



NATIONAL MINING ASSOCIATION

WEEKLY STATISTICAL SUMMARY

December 2, 2022 Edition
(Data for Week Ending November 26, 2022)

Prepared by
National Mining Association

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NMA WEEKLY STATISTICAL SUMMARY

Vol. 60, No. 48 | Dated 12/02/22

PRODUCTION, CONSUMPTION & TRADE

	Week Ended			* Cumulative Jan 1 to		
	11/26/22	11/27/21	% Chg	11/26/22	11/26/21	% Chg
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	10,717	11,013	-2.7%	542,908	522,451	3.9%
52 Weeks Ended	596,456	571,691	4.3%			
AAR Coal Rail Cars Loaded:	61,740	63,947	-3.5%	3,119,097	3,014,654	3.5%
Coal Production	Oct 22/21		% Chg	Jan - Oct 22/21		% Chg
Month Ended - October	52,450	48,954	7.1%	500,264	480,030	4.2%

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

	Sep 22/21		% Chg	Jan - Sep 22/21		% Chg
Exports:						
Metallurgical	4,270	3,741	14.1%	35,129	33,429	5.1%
Steam Bit. *	2,787	2,758	1.1%	28,439	29,874	-4.8%
Lignite	6	6	0.0%	60	57	5.3%
Anthracite	<u>27</u>	<u>14</u>	92.9%	<u>334</u>	<u>235</u>	42.1%
Total	7,090	6,519	8.8%	63,962	63,595	0.6%
Imports:	531	202	162.9%	4,928	3,739	31.8%

	Week Ended			Cumulative Week 1 to		
	11/26/22	11/27/21	% Chg	11/26/22	11/27/21	% Chg
EEl Electric Total Output (Mil. Kwh)	72,870	72,312	0.8%	3,817,912	3,730,327	2.3%
EEl Coal Region Output (Mil. Kwh)	62,808	62,416	0.6%	3,311,331	3,231,644	2.5%
AISI Raw Steel Output (000 Tons)	1,625	1,828	-11.1%	81,245	85,705	-5.2%

EIA AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices (\$/Short Ton)	Week Ending			Natural Gas Spot Prices (\$/MMBtu)	
	11/25/22	11/18/22	% Chg	Wed.	11/16/22
Central App, 12,500 Btu, 1.2 SO ₂	\$187.70	\$187.70	0.0%	Henry Hub	5.74
Northern App, 13,000 Btu, < 3.0 SO ₂	191.50	191.50	0.0%	New York	7.37
Illinois Basin, 11,800, 5.0 SO ₂	186.50	186.50	0.0%	Chicago	5.70
Powder River Basin, 8,800 Btu 0.8 SO ₂	17.10	17.10	0.0%	Cal.Comp.Avg.	7.94
Uinta Basin, 11,700 Btu, 0.8 SO ₂	41.65	41.65	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		
	11/26/2022 (week 48)	11/19/2022 (week 47)	11/27/2021 (week 48)	11/26/2022	11/26/2021	% Change	11/26/2022	11/27/2021	% Change
Alabama	141	160	149	8,206	8,703	-5.7	8,928	9,696	-7.9
Alaska	17	19	21	870	940	-7.5	969	1,040	-6.8
Colorado	275	301	262	12,640	10,566	19.6	13,915	11,524	20.7
Illinois	567	631	590	33,325	33,902	-1.7	36,193	36,805	-1.7
Indiana	386	412	373	19,734	17,608	12.1	21,548	19,281	11.8
Kentucky total	510	551	521	25,753	23,827	8.1	28,284	26,099	8.4
Eastern (KY)	225	243	211	11,038	9,079	21.6	12,062	9,849	22.5
Western (KY)	285	307	310	14,715	14,749	-0.2	16,222	16,250	-0.2
Louisiana	6	6	6	289	272	6.0	316	303	4.3
Maryland	23	24	22	1,206	1,152	4.7	1,314	1,249	5.2
Mississippi	59	62	53	3,087	2,936	5.1	3,344	3,068	9.0
Missouri	s	s	1	45	42	8.8	48	55	-12.7
Montana	547	589	561	27,125	25,779	5.2	29,852	28,261	5.6
New Mexico	212	231	214	9,634	8,199	17.5	10,673	8,992	18.7
North Dakota	468	511	468	24,086	24,175	-0.4	26,363	26,517	-0.6
Ohio	51	55	56	2,469	2,481	-0.5	2,740	2,767	-1.0
Oklahoma	s	s	s	1	s	75.5	1	s	100.0
Pennsylvania total	655	707	753	35,617	38,661	-7.9	39,281	42,236	-7.0
Anthracite (PA)	47	51	47	2,223	1,879	18.3	2,449	2,083	17.6
Bituminous (PA)	608	656	707	33,395	36,782	-9.2	36,832	40,153	-8.3
Tennessee	.	.	.	s	.	100.0	s	.	.
Texas	337	367	364	15,903	15,433	3.0	17,674	17,186	2.8
Utah	208	222	231	10,466	11,279	-7.2	11,591	12,439	-6.8
Virginia	192	206	205	9,795	9,876	-0.8	10,793	10,842	-0.5
West Virginia total	1,459	1,588	1,503	75,233	71,118	5.8	82,540	77,462	6.6
Northern (WV)	823	893	875	41,904	40,091	4.5	46,160	43,872	5.2
Southern (WV)	636	695	628	33,328	31,026	7.4	36,380	33,590	8.3
Wyoming	4,605	4,900	4,661	227,425	215,503	5.5	250,089	235,868	6.0
Appalachian total	2,746	2,984	2,899	143,564	141,069	1.8	157,659	154,101	2.3
Interior total	1,640	1,786	1,696	87,098	84,942	2.5	95,346	92,950	2.6
Western total	6,332	6,773	6,418	312,246	296,441	5.3	343,452	324,640	5.8
East of Mississippi River	4,042	4,396	4,225	214,424	210,263	2.0	234,966	229,506	2.4
West of Mississippi River	6,675	7,147	6,788	328,484	312,188	5.2	361,490	342,185	5.6
Bituminous and lignite	10,670	11,492	10,967	540,685	520,572	3.9	594,007	569,608	4.3
Anthracite	47	51	47	2,223	1,879	18.3	2,449	2,083	17.6
U.S. total	10,717	11,543	11,013	542,908	522,451	3.9	596,456	571,691	4.3
Railroad cars loaded	61,740	66,485	63,947	3,119,097	3,014,654	3.5	3,430,998	3,305,475	3.8

Source: Energy Information Administration



Weekly Electric Output

Volume 90 No. 48

OUTPUT FOR WEEK ENDED - Nov 26, 2022

Nov 30, 2022

The net available amount of electric energy distributed by the Total Electric Utility Industry* for the week ended Saturday, **Nov 26, 2022** was **72,870** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **176** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended November 26		52 Weeks Ended November 26	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	2,127	-0.4	115,767	-0.2
Mid-Atlantic	7,417	-1.7	417,833	-0.3
Central Industrial	11,624	-2.6	654,093	0.3
West Central	5,951	-0.2	340,709	1.8
Southeast	18,012	-2.6	1,028,288	0.9
South Central	14,332	9.1	833,810	7.0
Rocky Mountain	5,472	2.9	295,227	0.7
Pacific Northwest	3,341	4.7	160,727	1.8
Pacific Southwest	4,594	0.5	273,766	2.4
Total United States	72,870	0.8	4,120,220	2.0

WEEKLY ELECTRIC OUTPUT IN PREVIOUS WEEKS--GWh

Week Ended	2022	Week Ended	2021	% Inc. (22/21)	52 Weeks Ended	2022	% Inc. (22/21)
Nov 05	69,293	Nov 06	70,190	-1.3	Nov 05	4,113,504	2.0
Nov 12	70,667	Nov 13	69,510	1.7	Nov 12	4,114,661	2.1
Nov 19	76,644	Nov 20	71,643	7.0	Nov 19	4,119,662	2.1
Nov 26	72,870	Nov 27	72,312	0.8	Nov 26	4,120,220	2.0
Nov 26	3,817,912	Nov 27	3,730,327	2.3	YEAR TO DATE, FIRST 48 WEEKS		

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

SEASONALLY ADJUSTED 1982 = 100

Week Ended	2022	Week Ended	2021	Week Ended	2020
Nov 05	173	Nov 06	173	Nov 07	178
Nov 12	171	Nov 13	166	Nov 14	174
Nov 19	188	Nov 20	174	Nov 21	177
Nov 26	176	Nov 27	172	Nov 28	170

* 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		
	26-Nov 2022 GWh Output	27-Nov 2021 GWh Output	% Increase Over Corresponding Week	26-Nov 2022 GWh Output	27-Nov 2021 GWh Output	% Increase Over Corresponding Week	26-Nov 2022 GWh Output	27-Nov 2021 GWh Output	% Increase Over Corresponding Week
New England	2,127	2,136	-0.4%	106,531	106,695	-0.2%	115,767	115,988	-0.2%
Mid-Atlantic	7,417	7,549	-1.7%	386,390	386,856	-0.1%	417,833	419,109	-0.3%
Central Industrial	11,624	11,939	-2.6%	604,896	601,843	0.5%	654,093	652,046	0.3%
West Central	5,951	5,964	-0.2%	315,032	309,460	1.8%	340,709	334,634	1.8%
Southeast	18,012	18,501	-2.6%	953,486	940,035	1.4%	1,028,288	1,018,741	0.9%
South Central	14,332	13,143	9.0%	778,707	722,911	7.7%	833,810	779,056	7.0%
Rocky Mountain	5,472	5,320	2.9%	272,820	270,539	0.8%	295,227	293,167	0.7%
Pacific Northwest	3,341	3,190	4.7%	146,518	143,967	1.8%	160,727	157,950	1.8%
Pacific Southwest	4,594	4,570	0.5%	253,532	248,027	2.2%	273,766	267,439	2.4%
Total United States ^{1/}	72,870	72,312	0.8%	3,817,912	3,730,333	2.3%	4,120,220	4,038,130	2.0%
Coal Regions Only ^{2/}	62,808	62,416	0.6%	3,311,331	3,231,644	2.5%	3,569,960	3,496,753	2.1%

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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November 28, 2022

ESTIMATED WEEKLY RAW STEEL * PRODUCTION

Period	Thousand Net Tons	Percent Change from Previous Period	Percent Capability Utilization**	Production by District		
				Week Ending Nov 26	Week Ending Nov 19	
<u>Week Ending</u>				North East	143	141
				Great Lakes	533	524
November 26, 2022	1,625	-0.2	72.8	Midwest	187	188
November 26, 2021	1,828	-11.1	82.8	Southern	690	702
November 19, 2022	1,628	-1.0	73.0	Western	72	73
				Total	1,625	1,628

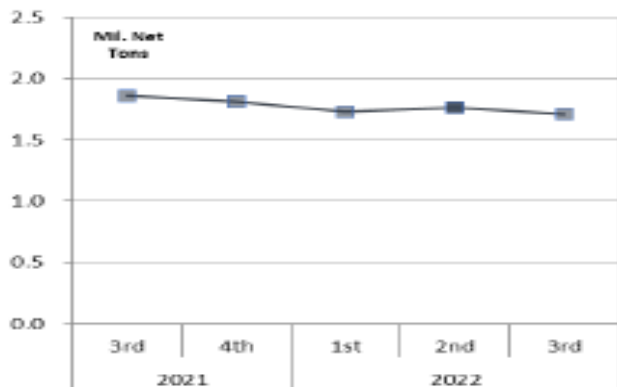
Year-to-Date +

November 26, 2022	81,245	-5.2	78.5
November 26, 2021	85,705	-	81.3

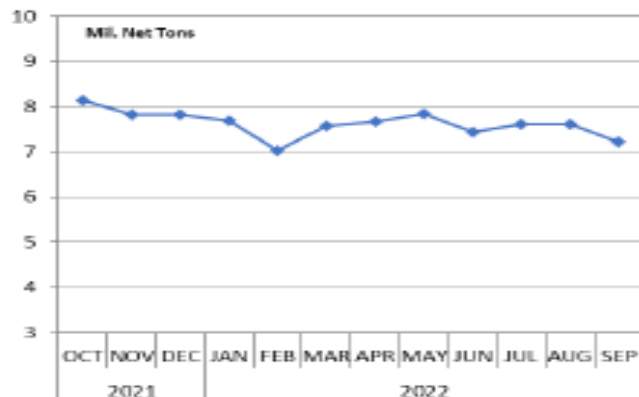
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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

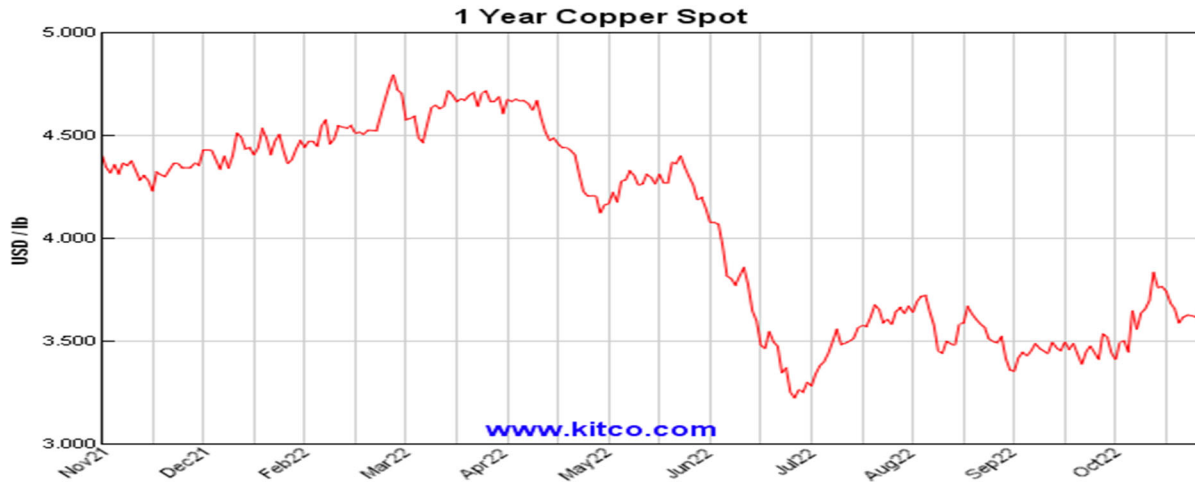
Average Weekly Raw Steel Production



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 47, 2022 – Ended November 26, 2022

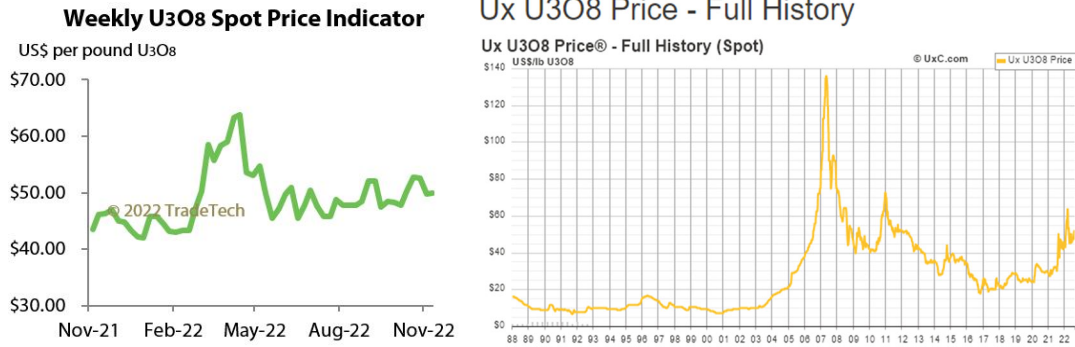
	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk ²	vs 2021
Total Carloads	206,792	-1.1%	10,892,805	231,762	0.2%
Chemicals	28,184	-6.2%	1,549,420	32,966	1.7%
Coal	61,740	-3.5%	3,111,856	66,210	3.4%
Farm Products excl. Grain, and Food	15,178	-0.1%	767,336	16,326	3.2%
Forest Products	8,100	-7.8%	453,419	9,647	-3.6%
Grain	20,261	-14.2%	1,047,614	22,290	-4.0%
Metallic Ores and Metals	18,552	1.6%	984,419	20,945	-7.0%
Motor Vehicles and Parts	12,199	14.2%	626,131	13,322	3.2%
Nonmetallic Minerals	23,503	0.8%	1,480,304	31,496	4.2%
Petroleum and Petroleum Products	8,665	-3.2%	450,646	9,588	-8.4%
Other	10,410	62.8%	421,660	8,971	-8.5%
Total Intermodal Units	206,513	-6.9%	12,298,102	261,662	-4.8%
Total Traffic	413,305	-4.1%	23,190,907	493,424	-2.5%

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.

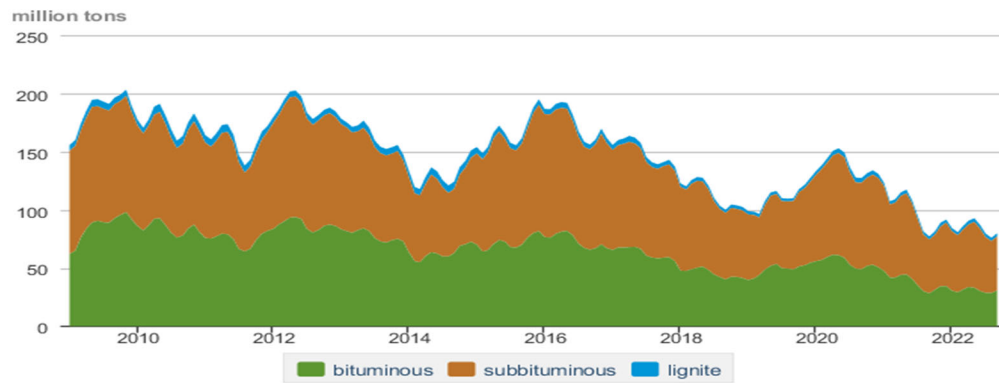
Source: AAR website - <https://www.aar.org/Pages/NEWS-and-EVENTS.aspx>

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>

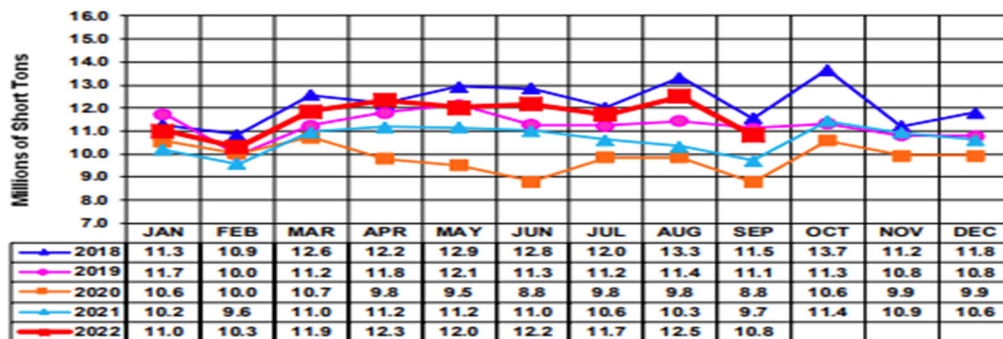
Coal stocks by type, January 2009 - September 2022



eia Source: U.S. Energy Information Administration

Source: Energy Information Administration, Electric Monthly Update

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



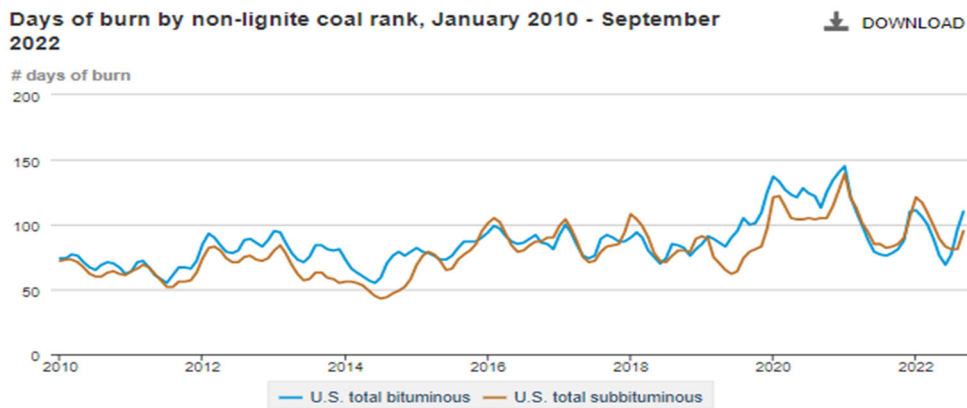
For the Internal U.S. Waterway Monthly Indicators, estimates for the most recent month are based on lock performance management data. The estimates will be superseded by actual data as it becomes available.

Source: Waterborne Commerce Statistics Center

Average weekly coal commodity spot prices
dollars per short ton

	Week ending					Week ago
	10/28/22	11/04/22	11/11/22	11/18/22	11/25/22	change
Central Appalachia 12,500 Btu, 1.2 SO ₂	\$182.10	\$182.10	\$182.10	\$187.70	\$187.70	\$0.00
Northern Appalachia 13,000 Btu, < 3.0 SO ₂	\$185.80	\$185.80	\$185.80	\$191.50	\$191.50	\$0.00
Illinois Basin 11,800 Btu, 5.0 SO ₂	\$186.50	\$186.50	\$186.50	\$186.50	\$186.50	\$0.00
Powder River Basin 8,800 Btu, 0.8 SO ₂	\$17.15	\$17.15	\$17.15	\$17.10	\$17.10	\$0.00
Uinta Basin 11,700 Btu, 0.8 SO ₂	\$41.80	\$41.80	\$41.80	\$41.65	\$41.65	\$0.00

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



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

Temperature – heating & cooling degree days (week ending Nov 10)

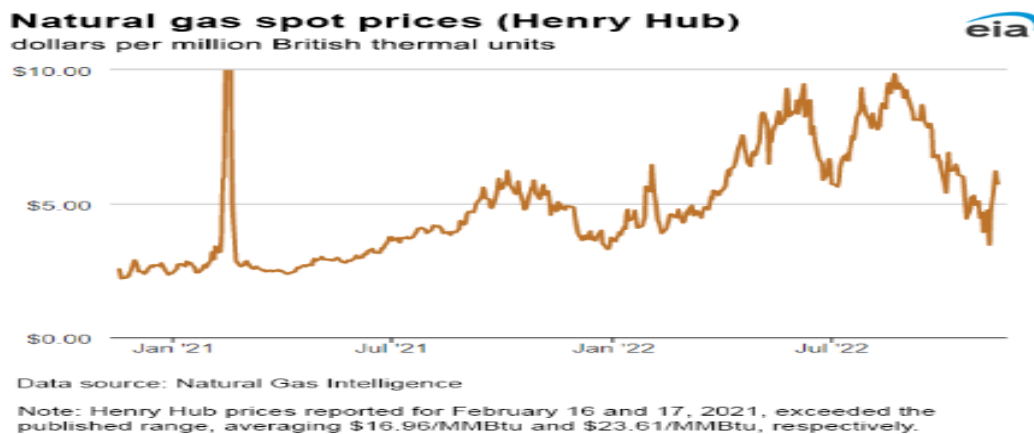
Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	76	-68	-72	1	1	1
Middle Atlantic	68	-69	-65	1	1	1
E N Central	79	-74	-56	0	0	0
W N Central	127	-40	9	0	0	0
South Atlantic	32	-55	-68	29	14	21
E S Central	24	-65	-79	9	7	9
W S Central	16	-38	-42	32	22	25
Mountain	167	17	62	0	-2	-6
Pacific	113	42	49	0	-1	0
United States	80	-37	-26	10	5	7

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



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	September 2022		September 2021		% Change of Stocks	August 2022		% Change of Stocks
		Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn		Stocks (1000 tons)	Days of Burn	
Northeast	Bituminous	1,925	365	1,879	285	2.4%	1,555	365	23.8%
	Subbituminous								
South	Bituminous	12,480	108	10,671	81	17.0%	11,197	88	11.5%
	Subbituminous	3,584	63	2,824	44	26.9%	3,310	47	8.3%
Midwest	Bituminous	7,247	87	5,670	56	27.8%	6,528	76	11.0%
	Subbituminous	17,096	111	18,426	103	-7.2%	14,452	96	18.3%
West	Bituminous	3,029	163	1,916	96	58.1%	3,186	165	-4.9%
	Subbituminous	14,939	90	15,287	75	-2.3%	14,614	79	2.2%
U.S. Total	Bituminous	24,681	110	20,136	78	22.6%	22,465	96	9.9%
	Subbituminous	35,619	95	36,537	83	-2.5%	32,375	81	10.0%

Source: Energy Information Administration, *Electricity Monthly Update*

EIA Working Natural Gas Underground Storage

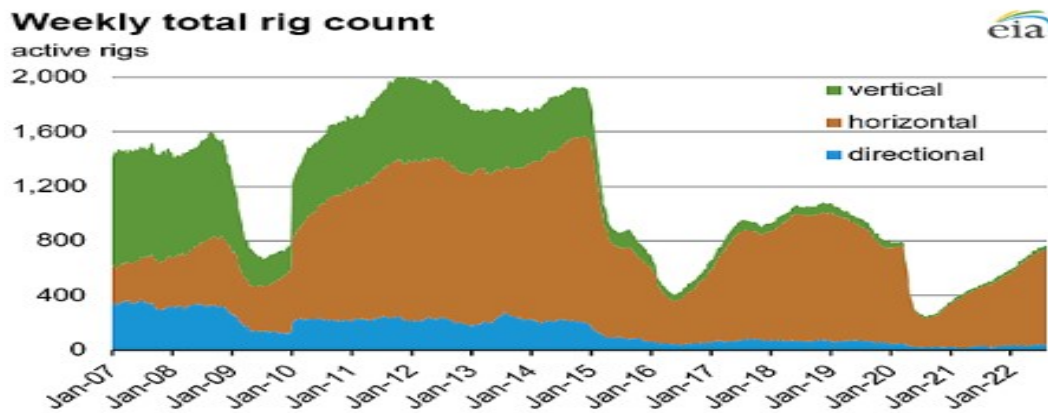
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf)		
	2022-11-11	2022-11-04	change
East	882	865	17
Midwest	1,084	1,068	16
Mountain	208	208	0
Pacific	241	247	-6
South Central	1,228	1,193	35
Total	3,644	3,580	64

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



Data source: Baker Hughes Company

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

EIA Oil and Natural Gas Rig Productivity

Region	New-well oil production per rig barrels/day			New-well gas production per rig thousand cubic feet/day		
	November 2022	December 2022	change	November 2022	December 2022	change
Anadarko	696	697	1	3,796	3,803	7
Appalachia	191	191	-	26,985	26,149	(836)
Bakken	1,696	1,710	14	2,510	2,535	25
Eagle Ford	1,557	1,541	(16)	6,133	6,041	(92)
Haynesville	20	20	-	10,781	10,760	(21)
Niobrara	1,395	1,388	(7)	3,545	3,492	(53)
Permian	1,061	1,049	(12)	2,112	2,089	(23)
Rig-weighted average	964	953	(11)	5,513	5,549	36

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

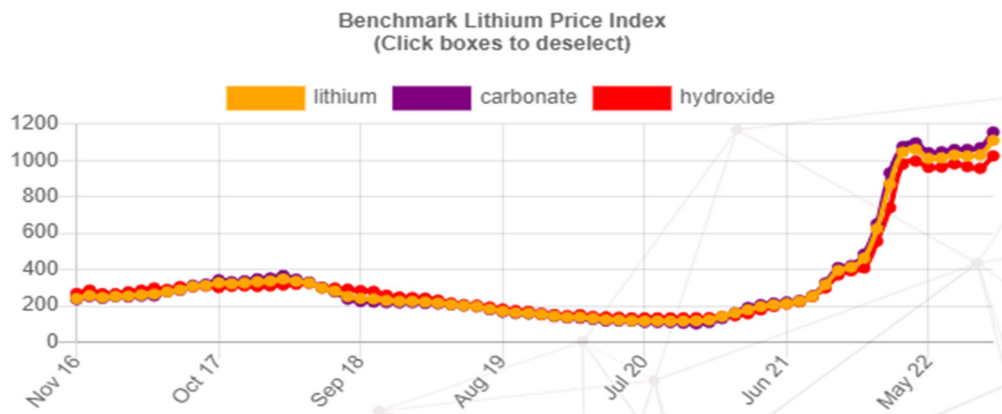
Cobalt and Lithium Prices

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/>