NATIONAL MINING ASSOCIATION

Weekly Statistical Summary

April 22, 2022 Edition
(Data for Week Ending April 16, 2022)

Prepared by
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NMA Weekly Statistical Summary

Vol. 60, No. 16
Dated 04/22/22

PRODUCTION, CONSUMPTION & TRADE

	Week Ended 04/16/22	04/17/21	% Chng	* Cumulative Jan 1 to 04/16/22	04/16/21	% Chng
EIA Coal Production (000 Tons):						
Week Ended/Year to Date	10,505	10,400	1.0%	172,291	164,175	4.9%
52 Weeks Ended	584,825	527,236	10.9%			
AAR Coal Rail Cars Loaded:	61,550	61,600	-0.1%	987,880	906,018	9.0%
Coal Production	**March 22/21**		**% Chng**	**Jan - Mar 22/21**		**% Chng**
Month Ended - March	50,692	50,881	-0.4%	147,438	140,306	5.1%

DOC Coal Trade (000 Tons)

Exports:	**Feb 22/21**		**% Chng**	**Jan - Feb 22/21**		**% Chng**
Metallurgical	3,998	3,709	7.8%	6,943	6,958	-0.2%
Steam Bit. *	3,159	3,652	-13.5%	5,917	6,092	-2.9%
Lignite	4	7	-42.9%	12	14	-14.3%
Anthracite	6	31	-80.6%	11	71	-84.5%
Total	7,167	7,399	-3.1%	12,883	13,135	-1.9%
Imports:	289	309	-6.5%	792	835	-5.1%

	Week Ended 04/16/22	04/17/21	% Chng	Cumulative Week 1 to 04/16/22	04/17/21	% Chng
EEI Electric Total Output (Mil. Kwh)	69,530	66,881	4.0%	1,230,263	1,192,803	3.1%
EEI Coal Region Output (Mil. Kwh)	59,914	57,565	4.1%	1,063,147	1,029,456	3.3%
AISI Raw Steel Output (000 Tons)	1,766	1,834	-3.7%	26,416	26,672	-1.0%

EIA (S&P Global) AVERAGE COAL & NATURAL GAS SPOT PRICES

Dollars Per Short Ton

Average Coal Spot Prices ($/Short Ton)	Week Ending 04/15/22	04/08/22	% Chng
Central App, 12,500 Btu, 1.2 SO_2	$117.05	$106.15	10.3%
Northern App, 13,000 Btu, < 3.0 SO_2	94.85	92.00	3.1%
Illinois Basin, 11,800, 5.0 SO_2	117.65	109.55	7.4%
Powder River Basin, 8,800 Btu 0.8 SO_2	15.70	16.10	-2.5%
Uinta Basin, 11,700 Btu, 0.8 SO_2	36.55	36.35	0.6%

Natural Gas Spot Prices ($/MMBtu) Wed.	04/13/22
Henry Hub	6.70
New York	6.21
Chicago	6.70
Cal.Comp.Avg.	7.02

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

	Week Ended			Year to Date			52 Weeks Ended		
Coal-Producing Region & State (thousand short tons)	**4/16/2022 (week 14)**	**4/9/2022 (week 13)**	**4/17/2021 (week 14)**	**4/16/2022**	**4/16/2021**	**% Change**	**4/16/2022**	**4/17/2021**	**% Change**
Alabama	135	149	154	2,652	3,464	-23.4	8,486	11,707	-27.5
Alaska	16	18	17	319	349	-8.5	1,010	1,034	-2.3
Colorado	231	231	188	3,286	2,854	15.2	12,283	9,775	25.7
Illinois	712	756	714	12,856	12,836	0.2	36,841	34,240	7.6
Indiana	332	353	337	5,400	5,654	-4.5	19,173	18,731	2.4
Kentucky total	**487**	**531**	**488**	**8,148**	**7,707**	**5.7**	**27,012**	**23,859**	**13.2**
Eastern (KY)	208	223	193	3,218	2,750	17.0	10,781	8,318	29.6
Western (KY)	280	307	296	4,930	4,957	-0.5	16,231	15,541	4.4
Louisiana	5	5	5	68	68	0.6	300	300	s
Maryland	25	26	21	397	391	1.5	1,315	1,115	17.9
Mississippi	62	66	60	927	950	-2.5	3,169	2,820	12.4
Missouri	1	1	1	21	21	-3.3	43	129	-66.7
Montana	537	557	492	8,301	7,696	7.9	29,120	25,221	15.5
New Mexico	139	150	149	2,317	2,694	-14.0	8,869	9,360	-5.2
North Dakota	437	478	442	7,620	8,011	-4.9	26,094	26,013	0.3
Ohio	40	42	39	690	843	-18.2	2,604	3,037	-14.3
Oklahoma	s	s	.	s	.	100.0	1	.	.
Pennsylvania total	**790**	**899**	**832**	**14,684**	**13,676**	**7.4**	**43,280**	**37,590**	**15.1**
Anthracite (PA)	31	33	34	521	573	-9.1	2,033	2,173	-6.4
Bituminous (PA)	759	866	798	14,163	13,104	8.1	41,248	35,417	16.5
Texas	273	277	283	4,216	4,374	-3.6	17,055	18,080	-5.7
Utah	200	214	219	3,412	3,632	-6.1	12,095	12,641	-4.3
Virginia	212	223	191	3,413	3,118	9.4	11,242	9,439	19.1
West Virginia total	**1,463**	**1,580**	**1,444**	**24,770**	**23,189**	**6.8**	**80,065**	**69,352**	**15.4**
Northern (WV)	795	874	806	14,314	13,309	7.5	45,384	39,909	13.7
Southern (WV)	668	707	637	10,456	9,880	5.8	34,682	29,442	17.8
Wyoming	4,405	4,681	4,321	68,795	62,646	9.8	244,768	212,791	15.0
Appalachian total	2,874	3,143	2,874	49,824	47,433	5.0	157,773	140,559	12.2
Interior total	**1,665**	**1,766**	**1,697**	**28,417**	**28,861**	**-1.5**	**92,813**	**89,841**	**3.3**
Western total	**5,966**	**6,329**	**5,829**	**94,050**	**87,881**	**7.0**	**334,239**	**296,836**	**12.6**
East of Mississippi River	**4,260**	**4,626**	**4,282**	**73,937**	**71,830**	**2.9**	**233,187**	**211,891**	**10.1**
West of Mississippi River	**6,245**	**6,612**	**6,117**	**98,355**	**92,345**	**6.5**	**351,638**	**315,345**	**11.5**
Bituminous and lignite	10,474	11,205	10,365	171,770	163,602	5.0	582,792	525,063	11.0
Anthracite	31	33	34	521	573	-9.1	2,033	2,173	-6.4
U.S. total	**10,505**	**11,238**	**10,400**	**172,291**	**164,175**	**4.9**	**584,825**	**527,236**	**10.9**
Railroad cars loaded	61,550	65,725	61,600	987,880	906,018	9.0	3,408,724	2,977,535	14.5

Source: Energy Information Administration

EEI

Weekly Electric Output

Volume 90 No. 16

OUTPUT FOR WEEK ENDED - Apr 16, 2022 **Apr 20, 2022**

The net available amount of electric energy distributed by the Total Electric Utility Industry+ for the week ended Saturday, **Apr 16, 2022** was **69,530** gigawatthours (GWh), according to the Edison Electric Institute. This is equivalent to **174** on the weekly electric output index.

WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended April 16		52 Weeks Ended April 16	
	GWh Output	% Increase Over Corresponding Week of 2021	GWh Output	% Increase Over Corresponding Period of 2021
New England	1,826	-6.3	116,499	0.8
Mid-Atlantic	6,741	0.0	420,916	1.9
Central Industrial	11,226	2.3	656,672	3.2
West Central	5,740	3.8	339,969	4.7
Southeast	17,012	4.2	1,019,144	1.9
South Central	14,573	9.0	791,953	3.7
Rocky Mountain	4,622	0.0	295,310	2.2
Pacific Northwest	3,343	16.5	160,119	3.8
Pacific Southwest	4,447	-1.1	269,512	1.1
Total United States	69,530	4.0	4,070,094	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)
Mar 26	70,186	Mar 27	67,594	3.8	Mar 26	4,060,341	2.7
Apr 02	71,560	Apr 03	68,183	5.0	Apr 02	4,063,718	2.7
Apr 09	71,047	Apr 10	67,321	5.5	Apr 09	4,067,444	2.7
Apr 16	69,530	Apr 17	66,881	4.0	Apr 16	4,070,094	2.7
Apr 16	**1,230,263**	**Apr 17**	**1,192,803**	**3.1**	**YEAR TO DATE, FIRST 16 WEEKS**		

WEEKLY ELECTRIC OUTPUT INDEX--TOTAL U.S.*
SEASONALLY ADJUSTED 1982 = 100

Week Ended	2022	Week Ended	2021	Week Ended	2020
Mar 26	171	Mar 27	161	Mar 28	170
Apr 02	177	Apr 03	165	Apr 04	164
Apr 09	177	Apr 10	165	Apr 11	164
Apr 16	174	Apr 17	164	Apr 18	164

* Excludes Alaska and Hawaii.

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

EEI WEEKLY ELECTRIC OUTPUT BY GEOGRAPHIC DIVISION

(48 CONTIGUOUS STATES)

	Week Ended			NMA CUMULATIVE JANUARY WEEK ONE TO			52 Weeks Ended		
	16-Apr 2022 GWh Output	**17-Apr 2021 GWh Output**	% Increase Over Corresponding Week	**16-Apr 2022 GWh Output**	**17-Apr 2021 GWh Output**	**% Increase Over Corresponding Week**	**16-Apr 2022 GWh Output**	**17-Apr 2021 GWh Output**	% Increase Over Corresponding Week
New England	1,826	1,949	-6.3%	**36,294**	**35,726**	**1.6%**	116,499	115,617	0.8%
Mid-Atlantic	6,741	6,738	0.0%	**128,762**	**126,143**	**2.1%**	420,916	413,216	1.9%
Central Industrial	11,226	10,978	2.3%	**205,535**	**199,905**	**2.8%**	656,672	636,022	3.2%
West Central	5,740	5,529	3.8%	**103,730**	**98,895**	**4.9%**	339,969	324,562	4.7%
Southeast	17,012	16,329	4.2%	**308,223**	**303,915**	**1.4%**	1,019,144	999,793	1.9%
South Central	14,573	13,367	9.0%	**231,089**	**217,153**	**6.4%**	791,953	764,021	3.7%
Rocky Mountain	4,622	4,624	0.0%	**85,808**	**83,445**	**2.8%**	295,310	289,081	2.2%
Pacific Northwest	3,343	2,869	16.5%	**55,896**	**53,950**	**3.6%**	160,119	154,276	3.8%
Pacific Southwest	4,447	4,498	-1.1%	**74,925**	**73,673**	**1.7%**	269,512	266,631	1.1%
Total United States [1/]	69,530	66,881	4.0%	**1,230,262**	**1,192,805**	**3.1%**	4,070,094	3,963,219	2.7%
Coal Regions Only[2/]	59,914	57,565	4.1%	**1,063,147**	**1,029,456**	**3.3%**	3,523,964	3,426,695	2.8%

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 municiple 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
25 Massachusetts Avenue, NW, Suite 800
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April 18, 2022

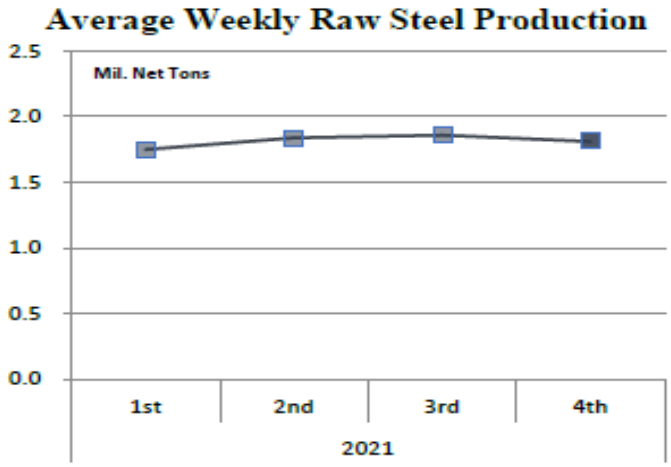
ESTIMATED WEEKLY RAW STEEL* PRODUCTION

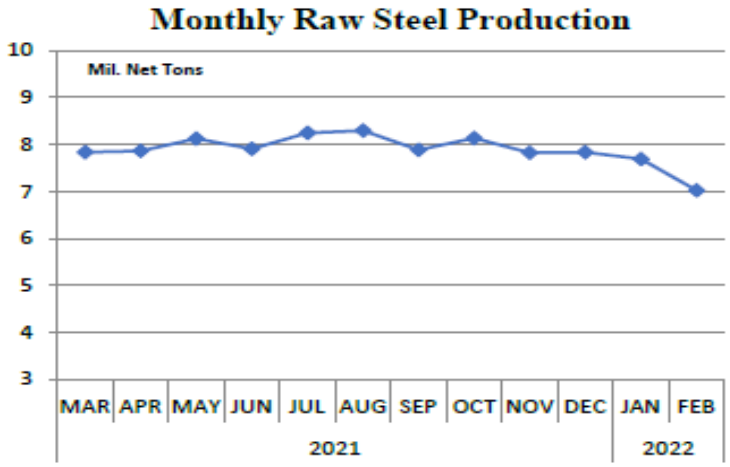
Period	Thousand Net Tons	Percent Change from Previous Period	Percent Capability Utilization**
Week Ending			
April 16, 2022	1,766	1.6	80.9
April 16, 2021	1,834	-3.7	80.8
April 9, 2022	1,739	0.9	79.7
Year-to-Date +			
April 16, 2022	26,416	-1.0	80.2
April 16, 2021	26,672	-	78.0

Production by District	Week Ending Apr 16	Week Ending Apr 9
North East	164	169
Great Lakes	562	539
Midwest	213	210
Southern	750	745
Western	77	76
Total	1,766	1,739

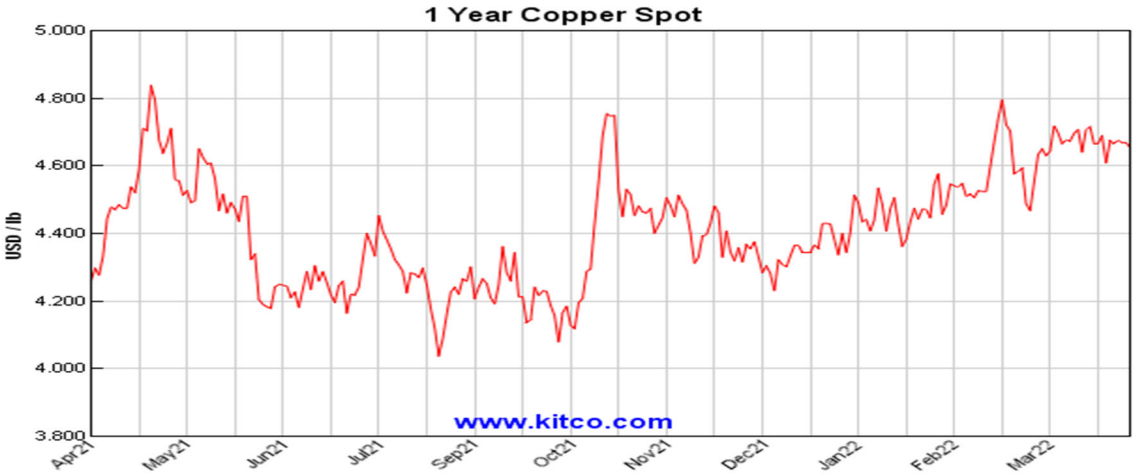
*Raw steel production tonnage included in this report is estimated based on a sampling of steel producers (50% of domestic producers). Therefore, this report should be used primarily to assess production trends. The AISI production report "AIS 7," produced monthly and available by subscription, provides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

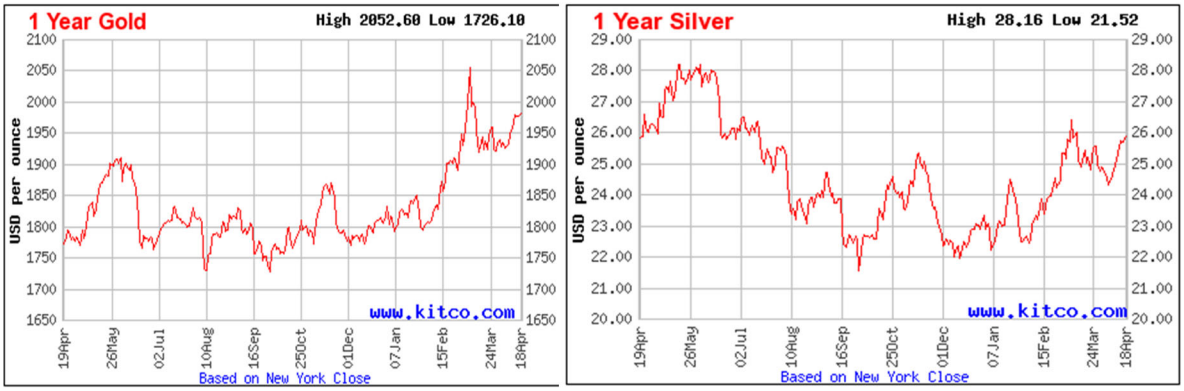
NOTE: Capability for the first quarter 2022 was approximately 28.3 million net tons. Given the large number of changes to steelmaking capability and the evolving market, AISI is updating the capacity statisitcs.





*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 Traffic[1]

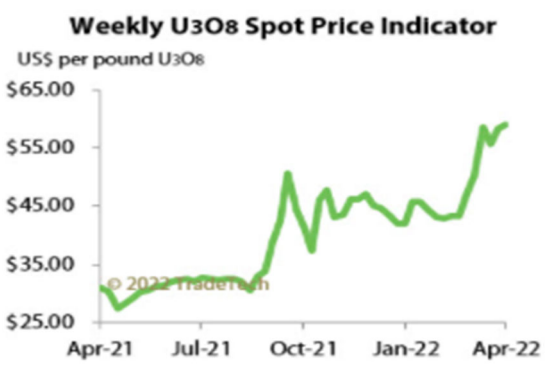
Week 15, 2022 – Ended April 16, 2022

	This Week		Year-To-Date		
	Cars	vs 2021	Cumulative	Avg/wk[2]	vs 2021
Total Carloads	**221,228**	**-6.8%**	**3,444,827**	**229,655**	**1.9%**
Chemicals	33,090	2.6%	517,803	34,520	8.6%
Coal	61,550	0.0%	980,635	65,376	9.0%
Farm Products excl. Grain, and Food	16,216	-2.0%	247,193	16,480	3.0%
Forest Products	9,562	-3.0%	148,896	9,926	0.2%
Grain	19,602	-25.3%	347,418	23,161	-8.5%
Metallic Ores and Metals	20,638	-16.7%	304,432	20,295	-4.4%
Motor Vehicles and Parts	12,458	-0.8%	191,353	12,757	-9.1%
Nonmetallic Minerals	30,249	-6.9%	433,463	28,898	8.1%
Petroleum and Petroleum Products	8,466	-21.8%	138,093	9,206	-15.9%
Other	9,397	-8.7%	135,541	9,036	-4.9%
Total Intermodal Units	**268,573**	**-9.2%**	**3,910,355**	**260,690**	**-6.8%**
Total Traffic	**489,801**	**-8.1%**	**7,355,182**	**490,345**	**-2.9%**

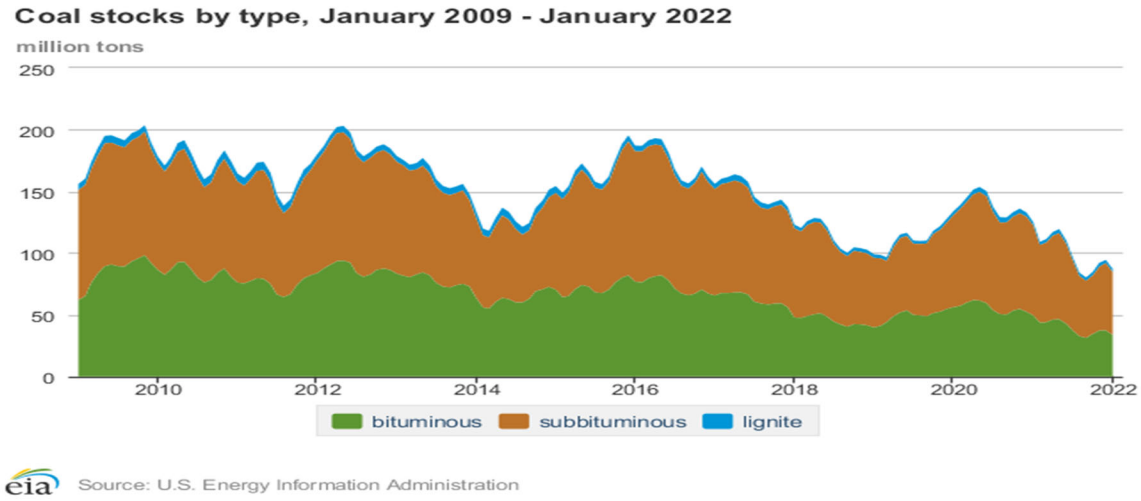
[1] Excludes U.S. operations of Canadian Pacific, CN and GMXT.
[2] Average per week figures may not sum to totals as a result of independent rounding.

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

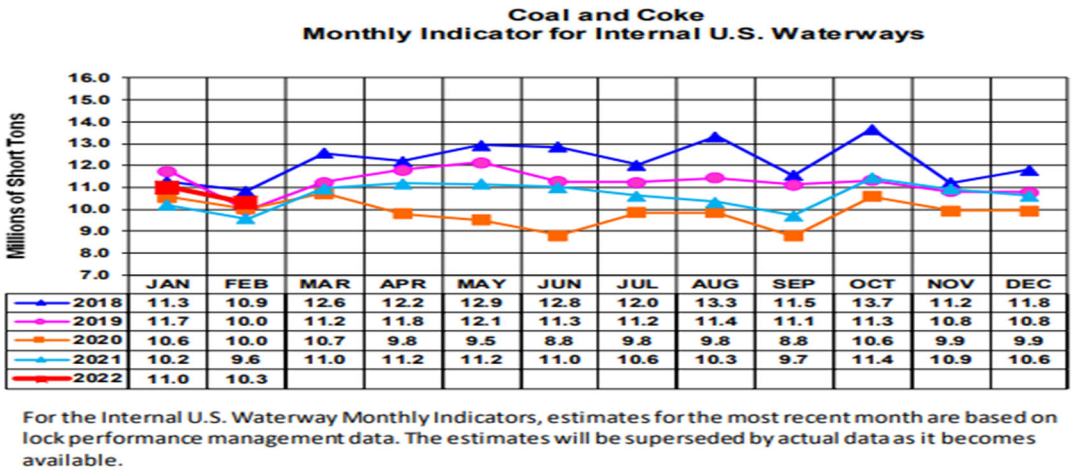
Trade Tech's and UX's Uranium Price Indicators



Sources: Trade Tech, Uranium Info Website – www.uranium.info ; Source: Ux Consulting Co., LLC – http://www.uxc.com



Source: Energy Information Administration, Electric Monthly Update



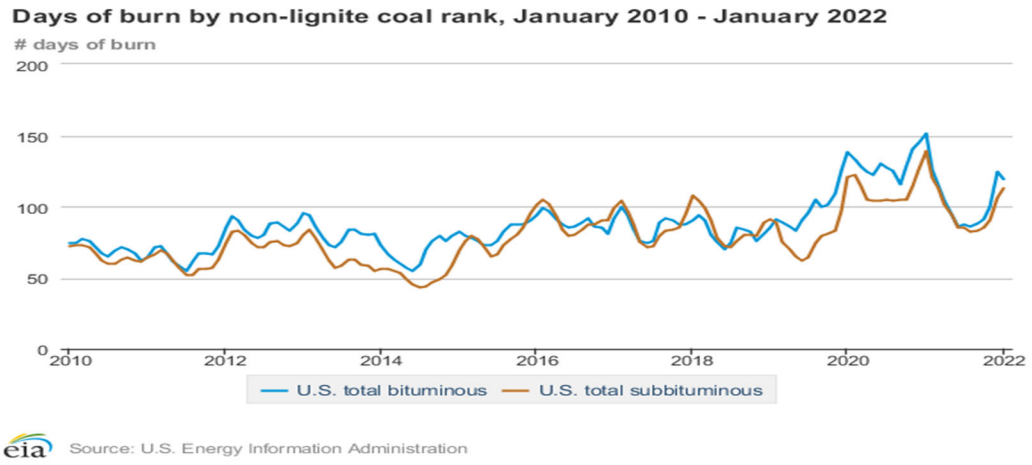
Source: Waterborne Commerce Statistics Center

Average weekly coal commodity spot prices

dollars per short ton

	Week ending					Week ago
	03/18/22	03/25/22	04/01/22	04/08/22	04/15/22	change
Central Appalachia *12,500 Btu, 1.2 SO_2*	$97.30	$97.30	$106.15	$106.15	$117.05	$10.90
Northern Appalachia *13,000 Btu, < 3.0 SO_2*	$81.80	$81.80	$92.00	$92.00	$94.85	$2.85
Illinois Basin *11,800 Btu, 5.0 SO_2*	$97.00	$97.00	$109.55	$109.55	$117.85	$8.30
Powder River Basin *8,800 Btu, 0.8 SO_2*	$16.75	$16.75	$16.10	$16.10	$15.70	$-0.40
Uinta Basin *11,700 Btu, 0.8 SO_2*	$33.30	$33.30	$36.35	$36.35	$36.55	$0.20

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 Apr 07)

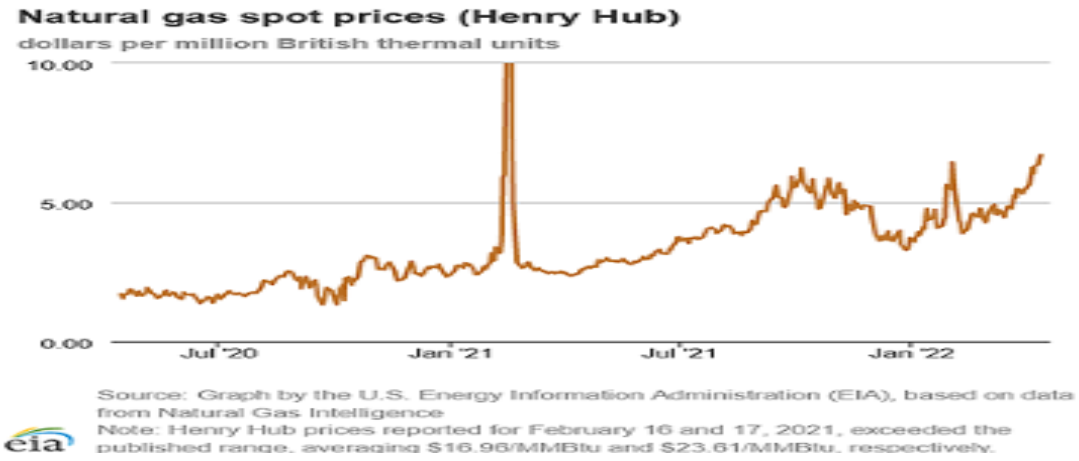
Region	HDDs			CDDs		
	Current total	Deviation from normal	Deviation from last year	Current total	Deviation from normal	Deviation from last year
New England	143	-16	-7	0	0	0
Middle Atlantic	139	-4	6	0	0	0
E N Central	161	14	52	0	0	-1
W N Central	158	16	70	0	-1	-2
South Atlantic	73	-2	-16	23	10	15
E S Central	79	9	-7	2	-3	1
W S Central	29	-8	-9	28	13	10
Mountain	118	-12	36	7	2	-4
Pacific	49	-27	0	3	1	3
United States	109	-3	19	8	4	4

Source: Chart by the U.S. Energy Information Administration (EIA), based on data from the 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	2021 Year to Date - 3rd Quarter	2020 Year to Date - 3rd Quarter	Percent Change
Aluminum, secondary (000 Mt.)	628.0	543.0	16%
Cement (Mil. Mt.)	67.6	66.3	2%
Copper (000 Mt.)	912.0	906.0	1%
Gold (Mt.)	135.0	144.0	-6%
Gypsum (Mil. Mt.)	14.2	12.8	11%
Iron Ore (Mil. Mt.)	34.9	27.0	29%
Lead (000 Mt.)	220.0	219.0	0%
Molybdenum (000 Mt.)	31.8	37.7	-16%
Phosphate rock (Mil. Mt.)	16.6	18.0	-8%
Sand & gravel, construction (Mil. Mt.)	753.0	705.0	7%
Silver (Mt.)	773.0	760.0	2%
Soda ash (Mil. Mt.)	8.7	7.3	19%
Stone, crushed (Mil. Mt.)	1,140.0	1,110.0	3%
Zinc (000 Mt.)	530.0	505.0	5%

Source: U.S. Geological Survey, Mineral Industry Surveys. Percent change based on USGS rounded numbers. 2020 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)

		January 2022		January 2021			December 2021		
Zone	Coal	Stocks (1000 tons)	Days of Burn	Stocks (1000 tons)	Days of Burn	% Change of Stocks	Stocks (1000 tons)	Days of Burn	% Change of Stocks
Northeast	Bituminous	2,169	349	3,386	365	-36.0%	2,851	365	-23.9%
	Subbituminous	.	.	72	189	.	.	.	.
South	Bituminous	11,824	100	19,198	144	-38.4%	14,515	114	-18.5%
	Subbituminous	3,559	67	5,886	111	-39.5%	3,921	68	-9.2%
Midwest	Bituminous	10,559	127	11,940	132	-11.6%	10,653	113	-0.9%
	Subbituminous	17,134	121	28,008	156	-38.8%	20,064	119	-14.6%
West	Bituminous	2,150	138	2,990	177	-28.1%	2,051	126	4.8%
	Subbituminous	19,178	120	25,175	132	-23.8%	18,838	105	1.8%
U.S. Total	Bituminous	26,702	119	37,515	151	-28.8%	30,071	124	-11.2%
	Subbituminous	39,871	113	59,141	139	-32.6%	42,822	106	-6.9%

Source: U.S. Energy Information Administration

NOTE: Stockpile levels shown above reflect a sample of electric power sector plants, which were used to create the days of burn statistics. These levels will not equal total electric power sector stockpile levels.

Source: Energy Information Administration, *Electricity Monthly Update*

EIA Working Natural Gas Underground Storage

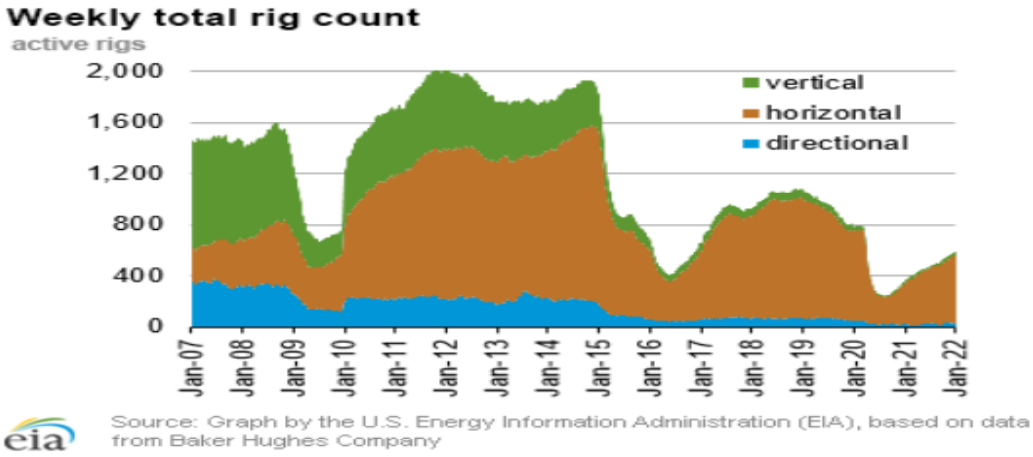
Working gas in underground storage

Region	Stocks billion cubic feet (Bcf) 2022-04-08	2022-04-01	change
East	229	241	-12
Midwest	293	296	-3
Mountain	90	91	-1
Pacific	169	165	4
South Central	617	589	28
Total	1,397	1,382	15

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

NEW-WELL PRODUCTION PER RIG BY REGION | PRODUCTION BY REGION | DUC WELLS BY REGION

Region	New-well oil production per rig barrels/day April 2022	May 2022	change	New-well gas production per rig thousand cubic feet/day April 2022	May 2022	change
Anadarko	726	721	(5)	3,773	3,735	(38)
Appalachia	189	189	-	29,500	28,999	(501)
Bakken	1,879	1,847	(32)	2,630	2,586	(44)
Eagle Ford	2,052	1,990	(62)	7,370	7,149	(221)
Haynesville	20	20	-	11,757	11,546	(211)
Niobrara	1,578	1,562	(16)	4,117	4,035	(82)
Permian	1,160	1,146	(14)	2,261	2,234	(27)
Rig-weighted average	1,072	1,051	(21)	6,225	6,161	(64)

Source: Energy Information Administration, Drilling Productivity Report

USGS Cobalt – U.S. Trade, Reported Stocks and Listed Prices

Cobalt - January 2022	Jan-22	Year to Date
U.S. Imports for Consumption - Metals (mt)	754	754
U.S. Exports of Cobalt Materials - Cobalt Content (mt)	454	454
Reported Stocks of Cobalt Metal (mt)	U.S. Govt	LME
	302	256
Listed Prices by Type ($/lb): US Spot & LME Cash Avg.	34.11	31.84

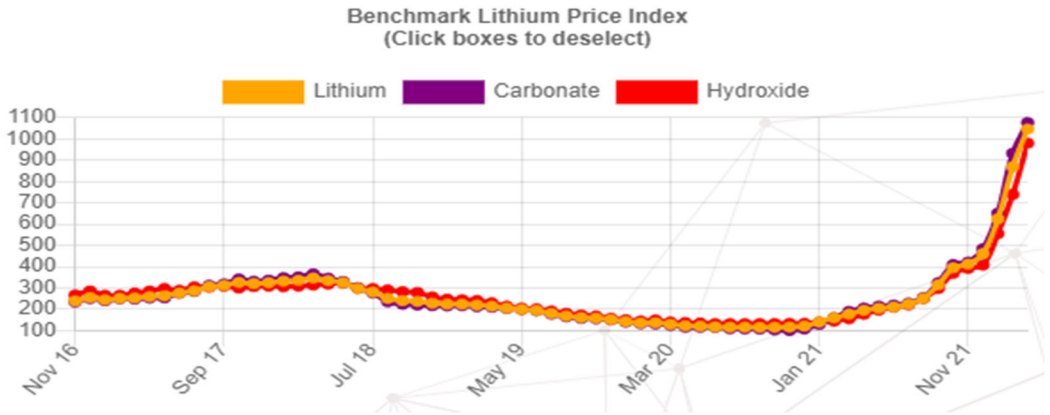
Source: USGS, Mineral Industry Survey, Cobalt in January 2022, April 2022

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/