



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

September 2, 2022 Edition
(Data for Week Ending August 27, 2022)

Prepared by
National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

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PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	08/27/22	08/28/21	% Chg	08/27/22	08/27/21	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	12,571	11,618	8.2%	385,403	375,040	2.8%
52 Weeks Ended	586,302	558,722	4.9%			
AAR Coal Rail Cars Loaded:	74,295	68,330	8.7%	2,230,478	2,152,582	3.6%
Coal Production	July 22/21		% Chg	Jan - July 22/21		% Chg
Month Ended - July	48,978	50,334	-2.7%	341,410	339,714	0.5%

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

	June 22/21			Jan - June 22/21		
			% Chg			% Chg
Exports:						
Metallurgical	4,551	4,254	7.0%	23,541	22,038	6.8%
Steam Bit. *	2,967	3,565	-16.8%	19,440	20,598	-5.6%
Lignite	7	7	0.0%	42	41	2.4%
Anthracite	68	13	423.1%	191	189	1.1%
Total	7,593	7,839	-3.1%	43,214	42,866	0.8%
Imports:	627	509	23.2%	2,958	2,605	13.6%

	Week Ended			Cumulative Week 1 to		
	08/27/22	08/28/21	% Chg	08/27/22	08/28/21	% Chg
EEl Electric Total Output (Mil. Kwh)	87,491	93,467	-6.4%	2,849,411	2,763,287	3.1%
EEl Coal Region Output (Mil. Kwh)	75,604	82,142	-8.0%	2,476,841	2,394,593	3.4%
AISI Raw Steel Output (000 Tons)	1,747	1,872	-6.7%	59,715	61,832	-3.4%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	08/26/22	08/19/22	% Chg	Wed.	08/24/22
Central App, 12,500 Btu, 1.2 SO ₂	\$187.15	\$187.15	0.0%	Henry Hub	9.29
Northern App, 13,000 Btu, < 3.0 SO ₂	145.85	145.85	0.0%	New York	8.83
Illinois Basin, 11,800, 5.0 SO ₂	189.70	189.70	0.0%	Chicago	8.80
Powder River Basin, 8,800 Btu 0.8 SO ₂	16.25	16.25	0.0%	Cal.Comp.Avg.	9.34
Uinta Basin, 11,700 Btu, 0.8 SO ₂	42.85	42.85	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		
	8/27/2022 (week 35)	8/20/2022 (week 34)	8/28/2021 (week 35)	8/27/2022	8/27/2021	% Change	8/27/2022	8/28/2021	% Change
Alabama	146	137	176	5,521	6,622	-16.6	8,320	10,405	-20.0
Alaska	18	18	18	639	684	-6.6	995	1,041	-4.4
Colorado	316	291	265	8,180	7,110	15.0	12,910	10,613	21.6
Illinois	648	592	633	23,255	25,954	-10.4	34,066	36,656	-7.1
Indiana	416	379	392	12,910	12,621	2.3	19,708	18,982	3.8
Kentucky total	557	523	498	17,889	17,106	4.6	27,144	25,645	5.8
Eastern (KY)	247	234	197	7,481	6,380	17.3	11,205	9,217	21.6
Western (KY)	310	289	301	10,408	10,726	-3.0	15,939	16,428	-3.0
Louisiana	8	7	8	190	186	2.0	303	294	3.1
Maryland	28	24	26	835	843	-0.9	1,252	1,193	4.9
Mississippi	72	62	67	2,106	2,174	-3.1	3,124	2,850	9.6
Missouri	s	s	s	31	37	-16.3	38	89	-57.3
Montana	668	601	611	19,070	18,176	4.9	29,394	27,242	7.9
New Mexico	205	165	159	6,144	5,660	8.5	9,729	8,817	10.3
North Dakota	544	518	569	17,447	17,577	-0.7	26,338	26,404	-0.2
Ohio	54	49	57	1,656	1,746	-5.1	2,665	2,837	-6.1
Oklahoma	s	s	s	1	s	NM	1	s	100.0
Pennsylvania total	777	723	721	26,937	28,929	-6.9	40,336	41,936	-3.8
Anthracite (PA)	47	40	40	1,410	1,301	8.4	2,215	2,078	6.6
Bituminous (PA)	730	683	682	25,527	27,628	-7.6	38,122	39,858	-4.4
Texas	379	347	377	10,583	10,594	-0.1	17,190	17,261	-0.4
Utah	247	224	245	7,842	8,175	-4.1	12,069	12,557	-3.9
Virginia	245	220	225	7,261	7,085	2.5	11,049	10,502	5.2
West Virginia total	1,653	1,538	1,463	53,070	51,576	2.9	79,910	74,963	6.6
Northern (WV)	907	861	808	29,483	28,934	1.9	44,905	42,746	5.1
Southern (WV)	747	677	656	23,587	22,642	4.2	35,005	32,217	8.7
Wyoming	5,589	5,140	5,108	163,836	152,184	7.7	249,761	228,434	9.3
Appalachian total	3,149	2,926	2,865	102,761	103,181	-0.4	154,737	151,054	2.4
Interior total	1,834	1,676	1,777	59,483	62,293	-4.5	90,369	92,560	-2.4
Western total	7,587	6,957	6,975	223,158	209,566	6.5	341,196	315,108	8.3
East of Mississippi River	4,595	4,248	4,258	151,440	154,656	-2.1	227,574	225,970	0.7
West of Mississippi River	7,975	7,311	7,360	233,963	220,384	6.2	358,729	332,752	7.8
Bituminous and lignite	12,524	11,520	11,578	383,993	373,739	2.7	584,088	556,645	4.9
Anthracite	47	40	40	1,410	1,301	8.4	2,215	2,078	6.6
U.S. total	12,571	11,559	11,618	385,403	375,040	2.8	586,302	558,722	4.9
Railroad cars loaded	74,295	68,280	68,330	2,230,478	2,152,582	3.6	3,403,883	3,224,026	5.0

Source: Energy Information Administration

EEI

Weekly Electric Output

Volume 90 No. 35

OUTPUT FOR WEEK ENDED - Aug 27, 2022

Aug 31, 2022

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Aug 27, 2022** was **87,491** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **192** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended August 27		52 Weeks Ended August 27	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	2,634	-7.8	116,420	0.7
Mid-Atlantic	9,699	-6.2	420,221	1.3
Central Industrial	13,054	-15.0	657,845	2.2
West Central	7,095	-9.3	340,364	3.1
Southeast	21,663	-6.2	1,032,995	2.4
South Central	17,686	-6.2	827,324	7.7
Rocky Mountain	6,407	-3.7	293,771	0.3
Pacific Northwest	2,758	8.3	160,220	1.7
Pacific Southwest	6,495	9.7	269,599	0.2
Total United States	87,491	-6.4	4,118,759	2.9

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2022	Week Ended	2021	% Inc. (22/21)	52 Weeks Ended	2022	% Inc. (22/21)
Aug 06	96,094	Aug 07	86,013	11.7	Aug 06	4,129,180	3.4
Aug 13	91,862	Aug 14	93,435	-1.7	Aug 13	4,127,606	3.3
Aug 20	86,685	Aug 21	89,556	-3.2	Aug 20	4,124,735	3.1
Aug 27	87,491	Aug 28	93,467	-6.4	Aug 27	4,118,759	2.9
Aug 27	2,849,411	Aug 28	2,763,287	3.1	YEAR TO DATE, FIRST 35 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2022	Week Ended	2021	Week Ended	2020
Aug 06	190	Aug 07	169	Aug 08	172
Aug 13	197	Aug 14	192	Aug 15	183
Aug 20	190	Aug 21	187	Aug 22	175
Aug 27	192	Aug 28	196	Aug 29	187

* 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		
	27-Aug 2022 GWh Output	28-Aug 2021 GWh Output	% Increase Over Corresponding Week	27-Aug 2022 GWh Output	28-Aug 2021 GWh Output	% Increase Over Corresponding Week	27-Aug 2022 GWh Output	28-Aug 2021 GWh Output	% Increase Over Corresponding Week
New England	2,634	2,856	-7.8%	80,042	79,552	0.6%	116,420	115,586	0.7%
Mid-Atlantic	9,699	10,341	-6.2%	290,787	288,863	0.7%	420,221	414,984	1.3%
Central Industrial	13,054	15,364	-15.0%	456,414	449,608	1.5%	657,845	643,821	2.2%
West Central	7,095	7,826	-9.3%	234,429	229,201	2.3%	340,364	330,282	3.1%
Southeast	21,663	23,103	-6.2%	714,656	696,499	2.6%	1,032,995	1,009,259	2.4%
South Central	17,686	18,854	-6.2%	580,412	531,102	9.3%	827,324	768,353	7.7%
Rocky Mountain	6,407	6,654	-3.7%	200,143	199,320	0.4%	293,771	293,011	0.3%
Pacific Northwest	2,758	2,546	8.3%	110,413	108,369	1.9%	160,220	157,556	1.7%
Pacific Southwest	6,495	5,923	9.7%	182,115	180,776	0.7%	269,599	269,184	0.2%
Total United States ^{1/}	87,491	93,467	-6.4%	2,849,411	2,763,290	3.1%	4,118,759	4,002,036	2.9%
Coal Regions Only ^{2/}	75,604	82,142	-8.0%	2,476,841	2,394,593	3.4%	3,572,520	3,459,710	3.3%

Notes: EEl 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. EEl 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 (EEl), *Weekly Electric Output Report*.

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August 29, 2022

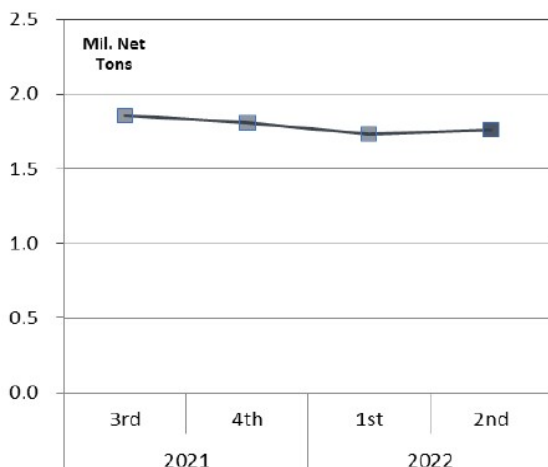
ESTIMATED WEEKLY RAW STEEL * PRODUCTION

<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 Aug 27</u>	<u>Week Ending Aug 20</u>	
<u>Week Ending</u>				North East	164	162
				Great Lakes	560	555
August 27, 2022	1,747	-0.5	79.3	Midwest	202	205
August 27, 2021	1,872	-6.7	84.8	Southern	758	765
August 20, 2022	1,756	0.8	79.7	Western	63	69
				Total	1,747	1,756
<u>Year-to-Date +</u>						
August 27, 2022	59,715	-3.4	80.1			
August 27, 2021	61,832	-	80.7			

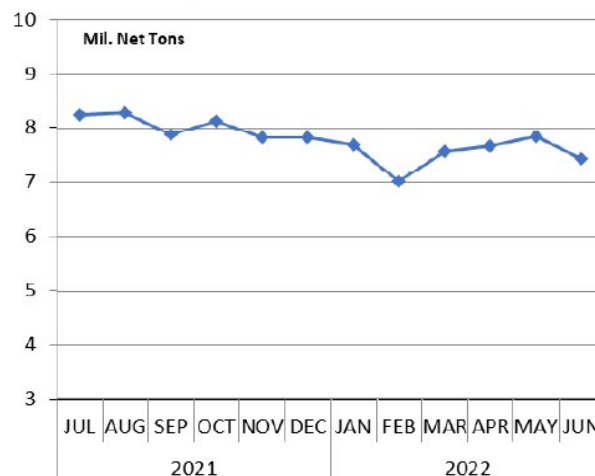
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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





Source: Kitco website - www.kitco.com/connecting.html

U.S. Rail Traffic¹
Week 34, 2022 – Ended August 27, 2022

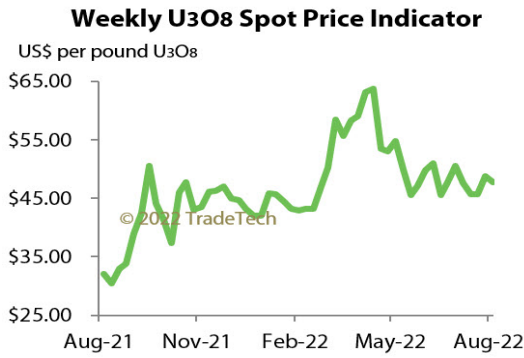
	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk ²	vs 2021
Total Carloads	242,633	3.4%	7,849,281	230,861	0.10%
Chemicals	32,700	-0.8%	1,144,112	33,650	3.6%
Coal	74,295	8.6%	2,223,231	65,389	3.6%
Farm Products excl. Grain, and Food	15,913	8.7%	553,469	16,279	4.0%
Forest Products	9,834	-4.1%	335,187	9,858	-1.7%
Grain	19,458	12.9%	751,457	22,102	-5.1%
Metallic Ores and Metals	23,112	-2.8%	713,954	20,999	-7.0%
Motor Vehicles and Parts	14,624	9.9%	443,643	13,048	-0.3%
Nonmetallic Minerals	33,151	-0.3%	1,056,755	31,081	4.2%
Petroleum and Petroleum Products	9,642	-11.3%	321,770	9,464	-11.4%
Other	9,904	0.0%	305,703	8,991	-8.8%
Total Intermodal Units	268,941	-0.3%	8,976,594	264,017	-5.3%
Total Traffic	511,574	1.4%	16,825,875	494,879	-2.9%

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.

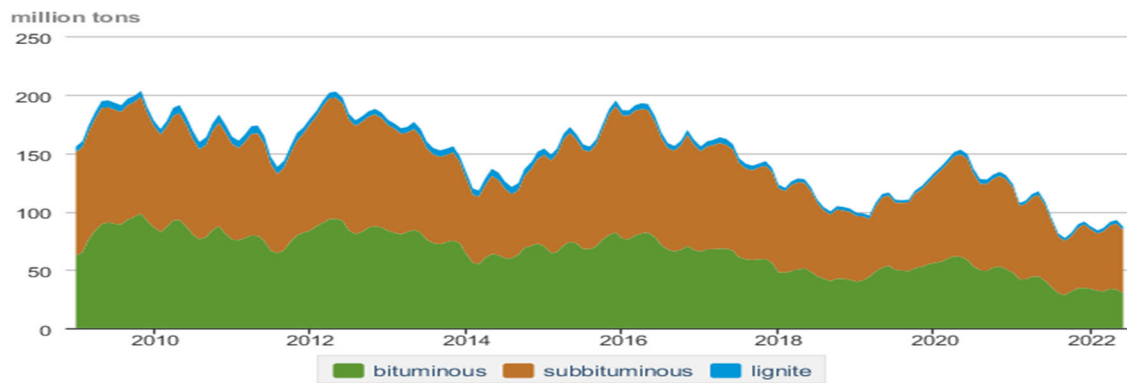
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

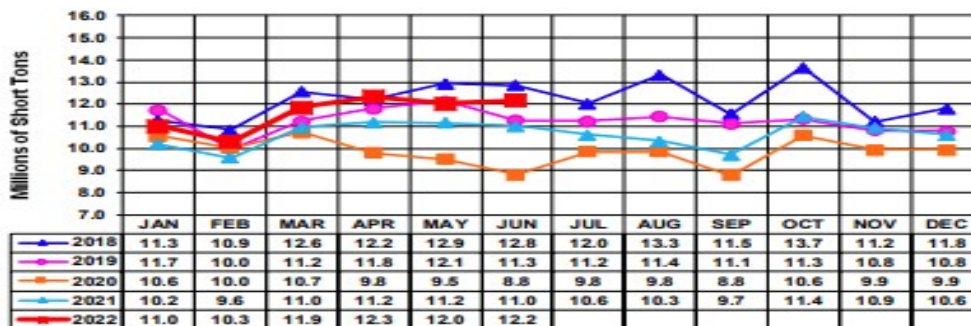
Coal stocks by type, January 2009 - June 2022



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.

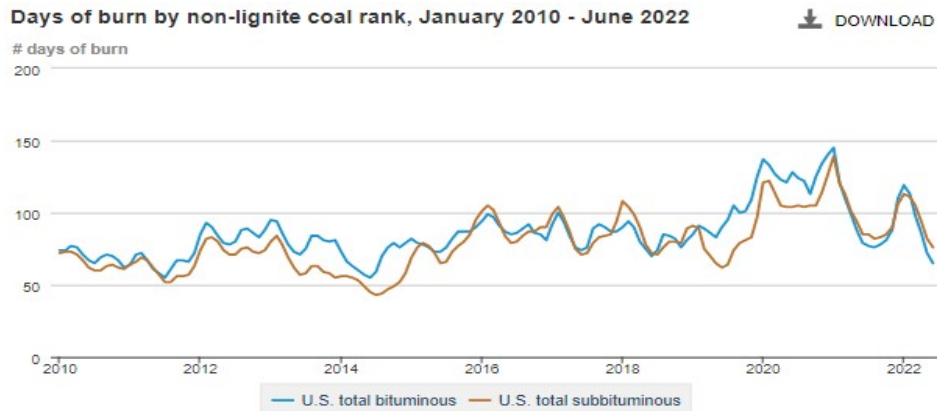
Source: Waterborne Commerce Statistics Center

Average weekly coal commodity spot prices dollars per short ton

	Week ending					Week ago change
	07/29/22	08/05/22	08/12/22	08/19/22	08/26/22	
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$177.30	\$181.55	\$181.55	\$187.15	\$187.15	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$142.55	\$141.50	\$141.50	\$145.85	\$145.85	\$0.00
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$183.50	\$186.50	\$186.50	\$189.70	\$189.70	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$16.55	\$16.30	\$16.30	\$16.25	\$16.25	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$41.50	\$43.00	\$43.00	\$42.85	\$42.85	\$0.00

Data source: With permission, S&P Global[®]

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 Aug 18)

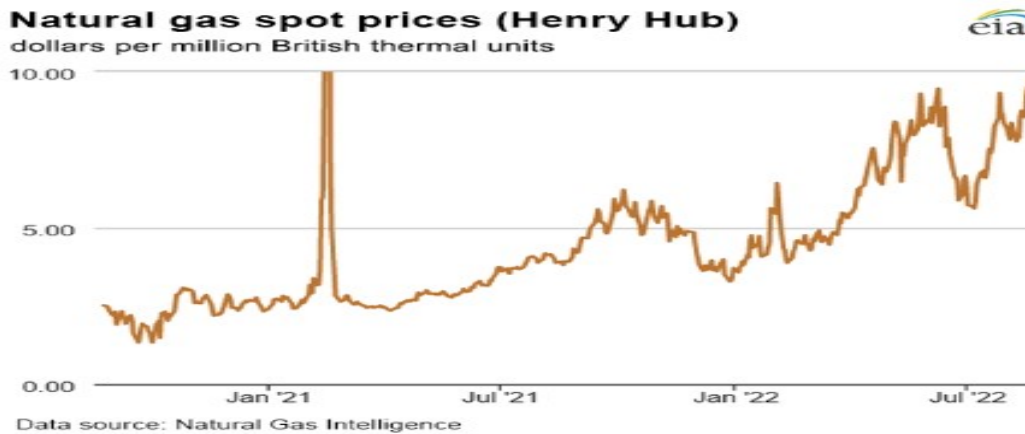
Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	3	-1	2	24	-10	-40
Middle Atlantic	3	0	3	35	-14	-41
E N Central	9	3	6	24	-22	-28
W N Central	2	-3	0	52	-8	-11
South Atlantic	0	0	0	76	-14	-31
E S Central	0	0	0	72	-15	-25
W S Central	0	0	0	126	4	8
Mountain	0	-6	-1	72	2	2
Pacific	0	-3	-1	74	30	4
United States	3	-1	2	62	-6	-19

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



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		
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	% Change of Stocks
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

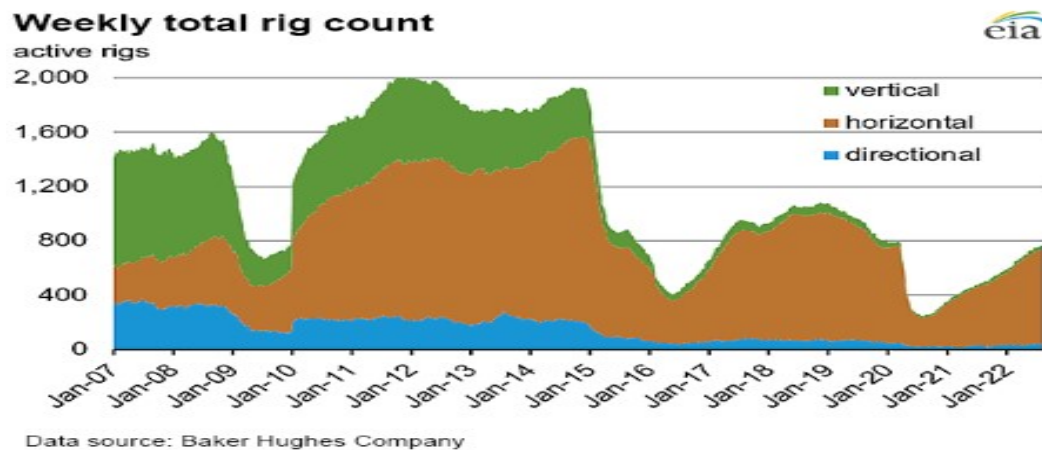
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2022-08-19	2022-08-12	change
East	598	571	27
Midwest	714	684	30
Mountain	153	151	2
Pacific	243	248	-5
South Central	871	866	5
Total	2,579	2,519	60

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					
	August 2022	September 2022	change	August 2022	September 2022	change			
Anadarko	711	713	2	3,827	3,823	(4)			
Appalachia	191	191	-	27,939	27,855	(84)			
Bakken	1,726	1,726	-	2,503	2,503	-			
Eagle Ford	1,739	1,695	(44)	6,550	6,386	(164)			
Haynesville	20	20	-	11,022	10,912	(110)			
Niobrara	1,517	1,502	(15)	3,817	3,759	(58)			
Permian	1,107	1,095	(12)	2,150	2,127	(23)			
Rig-weighted average	1,011	1,004	(7)	5,820	5,668	(152)			

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

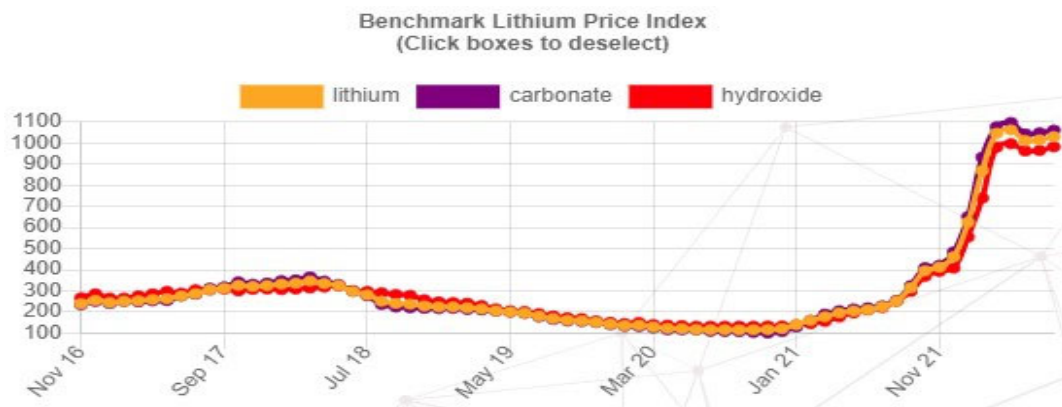
Cobalt and Lithium Prices

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/>