

Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	7	-16	0	18	12	-1
Middle Atlantic	6	-10	2	24	8	-7
E N Central	16	-4	7	14	-2	-19
W N Central	20	-7	8	22	-1	-19
South Atlantic	1	-1	1	67	1	-6
E S Central	4	1	2	47	-7	-9
W S Central	1	-1	1	77	-11	-8
Mountain	22	-8	19	37	-6	-29
Pacific	2	-7	-2	43	10	-11
United States	9	-6	4	41	1	-12

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

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	July 2022		July 2021		% Change of Stocks	June 2022		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	1,672	365	2,090	328	-20.0%	1,644	298	1.7%
	Subbituminous	-	-	-	-	-	-	-	-
South	Bituminous	10,833	56	12,915	64	-16.1%	11,374	53	-4.8%
	Subbituminous	3,254	38	3,919	45	-17.0%	3,602	40	-9.6%
Midwest	Bituminous	6,748	65	7,219	66	-6.5%	6,925	59	-2.6%
	Subbituminous	15,941	93	20,789	107	-23.3%	19,048	92	-16.3%
West	Bituminous	3,221	159	2,452	120	31.4%	3,279	156	-1.8%
	Subbituminous	15,571	70	19,315	80	-19.4%	18,135	78	-14.1%
U.S. Total	Bituminous	22,473	74	24,675	77	-8.9%	23,222	65	-3.2%
	Subbituminous	34,766	72	44,023	85	-21.0%	40,785	76	-14.8%

Source: Energy Information Administration, *Electricity Monthly Update*

EIA Working Natural Gas Underground Storage

Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2022-09-16	2022-09-09	change
East	690	661	29
Midwest	844	809	35
Mountain	168	163	5
Pacific	237	235	2
South Central	935	904	31
Total	2,874	2,771	103

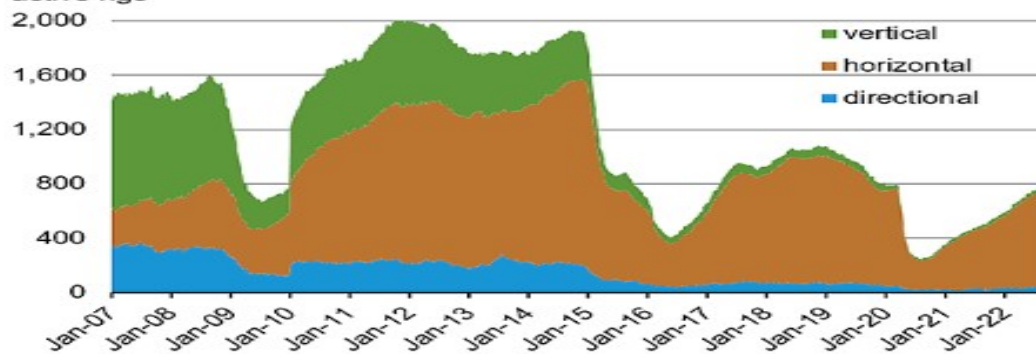
Data source: U.S. Energy Information Administration Form EIA-912, *Weekly Underground Natural Gas Storage Report*

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		
	September 2022	October 2022	change	September 2022	October 2022	change
Anadarko	711	713	2	3,835	3,843	8
Appalachia	191	191	-	27,855	27,869	14
Bakken	1,732	1,735	3	2,537	2,552	15
Eagle Ford	1,688	1,654	(34)	6,386	6,258	(128)
Haynesville	20	20	-	10,912	10,858	(54)
Niobrara	1,500	1,485	(15)	3,759	3,703	(56)
Permian	1,083	1,078	(5)	2,127	2,116	(11)
Rig-weighted average	997	996	(1)	5,671	5,587	(84)

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

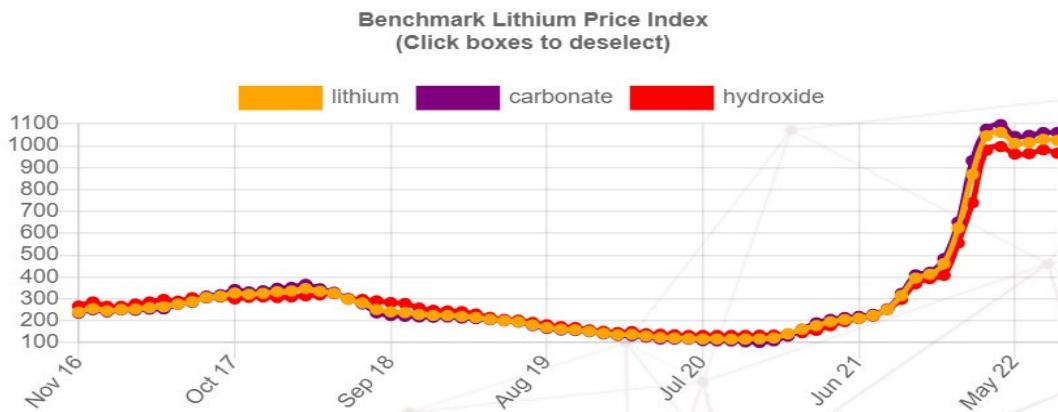
Cobalt and Lithium Prices

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/>