



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

September 23, 2022 Edition

(Data for Week Ending September 17, 2022)

Prepared by

National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

Vol. 60, No. 38 | Dated 09/23/22

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	09/17/22	09/18/21	% Chg	09/17/22	09/17/21	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	12,484	11,700	6.7%	425,580	409,674	3.9%
52 Weeks Ended	591,816	561,484	5.4%			
AAR Coal Rail Cars Loaded:	72,774	68,820	5.7%	2,443,737	2,358,213	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		% Chg	Jan - July 22/21		% 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		
	09/17/22	09/18/21	% Chg	09/17/22	09/18/21	% Chg
EEl Electric Total Output (Mil. Kwh)	78,471	81,776	-4.0%	3,099,677	3,010,075	3.0%
EEl Coal Region Output (Mil. Kwh)	67,894	71,248	-4.7%	2,691,967	2,608,829	3.2%
AISI Raw Steel Output (000 Tons)	1,694	1,839	-7.9%	64,735	67,369	-3.9%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	09/16/22	09/09/22	% Chg	Wed.	09/14/22
Central App, 12,500 Btu, 1.2 SO ₂	\$198.85	\$192.90	3.1%	Henry Hub	8.69
Northern App, 13,000 Btu, < 3.0 SO ₂	181.95	176.50	3.1%	New York	7.80
Illinois Basin, 11,800, 5.0 SO ₂	196.75	196.65	0.1%	Chicago	8.08
Powder River Basin, 8,800 Btu 0.8 SO ₂	16.15	16.20	-0.3%	Cal.Comp.Avg.	9.00
Uinta Basin, 11,700 Btu, 0.8 SO ₂	42.55	42.70	-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		
	9/17/2022 (week 38)	9/10/2022 (week 37)	9/18/2021 (week 38)	9/17/2022	9/17/2021	% Change	9/17/2022	9/18/2021	% Change
Alabama	159	148	177	6,645	7,146	-7.0	8,921	10,247	-12.9
Alaska	18	18	18	681	737	-7.6	984	1,040	-5.4
Colorado	320	290	267	9,655	7,902	22.2	13,593	10,823	25.6
Illinois	668	600	637	27,048	27,841	-2.8	35,972	36,759	-2.1
Indiana	443	396	395	15,527	13,790	12.6	21,156	18,990	11.4
Kentucky total	571	527	502	20,174	18,591	8.5	27,944	25,611	9.1
Eastern (KY)	249	232	199	8,582	6,968	23.2	11,718	9,323	25.7
Western (KY)	322	296	303	11,592	11,623	-0.3	16,226	16,287	-0.4
Louisiana	8	6	8	226	211	7.2	314	304	3.3
Maryland	27	24	26	959	920	4.2	1,298	1,216	6.7
Mississippi	77	65	68	2,435	2,374	2.6	3,253	2,840	14.5
Missouri	s	s	s	40	37	7.1	47	80	-41.3
Montana	655	579	616	21,150	19,999	5.8	29,651	27,587	7.5
New Mexico	233	184	160	7,355	6,133	19.9	10,466	8,634	21.2
North Dakota	538	503	571	18,952	19,247	-1.5	26,143	26,512	-1.4
Ohio	57	52	57	1,913	1,913	s	2,752	2,805	-1.9
Oklahoma	s	s	s	1	s	91.2	1	s	100.0
Pennsylvania total	761	695	726	28,403	31,081	-8.6	39,650	41,992	-5.6
Anthracite (PA)	52	43	40	1,715	1,420	20.8	2,402	2,053	17.0
Bituminous (PA)	709	652	686	26,688	29,661	-10.0	37,248	39,939	-6.7
Tennessee	.	.	.	s	.	100.0	s	.	.
Texas	396	357	379	12,237	11,718	4.4	17,720	17,170	3.2
Utah	242	216	247	8,190	8,907	-8.1	11,685	12,506	-6.6
Virginia	231	204	227	7,696	7,757	-0.8	10,812	10,674	1.3
West Virginia total	1,653	1,512	1,475	59,239	55,951	5.9	81,716	75,394	8.4
Northern (WV)	911	852	813	32,895	31,342	5.0	45,908	42,885	7.0
Southern (WV)	742	661	661	26,344	24,609	7.0	35,808	32,509	10.1
Wyoming	5,425	4,903	5,145	177,054	167,419	5.8	247,739	230,301	7.6
Appalachian total	3,137	2,866	2,887	113,438	111,736	1.5	156,867	151,653	3.4
Interior total	1,914	1,720	1,790	69,105	67,594	2.2	94,688	92,429	2.4
Western total	7,432	6,693	7,023	243,037	230,344	5.5	340,261	317,402	7.2
East of Mississippi River	4,647	4,222	4,289	170,040	167,364	1.6	233,474	226,528	3.1
West of Mississippi River	7,837	7,057	7,411	255,540	242,310	5.5	358,343	334,956	7.0
Bituminous and lignite	12,432	11,236	11,661	423,865	408,254	3.8	589,414	559,431	5.4
Anthracite	52	43	40	1,715	1,420	20.8	2,402	2,053	17.0
U.S. total	12,484	11,279	11,700	425,580	409,674	3.9	591,816	561,484	5.4
Railroad cars loaded	72,774	67,492	68,820	2,443,737	2,358,213	3.6	3,411,445	3,247,147	5.1

Source: Energy Information Administration

EEI

Weekly Electric Output

Volume 90 No. 38

OUTPUT FOR WEEK ENDED - Sep 17, 2022

Sep 21, 2022

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Sep 17, 2022** was **78,471** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **187** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended September 17		52 Weeks Ended September 17	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	2,147	-7.9	116,355	0.3
Mid-Atlantic	7,914	-11.9	420,290	0.9
Central Industrial	11,803	-10.6	657,318	1.6
West Central	6,442	-2.5	340,729	2.5
Southeast	19,377	-4.2	1,033,794	2.4
South Central	16,783	4.1	827,410	7.4
Rocky Mountain	5,575	-8.6	293,871	-0.1
Pacific Northwest	2,526	-0.1	160,425	1.7
Pacific Southwest	5,904	4.2	272,045	1.0
Total United States	78,471	-4.0	4,122,237	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)
Aug 27	87,491	Aug 28	93,467	-6.4	Aug 27	4,118,759	2.9
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 17	3,099,677	Sep 18	3,010,075	3.0	YEAR TO DATE, FIRST 38 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2022	Week Ended	2021	Week Ended	2020
Aug 27	192	Aug 28	196	Aug 29	187
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

* 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		
	17-Sep 2022 GWh Output	18-Sep 2021 GWh Output	% Increase Over Corresponding Week	17-Sep 2022 GWh Output	18-Sep 2021 GWh Output	% Increase Over Corresponding Week	17-Sep 2022 GWh Output	18-Sep 2021 GWh Output	% Increase Over Corresponding Week
New England	2,147	2,332	-7.9%	86,833	86,408	0.5%	116,355	115,982	0.3%
Mid-Atlantic	7,914	8,984	-11.9%	316,435	314,443	0.6%	420,290	416,502	0.9%
Central Industrial	11,803	13,208	-10.6%	494,153	487,875	1.3%	657,318	646,929	1.6%
West Central	6,442	6,611	-2.6%	254,862	249,270	2.2%	340,729	332,342	2.5%
Southeast	19,377	20,221	-4.2%	776,986	758,029	2.5%	1,033,794	1,009,393	2.4%
South Central	16,783	16,125	4.1%	630,566	581,171	8.5%	827,410	770,642	7.4%
Rocky Mountain	5,575	6,099	-8.6%	218,965	218,041	0.4%	293,871	294,298	-0.1%
Pacific Northwest	2,526	2,529	-0.1%	118,334	116,085	1.9%	160,425	157,770	1.7%
Pacific Southwest	5,904	5,667	4.2%	202,543	198,757	1.9%	272,045	269,291	1.0%
Total United States ^{1/}	78,471	81,776	-4.0%	3,099,677	3,010,079	3.0%	4,122,237	4,013,149	2.7%
Coal Regions Only ^{2/}	67,894	71,248	-4.7%	2,691,967	2,608,829	3.2%	3,573,412	3,470,106	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.

^{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 19, 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 17</u>	<u>Week Ending Sep 10</u>	
<u>Week Ending</u>				North East	142	146
				Great Lakes	562	568
September 17, 2022	1,694	-1.7	76.9	Midwest	195	199
September 17, 2021	1,839	-7.9	83.3	Southern	727	740
September 10, 2022	1,723	0.5	78.2	Western	68	70
				Total	1,694	1,723
<u>Year-to-Date +</u>						
September 17, 2022	64,735	-3.9	79.7			
September 17, 2021	67,369	-	81.0			

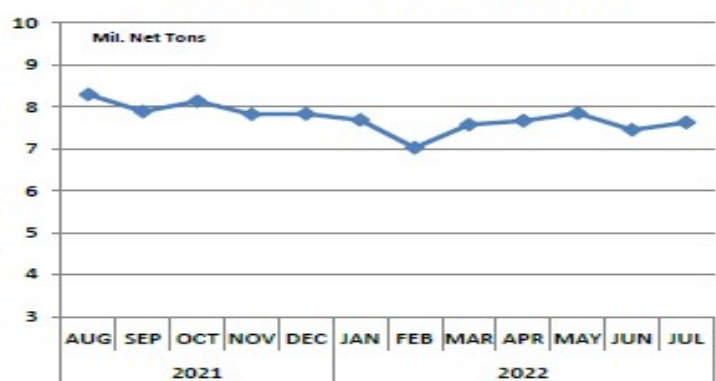
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides 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 37, 2022 – Ended September 17, 2022

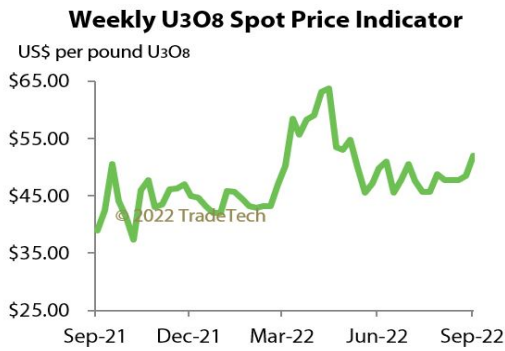
	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk ²	vs 2021
Total Carloads	239,528	2.0%	8,553,624	231,179	0.3%
Chemicals	32,977	6.3%	1,240,016	33,514	3.6%
Coal	72,774	5.7%	2,436,496	65,851	3.6%
Farm Products excl. Grain, and Food	16,377	5.4%	601,867	16,267	4.1%
Forest Products	9,076	-13.0%	363,624	9,828	-2.0%
Grain	19,199	-1.1%	809,212	21,871	-4.2%
Metallic Ores and Metals	21,581	-12.9%	777,525	21,014	-7.2%
Motor Vehicles and Parts	13,879	18.7%	484,724	13,101	1.1%
Nonmetallic Minerals	35,163	7.6%	1,157,065	31,272	4.3%
Petroleum and Petroleum Products	10,252	-2.3%	350,977	9,486	-10.8%
Other	8,250	-16.4%	332,118	8,976	-9.2%
Total Intermodal Units	251,126	-7.3%	9,740,253	263,250	-5.1%
Total Traffic	490,654	-2.9%	18,293,877	494,429	-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.

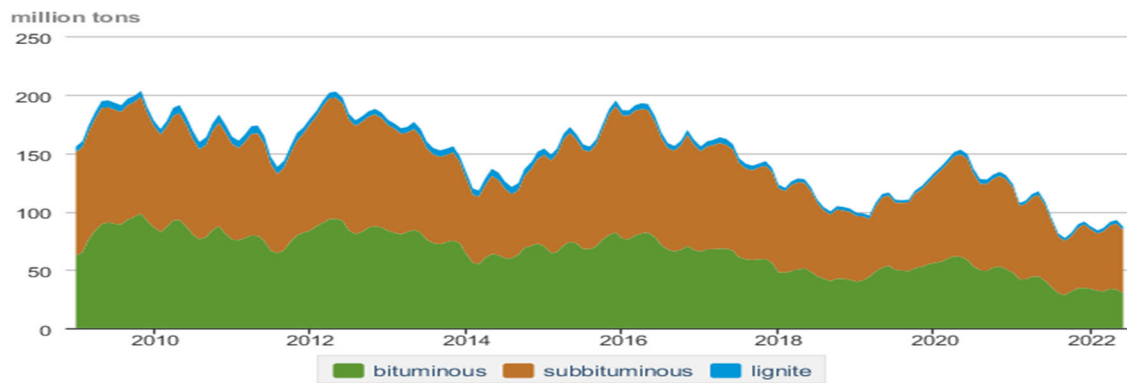
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

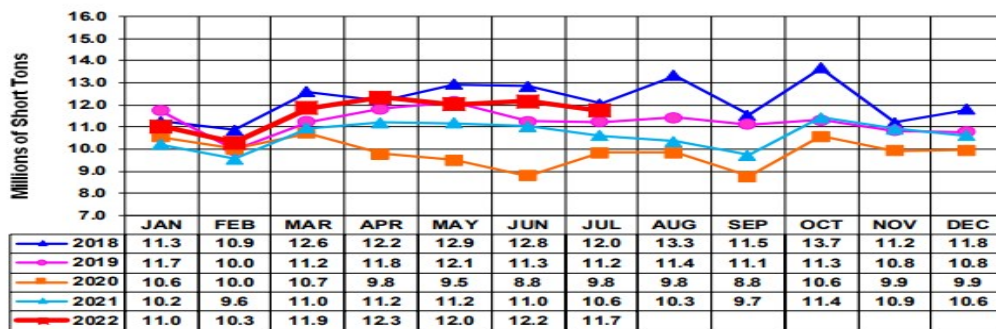
Coal stocks by type, January 2009 - June 2022



Source: U.S. Energy Information Administration

Source: Energy Information Administration, Electric Monthly Update

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



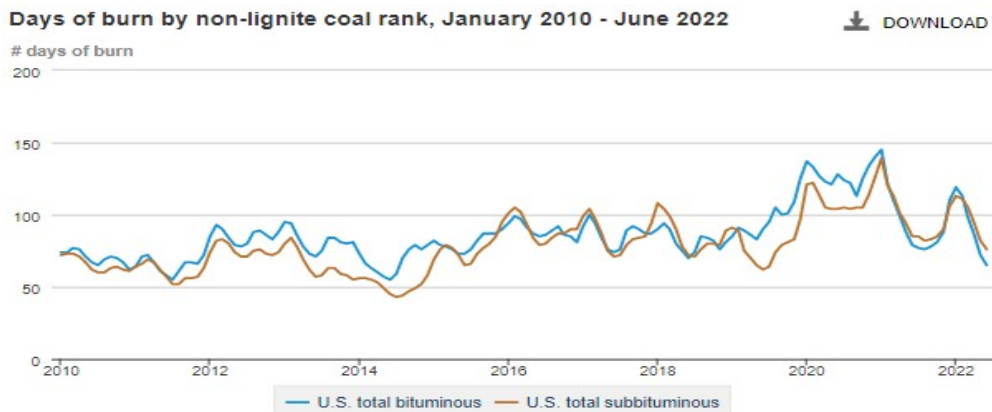
For the Internal U.S. Waterway Monthly Indicators, estimates for the most recent month are based on lock performance management data. The estimates will be superseded by actual data as it becomes available.

Source: Waterborne Commerce Statistics Center

Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	08/19/22	08/26/22	09/02/22	09/09/22	09/16/22	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$187.15	\$187.15	\$192.90	\$192.90	\$198.85	\$5.95
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$145.85	\$145.85	\$176.50	\$176.50	\$181.95	\$5.45
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$189.70	\$189.70	\$196.65	\$196.65	\$196.75	\$0.10
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$16.25	\$16.25	\$16.20	\$16.20	\$16.15	\$-0.05
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$42.85	\$42.85	\$42.70	\$42.70	\$42.55	\$-0.15

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



Source: U.S. Energy Information Administration

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

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

Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	10	-4	1	9	-2	-1
Middle Atlantic	2	-6	-5	33	9	15
E N Central	4	-8	-7	35	12	15
W N Central	5	-13	-3	46	13	7
South Atlantic	0	-1	-1	87	14	15
E S Central	0	-1	0	75	10	13
W S Central	0	-1	0	98	-1	-23
Mountain	0	-23	-2	85	35	24
Pacific	1	-7	0	97	61	43
United States	2	-7	-3	66	19	14

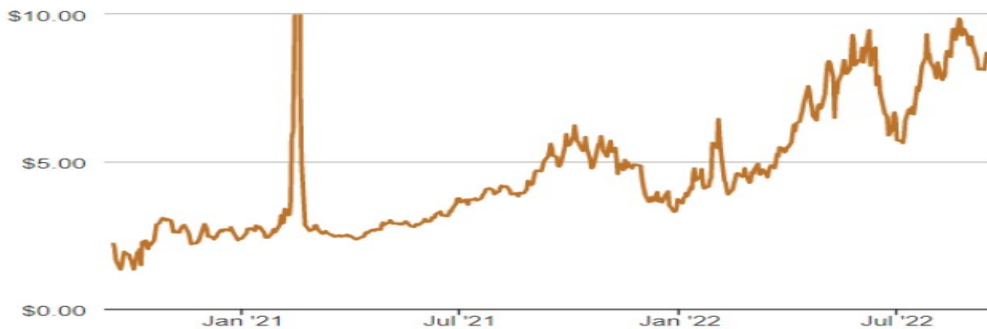
Data source: National Oceanic and Atmospheric Administration
Note: HDDs=heating degree days; CDDs=cooling degree days

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

USGS Production of Selected Mineral Commodities	2022 Year to Date - 1st Quarter	2021 Year to Date - 1st Quarter	Percent Change
Aluminum, secondary (000 Mt.)	215.0	209.0	3%
Cement (Mil. Mt.)	19.1	18.1	6%
Copper (000 Mt.)	321.0	297.0	8%
Gold (Mt.)	52.5	44.7	17%
Gypsum (Mil. Mt.)	4.3	4.6	-7%
Iron Ore (Mil. Mt.)	10.5	13.2	-20%
Lead (000 Mt.)	68.2	72.6	-6%
Molybdenum (000 Mt.)	9.0	13.1	-31%
Palladium (Mt.)	2.9	3.7	-22%
Phosphate rock (Mil. Mt.)	4.6	5.3	-13%
Platinum (Mt.)	0.9	1.1	-18%
Sand & gravel, construction (Mil. Mt.)	185.0	176.0	5%
Silver (Mt.)	255.0	255.0	0%
Soda ash (Mil. Mt.)	2.8	2.7	4%
Stone, crushed (Mil. Mt.)	291.0	281.0	4%
Zinc (000 Mt.)	180.0	163.0	10%

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	June 2022		June 2021		% Change of Stocks	May 2022		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	1,644	298	2,627	365	-37.4%	1,384	270	18.8%
	Subbituminous								
South	Bituminous	11,374	53	14,613	65	-22.2%	12,155	63	-6.4%
	Subbituminous	3,602	40	4,931	54	-27.0%	3,503	45	2.8%
Midwest	Bituminous	6,925	59	8,801	73	-21.3%	7,010	65	-1.2%
	Subbituminous	19,048	92	23,351	106	-18.4%	19,538	92	-2.5%
West	Bituminous	3,279	156	2,770	134	18.4%	3,143	147	4.3%
	Subbituminous	18,135	78	21,522	82	-15.7%	19,578	88	-7.4%
U.S. Total	Bituminous	23,222	65	28,810	79	-19.4%	23,692	72	-2.0%
	Subbituminous	40,785	76	49,804	85	-18.1%	42,619	82	-4.3%

Source: Energy Information Administration, *Electricity Monthly Update*

EIA Working Natural Gas Underground Storage

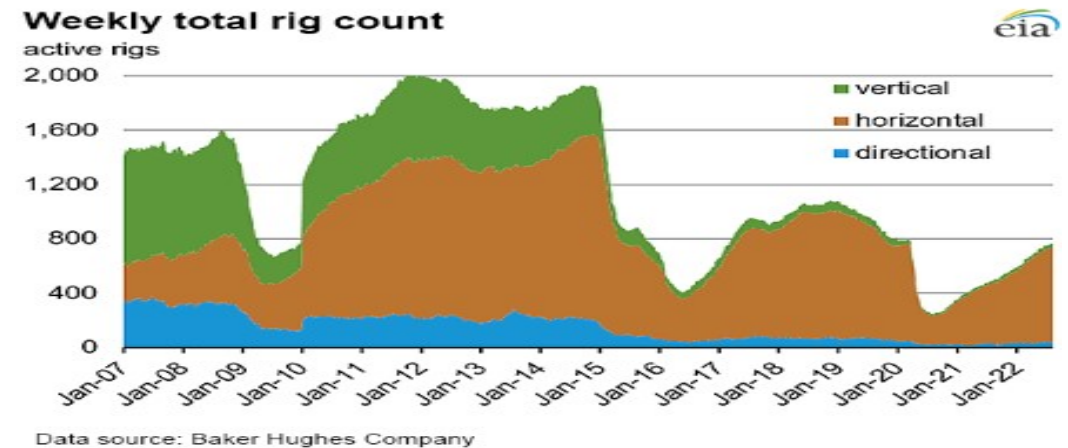
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2022-09-09	2022-09-02	change
East	661	635	26
Midwest	809	776	33
Mountain	163	159	4
Pacific	235	238	-3
South Central	904	887	17
Total	2,771	2,694	77

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					
	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

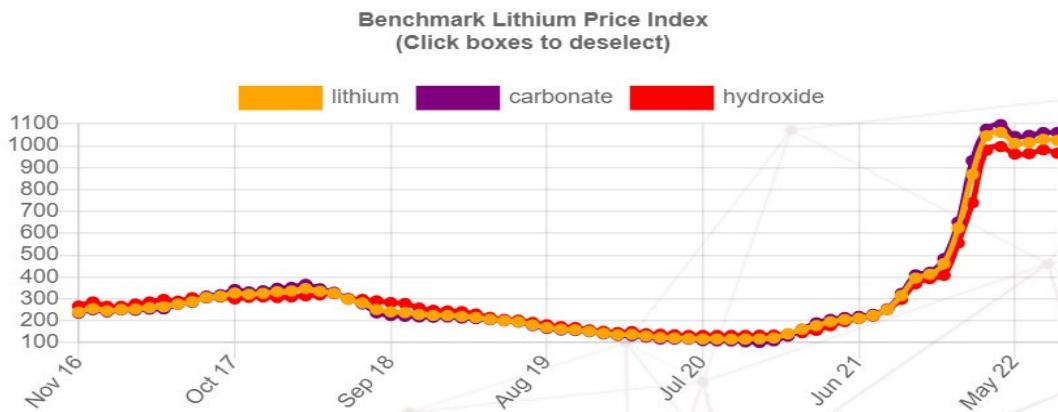
Cobalt and Lithium Prices

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/>