

Commodities Outlook for September 2022

A Publication of BMO Capital Markets Economic Research · Douglas Porter, CFA, Chief Economist, BMO Financial Group

Energy, Materials and Agriculture

	Crude Oil (US\$/bbl)	Natural Gas		Lumber (US\$/mbf)	Wheat (US\$/bushel)	Canola (US\$/tonne)	Cattle (US\$/cwt)	Hogs	
		Henry Hub (US\$/mmbtu)	AECO						
2009	61.69	3.95	3.51	177	5.30	371	83.85	58.11	
2010	79.43	4.39	3.89	255	5.81	429	94.95	75.60	
2011	95.08	4.00	3.67	255	7.10	566	114.54	90.34	
2012	94.20	2.75	2.39	299	7.50	601	122.65	84.93	
2013	97.93	3.73	3.08	356	6.84	545	126.40	89.33	
2014	93.26	4.39	4.08	349	5.88	400	151.50	105.83	
2015	48.69	2.63	2.12	277	5.08	371	146.49	69.40	
2016	43.21	2.52	1.64	305	4.36	366	118.61	65.60	
2017	50.91	2.99	1.67	401	4.36	393	117.90	69.87	
2018	64.84	3.17	1.19	480	4.95	389	114.64	65.26	
2019	56.99	2.57	1.36	360	4.94	344	115.84	69.92	
2020	39.27	2.03	1.67	556	5.50	372	105.54	59.83	
2021	67.98	3.91	2.90	883	7.02	694	122.43	91.74	
y-t-d 2022	100.31	6.64	4.59	945	9.39	805	138.00	102.68	
2021	Sep	71.50	5.16	2.91	491	7.04	693	123.38	86.53
	Oct	81.44	5.51	4.26	597	7.46	752	124.96	82.22
	Nov	79.17	5.05	3.80	630	8.06	814	133.06	75.28
	Dec	71.71	3.76	3.25	981	7.88	797	136.98	77.74
2022	Jan	83.17	4.38	3.55	1,186	7.72	806	137.71	83.01
	Feb	91.65	4.69	3.73	1,286	8.06	804	142.01	97.31
	Mar	108.41	4.90	4.01	1,350	11.25	886	139.25	102.86
	Apr	101.78	6.60	5.47	1,054	10.66	929	139.81	104.08
	May	109.34	8.14	5.90	949	11.41	908	132.80	104.64
	Jun	114.60	7.70	5.71	595	10.11	808	135.77	109.45
	Jul	100.74	7.28	4.20	655	8.07	664	135.74	114.98
	Aug	93.11	8.81	2.57	567	7.84	654	140.02	105.70
	m-t-d Sep	86.79	9.03	n.a.	495	7.90	620	144.13	91.03
Forecast	2022 avg.	100.00 ↓	7.00 ↑	4.00 ↓	800 ↓	9.00	750 ↓	140.00	100.00 ↓
	2023 avg.	95.00	5.50 ↑	3.50 ↓	550 ↓	7.50	600 ↓	154.00	95.00

Commodity price forecasts are by BMO Economics and are independent of those used by BMO Capital Markets Equity Research

↑ and ↓ indicate annual forecast changes from last month

Base and Precious Metals

		Copper	Aluminum (US\$/lb)	Zinc	Nickel	Gold (US\$/oz)	Silver
2009		2.34	0.75	0.75	6.64	973	14.67
2010		3.42	0.99	0.98	9.89	1,225	20.16
2011		4.00	1.09	0.99	10.38	1,570	35.11
2012		3.61	0.92	0.88	7.96	1,668	31.15
2013		3.32	0.84	0.87	6.81	1,411	23.83
2014		3.11	0.85	0.98	7.65	1,266	19.08
2015		2.50	0.75	0.88	5.37	1,160	15.70
2016		2.21	0.73	0.95	4.35	1,248	17.10
2017		2.80	0.89	1.31	4.72	1,258	17.06
2018		2.96	0.96	1.33	5.95	1,270	15.71
2019		2.72	0.81	1.16	6.31	1,393	16.20
2020		2.80	0.77	1.03	6.25	1,770	20.51
2021		4.23	1.12	1.36	8.38	1,800	25.16
y-t-d 2022		4.17	1.31	1.68	11.79	1,840	22.20
2021	Sep	4.23	1.29	1.38	8.80	1,781	23.23
	Oct	4.44	1.34	1.53	8.81	1,775	23.29
	Nov	4.43	1.20	1.50	9.05	1,820	24.17
	Dec	4.33	1.22	1.55	9.10	1,789	22.47
2022	Jan	4.43	1.36	1.64	10.12	1,816	23.15
	Feb	4.51	1.48	1.65	10.96	1,858	23.46
	Mar	4.64	1.60	1.80	15.47	1,947	25.22
	Apr	4.62	1.48	1.98	15.10	1,935	24.51
	May	4.25	1.28	1.70	12.67	1,852	21.90
	Jun	4.10	1.16	1.65	11.71	1,835	21.49
	Jul	3.42	1.09	1.40	9.74	1,739	19.09
	Aug	3.61	1.10	1.62	9.97	1,766	19.72
	m-t-d Sep	3.48	1.04	1.47	9.42	1,709	18.03
Forecast	2022 avg.	4.00	1.25	1.55	11.25	1,820 ↓	21.50 ↓
	2023 avg.	3.50	1.15	1.20	9.00	1,750	21.50 ↓

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↑ and ↓ indicate annual forecast changes from last month

Commodity Indices and Forecasts (US\$-terms : 2003 = 100)

		All Commodities	Oil & Gas	Metals & Minerals	Forest Products	Agricultural Products	All Commodities (C\$-terms)
	2013	271.7	283.0	304.1	128.6	200.1	199.6
	2014	252.1	271.4	270.5	121.3	170.0	198.4
	2015	170.9	142.5	244.8	98.3	151.3	155.5
	2016	160.7	126.9	241.1	110.3	135.9	151.8
	2017	178.1	149.6	249.4	144.8	139.8	165.0
	2018	204.3	189.0	257.5	169.5	147.2	188.8
	2019	191.0	165.6	267.4	124.4	141.3	180.9
	2020	179.8	114.7	303.7	198.2	151.3	171.5
	2021	253.1	199.5	345.8	320.8	223.2	226.4
Forecast	2022	322.1	296.4	395.3	285.1	263.1	294.9
	2023	291.1	278.9	355.7	194.7	221.7	265.7
	2020 Q4	197.7	125.0	327.2	255.5	168.9	184.0
	2021 Q1	232.8	170.3	332.5	349.8	197.8	210.4
	Q2	259.2	192.0	345.0	482.4	222.5	227.0
	Q3	250.1	207.8	348.4	190.7	224.3	224.7
	Q4	270.5	228.0	357.4	260.1	248.3	243.3
	2022 Q1	325.5	275.3	404.1	458.2	274.4	294.5
	Q2	348.4	321.5	419.1	308.0	307.0	317.2
Forecast	Q3	304.7	290.7	374.7	201.8	233.2	281.0
	Q4	309.9	298.1	383.4	172.3	238.0	287.1
	2023 Q1	306.2	294.1	375.2	184.2	240.6	282.7
	2021 Aug	242.8	199.2	346.0	155.3	228.8	218.3
	Sep	253.1	212.3	353.4	178.5	223.1	228.8
	Oct	273.8	240.9	358.1	213.8	237.5	243.8
	Nov	272.5	233.5	359.6	224.8	256.0	244.0
	Dec	265.2	209.6	354.5	341.6	251.5	242.1
	2022 Jan	292.1	243.2	367.0	417.7	250.9	263.0
	Feb	317.9	267.6	396.7	465.2	256.9	288.6
	Mar	366.3	315.1	448.6	491.6	315.5	331.9
	Apr	349.2	300.4	444.3	373.1	313.0	314.2
	May	351.4	325.2	411.7	338.2	320.2	322.8
	Jun	344.6	338.9	401.3	212.6	287.6	314.5
	Jul	311.0	299.1	373.1	228.5	237.5	287.0
	Aug	301.4	281.3	381.4	200.0	232.9	277.5

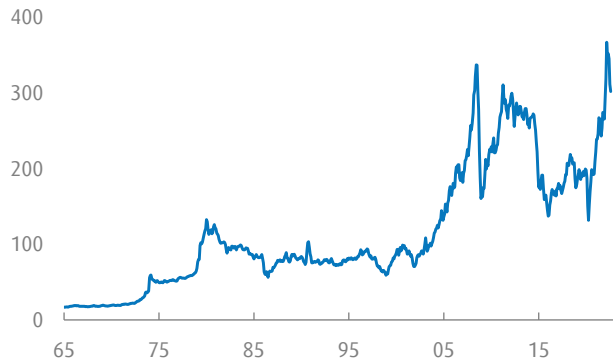
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Forecasts are independent of those used by BMO Capital Markets Equity Research

All-Commodity Index

Nominal US\$-Terms

(2003 = 100)

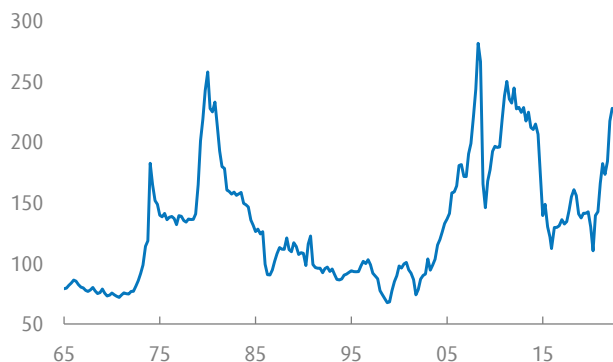


Source: BMO Economics

All-Commodity Index

Real US\$-Terms

(2003 = 100)



Source: BMO Economics

All-Commodity Index

Nominal

(2003 = 100)



Source: BMO Economics

Technical Note

The BMO Capital Markets Commodity Price Index is a fixed-weight, export-based index that encompasses the price movement of 16 commodities key to Canadian exports. Weights are each commodity's average share of the total value of exports of the 16 commodities during the period 2012-16. Similarly, weights of sub-index components reflect the relative importance of commodities within their respective product group.

The all-commodities index and sub-indices consist of the following:

(percent)	Weight in All-Commodities Index	Weight in Sub-Index
Metals & Minerals	29.8	100.0
Gold	10.6	35.4
Silver	1.4	4.6
Aluminum	6.4	21.4
Copper	2.3	7.8
Nickel	3.2	10.8
Zinc	0.9	3.0
Uranium	1.3	4.4
Potash	3.8	12.6
Oil and Gas	54.6	100.0
Crude Oil	47.6	87.2
Cdn. Natural Gas	7.0	12.8
Forest Products	6.5	100.0
Lumber	5.5	84.1
OSB	1.0	15.9
Agricultural Products	9.1	100.0
Wheat	4.5	49.5
Canola	3.3	36.6
Hogs	0.3	3.0
Beef Cattle	1.0	10.9
All Commodities	100.0	—

Source: BMO Economics

Unless otherwise specified, all indices reported in this publication correspond to prices in U.S. dollars.

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