



ARC Commodity Factor Risk Model Monthly Report May 2020

The Asset Risk Company (ARC) Commodity model is a cross-sectional commodity factor model. Factors including commodity sectors, sub-sectors, and styles are estimated daily. It provides a framework for managing risk and investment decisions. The model is presented in a nesting format allowing the decision maker to view from a macro lense of broad classes (metals, energy, agricultural) to finer product classifications, while preserving the attribution of risk between the style and non-style factors.

YTD, MTD & Historical Styles Performance Report:

Factor	MTD Perf	YTD Perf	Historical Returns*	Volatility*	Sharpe Ratio*
Basis	-1.7%	-1.8%	-2.7%	2.4%	-1.1
Momentum	-1.7%	-1.6%	-3.7%	3.8%	-1.0
ST Momentum	-1.9%	-2.0%	1.8%	3.9%	0.5
Open Interest	0.3%	-9.4%	-2.8%	3.3%	-0.8
Trading Activity	0.3%	0.8%	0.2%	1.5%	0.1
Volatility	2.4%	-0.8%	0.1%	4.8%	0.0
ST Volatility	1.7%	0.7%	-1.4%	3.3%	-0.4

* Annualized 2017-2020

Basis and Short Term Momentum have returned to their recent historical trends, while Open Interest and Momentum have not done so. Basis and Momentum display a return/risk ratio of 1 over a 3.5 year period . Managers could benefit from portfolios tilted towards these factors.



Sectors, Subsectors MTD, YTD & Historical Report

Sectors experienced a big rally this month but are still underwater YTD. Note that sectors and sub-sectors returns are jointly estimated using ARC’s proprietary nesting model approach.

Factor	MTD Perf	YTD Perf	Historical Returns*	Volatility*	Sharpe Ratio*
Agriculture	6.1%	-8.0%	-5.0%	8.1%	-0.6
Grain And Oilseed	5.8%	-8.1%	-5.0%	9.5%	-0.5
Lumber And Pulp	15.2%	-5.8%	10.7%	29.0%	0.4
Proteins	5.8%	-10.1%	-3.2%	10.0%	-0.3
Softs	6.2%	-2.0%	-7.0%	9.6%	-0.7
Energy	8.7%	-15.9%	-8.3%	13.4%	-0.6
Biofuels	11.8%	-20.8%	-9.3%	19.3%	-0.5
Coal	-0.9%	-14.7%	-1.5%	15.0%	-0.1
Crude Oil	9.5%	-17.7%	-4.9%	15.4%	-0.3
Natural Gas	-0.4%	-6.9%	-9.0%	7.3%	-1.2
Petrochemicals	18.2%	-9.0%	-11.9%	20.9%	-0.6
Refined Products	9.0%	-31.7%	-12.2%	22.2%	-0.5
Metals	12.4%	-7.5%	4.8%	14.5%	0.3
Base	10.3%	-16.0%	1.7%	16.1%	0.1
Precious	16.9%	14.6%	10.3%	16.6%	0.6

Contact info@assetriskcompany for more information



* 2017-2020

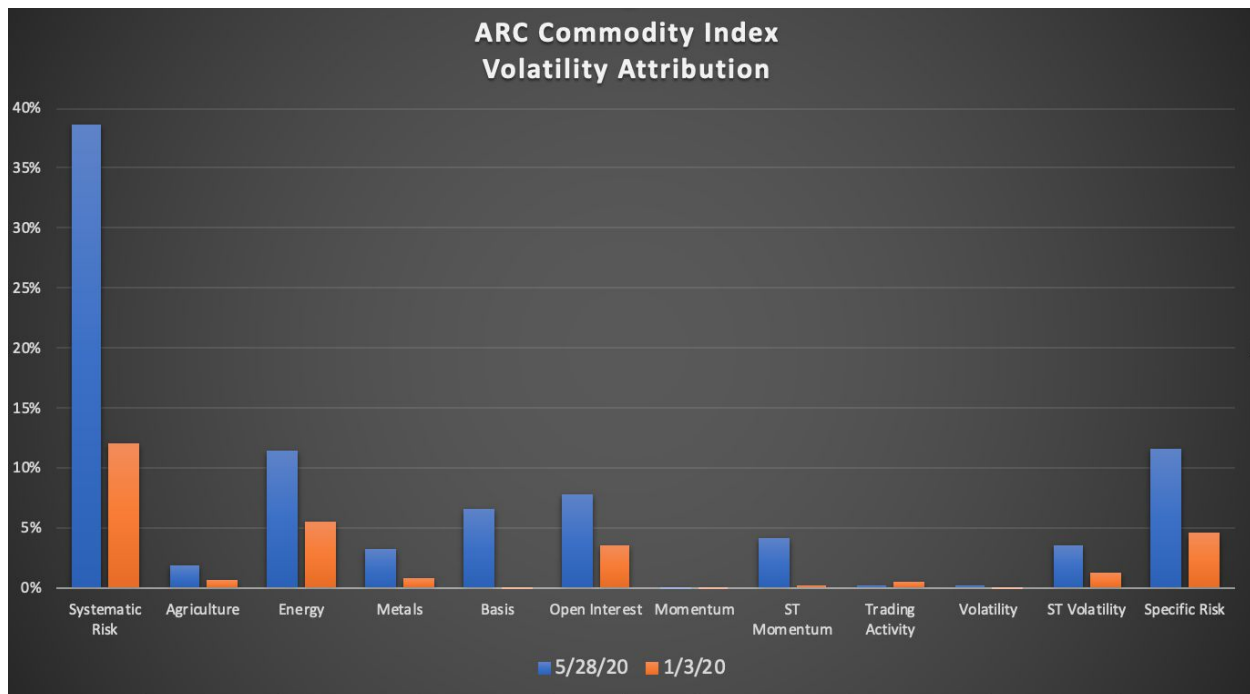
Factors Correlations:

Due to the recent volatility, there is an uptick in correlations between sectors.

Correlations	Agriculture	Energy	Metals	Basis	Momentum	ST Momentum	Open Interest	Trading Activity	Volatility	ST Volatility
Agriculture	1.00	0.63	0.58	(0.43)	0.37	(0.07)	(0.39)	(0.12)	0.27	0.34
Energy	0.80	1.00	0.65	(0.54)	0.70	(0.18)	(0.48)	(0.05)	0.28	0.34
Metals	0.81	0.87	1.00	(0.50)	0.35	(0.12)	(0.42)	(0.14)	0.16	0.33
Basis	(0.57)	(0.70)	(0.57)	1.00	(0.40)	0.07	0.40	0.13	(0.16)	(0.25)
Momentum	0.64	0.81	0.70	0.67	1.00	(0.18)	(0.32)	0.20	0.25	0.15
ST Momentum	(0.28)	(0.37)	(0.25)	(0.26)	(0.37)	1.00	0.23	(0.01)	(0.03)	0.18
Open Interest	(0.49)	(0.37)	(0.39)	(0.48)	0.03	(0.35)	1.00	0.39	(0.07)	(0.10)
Trading Activity	0.17	0.25	0.13	0.04	0.30	0.15	0.11	1.00	0.26	(0.10)
Volatility	0.45	0.44	0.38	0.35	0.04	0.20	0.33	0.44	1.00	(0.43)
ST Volatility	0.52	0.54	0.62	0.65	0.24	0.57	0.55	0.53	0.28	1.00

1 yr correlations on the right (above the diagonal), 30 days on left (below the diagonal).

ARC Commodity Index Risk Decomposition



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