

Database exists, assume schema does, too.

```
"\npd.to_datetime(idx2, errors='coerce')\nndf.index = pd.to_datetime(df.index, errors='coerce', format='%Y-%m-%d')\nndf = df.interpolate(method='time')\n\nfrequency = nyse_trading_dates.rename_axis([None]).index\n\nndf = prices.rename_axis([None]).reindex(frequency)\n\nfor d in prices.rename_axis([None]).index:\n    df.lo\n    c[d] = prices.loc[d]\n\nndf.interpolate(method='linear')\n\n#nyse_trading_dates.reset_index().set_index('index').rename_axis([None]).index\n"
```

Seasonal Indexes

	03-31	06-30	09-30	12-31
0	Energy ETF	Information Technology ETF	Information Technology ETF	Information Technology ETF
1	Information Technology ETF	Consumer Discretionary ETF	Consumer Discretionary ETF	Financials ETF
2	Utilities ETF	Energy ETF	SP500	Materials ETF
3	SP1500	Materials ETF	Industrials ETF	SP600
4	Industrials ETF	SP1500	SP1500	Consumer Discretionary ETF
5	SP500	SP500	Health Care ETF	SP400
6	SP600	SP600	Utilities ETF	SP500
7	Health Care ETF	SP400	Consumer Staples ETF	SP1500
8	Consumer Staples ETF	Health Care ETF	Financials ETF	Health Care ETF
9	SP400	Communication Services ETF	Materials ETF	Consumer Staples ETF
10	Financials ETF	Real Estate ETF	Communication Services ETF	Energy ETF
11	Consumer Discretionary ETF	Financials ETF	SP400	Utilities ETF
12	Real Estate ETF	Industrials ETF	Real Estate ETF	Industrials ETF
13	Materials ETF	Consumer Staples ETF	SP600	Real Estate ETF
14	Communication Services ETF	Utilities ETF	Energy ETF	Communication Services ETF

	03-31	06-30	09-30	12-31
SP1500	-0.010622	0.081757	0.041626	0.049958
SP500	-0.011990	0.080771	0.045646	0.050086
SP600	-0.017768	0.080509	0.019158	0.057970
SP400	-0.019859	0.080174	0.020554	0.051549
Communication Services ETF	-0.032872	0.075995	0.022591	0.017899
Consumer Discretionary ETF	-0.021214	0.120254	0.052510	0.052777
Consumer Staples ETF	-0.018663	0.035480	0.034807	0.045915
Energy ETF	0.055913	0.096281	-0.039735	0.042416
Financials ETF	-0.020711	0.061049	0.030176	0.065446
Health Care ETF	-0.017923	0.078706	0.041045	0.047467
Industrials ETF	-0.011020	0.058300	0.045427	0.039920
Information Technology ETF	0.006217	0.121831	0.068693	0.067531
Materials ETF	-0.026671	0.082827	0.027940	0.058669
Real Estate ETF	-0.026416	0.075756	0.019424	0.038472
Utilities ETF	-0.001263	0.026125	0.039218	0.042001

Note if the final data in the prices ends on a quarter, this will aggregate into the seasonal_index above and there will be no comparison
Current

06-10

Energy ETF	0.157138
Utilities ETF	-0.038317
Consumer Staples ETF	-0.056250
Materials ETF	-0.080392
SP600	-0.094221
Health Care ETF	-0.096116
Industrials ETF	-0.121767
SP400	-0.126263
SP1500	-0.133501
SP500	-0.136923
Financials ETF	-0.144127
Real Estate ETF	-0.145335
Communication Services ETF	-0.186172
Information Technology ETF	-0.190021
Consumer Discretionary ETF	-0.213144

standard deviations

	03-31	06-30	09-30	12-31
SP1500	0.134644	0.072380	0.037999	0.110320
SP500	0.127411	0.070450	0.039033	0.106496
SP600	0.199479	0.088447	0.037096	0.179394
SP400	0.157662	0.100224	0.037075	0.138781
Communication Services ETF	0.138244	0.095192	0.045269	0.123434
Consumer Discretionary ETF	0.151791	0.146922	0.083611	0.127243
Consumer Staples ETF	0.096633	0.035421	0.049261	0.063730
Energy ETF	0.369457	0.166709	0.099129	0.202483
Financials ETF	0.192299	0.053666	0.014462	0.140299
Health Care ETF	0.079810	0.054107	0.065798	0.098650
Industrials ETF	0.178470	0.072339	0.066050	0.134044
Information Technology ETF	0.135329	0.113409	0.054569	0.136753
Materials ETF	0.163483	0.099766	0.065317	0.127072
Real Estate ETF	0.161483	0.056090	0.032025	0.078165
Utilities ETF	0.092016	0.021473	0.033841	0.054883

t scores

	03-31	06-30	09-30	12-31
SP1500	-0.035281	0.505153	0.489908	0.202519
SP500	-0.042087	0.512730	0.522980	0.210329
SP600	-0.039834	0.407076	0.230960	0.144515
SP400	-0.056330	0.357747	0.247928	0.166115
Communication Services ETF	-0.106341	0.357027	0.223180	0.064848
Consumer Discretionary ETF	-0.062503	0.366041	0.280865	0.185493
Consumer Staples ETF	-0.086371	0.447954	0.315992	0.322196
Energy ETF	0.067680	0.258283	-0.179260	0.093682
Financials ETF	-0.048166	0.508740	0.933164	0.208614
Health Care ETF	-0.100433	0.650529	0.278976	0.215182
Industrials ETF	-0.027615	0.360421	0.307577	0.133187
Information Technology ETF	0.020546	0.480423	0.562966	0.220841
Materials ETF	-0.072960	0.371283	0.191302	0.206478
Real Estate ETF	-0.073157	0.604012	0.271246	0.220111
Utilities ETF	-0.006140	0.544116	0.518265	0.342246

p values

	03-31	06-30	09-30	12-31
SP1500	0.487036	0.675887	0.671106	0.573766
SP500	0.484537	0.678247	0.681422	0.576557
SP600	0.485364	0.644372	0.583899	0.552872
SP400	0.479310	0.627889	0.589904	0.560685
Communication Services ETF	0.461012	0.627646	0.581136	0.523813
Consumer Discretionary ETF	0.477047	0.630688	0.601465	0.567662
Consumer Staples ETF	0.468307	0.657720	0.613641	0.615774
Energy ETF	0.524851	0.593553	0.434579	0.534366
Financials ETF	0.482306	0.677006	0.790214	0.575945
Health Care ETF	0.463168	0.719135	0.600805	0.578288
Industrials ETF	0.489852	0.628793	0.610739	0.548761
Information Technology ETF	0.507551	0.668108	0.693606	0.580304
Materials ETF	0.473215	0.632451	0.569748	0.575182
Real Estate ETF	0.473143	0.705773	0.598102	0.580044
Utilities ETF	0.497743	0.687902	0.679964	0.622630

```
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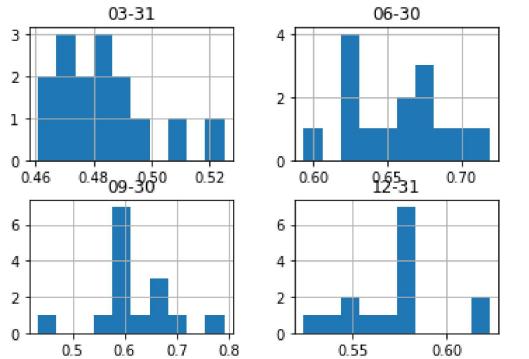


Figure 11: A Sector Roadmap for Business Cycles





Cycles

Strongest

Weakest

Expansion

Tech
Financials
Real Estate
Consumer D
Industrials
Materials
Energy
Healthcare
Cons. Staples
Utilities

Slowdown

Cons. Staples
Healthcare
Industrials
Utilities
Tech
Energy
Financials
Materials
Consumer D
Real Estate

Recession

Cons. Staples
Energy
Utilities
Healthcare
Consumer D
Materials
Industrials
Financials
Tech
Real Estate

Recovery

Real Estate
Consumer D
Materials
Tech
Industrials
Energy
Financials
Healthcare
Cons. Staples
Utilities

	Energy ETF	Utilities ETF	Consumer Staples ETF	Materials ETF	SP600	Health Care ETF	Industrials ETF	SP400	SP1500	SP500	Financials ETF	Real Estate ETF	Communication Services ETF	Information Technology ETF	Consumer Discretionary ETF
2017-03-31 00:00:00	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan
2017-06-30 00:00:00	-0.078709	0.022113	0.01040	0.026999	0.018327	0.072895	0.042167	0.031752	0.030375	0.030708	0.038955	0.017375	-0.024136	0.041388	0.028386
2017-09-30 00:00:00	0.069612	0.031518	-0.012346	0.066617	0.064962	0.040565	0.052781	0.035020	0.044807	0.045666	0.052789	0.008095	0.015498	0.083223	0.014521
2017-12-31 00:00:00	0.073946	0.000687	0.059268	0.071798	0.038747	0.018576	0.066175	0.074139	0.066880	0.069917	0.073683	0.012742	0.000763	0.093087	0.097848
2018-03-31 00:00:00	-0.078807	-0.033734	-0.073521	-0.072483	-0.011631	-0.020049	-0.033542	-0.003978	-0.021321	-0.024130	-0.015065	-0.086159	-0.085669	0.020711	-0.001942
2018-06-30 00:00:00	0.150528	0.053422	0.006353	0.036210	0.106722	0.055259	-0.008057	0.045520	0.052094	0.047568	-0.011331	0.094633	0.035862	0.080437	0.088528
2018-09-30 00:00:00	0.021911	0.019751	0.050064	0.007338	0.032842	0.137698	0.094874	0.032902	0.070536	0.078236	0.031675	0.000044	0.023115	0.117719	0.066008
2018-12-31 00:00:00	-0.267451	0.009925	-0.055862	-0.154310	-0.193040	-0.108129	-0.183620	-0.172165	-0.142834	-0.137319	-0.138848	-0.058855	-0.143117	-0.174415	-0.162070
2019-03-31 00:00:00	0.178564	0.103055	0.111156	0.126958	0.124660	0.081835	0.183161	0.157497	0.151853	0.144236	0.109942	0.173365	0.139541	0.217473	0.157197
2019-06-30 00:00:00	-0.048754	0.035855	0.036556	0.040951	0.010843	0.017469	0.034436	0.030815	0.039106	0.040369	0.067026	0.015389	0.035928	0.054745	0.040127
2019-09-30 00:00:00	-0.075658	0.090872	0.056319	-0.013089	-0.004200	-0.035439	0.004465	-0.009122	0.006291	0.011423	0.013235	0.075811	-0.002023	0.016115	0.002509
2019-12-31 00:00:00	0.054552	0.002011	0.036517	0.066971	0.082573	0.147851	0.058155	0.066590	0.090490	0.089876	0.096390	0.005745	0.086727	0.139034	0.056223
2020-03-31 00:00:00	-0.523877	-0.141270	-0.141472	-0.278876	-0.328050	-0.131539	-0.279339	-0.247693	-0.205302	-0.194477	-0.330709	-0.241350	-0.187109	-0.131215	-0.231167
2020-06-30 00:00:00	0.332245	0.024507	0.094561	0.260712	0.223617	0.164463	0.182339	0.259149	0.206715	0.201618	0.135641	0.135399	0.224230	0.318555	0.379795
2020-09-30 00:00:00	-0.188315	0.051209	0.098022	0.120651	0.032878	0.062281	0.118587	0.068091	0.086119	0.090383	0.028859	0.013268	0.097573	0.120087	0.192380
2020-12-31 00:00:00	0.300830	0.073335	0.074374	0.172363	0.312278	0.101111	0.178685	0.211458	0.132216	0.121185	0.253698	0.092916	0.182130	0.138205	0.172875
2021-03-31 00:00:00	0.324479	0.031042	0.030385	0.105419	0.184526	0.025327	0.116450	0.084662	0.070761	0.063518	0.165207	0.087920	0.083288	0.015110	0.073815
2021-06-30 00:00:00	0.126094	-0.005272	0.029888	0.049264	0.043034	0.083442	0.040613	0.033635	0.080495	0.083593	0.074954	0.115985	0.108092	0.114030	0.064435
2021-09-30 00:00:00	-0.026222	0.002739	-0.018026	-0.041816	-0.030694	0.000121	-0.043573	-0.024123	0.000378	0.002523	0.024323	-0.000098	-0.021207	0.006319	-0.012866
2021-12-31 00:00:00	0.050203	0.124048	0.115277	0.136524	0.049293	0.077925	0.080207	0.077726	0.103038	0.106772	0.042310	0.139811	-0.037011	0.141743	0.099010
2022-03-31 00:00:00	0.379204	0.034591	-0.019862	-0.014374	-0.058344	-0.045192	-0.041831	-0.089783	-0.049102	-0.049099	-0.032929	-0.065856	-0.114414	-0.090992	-0.103975
2022-06-10 00:00:00	0.157138	-0.038317	-0.056250	-0.080392	-0.094221	-0.096116	-0.121767	-0.126263	-0.133501	-0.136923	-0.144127	-0.145335	-0.186172	-0.190021	-0.213144

	2017-03-31 00:00:00	2017-06-30 00:00:00	2017-09-30 00:00:00	2017-12-31 00:00:00	2018-03-31 00:00:00	2018-06-30 00:00:00	2018-09-30 00:00:00	2018-12-31 00:00:00	2019-03-31 00:00:00	2019-06-30 00:00:00	2019-09-30 00:00:00	2019-12-31 00:00:00	2020-03-31 00:00:00	2020-06-30 00:00:00	2020-09-30 00:00:00	2020-12-31 00:00:00	2021-03-31 00:00:00	2021-06-30 00:00:00	2021-09-30 00:00:00	2021-12-31 00:00:00	2022-03-31 00:00:00	2022-06-10 00:00:00	
0	Health Care ETF	Information Technology ETF	Consumer Discretionary ETF	Information Technology ETF	Energy ETF	Health Care ETF	Utilities ETF	Information Technology ETF	Financials ETF	Utilities ETF	Health Care ETF	Information Technology ETF	Consumer Discretionary ETF	Consumer Discretionary ETF	SP600	Energy ETF	Energy ETF	Financials ETF	Information Technology ETF	Energy ETF	Energy ETF	Energy ETF	Energy ETF
	Industrials ETF	Energy ETF	Information Technology ETF	Consumer Discretionary ETF	SP600	Information Technology ETF	Consumer Staples ETF	Industrials ETF	Information Technology ETF	Real Estate ETF	Information Technology ETF	Health Care ETF	Energy ETF	Materials ETF	Energy ETF	SP600	Real Estate ETF	Information Technology ETF	Real Estate ETF	Utilities ETF	Utilities ETF	Utilities ETF	Utilities ETF
	Information Technology ETF	Materials ETF	SP400	SP400	Real Estate ETF	Industrials ETF	Real Estate ETF	Energy ETF	Materials ETF	Consumer Staples ETF	Financials ETF	Utilities ETF	Information Technology ETF	Information Technology ETF	Financials ETF	Financials ETF	Information Technology ETF	Utilities ETF	Materials ETF	Materials ETF	Consumer Staples ETF	Consumer Staples ETF	Consumer Staples ETF
	Financials ETF	SP600	Energy ETF	SP600	Consumer Discretionary ETF	SP500	Health Care ETF	Real Estate ETF	SP500	Information Technology ETF	SP1500	Consumer Staples ETF	Materials ETF	Industrials ETF	SP400	Industrials ETF	Communication Services ETF	SP500	Utilities ETF	Consumer Staples ETF	Materials ETF	SP500	Materials ETF
	SP400	Financials ETF	Financials ETF	Financials ETF	Information Technology ETF	SP1500	SP500	SP400	Consumer Discretionary ETF	Financials ETF	SP500	Communication Services ETF	SP400	Consumer Staples ETF	Communication Services ETF	Materials ETF	SP500	SP1500	Consumer Staples ETF	Financials ETF	SP600	SP600	SP600
	SP500	Industrials ETF	Materials ETF	Health Care ETF	Health Care ETF	Consumer Discretionary ETF	Financials ETF	Consumer Discretionary ETF	SP1500	SP500	Communication Services ETF	SP500	Communication Services ETF	Communication Services ETF	Industrials ETF	Real Estate ETF	Health Care ETF	Health Care ETF	SP500	Industrials ETF	Health Care ETF	SP500	SP500
	SP1500	SP500	SP500	SP1500	Utilities ETF	Consumer Staples ETF	SP1500	SP1500	Consumer Staples ETF	SP1500	SP600	SP1500	SP600	SP500	Consumer Discretionary ETF	SP400	SP1500	Real Estate ETF	SP1500	SP1500	Health Care ETF	Industrials ETF	Industrials ETF
	Consumer Discretionary ETF	SP1500	SP1500	SP1500	SP500	SP1500	SP400	Communication Services ETF	SP500	Communication Services ETF	Industrials ETF	Materials ETF	SP1500	SP1500	Materials ETF	Communication Services ETF	Financials ETF	Consumer Discretionary ETF	Consumer Discretionary ETF	SP500	SP500	SP400	SP400
	Materials ETF	Health Care ETF	Industrials ETF	Industrials ETF	SP500	SP600	Materials ETF	Communication Services ETF	Utilities ETF	Consumer Discretionary ETF	SP400	Real Estate ETF	SP500	SP400	Information Technology ETF	Consumer Discretionary ETF	Consumer Staples ETF	Industrials ETF	SP1500	SP1500	SP1500	SP1500	SP1500
	Utilities ETF	SP400	Consumer Staples ETF	Utilities ETF	SP400	Financials ETF	Consumer Discretionary ETF	Materials ETF	Industrials ETF	Communication Services ETF	Industrials ETF	SP400	Industrials ETF	Health Care ETF	SP1500	SP1500	Materials ETF	Communication Services ETF	Health Care ETF	SP600	SP600	SP500	SP500
	SP600	Utilities ETF	SP600	Materials ETF	Materials ETF	Communication Services ETF	SP400	SP600	SP400	SP600	Consumer Discretionary ETF	Materials ETF	Health Care ETF	Utilities ETF	SP500	SP500	SP600	SP400	SP400	SP400	Real Estate ETF	Financials ETF	Financials ETF
	Real Estate ETF	Communication Services ETF	Health Care ETF	Consumer Staples ETF	Communication Services ETF	Energy ETF	Information Technology ETF	Consumer Staples ETF	Health Care ETF	SP400	Energy ETF	Industrials ETF	Financials ETF	SP600	Health Care ETF	Utilities ETF	Industrials ETF	Energy ETF	SP400	Real Estate ETF	Real Estate ETF	Real Estate ETF	Real Estate ETF
	Consumer Staples ETF	Consumer Discretionary ETF	Real Estate ETF	Energy ETF	Consumer Staples ETF	Utilities ETF	Industrials ETF	Financials ETF	Real Estate ETF	Materials ETF	Consumer Staples ETF	SP600	Real Estate ETF	Financials ETF	Real Estate ETF	Consumer Staples ETF	SP400	SP600	Information Technology ETF	Communication Services ETF	Information Technology ETF	Information Technology ETF	Information Technology ETF
	Communication Services ETF	Real Estate ETF	Communication Services ETF	Communication Services ETF	Industrials ETF	Materials ETF	SP600	Utilities ETF	SP600	Health Care ETF	Real Estate ETF	Financials ETF	Consumer Staples ETF	Real Estate ETF	Consumer Staples ETF	Health Care ETF	Consumer Staples ETF	Materials ETF	Financials ETF	Consumer Discretionary ETF	Information Technology ETF	Information Technology ETF	Information Technology ETF
	Energy ETF	Consumer Staples ETF	Utilities ETF	Real Estate ETF	Financials ETF	Real Estate ETF	Energy ETF	Health Care ETF	Energy ETF	Energy ETF	Utilities ETF	Energy ETF	Utilities ETF	Energy ETF	Utilities ETF	Information Technology ETF	Utilities ETF	Industrials ETF	Communication Services ETF	Communication Services ETF	Communication Services ETF	Communication Services ETF	Consumer Discretionary ETF

Comparative to Seasonal Indexes, tells you who is over or underperforming.
 This is Seasonal Index - Extrapolated Current Quarter.

+: seasonal > current

-: current > seasonal

Note if the final data in the prices ends on a quarter, this will aggregate into the seasonal_index above and there will be no comparison

2022-06-10

Information Technology ETF	0.096313
Consumer Discretionary ETF	0.095053
Energy ETF	0.075929
Materials ETF	0.065233
SP1500	0.064383
SP500	0.063601
SP600	0.063392
SP400	0.063127
Health Care ETF	0.061962
Communication Services ETF	0.059812
Real Estate ETF	0.059622
Financials ETF	0.047976
Industrials ETF	0.045803
Consumer Staples ETF	0.027809
Utilities ETF	0.020457

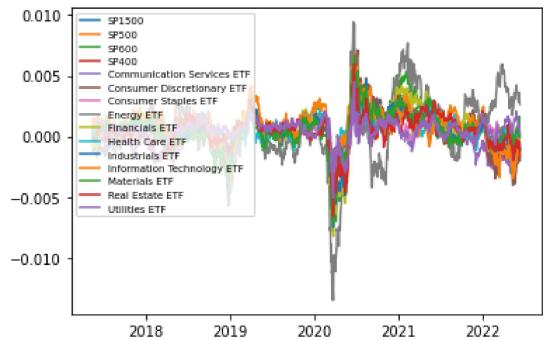
	2017-03-31 00:00:00	2017-06-30 00:00:00	2017-09-30 00:00:00	2017-12-31 00:00:00	2018-03-31 00:00:00	2018-06-30 00:00:00	2018-09-30 00:00:00	2018-12-31 00:00:00	2019-03-31 00:00:00	2019-06-30 00:00:00	2019-09-30 00:00:00	2019-12-31 00:00:00	2020-03-31 00:00:00	2020-06-30 00:00:00	2020-09-30 00:00:00	2020-12-31 00:00:00	2021-03-31 00:00:00	2021-06-30 00:00:00	2021-09-30 00:00:00	2021-12-31 00:00:00	2022-03-31 00:00:00	2022-06-10 00:00:00
0	Utilities ETF	Energy ETF	Consumer Discretionary ETF	Consumer Discretionary ETF	Energy ETF	Health Care ETF	Utilities ETF	Information Technology ETF	Utilities ETF	Real Estate ETF	Health Care ETF	Health Care ETF	Consumer Discretionary ETF	Consumer Discretionary ETF	Energy ETF	Energy ETF	Real Estate ETF	Energy ETF	Real Estate ETF	Energy ETF	Energy ETF	Information Technology ETF
	Health Care ETF	SP600	Energy ETF	SP400	Utilities ETF	Energy ETF	Real Estate ETF	Real Estate ETF	Financials ETF	Utilities ETF	Information Technology ETF	Consumer Staples ETF	Energy ETF	Materials ETF	SP600	SP600	Communication Services ETF	Financials ETF	Utilities ETF	Utilities ETF	Utilities ETF	Consumer Discretionary ETF
	Industrials ETF	Materials ETF	Industrials ETF	Information Technology ETF	SP600	Industrials ETF	Consumer Staples ETF	Industrials ETF	Consumer Staples ETF	Consumer Staples ETF	Communication Services ETF	Information Technology ETF	Information Technology ETF	Communication Services ETF	Financials ETF	Financials ETF	Energy ETF	Real Estate ETF	Materials ETF	Materials ETF	Energy ETF	Energy ETF
	Financials ETF	Financials ETF	Information Technology ETF	SP600	Real Estate ETF	Information Technology ETF	Health Care ETF	Consumer Discretionary ETF	Industrials ETF	Financials ETF	SP1500	Utilities ETF	SP400	Industrials ETF	Communication Services ETF	Materials ETF	Financials ETF	Utilities ETF	Information Technology ETF	Consumer Staples ETF	Materials ETF	Materials ETF
	Consumer Staples ETF	Information Technology ETF	SP400	Financials ETF	Health Care ETF	SP500	Communication Services ETF	SP400	Communication Services ETF	SP600	SP500	Communication Services ETF	Materials ETF	Consumer Staples ETF	SP400	Industrials ETF	Health Care ETF	Health Care ETF	Consumer Staples ETF	Financials ETF	SP1500	
	SP400	SP400	SP500	Health Care ETF	Consumer Staples ETF	SP1500	SP500	Communication Services ETF	SP500	Communication Services ETF	SP500	Financials ETF	SP500	Communication Services ETF	Information Technology ETF	Industrials ETF	Communication Services ETF	SP500	SP1500	SP500	Health Care ETF	SP500
	SP500	Industrials ETF	SP1500	SP1500	SP1500	SP1500	Consumer Staples ETF	SP1500	SP1500	Materials ETF	SP400	SP600	SP1500	SP400	Consumer Discretionary ETF	Real Estate ETF	SP1500	SP500	SP1500	Industrials ETF	SP600	
	SP1500	SP1500	Consumer Staples ETF	SP500	Consumer Discretionary ETF	SP600	Financials ETF	SP500	SP1500	SP500	Industrials ETF	SP1500	SP500	SP500	Materials ETF	SP400	Consumer Staples ETF	Communication Services ETF	Consumer Discretionary ETF	SP500	SP400	
	Materials ETF	SP500	Materials ETF	Industrials ETF	SP500	Consumer Discretionary ETF	Materials ETF	Materials ETF	SP400	SP1500	SP400	SP400	Real Estate ETF	Industrials ETF	SP1500	SP1500	Consumer Discretionary ETF	Information Technology ETF	SP400	Industrials ETF	SP1500	Health Care ETF
	Real Estate ETF	Health Care ETF	Financials ETF	Utilities ETF	SP400	SP400	Consumer Discretionary ETF	SP600	Real Estate ETF	Energy ETF	Energy ETF	SP400	SP500	Health Care ETF	SP500	SP500	SP1500	Industrials ETF	SP600	Health Care ETF	Real Estate ETF	Communication Services ETF
	SP600	Communication Services ETF	Communication Services ETF	Materials ETF	Communication Services ETF	Financials ETF	Industrials ETF	Financials ETF	Health Care ETF	Industrials ETF	Materials ETF	Materials ETF	Health Care ETF	SP600	Information Technology ETF	SP500	Utilities ETF	Consumer Staples ETF	SP400	SP600	Real Estate ETF	
	Information Technology ETF	Utilities ETF	SP600	Communication Services ETF	Information Technology ETF	Communication Services ETF	SP400	Consumer Staples ETF	Information Technology ETF	Materials ETF	Consumer Discretionary ETF	Industrials ETF	Financials ETF	Utilities ETF	Real Estate ETF	Consumer Staples ETF	Materials ETF	Information Technology ETF	Energy ETF	SP400	Financials ETF	
	Consumer Discretionary ETF	Real Estate ETF	Real Estate ETF	Consumer Staples ETF	Materials ETF	Real Estate ETF	Information Technology ETF	Energy ETF	SP600	Consumer Discretionary ETF	Consumer Staples ETF	Financials ETF	Real Estate ETF	Financials ETF	Health Care ETF	Health Care ETF	SP600	Consumer Discretionary ETF	SP600	Communication Services ETF	Industrials ETF	
	Communication Services ETF	Consumer Discretionary ETF	Health Care ETF	Real Estate ETF	Industrials ETF	Utilities ETF	SP600	Utilities ETF	Consumer Discretionary ETF	Information Technology ETF	Real Estate ETF	SP600	Consumer Staples ETF	Real Estate ETF	Utilities ETF	Utilities ETF	SP400	Materials ETF	Financials ETF	Consumer Discretionary ETF	Consumer Staples ETF	
	Energy ETF	Consumer Staples ETF	Utilities ETF	Energy ETF	Financials ETF	Materials ETF	Energy ETF	Health Care ETF	Energy ETF	Health Care ETF	Utilities ETF	Energy ETF	Utilities ETF	Energy ETF	Consumer Staples ETF	Information Technology ETF	Industrial ETF	Communication Services ETF	Information Technology ETF	Utilities ETF		

Index Symbol risk_trend_factor

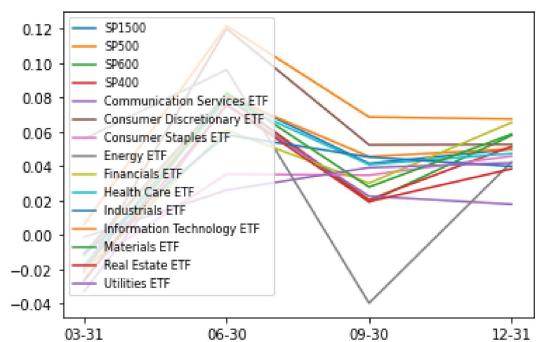
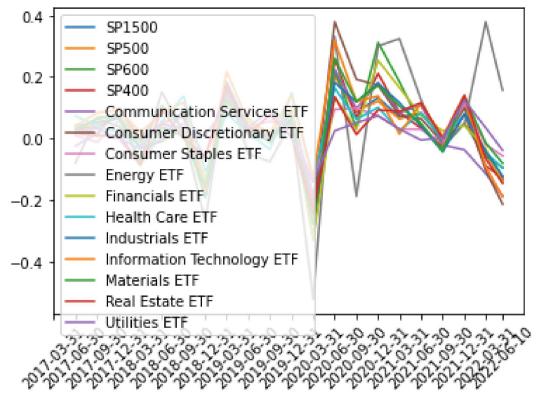
0	SP500	SPY	-4.314957
1	SP1500	SPTM	-4.323114
2	SP600	SLY	-5.831833
3	SP400	MDYG	-5.932476

Symbol risk_trend_factor Sector

3	VDE	3.378308	Energy ETF
10	VPU	-0.903846	Utilities ETF
2	VDC	-1.815370	Consumer Staples ETF
8	VAW	-2.983225	Materials ETF
9	VNQ	-3.885849	Real Estate ETF
5	VHT	-3.947143	Health Care ETF
6	VIS	-5.096830	Industrials ETF
1	VCR	-5.274843	Consumer Discretionary ETF
4	VFH	-5.669687	Financials ETF
7	VGT	-6.117689	Information Technology ETF
0	VOX	-9.183162	Communication Services ETF

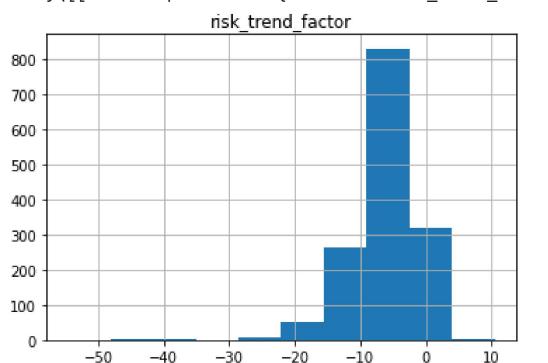


Quarterly Returns



2.2634783422537827

```
array([[<AxesSubplot:title={'center':'risk_trend_factor'}>]], dtype=object)
```



1530

```
Index(['Symbol', 'max_2y', 'min_2y', 'std_2y', 'mean_2y', 'max_1y', 'min_1y',
       'std_1y', 'mean_1y', 'latest_p', '2yr_close_0pct', '2yr_close_2pct',
       '2yr_close_9pct', '2yr_close_25pct', '2yr_close_50pct',
       '2yr_close_75pct', '2yr_close_91pct', '2yr_close_98pct',
       '2yr_close_100pct', '1yr_close_0pct', '1yr_close_2pct',
       '1yr_close_9pct', '1yr_close_25pct', '1yr_close_50pct',
       '2yr_close_75pct', '1yr_close_91pct', '1yr_close_98pct',
       '1yr_close_100pct', 'risk_trend_factor', 'supply_trend_1yr',
       'supply_trend_180d', 'supply_trend_90d', 'supply_trend_60d',
       'supply_trend_30d', 'vol_30d_2yr', 'pct_1yr', 'pct_2yr',
       'MIN_Lookback_One_Year', 'MIN_Lookback_6_Months',
       'MIN_Lookback_2_Months', 'MIN_Lookback_1_Months', 'volume_factor',
       'adf', 'hurst', 'Market Index', 'Sector'],
      dtype='object')
```

	Symbol	latest_p	risk_trend_factor	adf	hurst	Sector	Market Index	vol_30d_2yr
0	MTOR	36.119999	10.517268	0.308552	0.433895	error	SP600	20301256.12708
1	Y	834.109985	7.384772	0.389055	0.457411	Financial Services	SP400	1456858.698941
2	TVTY	32.279999	5.39315	0.524133	0.449983	error	SP600	14974563.993949
3	MCK	313.339996	4.004949	0.998714	0.463166	Healthcare	SP500	33946622.768533
4	ACC	64.769997	3.917188	0.981927	0.416828	error	SP400	20837020.877458
5	CVX	175.399994	3.856637	0.97985	0.498334	Energy	SP500	181490743.721634
6	EQT	47.959999	3.747308	0.932879	0.501911	Energy	SP400	137472571.699697
7	LNTH	63.849998	3.540933	0.990883	0.532857	Healthcare	SP600	10889615.279879
8	SWX	91.889999	3.530074	0.284442	0.398907	Utilities	SP400	7059509.304085
9	MPC	108.339996	3.513423	0.991702	0.523957	Energy	SP500	132481329.198185
10	MUSA	237.960007	3.50354	0.99617	0.410367	Consumer Cyclical	SP400	7365132.299546
11	SJI	34.060001	3.390476	0.165217	0.413386	Utilities	SP600	18167782.072617
12	VDE	123.860001	3.378308	0.947803	0.52196	error	Nan	15894021.482602
13	XOM	100.459999	3.314307	0.977852	0.536671	Energy	SP500	399482859.531014
14	DVN	74.059998	3.254185	0.994381	0.555599	Energy	SP500	181231964.523449
15	MRO	30.290001	3.229066	0.972772	0.54597	Energy	SP500	385905130.635401
16	PBF	40.330002	3.225693	0.730477	0.555776	Energy	SP600	65359710.136157
17	AFA	48.810001	3.199621	0.443494	0.44772	Energy	SP500	154170566.944024
18	CTRA	34.310001	3.192947	0.507048	0.467954	Energy	SP500	150668871.709531
19	COP	116.830002	3.181252	0.992942	0.491541	Energy	SP500	164910706.505295
20	VLO	140.509995	3.155888	0.970961	0.536721	Energy	SP500	84050366.565809
21	EOG	144.0	3.013262	0.922673	0.487021	Energy	SP500	86714140.166415
22	WRB	68.260002	2.908126	0.965152	0.455795	Financial Services	SP500	23023001.53177
23	HES	127.720001	2.88093	0.97499	0.449233	Energy	SP500	66701550.453858
24	CEIX	52.91	2.853516	0.933936	0.522101	Energy	SP600	9591390.71618
25	FANG	155.490005	2.734463	0.837164	0.472651	Energy	SP500	49440914.674735
26	CIVI	80.660004	2.668131	0.020246	0.49614	Energy	SP600	7642718.420575
27	NFG	72.650002	2.655036	0.982328	0.468009	Energy	SP400	11033521.558245
28	PDCE	84.129997	2.633596	0.76826	0.495944	Energy	SP400	26294633.055976
29	OXY	63.869999	2.620612	0.777852	0.546207	Energy	SP500	312554843.645991
30	PXD	270.869995	2.603258	0.935146	0.498349	Energy	SP500	41581229.500756
31	CNX	23.24	2.576298	0.784231	0.406859	Energy	SP400	79583176.67171
32	MTDR	65.230003	2.551954	0.987482	0.46805	Energy	SP400	50876450.529501
33	DINO	56.369999	2.525424	0.412505	0.562704	Energy	SP400	51935930.332829
34	HRB	35.450001	2.371017	0.838883	0.43511	Consumer Cyclical	SP400	61640658.16944
35	MUR	44.150002	2.319887	0.869435	0.455651	Energy	SP400	60623530.181543
36	SM	50.560001	2.268271	0.976245	0.479096	Energy	SP600	82761362.102874
37	RRC	34.439999	2.265651	0.784588	0.495379	Energy	SP400	159173207.564297

```
\nabove_1yearSDev = screener_good[screener_good['latest_p']]>screener['mean_1y']+screener_good['std_1y']]['Symbol'].values\nabove_2yearSDev = screener_good[screener_good['latest_p']]>screener['mean_2y']+screener_good['std_2y']]['Symbol'].values\nabove_yearSDev = np.intersect1d(above_1yearSDev,above_2yearSDev)\n\n\nabove_2year_t = screener[screener['pct_2yr']>threshold]['Symbol'].values\nabove_1year_t = screener[screener['pct_1yr']>threshold]['Symbol'].values\nabove_years_t = np.intersect1d(above_2year_t,above_1year_t)\n\n
```

Symbol

SP1500 SPTM

SP500 SPY

SP600 SLY

SP400 MDYG

adf < .05 or .01, mean reverting

Hurst

> .5 - The time series is mean reverting.

= .5 - The time series is a Geometric Brownian Motion.

< .5 - The time series is trending.

symbol: SPY

sector: error

sector: error

Index: SP500

supply trend: 1781380150.6807866

risk trend factor: -4.314957039491863

totalAssets trailingPE

SPY 3.781762e+11 4.292843

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSD 90d_lower 90d_upper

2022-06-10 389.799988 384.809441 402.729524 420.649606 424.242223 21.62419 380.993843 467.490604

volume_factor latest_p vol_30d_2yr pct_2yr adf hurst

SPY 1.065993 389.799988 1781380150.680787 0.501905 0.730083 0.423507

l axis r axis

legend

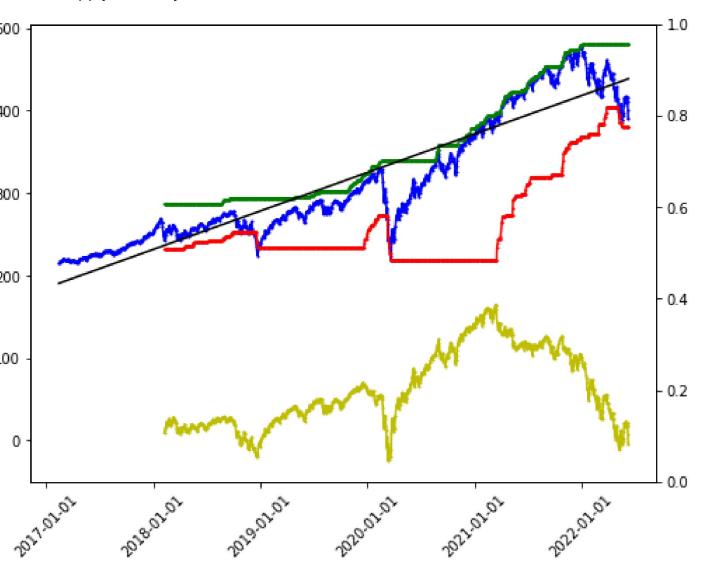
blue symbol magenta sector

green trailing_1yr_max cyan index

red trailing_1yr_min

black linear

yellow supply_trend_1yr



ets next 13 weeks

damped sell date: 2022-08-28

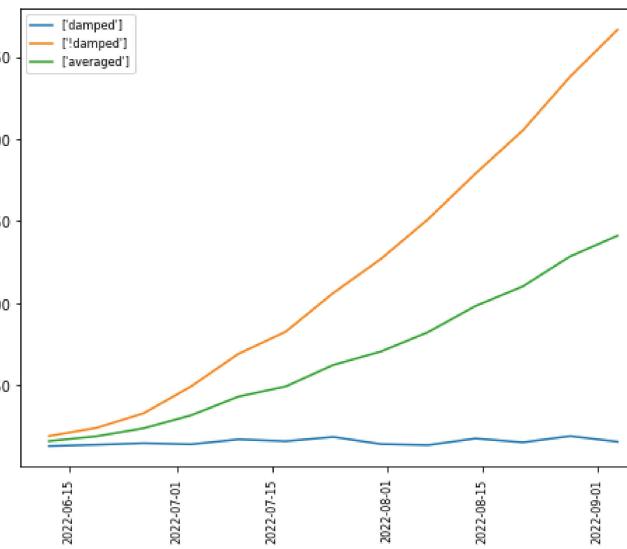
damped expected return: 0.07468322706745872

!damped sell date: 2022-09-04

!damped expected return: 0.7102359775557999

averaged sell date: 2022-09-04

averaged expected return: 0.38807218357922396



```

11
['options', ('2022-06-17', '2022-06-30', '2022-09-16', '2022-09-30', '2022-12-16', '2023-01-20', '2023-03-17', '2023-06-16', '2023-12-15', '2024-01-19', '2024-12-20')]
symbol: SPTM
sector: error
sector: error
Index: SP1500
supply trend: 10701430.030257186
risk trend factor: -4.323113872768143
Empty DataFrame
Columns: []
Index: [SPTM]

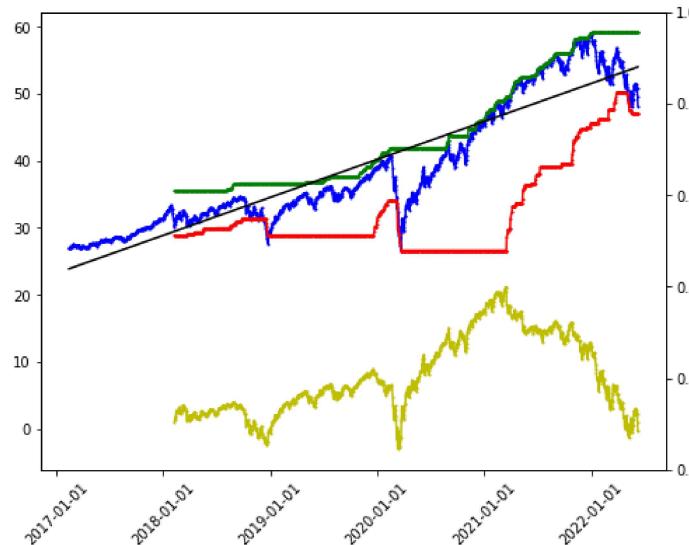
```

	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	48.16	47.422277	49.676984	51.931691	52.277778	2.617361	47.043055	57.5125

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
SPTM	1.445517	48.16	10701430.030257	0.514882	0.731043	0.430862

I axis r axis

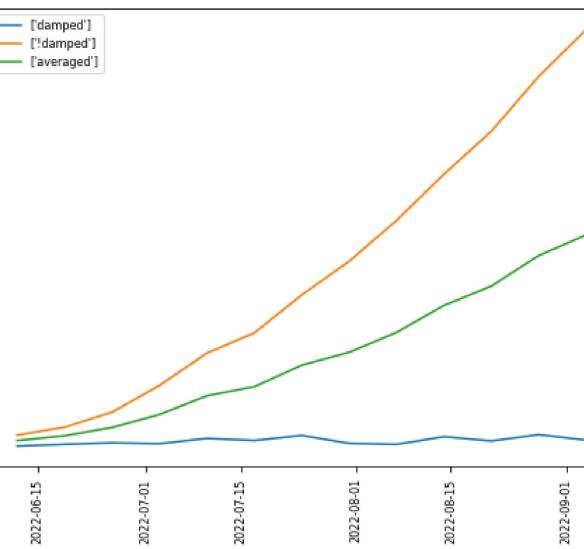
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```

ets next 13 weeks
damped sell date: 2022-08-28
damped expected return: 0.07559633122124303
!damped sell date: 2022-09-04
!damped expected return: 0.6762659927467498
averaged sell date: 2022-09-04
averaged expected return: 0.3719262662628116

```

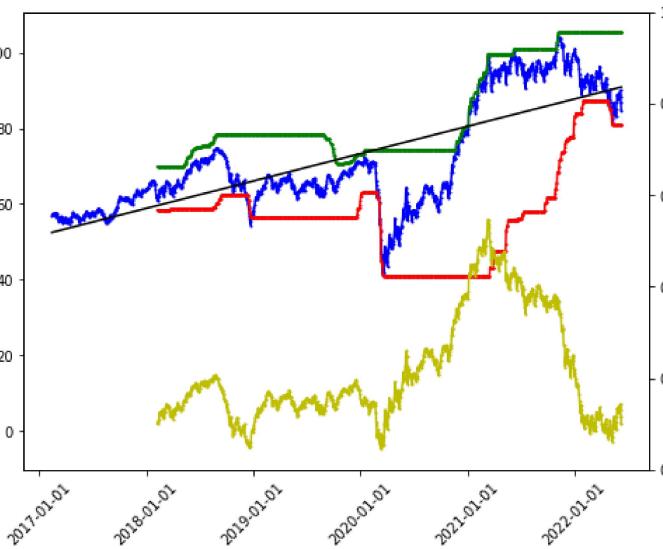


```
1
['options', ('2022-06-17',)]
symbol: SLY
sector: error
sector: error
Index: SP600
supply trend: 1733621.860816944
risk trend factor: -5.8318325611339
Empty DataFrame
Columns: []
Index: [SLY]
```

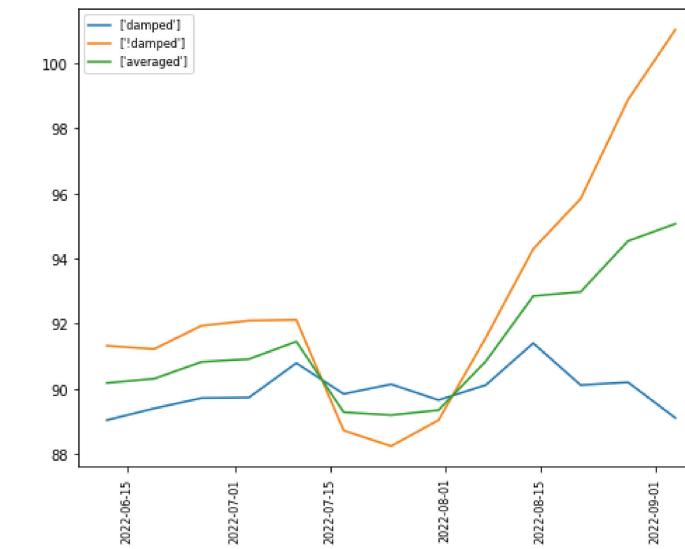
Adj Close	21d BOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_u
84.790001	81.56592	86.101746	90.637572	89.273651	3.873503	81.526645	97.02

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hrs
SLY	1.265097	84.790001	1733621.860817	0.58507	0.631357	0.51661

l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```
ets next 13 weeks
damped sell date: 2022-08-14
damped expected return: 0.07793979008442603
!damped sell date: 2022-09-04
!damped expected return: 0.1915107376251918
averaged sell date: 2022-09-04
averaged expected return: 0.1211735136862682
```

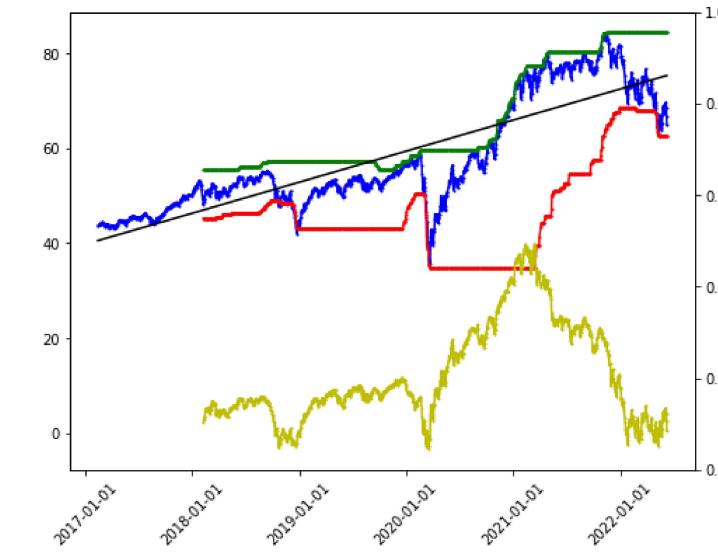


symbol: MDYG
 sector: error
 sector: error
 Index: SP400
 supply trend: 3870598.865355522
 risk trend factor: -5.932475578582748
 Empty DataFrame
 Columns: []
 Index: [MDYG]

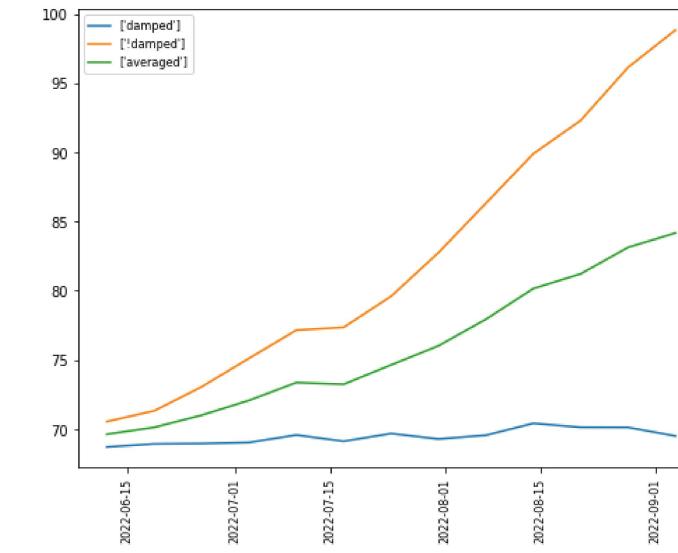
	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	64.839996	62.654627	66.371428	70.088229	69.963968	3.726597	62.510773	77.417163

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
MDYG	0.727588	64.839996	3870598.865356	0.405859	0.564973	0.453632

l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



ets next 13 weeks
 damped sell date: 2022-08-14
 damped expected return: 0.08605219542449717
 !damped sell date: 2022-09-04
 !damped expected return: 0.5241853828117127
 averaged sell date: 2022-09-04
 averaged expected return: 0.298087878766975



```

1
['options', ('2022-06-17',)]
symbol: VDE
sector: error
sector: Energy
Index: nan
supply trend: 15894021.482602118
risk trend factor: 3.3783083383264243
    totalAssets trailingPE
VDE 1.106882e+10 10.692059

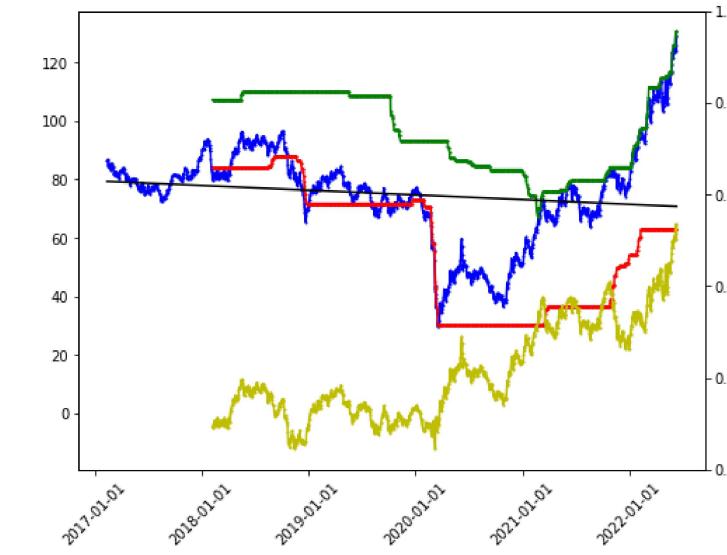
```

	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDDev	90d_lower	90d_upper
2022-06-10	123.860001	107.166137	119.294921	131.423705	111.724762	7.181377	97.362008	126.087517

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
VDE	1.169962	123.860001	15894021.482602	0.930759	0.947803	0.52196

l axis r axis

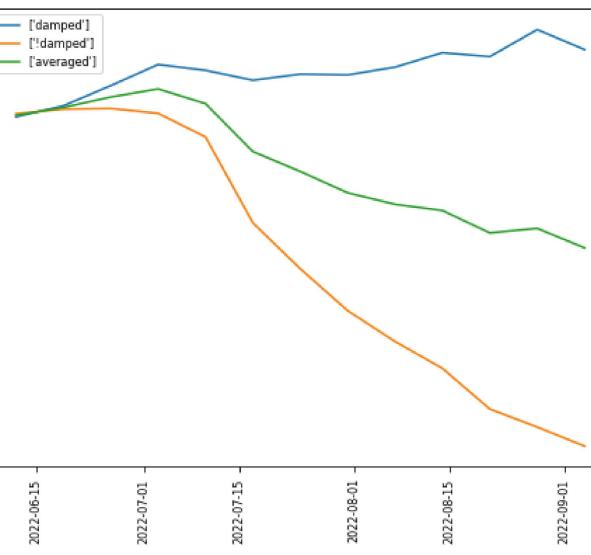
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```

ets next 13 weeks
damped sell date: 2022-08-28
damped expected return: 0.1507091054789791
!damped sell date: 2022-06-26
!damped expected return: 0.05230512941984442
averaged sell date: 2022-07-03
averaged expected return: 0.07667846728868494

```



```

1
['options', ('2022-06-17',)]
symbol: VPU
sector: error
sector: Utilities
Index: nan
supply trend: 4401008.169440242
risk trend factor: -0.9038459354057021
    totalAssets
VPU 7.799146e+09

```

volume factor latest p. vol 30d 3yr pct 3yr adj burst

VPU 1.073413 155.610001 4401008.16944 0.750053 0.731044 0.29924

axis

legend

blue symbol

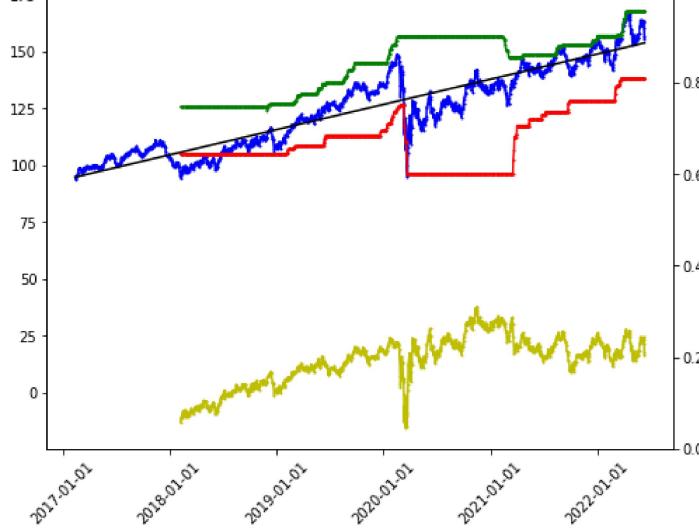
green trailing_1yr_max

red trailing_1yr_min

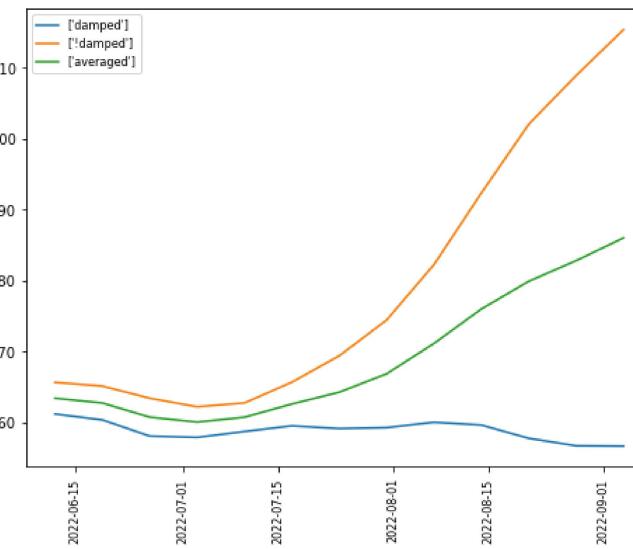
black linear

yellow supply trend 1yr

175 -



```
ets next 13 weeks
damped sell date: 2022-06-12
damped expected return: 0.03553481885364131
!damped sell date: 2022-09-04
!damped expected return: 0.38380437646793625
averaged sell date: 2022-09-04
averaged expected return: 0.1951485544855668
```



```

1
['options', ('2022-06-17',)]
symbol: VDC
sector: error
sector: Consumer Defensive
Index: nan
supply trend: 3239531.5431164904
risk trend factor: -1.81537011564274
    totalAssets
VDC 8.239956e+09

```

	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
--	-----------	---------	----------	---------	--------	---------	-----------	-----------

2022-06-10	184.889999	180.713861	189.626984	198.540108	195.577937	6.579991	182.417955	208.73792
-------------------	------------	------------	------------	------------	------------	----------	------------	-----------

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
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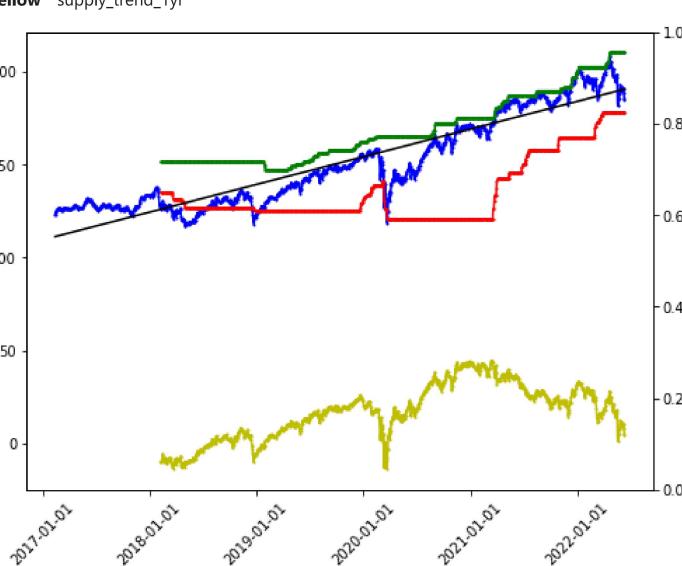
VDC	1.521146	184.889999	3239531.543116	0.610012	0.828818	0.357333
------------	----------	------------	----------------	----------	----------	----------

l axis r axis

legend **legend**

blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		

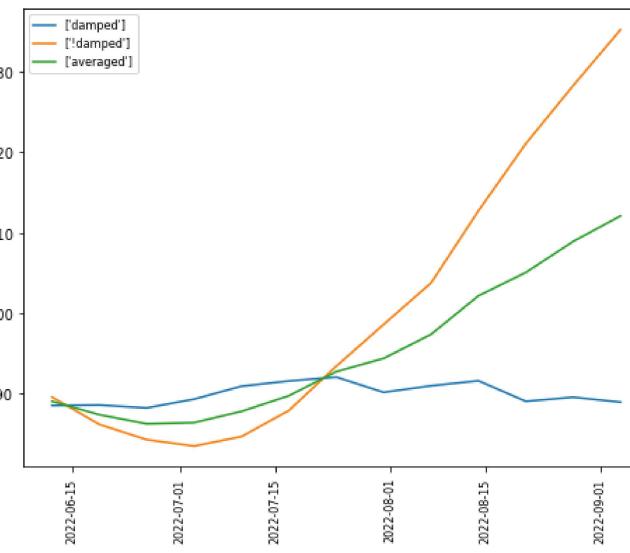
yellow supply_trend_1yr



```

ets next 13 weeks
damped sell date: 2022-07-24
damped expected return: 0.038927988845769194
!damped sell date: 2022-09-04
!damped expected return: 0.272182394079949
averaged sell date: 2022-09-04
averaged expected return: 0.14714266350185323

```



```

1
['options', ('2022-07-15',)]
symbol: VAW
sector: error
sector: Basic Materials
Index: nan
supply trend: 2531724.1301059
risk trend factor: -2.9832247911376593
    totalAssets
VAW 5.085875e+09
      Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper
2022-06-10 178.449997 175.041332 184.631904 194.222476 188.745238 6.207227 176.330784 201.159692

```

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
VAW	1.136419	178.449997	2531724.130106	0.735836	0.8001	0.433204

l axis r axis

legend **legend**

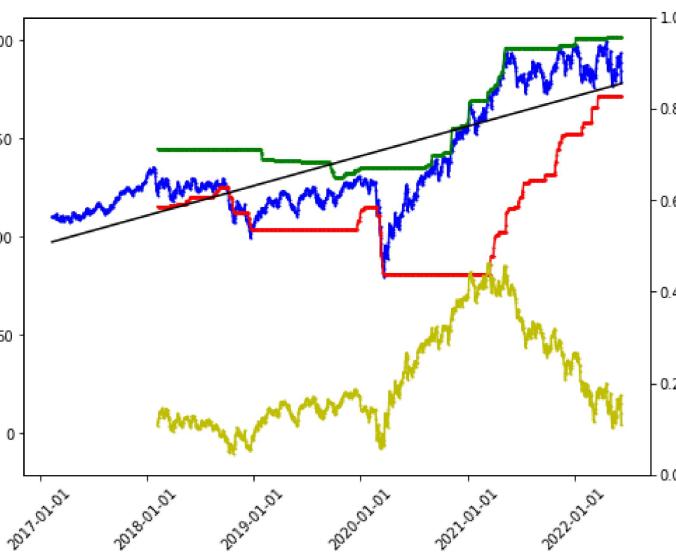
blue	symbol	magenta	sector
------	--------	---------	--------

green	trailing_1yr_max	cyan	index
-------	------------------	------	-------

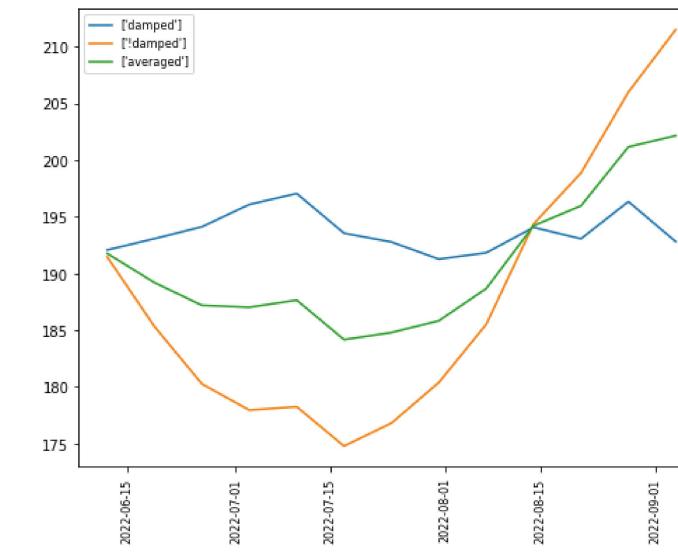
red	trailing_1yr_min		
-----	------------------	--	--

black	linear		
-------	--------	--	--

yellow	supply_trend_1yr		
--------	------------------	--	--



ets next 13 weeks
damped sell date: 2022-07-10
damped expected return: 0.10417537486997551
!damped sell date: 2022-09-04
!damped expected return: 0.18515338270633552
averaged sell date: 2022-09-04
averaged expected return: 0.1327817237691252



```

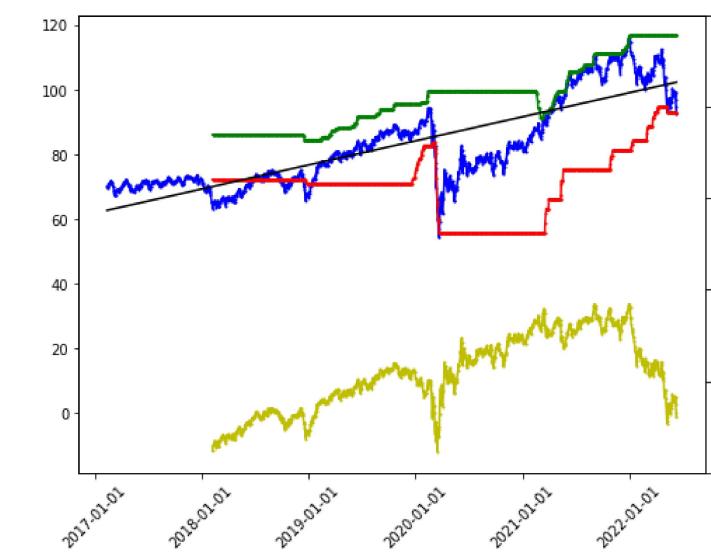
1
['options', ('2022-08-19',)]
symbol: VNZ
sector: error
sector: Real Estate
Index: nan
supply trend: 111305975.03782149
risk trend factor: -3.885849288582038
    totalAssets
VNZ 7.839537e+10

```

	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	92.620003	93.076579	96.729683	100.382786	103.130635	5.926759	91.277118	114.984153

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
VNZ	1.031909	92.620003	111305975.037821	0.416	0.514654	0.397188

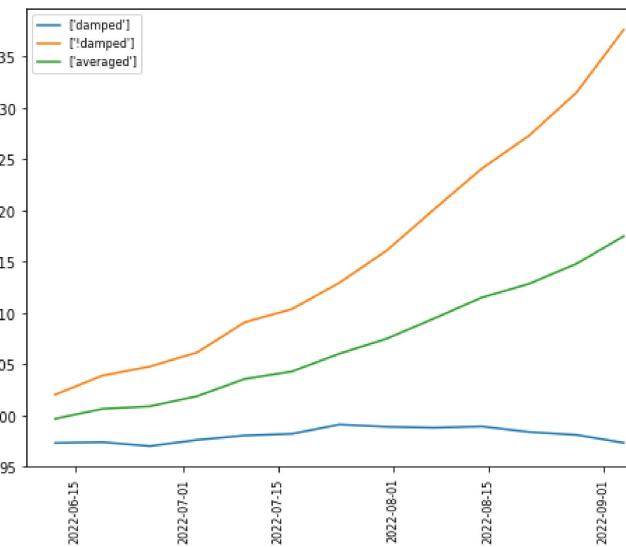
l axis r axis
legend **legend**
 blue symbol magenta sector
 green trailing_1yr_max cyan index
 red trailing_1yr_min
 black linear
 yellow supply_trend_1yr



```

ets next 13 weeks
damped sell date: 2022-07-24
damped expected return: 0.07015328759171113
!damped sell date: 2022-09-04
!damped expected return: 0.4860545091744939
averaged sell date: 2022-09-04
averaged expected return: 0.26850284095523597

```



3
['options', ('2022-06-17', '2023-01-20', '2024-01-19')]

symbol: VHT
sector: error
sector: Healthcare
Index: nan
supply trend: 5096065.052950076
risk trend factor: -3.9471429756913072
totalAssets trailingPE
VHT 1.944618e+10 5.167231

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDDev 90d_lower 90d_upper

2022-06-10 229.929993 231.084711 237.690476 244.296241 245.914285 9.56314 226.788005 265.040565

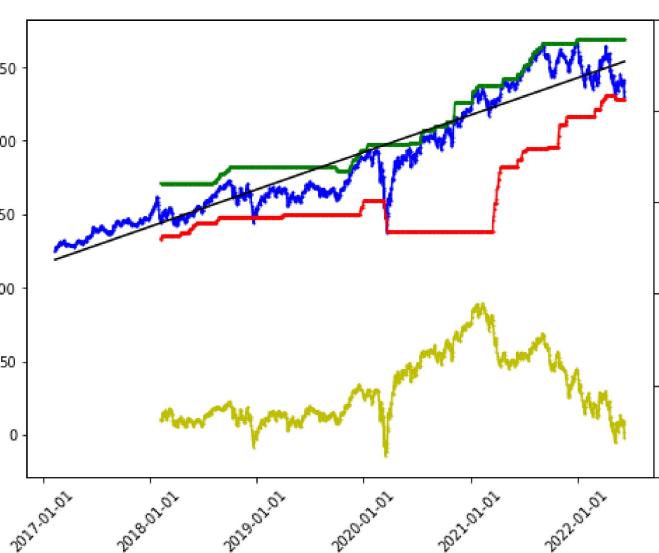
	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
VHT	0.947476	229.929993	5096065.05295	0.525621	0.693779	0.333477

l axis r axis

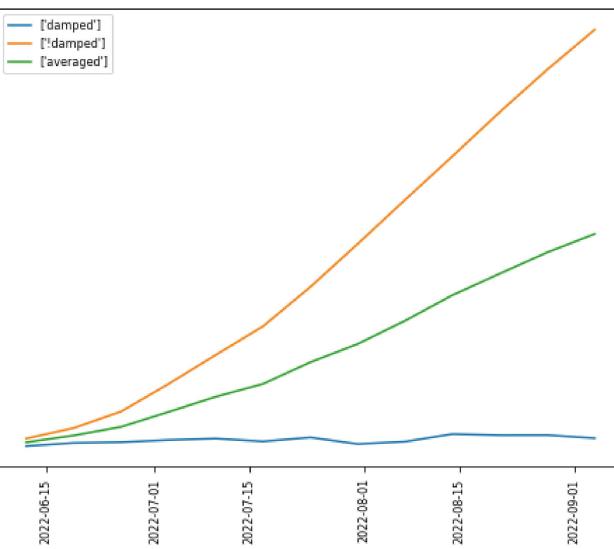
legend

blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		

yellow supply_trend_1yr



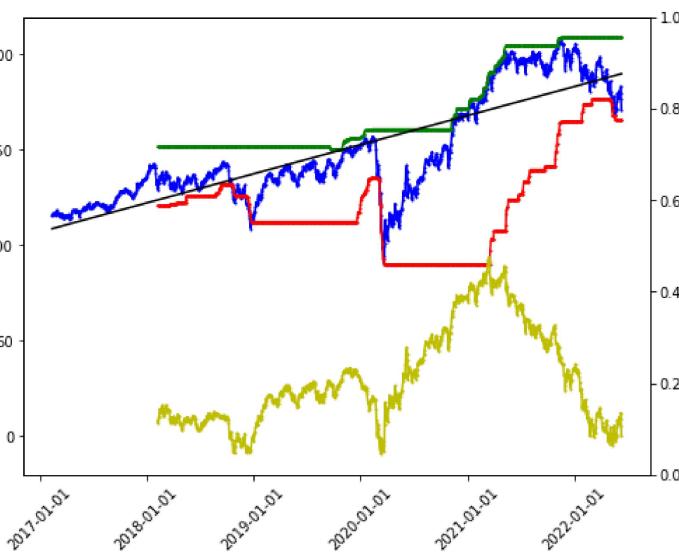
ets next 13 weeks
damped sell date: 2022-08-14
damped expected return: 0.05378595839721864
!damped sell date: 2022-09-04
!damped expected return: 0.7721775401304213
averaged sell date: 2022-09-04
averaged expected return: 0.4093066355572657



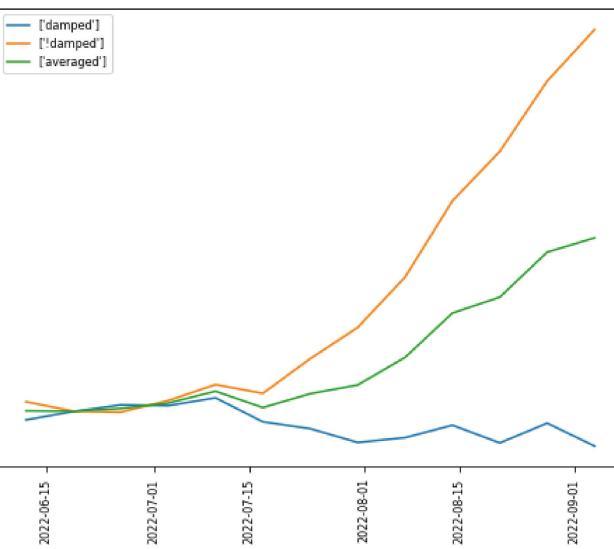
```
[1] ['options', ('2022-06-17',)]  
symbol: VIS  
sector: error  
sector: Industrials  
Index: nan  
supply trend: 3021835.7791225417  
risk trend factor: -5.096829776050353  
Empty DataFrame  
Columns: []  
Index: [VIS]  
  
Adj Close 21dBOLD 21dMA
```

2022-06-10 170.789993 166.918433 175.029841 183.141249 183.59 8.591236 166.407528 200.7724

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
VIS	0.897137	170.789993	3021835.779123	0.55486	0.557365	0.47266



```
ets next 13 weeks
damped sell date: 2022-07-10
damped expected return: 0.07414085204350107
!damped sell date: 2022-09-04
!damped expected return: 0.3290334907876525
averaged sell date: 2022-09-04
averaged expected return: 0.1848941553441712
```



```

1
['options', ('2022-08-19',)]
symbol: VCR
sector: error
sector: Consumer Cyclical
Index: nan
supply trend: 2149496.8229954615
risk trend factor: -5.274842912889847
    totalAssets
VCR  6.015592e+09

```

volume_factor latest_p vol_30d_2yr pct_2yr adf hurst

legend **legend**

• 100 •

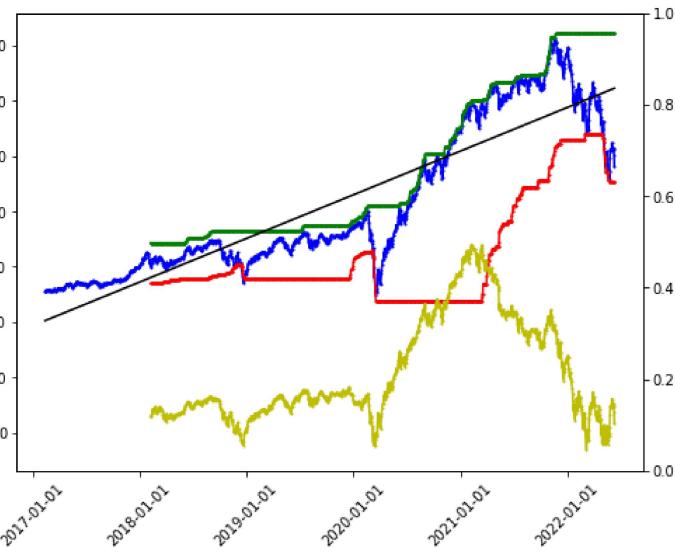
blue symbol

reen training_1yr_max

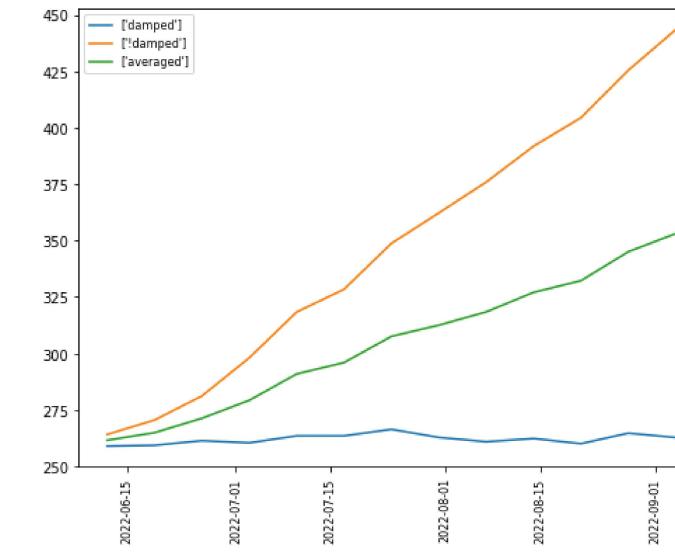
red trailing_1yr_min

lack linear

allow supply_trend_1yr



```
ets next 13 weeks
damped sell date: 2022-07-24
damped expected return: 0.10903811991356427
!damped sell date: 2022-09-04
!damped expected return: 0.8461757317468016
averaged sell date: 2022-09-04
averaged expected return: 0.4700412582495429
```



```

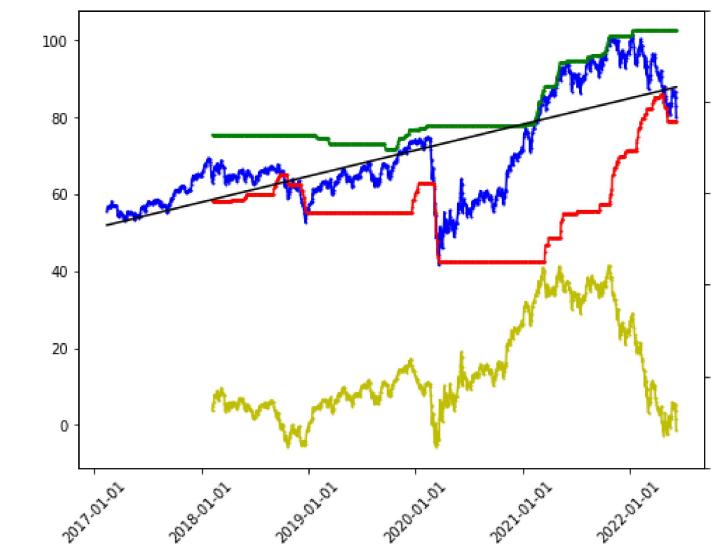
1
['options', ('2022-06-17',)]
symbol: VFH
sector: error
sector: Financial Services
Index: nan
supply trend: 15854911.649016641
risk trend factor: -5.669686524892829
    totalAssets
VFH 1.055284e+10

```

	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	79.93	79.139405	83.671588	88.203771	88.13127	4.903389	78.324492	97.938048

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
VFH	1.068786	79.93	15854911.649017	0.524221	0.532803	0.492594

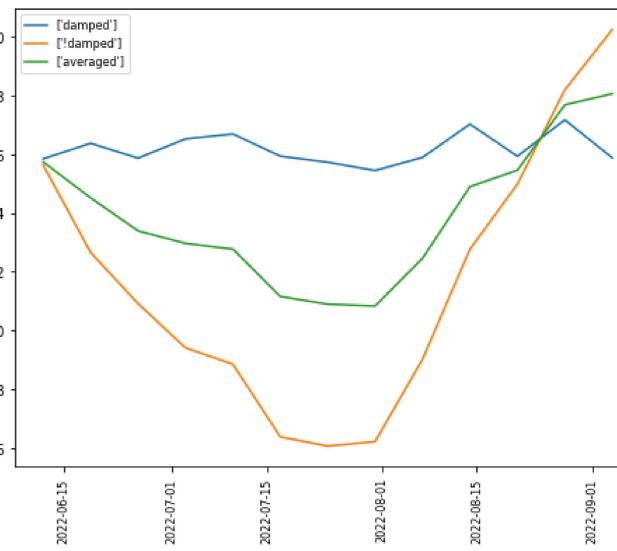
l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```

ets next 13 weeks
damped sell date: 2022-08-28
damped expected return: 0.09057745227206852
!damped sell date: 2022-09-04
!damped expected return: 0.12907048418850128
averaged sell date: 2022-09-04
averaged expected return: 0.10174424343737425

```



```

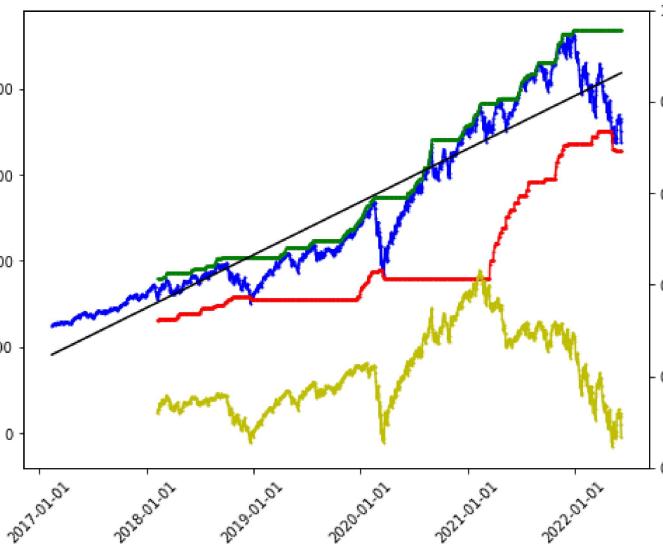
1
['options', ('2022-08-19',)]
symbol: VGT
sector: error
sector: Technology
Index: nan
supply trend: 13900429.727685325
risk trend factor: -6.117689136620628
    totalAssets
VGT 5.044675e+10
      Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper
2022-06-10 337.339996 330.411387 350.71381 371.016232 377.021272 26.470697 324.079878 429.962665

```

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
VGT	1.13554	337.339996	13900429.727685	0.3501	0.739205	0.427823

l axis r axis

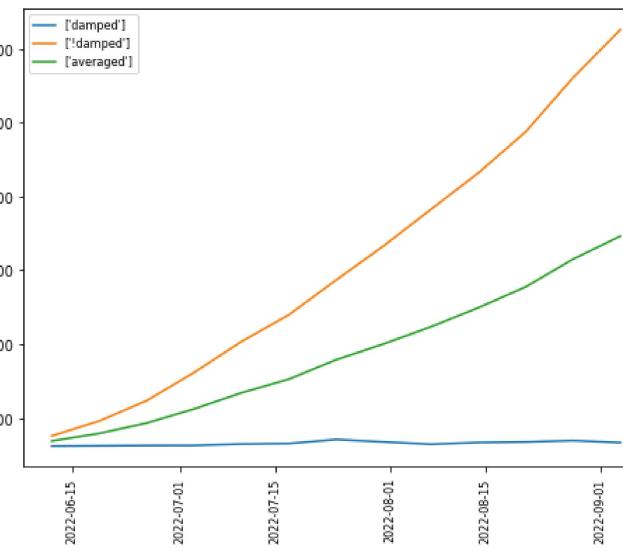
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```

ets next 13 weeks
damped sell date: 2022-07-24
damped expected return: 0.09931793133060811
!damped sell date: 2022-09-04
!damped expected return: 1.7451063477705429
averaged sell date: 2022-09-04
averaged expected return: 0.9160452679015226

```



```
2
['options', ('2022-06-17', '2022-08-19')]
```

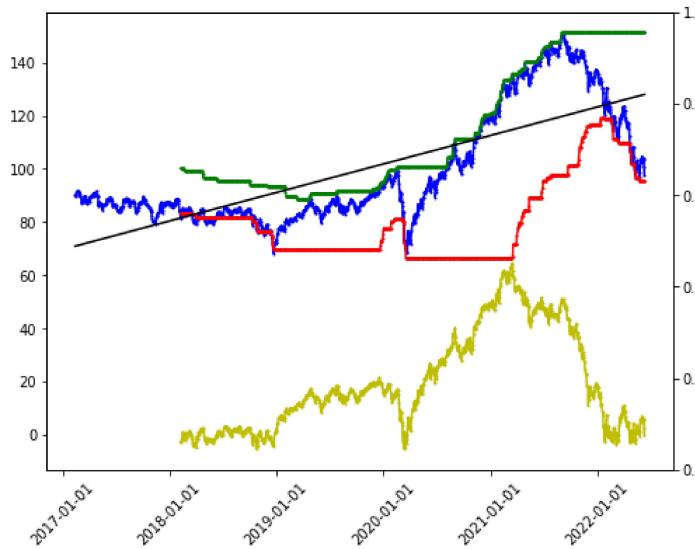
```
symbol: VOX
sector: error
sector: Communication Services
Index: nan
supply trend: 4281925.491679274
risk trend factor: -9.183162170232858
```

```
Empty DataFrame
Columns: []
Index: [VOX]
```

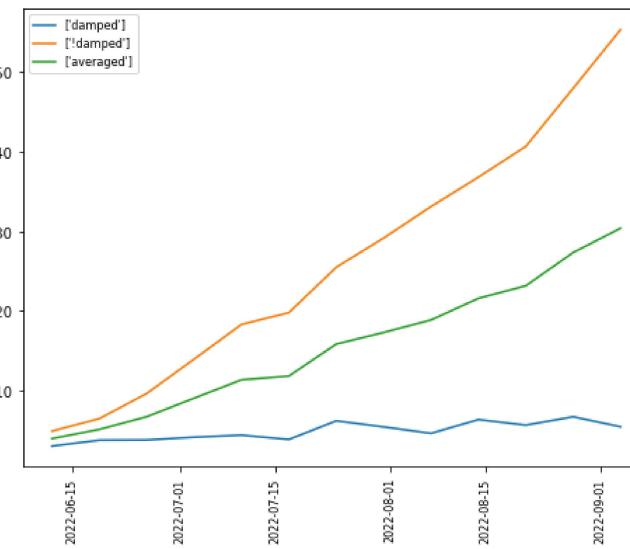
	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	97.699997	97.197858	101.223333	105.248808	109.186032	8.472157	92.241718	126.130346

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
VOX	1.950828	97.699997	4281925.491679	0.137637	0.718884	0.512033

l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```
ets next 13 weeks
damped sell date: 2022-08-28
damped expected return: 0.09247931152250681
!damped sell date: 2022-09-04
!damped expected return: 0.5897964601319775
averaged sell date: 2022-09-04
averaged expected return: 0.3347257363546399
```



```

1
['options', ('2022-07-15',)]
symbol: MTOR
sector: error
sector: error
Index: SP600
supply trend: 20301256.12708018
risk trend factor: 10.517268141249515
Empty DataFrame
Columns: []
Index: [MTOR]

```

	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	36.119999	35.91395	36.090158	36.266367	35.849206	0.25859	35.332026	36.366386

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
MTOR	1.167952	36.119999	20301256.12708	0.990077	0.308552	0.433895

l axis r axis

legend

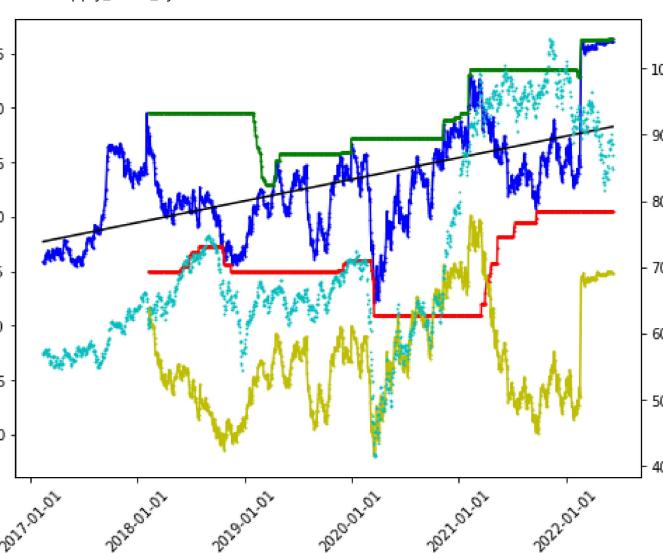
blue	symbol	magenta	sector
------	--------	---------	--------

green	trailing_1yr_max	cyan	index
-------	------------------	------	-------

red	trailing_1yr_min
-----	------------------

black	linear
-------	--------

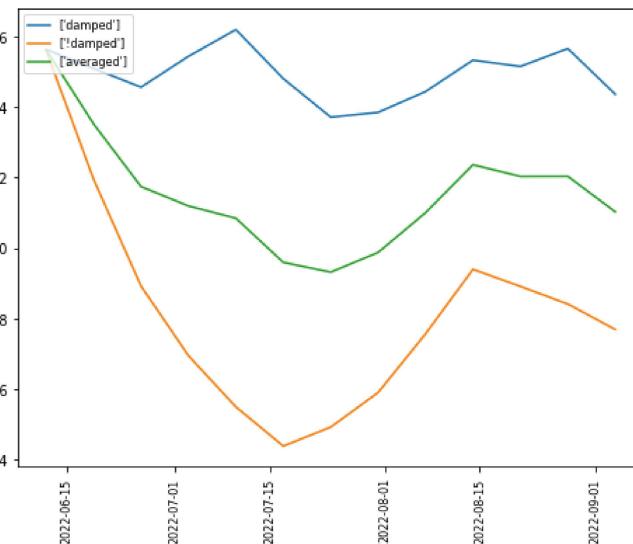
yellow	supply_trend_1yr
--------	------------------



```

ets next 13 weeks
damped sell date: 2022-07-10
damped expected return: 0.0018817399253713135
!damped sell date: 2022-06-12
!damped expected return: -0.014534196800385089
averaged sell date: 2022-06-12
averaged expected return: -0.01412355500692669

```



```

1
['options', ('2022-08-19',)]
symbol: Y
sector: Financial Services
Index: SP400
supply trend: 1456858.6989409984
risk trend factor: 7.384771627869685
    beta currentRatio debtToEquity earningsGrowth      ebitda \
Y  0.663839      1.597     31.5      -0.433  1620000000
      ebitdaMargins forwardPE freeCashflow grossMargins grossProfits \
Y  0.13423     9.936376   90016496     0.44211  5101669000
      heldPercentInstitutions           industry      marketCap \
Y      0.86723  Insurance—Property & Casualty  11220848640
      operatingCashflow operatingMargins payoutRatio pegRatio priceToBook \
Y  1928840960      0.11935       0     0.15    1.305451
      priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
Y  0.929715      0.0771      1.004     0.02938
      returnOnEquity revenueGrowth revenuePerShare      sector \
Y  0.11868       0.025      878.577  Financial Services
      sharesOutstanding shortRatio  totalCash totalCashPerShare  totalDebt \
Y  13454900      2.32  2298860032     170.857  2822777088
      totalRevenue trailingPE
Y  12069126144  12.311554
      Adj Close  21dBOLD  21dMA-TP  21dBOLU  90dSMA  90dSDev  90d_lower  90d_upper
2022-06-10  834.109985  831.51432  833.616982  835.719644  825.774444  46.881434  732.011576  919.537313

```

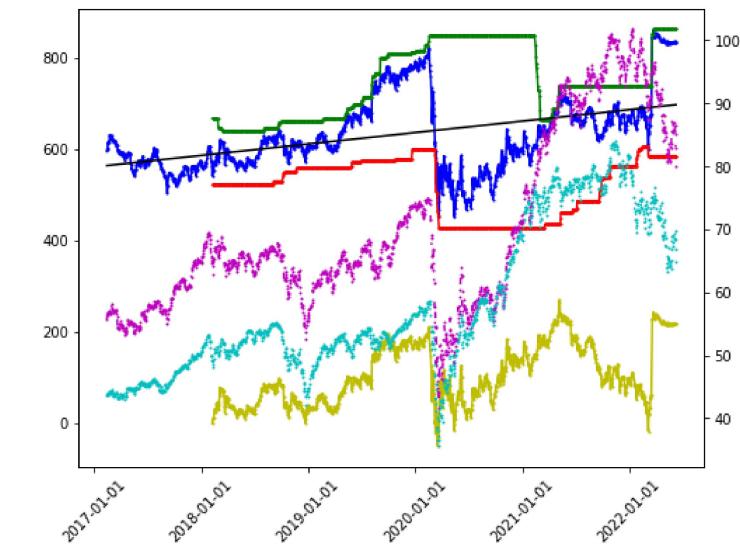
volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst	
Y	1.713893	834.109985	1456858.698941	0.928509	0.389055	0.457411

l axis

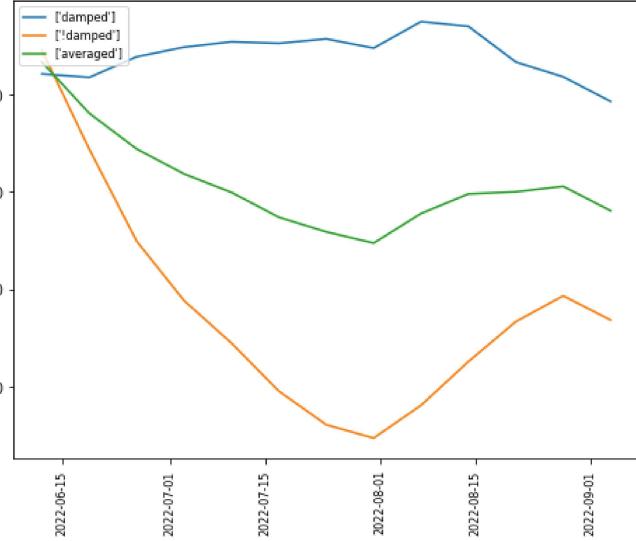
r axis

legend

blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



sets next 13 weeks
 damped sell date: 2022-08-07
 damped expected return: 0.00405218950026683
 !damped sell date: 2022-06-12
 !damped expected return: -0.013664727546721047
 averaged sell date: 2022-06-12
 averaged expected return: -0.02091607118208603



```

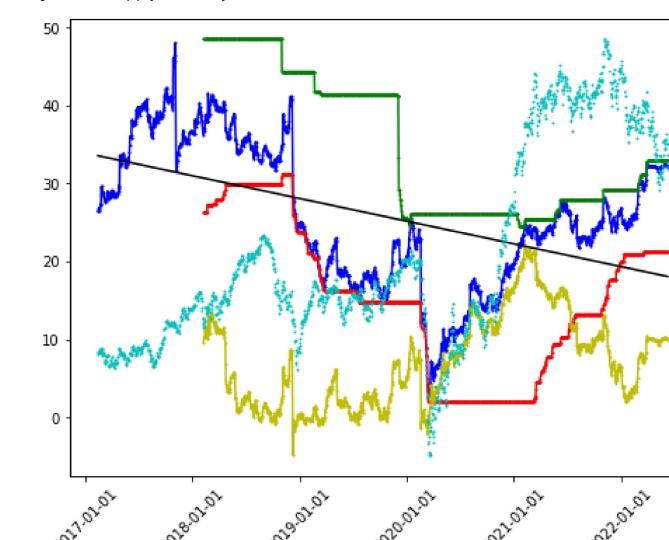
1
['options', ('2022-07-15',)]
27
['sustainability',           Value
2022-5
palmOil          False
controversialWeapons False
gambling          False
socialScore        8.71
nuclear           False
furLeather        False
alcoholic          False
gmo                False
catholic           False
socialPercentile  None
peerCount          96
governanceScore   11.77
environmentPercentile  None
animalTesting     False
tobacco            False
totalEsg           21.71
highestControversy 1
esgPerformance    AVG_PERF
coal               False
pesticides         False
adult              False
percentile         30.32
peerGroup          Insurance
smallArms          False
environmentScore   1.23
governancePercentile  None
militaryContract  False]
symbol: TVTY
sector: error
sector: error
Index: SP600
supply trend: 14974563.993948562
risk trend factor: 5.3931495326188665
Empty DataFrame
Columns: []
Index: [TVTY]

```

	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	32.279999	31.743907	32.163968	32.58403	31.682698	1.007618	29.667462	33.697934

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
TVTY	0.975728	32.279999	14974563.993949	0.973128	0.524133	0.449983

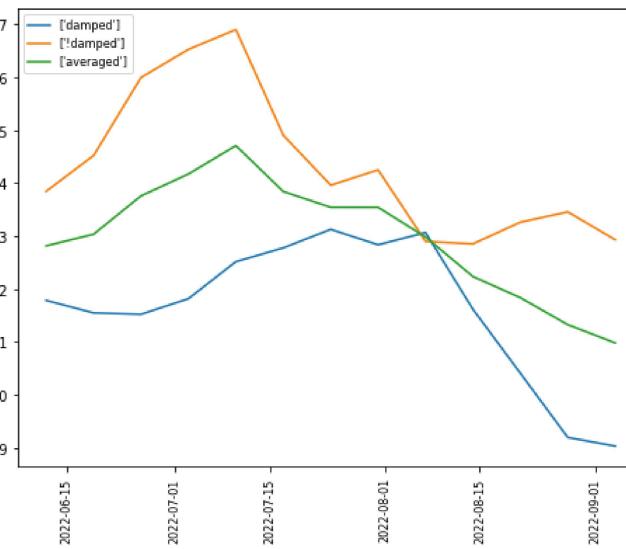
l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```

ets next 13 weeks
damped sell date: 2022-07-24
damped expected return: 0.02615669790355043
!damped sell date: 2022-07-10
!damped expected return: 0.14313338425044575
averaged sell date: 2022-07-10
averaged expected return: 0.07518619883207427

```



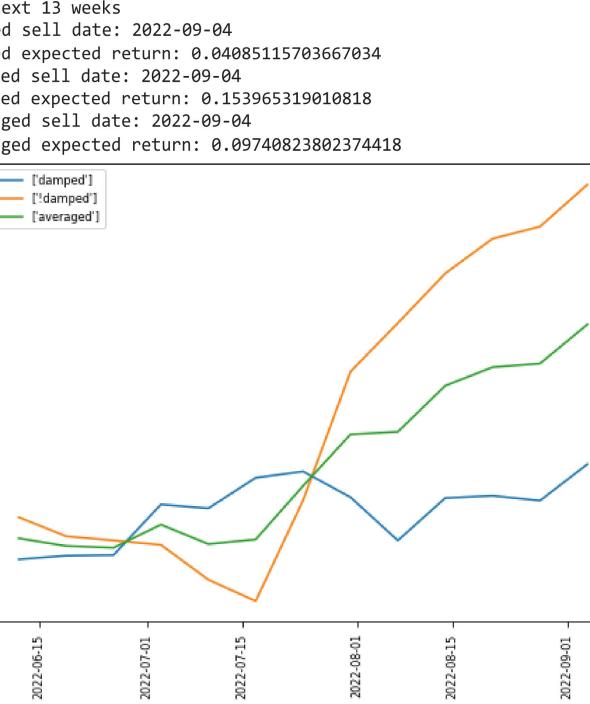
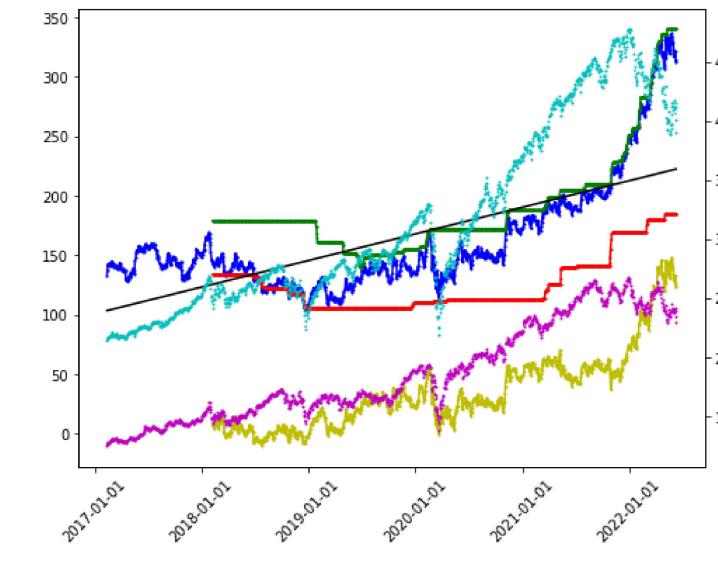
```

1
['options', ('2022-08-19',)]
symbol: MCK
sector: Healthcare
Index: SP500
supply trend: 33946622.76853253
risk trend factor: 4.004949352728542
    beta currentRatio dividendRate dividendYield earningsGrowth \
MCK 0.663839      0.954     1.88      0.0059     -0.406
        ebitda ebitdaMargins forwardPE freeCashflow grossMargins \
MCK 3191000064      0.01209   12.411926  2685625088     0.04957
        grossProfits heldPercentInstitutions industry marketCap \
MCK 13084000000      0.9152   Medical Distribution 45990576128
        operatingCashflow operatingMargins payoutRatio pegRatio \
MCK 4433999872      0.00965    0.2521      1
        priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
MCK 0.174229      0.00422     0.456      0.02481
        revenueGrowth revenuePerShare sector sharesOutstanding shortRatio \
MCK 0.118       1733.198   Healthcare      145364992      2.18
        totalCash totalCashPerShare totalDebt totalRevenue trailingPE
MCK 3532000000      24.297   7616999936 263965999104 43.771442
Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper
2022-06-10 313.339996 310.325661 323.309364 336.293067 316.762698 11.943256 292.876186 340.649211

volume_factor latest_p vol_30d_2yr pct_2yr adf hurst
MCK 0.653279 313.339996 33946622.768533 0.86712 0.998714 0.463166

l axis r axis
legend legend
blue symbol magenta sector
green trailing_1yr_max cyan index
red trailing_1yr_min
black linear
yellow supply_trend_1yr

```



```

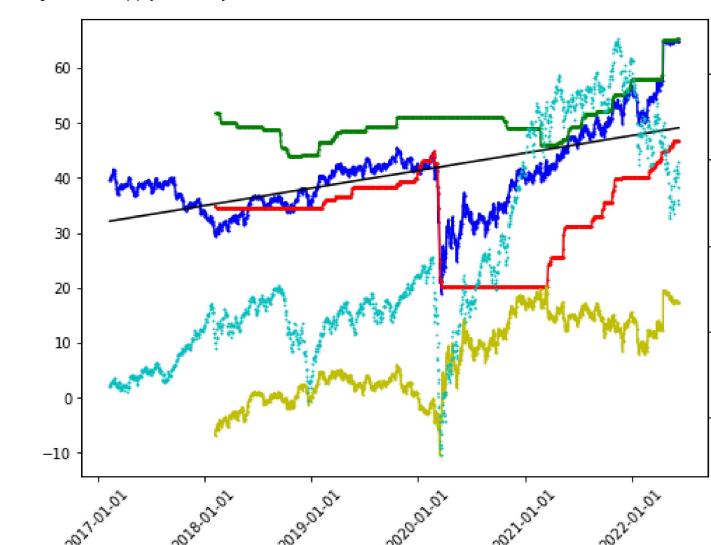
3
['options', ('2022-08-19', '2023-01-20', '2024-01-19')]
27
['sustainability', Value
2022-5
palmOil False
controversialWeapons False
gambling False
socialScore 7.37
nuclear False
furLeather False
alcoholic False
gmo False
catholic False
socialPercentile None
peerCount 58
governanceScore 5.52
environmentPercentile None
animalTesting False
tobacco False
totalEsg 15.17
highestControversy 3
esgPerformance UNDER_PERF
coal False
pesticides False
adult False
percentile 10.18
peerGroup Healthcare
smallArms False
environmentScore 2.29
governancePercentile None
militaryContract False]
symbol: ACC
sector: error
sector: error
Index: SP400
supply trend: 20837020.877458397
risk trend factor: 3.9171880564096475
Empty DataFrame
Columns: []
Index: [ACC]

```

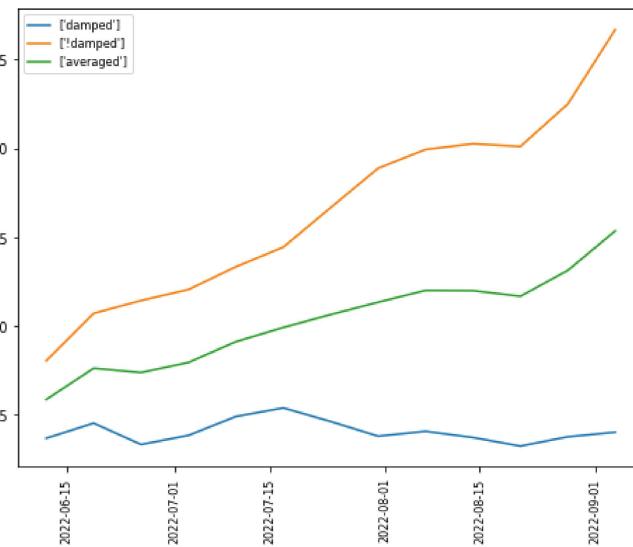
	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSD	90d_lower	90d_upper
2022-06-10	64.769997	64.467277	64.776825	65.086373	61.316984	4.33668	52.643624	69.990344

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
ACC	2.984429	64.769997	20837020.877458	0.986823	0.981927	0.416828

	l axis	r axis
legend		legend
blue	symbol	magenta sector
green	trailing_1yr_max	cyan index
red	trailing_1yr_min	
black	linear	
yellow	supply_trend_1yr	



ets next 13 weeks
 damped sell date: 2022-07-17
 damped expected return: 0.008892417182464725
 !damped sell date: 2022-09-04
 !damped expected return: 0.33847853267974437
 averaged sell date: 2022-09-04
 averaged expected return: 0.16309951927729682



```

1
['options', ('2022-06-17',)]
symbol: CVX
sector: Energy
Index: SP500
supply trend: 181490743.72163388
risk trend factor: 3.856636911038389
    beta currentRatio debtToEquity dividendRate dividendYield \
CVX 1.078947      1.433     19.941      5.68      0.0315

    earningsGrowth      ebitda ebitdaMargins forwardPE freeCashflow \
CVX      3.473 38521999360      0.21783 12.431709 21873375232

    grossMargins grossProfits heldPercentInstitutions      industry \
CVX      0.40935 66234000000      0.71587 Oil & Gas Integrated

    marketCap operatingCashflow operatingMargins payoutRatio pegRatio \
CVX 355886039040      33045999616      0.12219      0.5113      0.6

    priceToBook priceToSalesTrailing12Months profitMargins quickRatio \
CVX 2.433922      2.012429      0.11596      1.119

    returnOnAssets returnOnEquity revenueGrowth revenuePerShare sector \
CVX 0.05505      0.1469      0.683      92.025 Energy

    sharesOutstanding shortRatio totalCash totalCashPerShare totalDebt \
CVX 1964809984      2.03 11704000512      5.957 29333000192

    totalRevenue trailingPE
CVX 176843997184      17.0187

    Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

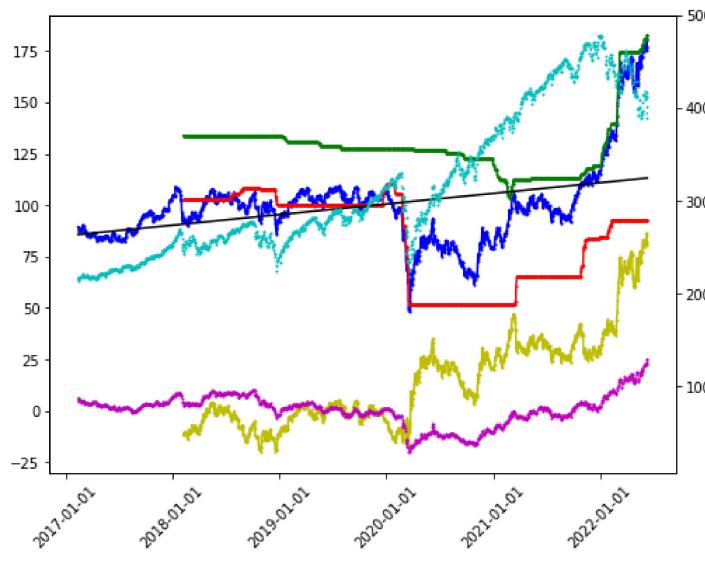
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	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	175.399994	164.142905	173.680233	183.21756	166.649167	6.846673	152.95582	180.342513

volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst	
CVX	1.209596	175.399994	181490743.721634	0.940293	0.97985	0.498334

l axis r axis

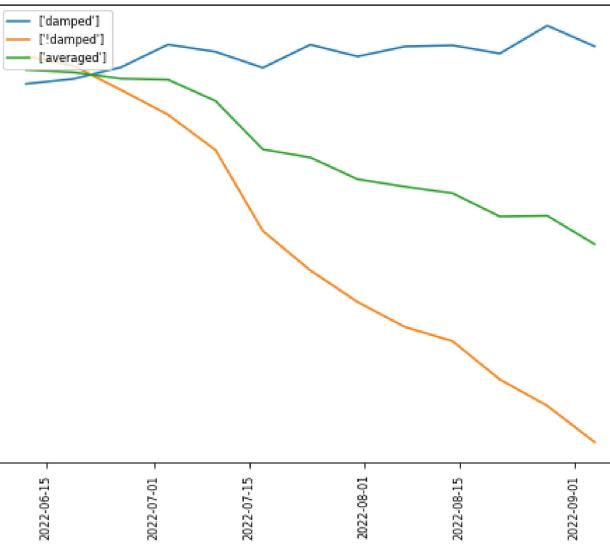
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```

sets next 13 weeks
damped sell date: 2022-08-28
damped expected return: 0.05622154534596175
!damped sell date: 2022-06-12
!damped expected return: 0.02783147180375438
averaged sell date: 2022-06-12
averaged expected return: 0.014980502508108727

```



```

3 ['options', ('2022-06-17', '2023-01-20', '2024-01-19')]
27
['sustainability', Value
2022-5
palmOil False
controversialWeapons False
gambling False
socialScore 10.63
nuclear False
furLeather False
alcoholic False
gmo False
catholic False
socialPercentile None
peerCount 66
governanceScore 9.95
environmentPercentile None
animalTesting True
tobacco False
totalEsg 43
highestControversy 3
esgPerformance LEAD_PERF
coal False
pesticides False
adult False
percentile 92.22
peerGroup Oil & Gas Producers
smallArms False
environmentScore 22.42
governancePercentile None
militaryContract False]
symbol: EQT
sector: Energy
Index: SP400
supply trend: 137472571.69969743
risk trend factor: 3.747308089815218
    beta currentRatio debtToEquity dividendRate dividendYield \
EQT 1.156862 0.398 61.543 0.5 0.0133

    ebitda ebitdaMargins forwardPE freeCashflow grossMargins \
EQT -1089323008 -0.13465 21.603603 2408109568 0.734

    grossProfits heldPercentInstitutions industry marketCap \
EQT 4672261000 1.00436 Oil & Gas E&P 18126721024

    operatingCashflow operatingMargins pegRatio priceToBook \
EQT 2283751936 -0.3565 0.27 2.196373

    priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
EQT 2.240665 -0.32564 0.162 -0.09046

    returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
EQT -0.3018 1.206 23.313 Energy 377955008

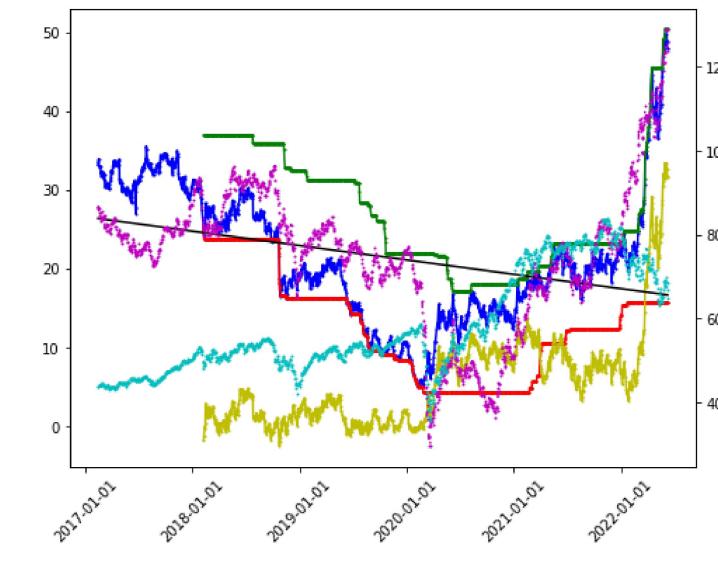
    shortRatio totalCash totalCashPerShare totalDebt totalRevenue
EQT 2 16913000 0.046 5050277888 8089885184

    Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper
2022-06-10 47.959999 37.159954 45.132857 53.10576 39.467778 6.586657 26.294463 52.6410

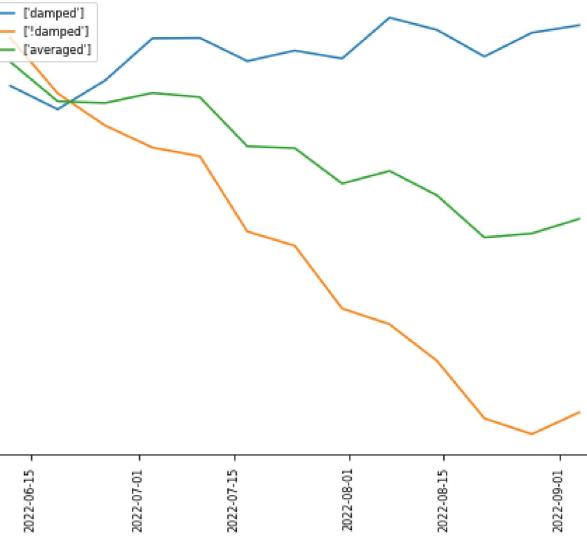
```

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst	
EOT	1.217357	47.959999	137472571	699697	0.938581	0.932879	0.501911

l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



sets next 13 weeks
 damped sell date: 2022-08-07
 damped expected return: 0.10750688024608747
 !damped sell date: 2022-06-12
 !damped expected return: 0.08010085040626896
 averaged sell date: 2022-06-12
 averaged expected return: 0.04762182417693028



21
['quarterly_balance_sheet', 2022-03-31 2021-12-31 2021-09-30]
Total Liab 1.360858e+10 1.156162e+10 1.475200e+10
Total Stockholder Equity 8.188673e+09 1.002953e+10 8.248460e+09
Minority Interest 1.736000e+07 1.623600e+07 1.126500e+07
Other Current Liab 5.695198e+09 2.471048e+09 6.032718e+09
Total Assets 2.181461e+10 2.160739e+10 2.301172e+10
Common Stock 9.921348e+09 1.016796e+10 1.018065e+10
Other Current Assets 1.304109e+09 6.911100e+08 1.428073e+09
Retained Earnings -1.725279e+09 -1.157790e+08 -1.908833e+09
Other Liab 1.446828e+09 1.926612e+09 1.346475e+09
Treasury Stock -7.396000e+06 -2.265700e+07 -2.335900e+07
Other Assets 4.927920e+08 8.756020e+08 8.897110e+08
Cash 1.691300e+07 1.139630e+08 2.279200e+07
Total Current Liabilities 7.605287e+09 5.080171e+09 7.228353e+09
Short Long Term Debt 4.938150e+08 9.549000e+08 1.244100e+07
Other Stockholder Equity -4.548000e+06 -4.611000e+06 -5.157000e+06
Property Plant Equipment 1.829589e+10 1.844502e+10 1.878111e+10
Total Current Assets 3.025930e+09 2.286766e+09 3.340899e+09
Net Tangible Assets 8.188673e+09 1.002953e+10 8.248460e+09
Net Receivables 1.212596e+09 1.438031e+09 1.132364e+09
Long Term Debt 4.556463e+09 4.530102e+09 6.177167e+09
Accounts Payable 1.416274e+09 1.339251e+09 1.183194e+09

2021-06-30
Total Liab 1.068284e+10
Total Stockholder Equity 8.291758e+09
Minority Interest 1.066400e+07
Other Current Liab 2.459368e+09
Total Assets 1.898526e+10
Common Stock 8.245752e+09
Other Current Assets 6.488550e+08
Retained Earnings 7.128400e+07
Other Liab 1.907015e+09
Treasury Stock -2.527800e+07
Other Assets 9.975310e+08
Cash 3.307700e+08
Total Current Liabilities 3.679201e+09
Short Long Term Debt 3.996990e+08
Other Stockholder Equity -5.194000e+06
Property Plant Equipment 1.581907e+10
Total Current Assets 2.168655e+09
Net Tangible Assets 8.291758e+09
Net Receivables 6.515680e+08
Long Term Debt 5.096619e+09
Accounts Payable 8.201340e+08]

18

['quarterly_cashflow', 2022-03-31 2021-12-31]
Change To Liabilities 5.286700e+07 1.804790e+08
Total Cashflows From Investing Activities -2.911720e+08 -3.578840e+08
Net Borrowings -5.441740e+08 -7.123310e+08
Total Cash From Financing Activities -8.270970e+08 -7.218910e+08
Change To Operating Activities -1.461280e+08 5.418350e+08
Issuance Of Stock 1.214000e+06 1.214000e+06
Net Income -1.516048e+09 1.801333e+09
Change In Cash -9.705000e+07 9.117100e+07
Repurchase Of Stock -2.301390e+08 -1.296200e+07
Total Cash From Operating Activities 1.021219e+09 1.170946e+09
Depreciation 4.352770e+08 5.105630e+08
Other Cashflows From Investing Activities -1.490000e+05 -2.778600e+07
Dividends Paid -4.706300e+07 -4.706300e+07
Change To Account Receivables 2.259680e+08 -2.955500e+08
Other Cashflows From Financing Activities -6.935000e+06 3.402000e+06
Change To Netincome 1.969283e+09 -1.570860e+09
Capital Expenditures -2.922810e+08 -3.481900e+08
Investments NaN 2.436900e+07

2021-09-30 2021-06-30
Change To Liabilities 1.653180e+08 -5541000.0
Total Cashflows From Investing Activities -1.039960e+09 -426988000.0
Net Borrowings 6.856860e+08 698705000.0
Total Cash From Financing Activities 6.838740e+08 673609000.0
Change To Operating Activities -2.052750e+08 -360908000.0
Issuance Of Stock 1.214000e+06 1214000.0
Net Income -1.986117e+09 -936457000.0
Change In Cash -3.079780e+08 290100000.0
Repurchase Of Stock -1.122000e+06 -51000.0
Total Cash From Operating Activities 4.818000e+07 43479000.0
Depreciation 4.528740e+08 391417000.0
Other Cashflows From Investing Activities 8.465000e+06 1758000.0
Dividends Paid -4.706300e+07 -47063000.0
Change To Account Receivables -3.048780e+08 13335000.0
Other Cashflows From Financing Activities -6.900000e+05 -25045000.0
Change To Netincome 1.923332e+09 941633000.0
Capital Expenditures -2.366790e+08 -218982000.0
Investments 2.436900e+07 24369000.0]

4

['quarterly_earnings', Revenue Earnings
Quarter
2Q2021 1063417000 -936457000
3Q2021 1766717000 -1980117000
4Q2021 2792407000 1801333000

1Q2022 2467344000 -1516048000]

22
['quarterly_financials',
Research Development None None
Effect Of Accounting Charges None None
Income Before Tax -1980280000.0 2393634000.0
Minority Interest 17360000.0 16236000.0
Net Income -1516048000.0 1801333000.0
Selling General Administrative 69096000.0 52343000.0
Gross Profit 1911411000.0 2213006000.0
Ebit -1859484000.0 2753035000.0
Operating Income -1859484000.0 2753035000.0
Other Operating Expenses 3278929000.0 -1069974000.0
Interest Expense -67902000.0 -76469000.0
Extraordinary Items None None
Non Recurring None None
Other Items None None
Income Tax Expense -465697000.0 591080000.0
Total Revenue 2467344000.0 2792407000.0
Total Operating Expenses 4326828000.0 39372000.0
Cost Of Revenue 555933000.0 579401000.0
Total Other Income Expense Net -120796000.0 -359401000.0
Discontinued Operations None None
Net Income From Continuing Ops -1514583000.0 1802554000.0
Net Income Applicable To Common Shares -1516048000.0 1801333000.0

2021-09-30 2021-06-30

Research Development None None
Effect Of Accounting Charges None None
Income Before Tax -2642431000.0 -1284365000.0
Minority Interest 11265000.0 10664000.0
Net Income -1980117000.0 -936457000.0
Selling General Administrative 49113000.0 49853000.0
Gross Profit 1239679000.0 573854000.0
Ebit -2568808000.0 -1208823000.0
Operating Income -2568808000.0 -1208823000.0
Other Operating Expenses 3296003000.0 1350757000.0
Interest Expense -80349000.0 -76986000.0
Extraordinary Items None None
Non Recurring None None
Other Items None None
Income Tax Expense -662915000.0 -347846000.0
Total Revenue 1766717000.0 1063417000.0
Total Operating Expenses 4335525000.0 2272240000.0
Cost Of Revenue 527038000.0 489563000.0
Total Other Income Expense Net -73623000.0 -75542000.0
Discontinued Operations None None
Net Income From Continuing Ops -1979516000.0 -936519000.0
Net Income Applicable To Common Shares -1980117000.0 -936457000.0]

10

['mutualfund_holders', Holder Shares Date Reported \\\n0 Vanguard Total Stock Market Index Fund 10743775 2021-12-30\\\n1 Vanguard Small-Cap Index Fund 9517470 2021-12-30\\\n2 iShares Core S&P Midcap ETF 8386370 2022-01-30\\\n3 Fidelity Low-Priced Stock Fund 7654281 2022-02-27\\\n4 Price (T.Rowe) Mid-Cap Value Fund 6376041 2021-12-30\\\n5 Vanguard Small Cap Value Index Fund 6033276 2021-12-30\\\n6 Blackrock Equity Dividend Fund 4987579 2022-01-30\\\n7 BlackRock Global Allocation Fund 4799848 2022-01-30\\\n8 Fidelity Mid-Cap Stock Fund 4651596 2022-02-27\\\n9 SPDR (R) Ser Tr-SPDR (R) S&P (R) Oil & Gas Exp... 4286671 2022-01-30]

% Out Value\\\n0 0.0291 234321732\\\n1 0.0258 207576020\\\n2 0.0227 178210362\\\n3 0.0207 177120062\\\n4 0.0173 139061454\\\n5 0.0163 131585749\\\n6 0.0135 105986053\\\n7 0.0130 101996770\\\n8 0.0126 107637931\\\n9 0.0116 91091758]\n3

['options', ('2022-06-17', '2023-01-20', '2024-01-19')]

27
['sustainability', Value

2022-5
palmOil False
controversialWeapons False
gambling False
socialsScore 10.21
nuclear False
furLeather False
alcoholic False
gmo False
catholic False
socialPercentile 0
peerCount 66
governanceScore 7.64
environmentPercentile 0
animalTesting False

```

tobacco          False
totalEsg         37.38
highestControversy    1
esgPerformance   LEAD_PERF
coal             False
pesticides       False
adult            False
percentile      83.58
peerGroup        Oil & Gas Producers
smallArms        False
environmentScore 19.53
governancePercentile 0
militaryContract False]
symbol: LNTH
sector: Healthcare
Index: SP600
supply trend: 10889615.279878972
risk trend factor: 3.5409330254651064
    beta currentRatio debtToEquity earningsGrowth     ebitda \
LNTH  0.750453      1.828      36.846      3.692  108329000

    ebitdaMargins forwardPE freeCashflow grossMargins grossProfits \
LNTH      0.20002  21.648647  77142872      0.50913  187695000

    heldPercentInstitutions industry marketCap \
LNTH      1.01214  Diagnostics & Research 4947831808

    operatingCashflow operatingMargins payoutRatio pegRatio priceToBook \
LNTH      54362000      0.11518      0      0.63      9.582613

    priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
LNTH      9.135937     -0.06892      1.563      0.04389

    returnOnEquity revenueGrowth revenuePerShare sector \
LNTH     -0.07151      1.258      7.998  Healthcare

    sharesOutstanding shortRatio totalCash totalCashPerShare totalDebt \
LNTH     68634096      2  105355000      1.535  190072992

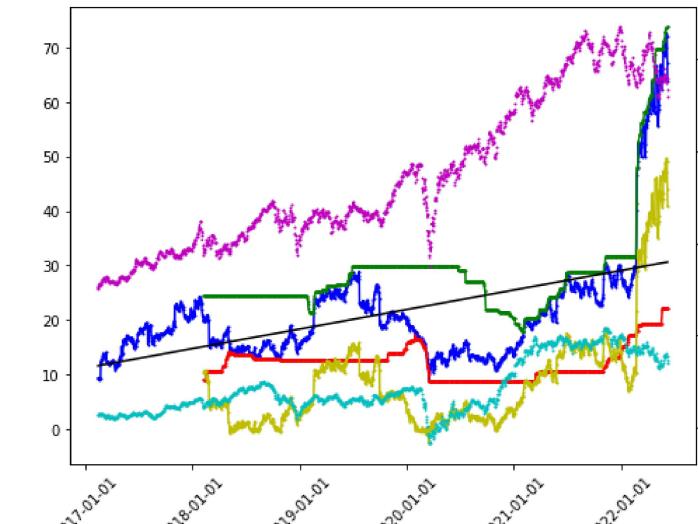
    totalRevenue
LNTH     541579008

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper
2022-06-10 63.849998 59.745909 66.695412 73.644916 61.080317 5.710885 49.658547 72.502087

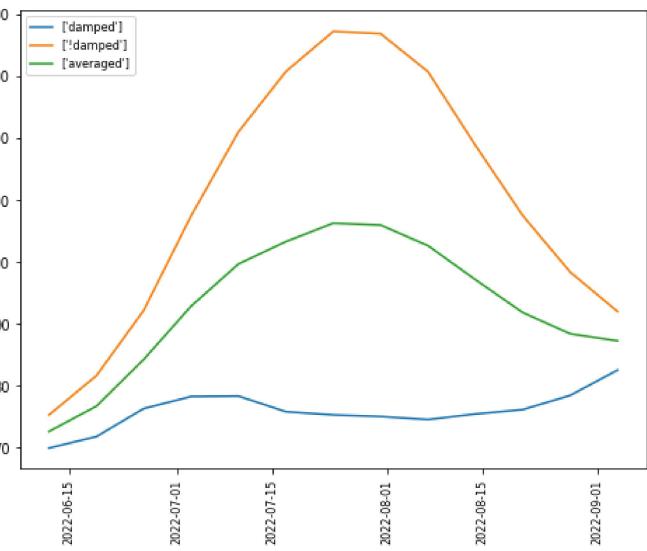
```

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
LNTH	2.300963	63.849998	10889615.279879	0.843029	0.990883	0.532857

	l axis	r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



ets next 13 weeks
damped sell date: 2022-09-04
damped expected return: 0.29250494489667384
!damped sell date: 2022-07-24
!damped expected return: 1.1479703128228969
averaged sell date: 2022-07-24
averaged expected return: 0.6636052337690195



```

1
['options', ('2022-07-15',)]
symbol: SWX
sector: Utilities
Index: SP400
supply trend: 7059509.30408472
risk trend factor: 3.5300741485196108
    beta currentRatio debtToEquity dividendRate dividendYield \
SWX 0.108035      0.778     174.475      2.48      0.0263

    earningsGrowth ebitda ebitdaMargins forwardPE freeCashflow \
SWX -0.222   786628992      0.19366   19.052631 -470833120

    grossMargins grossProfits heldPercentInstitutions \
SWX 0.21709     853431000      0.89023

    industry marketCap operatingCashflow operatingMargins \
SWX Utilities-Regulated Gas 6292110336      350460000      0.09512

    payoutRatio pegRatio priceToBook priceToSalesTrailing12Months \
SWX 0.8123      5.02      1.803307      1.549036

    profitMargins quickRatio returnOnAssets returnOnEquity revenueGrowth \
SWX 0.04423      0.551      0.02178      0.05621      0.431

    revenuePerShare sector sharesOutstanding shortRatio totalCash \
SWX 67.779 Utilities 66852000      1.78 624665984

    totalCashPerShare totalDebt totalRevenue trailingPE
SWX 9.344 6324827136 4061953024 31.40474

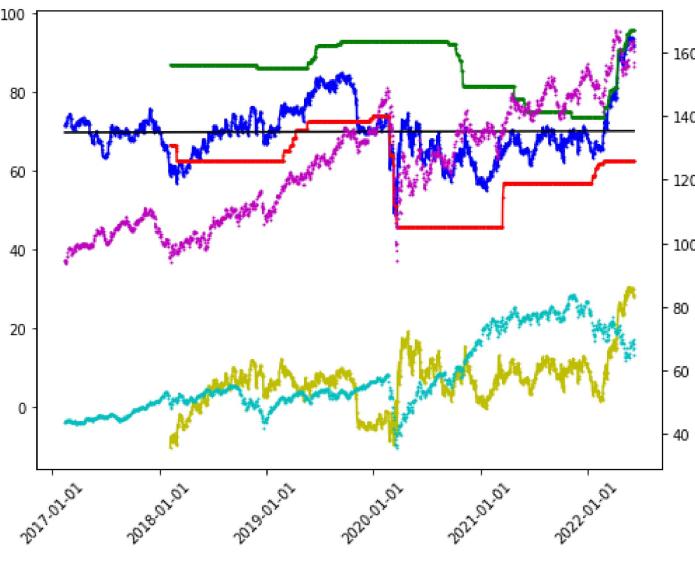
    Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

```

	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	91.889999	91.063144	92.741905	94.420666	86.342857	6.301906	73.739044	98.94667

volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst	
SWX	1.47625	91.889999	7059509.304085	0.903418	0.284442	0.398907

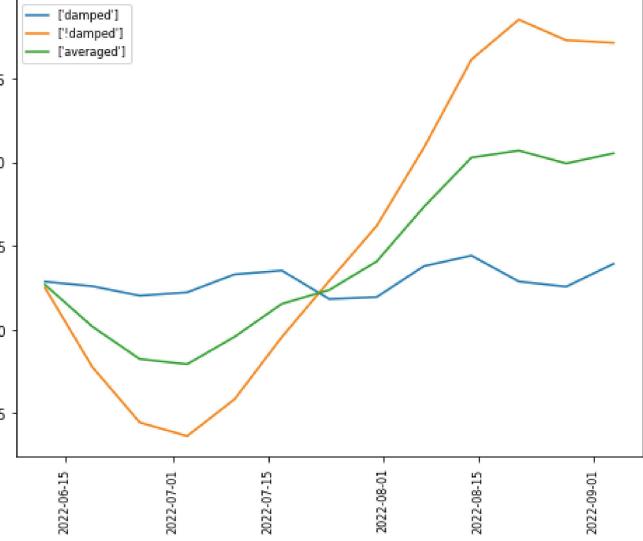
l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```

sets next 13 weeks
damped sell date: 2022-08-14
damped expected return: 0.027545572757377436
!damped sell date: 2022-08-21
!damped expected return: 0.18079569413078633
averaged sell date: 2022-08-21
averaged expected return: 0.09575939796356496

```



```

1
['options', ('2022-07-15',)]
symbol: MPC
sector: Energy
Index: SP500
supply trend: 132481329.19818456
risk trend factor: 3.5134226610249177
    beta currentRatio debtToEquity dividendRate dividendYield \
MPC  1.910294      1.704     80.117      2.32      0.0242

    earningsGrowth      ebitda ebitdaMargins forwardPE freeCashflow \
MPC      1.917   7120999936      0.05912   25.672987  16415250432

    grossMargins grossProfits heldPercentInstitutions \
MPC      0.0867  10443000000      0.82037

            industry      marketCap operatingCashflow \
MPC  Oil & Gas Refining & Marketing  66692796416      4360000000

    operatingMargins payoutRatio pegRatio priceToBook \
MPC      0.03119      0.5472      0.55      2.38288

    priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
MPC      0.553692      0.08085      1.222      0.02754

    returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
MPC      0.08003      0.967      189.986  Energy      615587968

    shortRatio      totalCash totalCashPerShare      totalDebt totalRevenue \
MPC      2.92  10839000064      19.177  26904000512  120450998272

    trailingPE
MPC      7.604941

```

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

2022-06-10 108.339996 89.236784 101.560094 113.883404 90.742918 9.631609 71.4797 110.006136

volume_factor latest_p vol_30d_2yr pct_2yr adf hurst

MPC 0.997729 108.339996 132481329.198185 0.931541 0.991702 0.523957

l axis r axis

legend legend

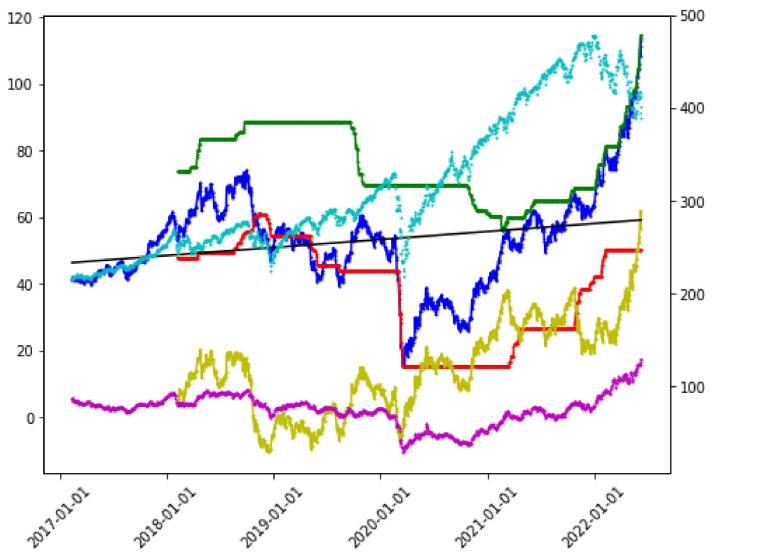
blue symbol magenta sector

green trailing_1yr_max cyan index

red trailing_1yr_min

black linear

yellow supply_trend_1yr



ets next 13 weeks

damped sell date: 2022-08-28

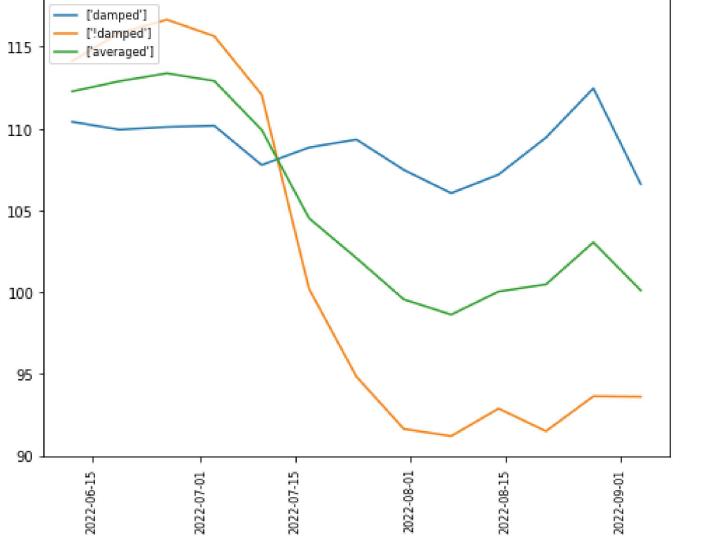
damped expected return: 0.03807236129783712

!damped sell date: 2022-06-26

!damped expected return: 0.07685802045220197

averaged sell date: 2022-06-26

averaged expected return: 0.04657176581157085



			2021-12-31	2021-09-30	2021-06-30	\
['quarterly_balance_sheet',						
Capital Surplus	3.326200e+10	3.325600e+10	3.323800e+10			
Total Liab	5.179200e+10	5.333600e+10	5.760700e+10			
Total Stockholder Equity	2.620600e+10	2.828000e+10	2.892100e+10			
Minority Interest	7.375000e+09	7.684000e+09	7.772000e+09			
Other Current Liab	2.278000e+09	3.377000e+09	6.148000e+09			
Total Assets	8.537300e+10	8.930000e+10	9.430000e+10			
Common Stock	1.000000e+07	1.000000e+07	1.000000e+07			
Other Current Assets	5.680000e+08	5.850000e+08	5.850000e+08			
Retained Earnings	1.290500e+10	1.248400e+10	1.216000e+10			
Other Liab	7.999000e+09	8.193000e+09	8.825000e+09			
Good Will	8.256000e+09	8.256000e+09	8.256000e+09			
Treasury Stock	-1.997100e+10	-1.747000e+10	-1.648700e+10			
Other Assets	2.400000e+09	2.463000e+09	2.532000e+09			
Cash	5.291000e+09	5.874000e+09	1.183900e+10			
Total Current Liabilities	1.789800e+10	1.689800e+10	1.951200e+10			
Deferred Long Term Asset Charges	2.000000e+06	NaN	NaN			
Short Long Term Debt	4.980000e+08	7.300000e+07	7.000000e+07			
Other Stockholder Equity	-6.700000e+07	-3.440000e+08	-3.400000e+08			
Property Plant Equipment	3.881200e+10	3.905400e+10	3.949600e+10			
Total Current Assets	3.049600e+10	3.414300e+10	3.859200e+10			
Long Term Investments	5.409000e+09	5.384000e+09	5.424000e+09			
Net Tangible Assets	1.795000e+10	2.002400e+10	2.066500e+10			
Short Term Investments	5.548000e+09	7.352000e+09	5.418000e+09			
Net Receivables	1.103400e+10	1.112100e+10	1.187100e+10			
Long Term Debt	2.444300e+10	2.665500e+10	2.763900e+10			
Inventory	8.055000e+09	9.211000e+09	8.879000e+09			
Accounts Payable	1.370000e+10	1.219600e+10	1.217000e+10			

	2021-03-31
Capital Surplus	3.322200e+10
Total Liab	5.717200e+10
Total Stockholder Equity	2.159200e+10
Minority Interest	7.887000e+09
Other Current Liab	3.370000e+09
Total Assets	8.665100e+10
Common Stock	1.000000e+07
Other Current Assets	1.176200e+10
Retained Earnings	4.029000e+09
Other Liab	9.386000e+09
Good Will	8.256000e+09
Treasury Stock	-1.566900e+10
Other Assets	2.594000e+09
Cash	6.240000e+08
Total Current Liabilities	1.608500e+10
Deferred Long Term Asset Charges	NaN
Short Long Term Debt	6.900000e+07
Other Stockholder Equity	-5.110000e+08
Property Plant Equipment	4.000500e+10
Total Current Assets	3.036100e+10
Long Term Investments	5.435000e+09
Net Tangible Assets	1.333600e+10
Short Term Investments	NaN
Net Receivables	9.568000e+09
Long Term Debt	3.006100e+10
Inventory	8.407000e+09
Accounts Payable	9.953000e+09

Accounts Payable	2021-12-31	2021-09-30	\
19			
['quarterly_cashflow',			
Investments	1.742000e+09	-1.934000e+09	
Change To Liabilities	1.590000e+09	1.930000e+08	
Total Cashflows From Investing Activities	1.448000e+09	-2.054000e+09	
Net Borrowings	-1.951000e+09	-1.018000e+09	
Total Cash From Financing Activities	-5.703000e+09	-2.762000e+09	
Change To Operating Activities	-2.000000e+06	1.000000e+06	
Issuance Of Stock	3.500000e+07	1.800000e+07	
Net Income	7.740000e+08	6.940000e+08	
Change In Cash	-5.810000e+08	-5.964000e+09	
Repurchase Of Stock	-2.742000e+09	-9.280000e+08	
Total Cash From Operating Activities	3.674000e+09	-1.148000e+09	
Depreciation	8.130000e+08	8.360000e+08	
Other Cashflows From Investing Activities	1.320000e+08	2.400000e+08	
Dividends Paid	-3.540000e+08	-3.700000e+08	
Change To Inventory	1.173000e+09	-3.260000e+08	
Change To Account Receivables	-1.534000e+09	1.820000e+08	
Other Cashflows From Financing Activities	-6.910000e+08	-4.640000e+08	
Change To Netincome	8.400000e+08	-2.746000e+09	
Capital Expenditures	-4.810000e+08	-3.770000e+08	

	2021-06-30	2021-03-31
Investments	-5.477000e+09	-5.000000e+07
Change To Liabilities	2.656000e+09	1.821000e+09
Total Cashflows From Investing Activities	1.567000e+10	-2.670000e+08
Net Borrowings	-4.169000e+09	8.650000e+08
Total Cash From Financing Activities	-5.970000e+09	1.600000e+07
Change To Operating Activities	-1.000000e+06	5.000000e+06
Issuance Of Stock	3.000000e+07	2.300000e+07
Net Income	8.512000e+09	-2.420000e+08
Change In Cash	1.108000e+10	2.030000e+08
Repurchase Of Stock	-9.840000e+08	-9.840000e+08
Total Cash From Operating Activities	1.380000e+09	4.510000e+08

```

Depreciation 8.710000e+08 8.440000e+08
Other Cashflows From Investing Activities 2.144400e+10 1.100000e+07
Dividends Paid -3.810000e+08 -3.790000e+08
Change To Inventory -4.720000e+08 -4.080000e+08
Change To Account Receivables -2.224000e+09 -1.723000e+09
Other Cashflows From Financing Activities -4.660000e+08 -4.930000e+08
Change To Netincome -7.981000e+09 1.350000e+08
Capital Expenditures -3.020000e+08 -3.040000e+08 ]

```

```

4
['quarterly_earnings', Revenue Earnings
Quarter
1Q2021 22788000000 -242000000
2Q2021 29734000000 8512000000
3Q2021 32491000000 694000000
4Q2021 35438000000 774000000]

```

22

```
['quarterly_financials', 2021-12-31 2021-09-30 \
```

	2021-12-31	2021-09-30
Research Development	None	None
Effect Of Accounting Charges	None	None
Income Before Tax	1348000000.0	1012000000.0
Minority Interest	7375000000.0	7684000000.0
Net Income	774000000.0	694000000.0
Selling General Administrative	654000000.0	691000000.0
Gross Profit	3254000000.0	2928000000.0
Ebit	1610000000.0	1208000000.0
Operating Income	1610000000.0	1208000000.0
Other Operating Expenses	1770000000.0	1930000000.0
Interest Expense	-302000000.0	-313000000.0
Extraordinary Items	None	None
Non Recurring	None	None
Other Items	None	None
Income Tax Expense	243000000.0	-18000000.0
Total Revenue	35438000000.0	32491000000.0
Total Operating Expenses	33828000000.0	31283000000.0
Cost Of Revenue	32184000000.0	29563000000.0
Total Other Income Expense Net	-262000000.0	-196000000.0
Discontinued Operations	Nan	Nan
Net Income From Continuing Ops	1105000000.0	1030000000.0
Net Income Applicable To Common Shares	772000000.0	694000000.0

	2021-06-30	2021-03-31
Research Development	None	None
Effect Of Accounting Charges	None	None
Income Before Tax	593000000.0	-136000000.0
Minority Interest	7772000000.0	7887000000.0
Net Income	8512000000.0	-242000000.0
Selling General Administrative	681000000.0	575000000.0
Gross Profit	2557000000.0	1704000000.0
Ebit	816000000.0	123000000.0
Operating Income	816000000.0	123000000.0
Other Operating Expenses	189000000.0	162000000.0
Interest Expense	-318000000.0	-334000000.0
Extraordinary Items	None	None
Non Recurring	None	None
Other Items	None	None
Income Tax Expense	5000000.0	34000000.0
Total Revenue	29734000000.0	22788000000.0
Total Operating Expenses	28918000000.0	22665000000.0
Cost Of Revenue	27177000000.0	21084000000.0
Total Other Income Expense Net	-223000000.0	-259000000.0
Discontinued Operations	8214000000.0	234000000.0
Net Income From Continuing Ops	588000000.0	-170000000.0
Net Income Applicable To Common Shares	8512000000.0	-242000000.0]

10

	Holder	Shares	Date Reported	\
0	Select Sector SPDR Fund-Energy Select	18103056	2022-01-30	
1	Vanguard Total Stock Market Index Fund	17494854	2021-12-30	
2	Vanguard 500 Index Fund	13037019	2021-12-30	
3	Vanguard Mid-Cap Index Fund	6960433	2021-12-30	
4	SPDR S&P 500 ETF Trust	6540311	2022-01-30	
5	Fidelity 500 Index Fund	6304109	2022-02-27	
6	iShares Core S&P 500 ETF	5120813	2022-01-30	
7	Vanguard Index-Value Index Fund	4704115	2021-12-30	
8	Vanguard Institutional Index Fund-Institutional...	4638261	2021-12-30	
9	iShares Select Dividend ETF	4127022	2022-01-30	

% Out	Value
0.0335	1298894268
0.0323	1119495707
0.0241	834238845
0.0129	445398107
0.0121	469267314
0.0117	490900967
0.0095	367418332
0.0087	301016318
0.0086	296802321
0.0076	296113828]

4
['options', ('2022-07-15', '2022-09-16', '2023-01-20', '2024-01-19')]

27
['sustainability', Value
2022-5

```

palmOil False
controversialWeapons False
gambling False
socialScore 7.01
nuclear False
furLeather False
alcoholic False
gmo False
catholic False
socialPercentile 0
peerCount 39
governanceScore 5.87
environmentPercentile 0
animalTesting False
tobacco False
totalEsg 28.78
highestControversy 3
esgPerformance None
coal False
pesticides False
adult False
percentile 57.14
peerGroup Refiners & Pipelines
smallArms False
environmentScore 15.91
governancePercentile 0
militaryContract False]
symbol: MUSA
sector: Consumer Cyclical
Index: SP400
supply trend: 7365132.299546142
risk trend factor: 3.503539798547629
    beta currentRatio debtToEquity dividendRate dividendYield \
MUSA 0.820982 1.083 283.285 1.24 0.005

    earningsGrowth ebitda ebitdaMargins forwardPE freeCashflow \
MUSA 2.025 950200000 0.05637 19.691177 451787488

    grossMargins grossProfits heldPercentInstitutions industry \
MUSA 0.07071 1064700000 0.86324 Specialty Retail

    marketCap operatingCashflow operatingMargins payoutRatio pegRatio \
MUSA 6157129216 846800000 0.04334 0.0569 3.33

    priceToBook priceToSalesTrailing12Months profitMargins quickRatio \
MUSA 7.779171 0.365287 0.02931 0.733

    returnOnAssets returnOnEquity revenueGrowth revenuePerShare \
MUSA 0.11155 0.62846 0.501 658.653

    sector sharesOutstanding shortRatio totalCash \
MUSA Consumer Cyclical 24201600 4.6 356200000

    totalCashPerShare totalDebt totalRevenue trailingPE
MUSA 14.718 2242200064 16855600128 13.386478

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDDev 90d_lower 90d_upper

```

2022-06-10 237.960007 234.45771 245.340318 256.222926 227.287143 21.941358 183.404427 271.169859

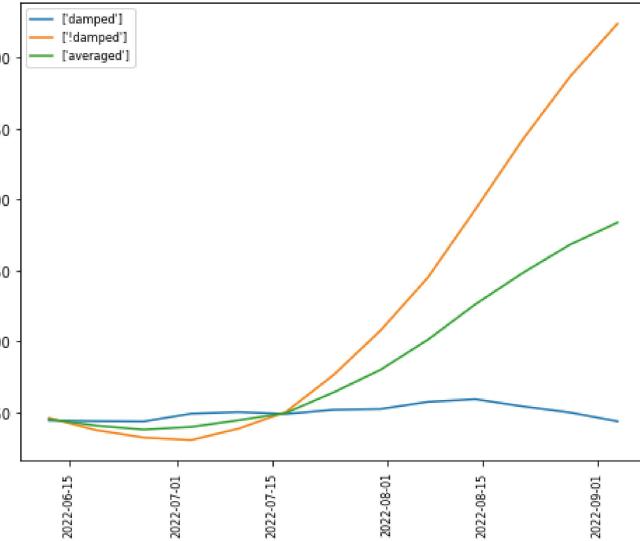
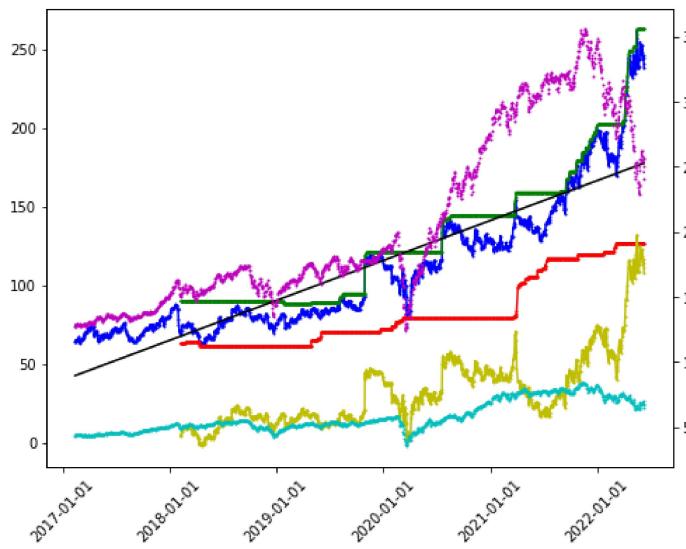
volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
---------------	----------	-------------	---------	-----	-------

MUSA 1.023661 237.960007 7365132.299546 0.839578 0.99617 0.410367

I axis r axis

legend **legend**

blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		

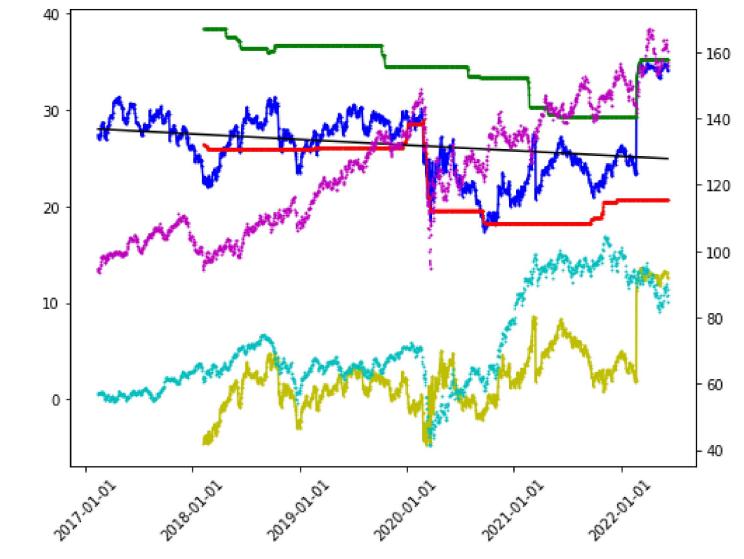


```

2
[options, ('2022-07-15', '2022-11-18')]
symbol: SJI
sector: Utilities
Index: SP600
supply trend: 18167782.072617248
risk trend factor: 3.390475619569739
    beta currentRatio debtToEquity dividendRate dividendYield      ebitda \
SJI  0.767156      0.669     180.745      1.24      0.0371  563539008
      ebitdaMargins forwardPE freeCashflow grossMargins grossProfits \
SJI      0.2829   20.39521   -181286880      0.24213   482333000
      heldPercentInstitutions           industry      marketCap \
SJI      0.85604 Utilities-Diversified  3829979136
      operatingCashflow operatingMargins payoutRatio pegRatio priceToBook \
SJI      273112992      0.17665     1.9758      3.88   2.094454
      priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
SJI      1.922684      0.04422      0.438      0.03142
      returnOnEquity revenuePerShare      sector sharesOutstanding shortRatio \
SJI      0.04828      18.23 Utilities      112448000      3.26
      totalCash totalCashPerShare      totalDebt totalRevenue trailingPE
SJI  28754000      0.245  3613896960  1991996032  48.587734
Adj Close  21dBOLD  21dMA-TP  21dBOLU  90dSMA  90dSDev  90d_lower  90d_upper
2022-06-10 34.060001 33.346404 34.247778 35.149152 34.300159 0.35026 33.599639 35.000679
volume_factor latest_p vol_30d_2yr pct_2yr adf hurst
SJI  1.10309 34.060001 18167782.072617 0.92623 0.165217 0.413386

```

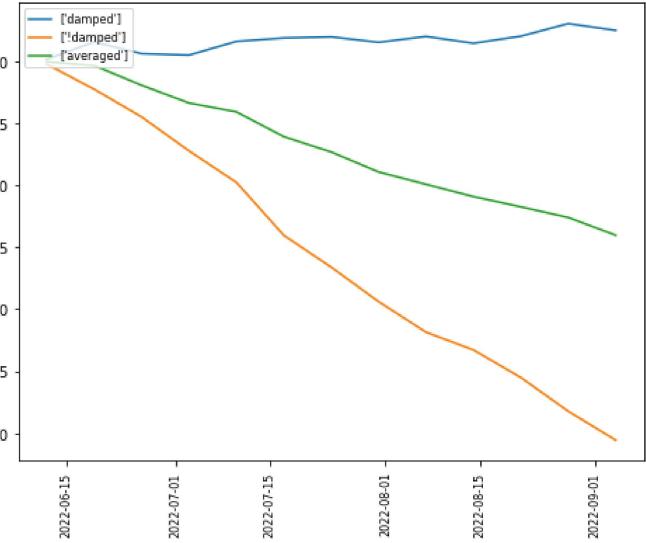
l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```

sets next 13 weeks
damped sell date: 2022-08-28
damped expected return: 0.07247820280202623
!damped sell date: 2022-06-12
!damped expected return: 0.024309018257971115
averaged sell date: 2022-06-12
averaged expected return: 0.027219254664076944

```



27	['quarterly_balance_sheet',	2021-12-31	2021-09-30	2021-06-30	\
	Intangible Assets	1.404300e+07	1.473100e+07	1.611800e+07	
	Capital Surplus	1.559060e+09	1.463655e+09	1.462322e+09	
	Total Liab	5.309231e+09	5.187967e+09	4.938285e+09	
	Total Stockholder Equity	1.989152e+09	1.828587e+09	1.887399e+09	
	Minority Interest	1.028900e+07	7.457000e+06	7.425000e+06	
	Deferred Long Term Liab	6.724160e+08	6.694870e+08	6.701760e+08	
	Other Current Liab	1.596050e+08	2.273930e+08	1.760970e+08	
	Total Assets	7.308672e+09	7.024011e+09	6.833109e+09	
	Common Stock	1.466750e+08	1.405610e+08	1.405570e+08	
	Other Current Assets	9.504100e+07	1.416900e+08	8.351100e+07	
	Retained Earnings	3.104330e+08	2.628420e+08	3.229880e+08	
	Other Liab	1.141049e+09	1.165851e+09	1.163466e+09	
	Good Will	7.069600e+08	7.069600e+08	7.069600e+08	
	Treasury Stock	-2.701600e+07	-3.847100e+07	-3.846800e+07	
	Other Assets	9.811060e+08	9.530460e+08	9.168080e+08	
	Cash	2.875400e+07	2.541500e+07	8.789900e+07	
	Total Current Liabilities	9.556820e+08	8.187800e+08	5.896100e+08	
	Short Long Term Debt	6.663900e+07	6.663600e+07	9.155500e+07	
	Other Stockholder Equity	-2.672900e+07	-3.819100e+07	-3.820000e+07	
	Property Plant Equipment	4.929055e+09	4.741429e+09	4.633664e+09	
	Total Current Assets	6.389620e+08	5.716560e+08	5.270180e+08	
	Long Term Investments	3.854600e+07	3.618900e+07	3.254100e+07	
	Net Tangible Assets	1.268149e+09	1.106896e+09	1.164321e+09	
	Net Receivables	3.951240e+08	2.603440e+08	2.495690e+08	
	Long Term Debt	3.190808e+09	3.197736e+09	3.182118e+09	
	Inventory	6.079700e+07	6.639100e+07	4.158000e+07	
	Accounts Payable	3.301640e+08	3.009550e+08	2.261080e+08	
	2021-03-31				
	Intangible Assets	1.570100e+07			
	Capital Surplus	1.193552e+09			
	Total Liab	4.971266e+09			
	Total Stockholder Equity	1.737118e+09			
	Minority Interest	6.124000e+06			
	Deferred Long Term Liab	6.507100e+08			
	Other Current Liab	1.368470e+08			
	Total Assets	6.714508e+09			
	Common Stock	1.282150e+08			
	Other Current Assets	3.854100e+07			
	Retained Earnings	4.538230e+08			
	Other Liab	1.148234e+09			
	Good Will	7.069600e+08			
	Treasury Stock	-3.847200e+07			
	Other Assets	8.649660e+08			
	Cash	3.038600e+07			
	Total Current Liabilities	7.526990e+08			
	Short Long Term Debt	1.433030e+08			
	Other Stockholder Equity	-3.820800e+07			
	Property Plant Equipment	4.524998e+09			
	Total Current Assets	4.889150e+08			
	Long Term Investments	1.129680e+08			
	Net Tangible Assets	1.014457e+09			
	Net Receivables	3.626680e+08			
	Long Term Debt	3.067233e+09			
	Inventory	2.054900e+07			
	Accounts Payable	2.180780e+08]
15	['quarterly_cashflow',	2021-12-31	2021-09-30	\	
	Net Income	0.0	-2613000.0		
	Change To Liabilities	0.0	0.0		
	Investments	NaN	-22044000.0		
	Total Cashflows From Investing Activities	NaN	-164851000.0		
	Net Borrowings	NaN	107800000.0		
	Total Cash From Financing Activities	NaN	70091000.0		
	Change In Cash	NaN	-62484000.0		
	Total Cash From Operating Activities	NaN	32276000.0		
	Depreciation	NaN	48089000.0		
	Other Cashflows From Investing Activities	NaN	-1418000.0		
	Dividends Paid	NaN	-34007000.0		
	Other Cashflows From Financing Activities	NaN	-3702000.0		
	Change To Netincome	NaN	10317000.0		
	Capital Expenditures	NaN	-141378000.0		
	Issuance Of Stock	NaN	NaN		
	2021-06-30 2021-03-31				
	Net Income	-96828000.0	128598000.0		
	Change To Liabilities	0.0	0.0		
	Investments	-1753000.0	-196000.0		
	Total Cashflows From Investing Activities	-156992000.0	-112328000.0		
	Net Borrowings	-84100000.0	-127600000.0		
	Total Cash From Financing Activities	169869000.0	-96098000.0		
	Change In Cash	56065000.0	-9963000.0		
	Total Cash From Operating Activities	43188000.0	198463000.0		
	Depreciation	49180000.0	54440000.0		
	Other Cashflows From Investing Activities	1968000.0	-6752000.0		
	Dividends Paid	-30453000.0	-30453000.0		
	Other Cashflows From Financing Activities	-3078000.0	-10770000.0		
	Change To Netincome	90836000.0	15425000.0		
	Capital Expenditures	-126758000.0	-105380000.0		
	Issuance Of Stock	287500000.0	42272000.0]

```

4
['quarterly_earnings',           Revenue   Earnings
Quarter
1Q2021    674300000  128598000
2Q2021    311828000  -96828000
3Q2021    365631000  -26130000
4Q2021      0          0]
22

```

```

['quarterly_financials',
Research Development           None      None      None
Effect Of Accounting Charges  None      None      None
Income Before Tax              NaN      -37557000.0 -101362000.0
Minority Interest              10289000.0 7457000.0 7425000.0
Net Income                     0.0      -2613000.0 -96828000.0
Selling General Administrative None      None      None
Gross Profit                   0.0      16068000.0 47452000.0
Ebit                           0.0      -8973000.0 11609000.0
Operating Income               NaN      -8973000.0 11609000.0
Other Operating Expenses       NaN      -8040000.0 2812000.0
Interest Expense               NaN      -31468000.0 -31185000.0
Extraordinary Items            None      None      None
Non Recurring                  None      None      None
Other Items                     None      None      None
Income Tax Expense              0.0      -11727000.0 -4702000.0
Total Revenue                  0.0      365631000.0 311828000.0
Total Operating Expenses       0.0      374604000.0 300219000.0
Cost Of Revenue                0.0      349563000.0 264376000.0
Total Other Income Expense Net 0.0      -28584000.0 -112971000.0
Discontinued Operations        NaN      -127000.0 -80000.0
Net Income From Continuing Ops NaN      -25830000.0 -96660000.0
Net Income Applicable To Common Shares NaN      -26130000.0 -96828000.0

```

```

2021-03-31
Research Development           None
Effect Of Accounting Charges  None
Income Before Tax              170567000.0
Minority Interest              6124000.0
Net Income                     128598000.0
Selling General Administrative None
Gross Profit                   232623000.0
Ebit                           196828000.0
Operating Income               196828000.0
Other Operating Expenses       3983000.0
Interest Expense               -31459000.0
Extraordinary Items            None
Non Recurring                  None
Other Items                     None
Income Tax Expense              41769000.0
Total Revenue                  674300000.0
Total Operating Expenses       477472000.0
Cost Of Revenue                441677000.0
Total Other Income Expense Net -26261000.0
Discontinued Operations        -71000.0
Net Income From Continuing Ops 128798000.0
Net Income Applicable To Common Shares 128598000.0 ]
10

```

```

['mutualfund_holders',
Holder      Shares Date Reported \
0  SPDR (R) Ser Tr- SPDR (R) S&P (R) Dividend ETF 11551756 2022-01-30
1  iShares Core S&P Smallcap ETF 7909776 2022-01-30
2  Vanguard Total Stock Market Index Fund 3185871 2021-12-30
3  Vanguard Small-Cap Index Fund 2832115 2021-12-30
4  iShares Russell 2000 ETF 2351525 2022-01-30
5  SSgA SPDR ETFS Europe I-SPDR S&P US Dividend A... 2037036 2022-02-27
6  SSgA SPDR ETFS Europe I-SPDR S&P U.S. Div Aris... 2037036 2022-02-27
7  iShares S&P Smallcap 600 Value ETF 1870014 2022-01-30
8  Vanguard Small Cap Value Index Fund 1795423 2021-12-30
9  Delaware Group Equity Funds V-Small Cap Value ... 1632000 2022-02-27

```

```

% Out      Value
0  0.0944  289024935
1  0.0646  197902595
2  0.0260  83214950
3  0.0231  73974843
4  0.0192  58835155
5  0.0166  69116631
6  0.0166  69116631
7  0.0153  46787750
8  0.0147  46896448
9  0.0133  55373760 ]
1

```

```

['options', ('2022-07-15',)]
symbol: XOM
sector: Energy
Index: SP500
supply trend: 399482859.5310136
risk trend factor: 3.314307263718105
beta currentRatio debtToEquity dividendRate dividendYield \
XOM 1.040834 1.072 26.929 3.52 0.0341
earningsGrowth ebitda ebitdaMargins forwardPE freeCashflow \
XOM 1.003 53895000064 0.17427 11.818078 31484874752

```

grossMargins grossProfits heldPercentInstitutions industry \\\nXOM 0.31806 90045000000 0.56852 Oil & Gas Integrated

marketCap operatingCashflow operatingMargins payoutRatio pegRatio \\\nXOM 440658558976 53653000192 0.10859 0.5804 0.36

priceToBook priceToSalesTrailing12Months profitMargins quickRatio \\\nXOM 2.603749 1.424839 0.08339 0.739

returnOnAssets returnOnEquity revenueGrowth revenuePerShare sector \\\nXOM 0.06097 0.1559 0.525 72.369 Energy

sharesOutstanding shortRatio totalCash totalCashPerShare totalDebt \\\nXOM 4213199872 1.13 11073999872 2.629 47537000448

totalRevenue trailingPE\\nXOM 309269004288 17.34494

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

2022-06-10 100.459999 85.804488 95.616984 105.42948 88.303809 6.585828 75.132152 101.475466

volume_factor latest_p vol_30d_2yr pct_2yr adf hurst

XOM 1.434399 100.459999 399482859.531014 0.931373 0.977852 0.536671

I axis

r axis

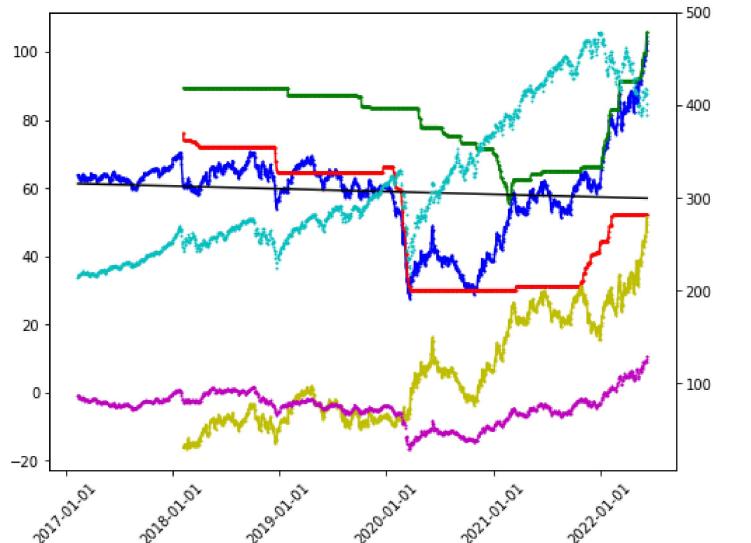
legend legend

blue symbol magenta sector
green trailing_1yr_max cyan index

red trailing_1yr_min

black linear

yellow supply_trend_1yr



ets next 13 weeks

damped sell date: 2022-08-28

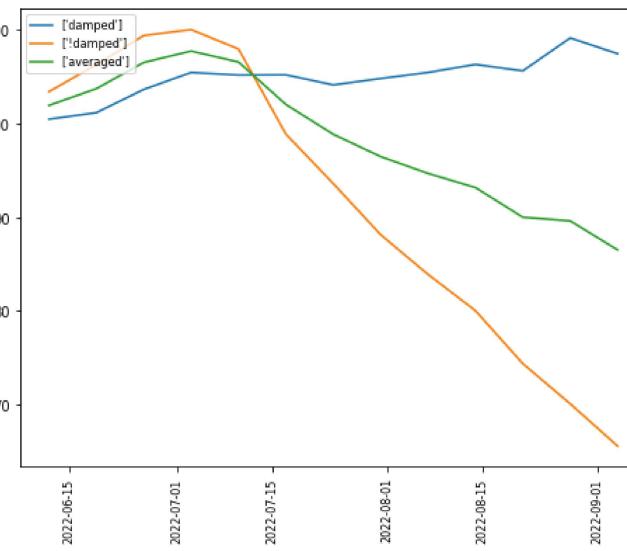
damped expected return: 0.08575997472610673

!damped sell date: 2022-07-03

!damped expected return: 0.09458740386075348

averaged sell date: 2022-07-03

averaged expected return: 0.07186473527385075



```
5      ['options', ('2022-06-17', '2022-07-15', '2023-01-20', '2024-01-19', '2026-02-21')]
27
['sustainability',
```

```
2022-5          Value
```

```
palmOil           False
controversialWeapons  False
gambling          False
socialScore        9.82
nuclear            False
furLeather         False
alcoholic          False
gmo                False
catholic           False
socialPercentile   None
peerCount          66
governanceScore    8.14
environmentPercentile  None
animalTesting      True
tobacco             False
totalEsg           36.46
highestControversy 3
esgPerformance    OUT_PERF
coal               False
pesticides         False
adult              False
percentile         81.8
peerGroup          Oil & Gas Producers
smallArms          False
environmentScore   18.51
governancePercentile  None
militaryContract   False]
symbol: DVN
sector: Energy
Index: SP500
supply trend: 181231964.52344933
risk trend factor: 3.2541850258631513
  beta currentRatio debtToEquity dividendRate dividendYield \
DVN  2.784803     1.376     71.922     5.08     0.0739
```

```
  ebitda ebitdaMargins forwardPE freeCashflow grossMargins \
DVN  5506999808     0.41984    14.160611   2805625088     0.56522
```

```
  grossProfits heldPercentInstitutions industry marketCap \
DVN  7414000000     0.86307    Oil & Gas E&P  50138619904
```

```
  operatingCashflow operatingMargins payoutRatio pegRatio priceToBook \
DVN  4898999808     0.25288    0.4991     0.43     5.618267
```

```
  priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
DVN  3.822415      0.21445     1.207      0.13402
```

```
  returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
DVN  0.45627       2.003      19.784     Energy      677000000
```

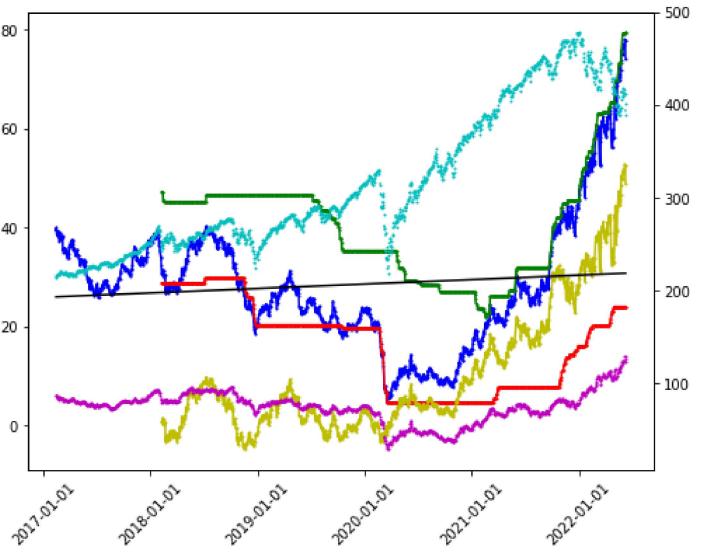
```
  shortRatio totalCash totalCashPerShare totalDebt totalRevenue \
DVN  1.7 2099000064     3.16    6760000000  13116999680
```

```
  trailingPE
DVN  36.77259
```

	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	74.059998	65.748411	73.181587	80.614763	64.876349	7.015184	50.845982	78.906716

volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst	
DVN	1.304951	74.059998	181231964.523449	0.925492	0.994381	0.555599

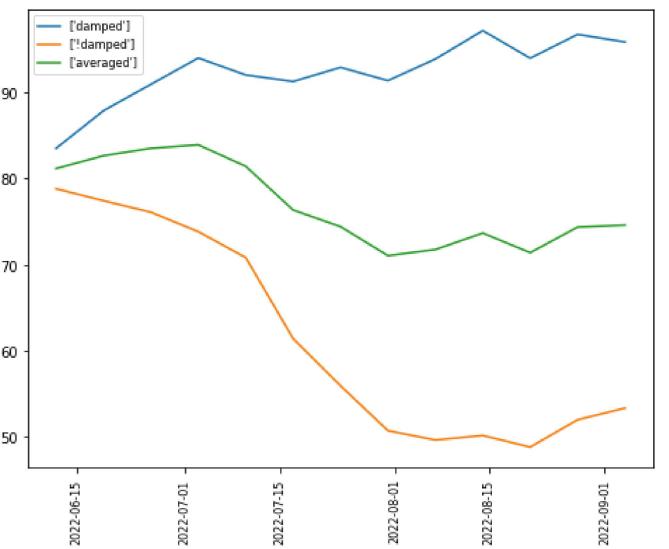
l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```

sets next 13 weeks
damped sell date: 2022-08-14
damped expected return: 0.3126585335064975
!damped sell date: 2022-06-12
!damped expected return: 0.0642366139236369
averaged sell date: 2022-07-03
averaged expected return: 0.13324590789668433

```



25					
['quarterly_balance_sheet',		2021-12-31	2021-09-30	2021-06-30	\
Capital Surplus	7.636000e+09	8.206000e+09	8.189000e+09		
Total Liab	1.162600e+10	1.199600e+10	1.153000e+10		
Total Stockholder Equity	9.262000e+09	8.924000e+09	8.399000e+09		
Minority Interest	1.370000e+08	1.370000e+08	1.360000e+08		
Other Current Liab	2.545000e+09	2.940000e+09	2.554000e+09		
Total Assets	2.102500e+10	2.105700e+10	2.006500e+10		
Common Stock	6.600000e+07	6.800000e+07	6.800000e+07		
Other Current Assets	5.240000e+08	4.860000e+08	5.030000e+08		
Retained Earnings	1.692000e+09	7.500000e+08	2.430000e+08		
Other Liab	1.805000e+09	1.743000e+09	1.698000e+09		
Good Will	7.530000e+08	7.530000e+08	7.530000e+08		
Treasury Stock	-1.320000e+08	-1.000000e+08	-1.010000e+08		
Other Assets	3.780000e+08	3.670000e+08	3.970000e+08		
Cash	2.099000e+09	2.144000e+09	1.348000e+09		
Total Current Liabilities	3.087000e+09	3.505000e+09	3.072000e+09		
Deferred Long Term Asset Charges	7.000000e+06	NaN	NaN		
Other Stockholder Equity	-1.320000e+08	-1.000000e+08	-1.010000e+08		
Property Plant Equipment	1.524300e+10	1.532200e+10	1.544100e+10		
Total Current Assets	4.249000e+09	4.227000e+09	3.076000e+09		
Long Term Investments	4.020000e+08	3.880000e+08	3.980000e+08		
Net Tangible Assets	8.509000e+09	8.171000e+09	7.646000e+09		
Net Receivables	1.626000e+09	1.597000e+09	1.225000e+09		
Long Term Debt	6.482000e+09	6.492000e+09	6.502000e+09		
Accounts Payable	5.000000e+08	5.370000e+08	4.870000e+08		
Short Long Term Debt	NaN	NaN	NaN		
	2021-03-31				
Capital Surplus	8.172000e+09				
Total Liab	1.197100e+10				
Total Stockholder Equity	8.353000e+09				
Minority Interest	1.330000e+08				
Other Current Liab	2.124000e+09				
Total Assets	2.045700e+10				
Common Stock	6.700000e+07				
Other Current Assets	5.290000e+08				
Retained Earnings	2.180000e+08				
Other Liab	1.724000e+09				
Good Will	7.530000e+08				
Treasury Stock	-1.040000e+08				
Other Assets	3.060000e+08				
Cash	1.683000e+09				
Total Current Liabilities	2.945000e+09				
Deferred Long Term Asset Charges	NaN				
Other Stockholder Equity	-1.040000e+08				
Property Plant Equipment	1.552900e+10				
Total Current Assets	3.467000e+09				
Long Term Investments	4.020000e+08				
Net Tangible Assets	7.600000e+09				
Net Receivables	1.255000e+09				
Long Term Debt	7.042000e+09				
Accounts Payable	5.640000e+08				
Short Long Term Debt	2.260000e+08]			
17					
['quarterly_cashflow',		2021-12-31	2021-09-30	\	
Investments	-1.700000e+07	9.000000e+06			
Change To Liabilities	-1.800000e+07	4.690000e+08			
Total Cashflows From Investing Activities	-5.180000e+08	-4.740000e+08			
Total Cash From Financing Activities	-1.149000e+09	-3.370000e+08			
Change To Operating Activities	-2.200000e+07	-2.900000e+07			
Net Income	1.500000e+09	8.380000e+08			
Change In Cash	-5.000000e+07	7.820000e+08			
Repurchase Of Stock	-5.890000e+08	-3.000000e+06			
Effect Of Exchange Rate	1.000000e+06	-5.000000e+06			
Total Cash From Operating Activities	1.616000e+09	1.598000e+09			
Depreciation	5.850000e+08	5.790000e+08			
Dividends Paid	-7.300000e+07	-7.400000e+07			
Change To Account Receivables	-3.100000e+07	-3.320000e+08			
Other Cashflows From Financing Activities	-6.000000e+06	-5.000000e+06			
Change To Netincome	-4.010000e+08	1.130000e+08			
Capital Expenditures	-5.150000e+08	-4.840000e+08			
Net Borrowings	NaN	NaN			
	2021-06-30	2021-03-31			
Investments	8.000000e+06	1000000.0			
Change To Liabilities	7.200000e+07	16000000.0			
Total Cashflows From Investing Activities	-4.520000e+08	-130000000.0			
Total Cash From Financing Activities	-9.820000e+08	-824000000.0			
Change To Operating Activities	-7.600000e+07	-95000000.0			
Net Income	2.560000e+08	213000000.0			
Change In Cash	-3.390000e+08	-359000000.0			
Repurchase Of Stock	-9.000000e+06	-33000000.0			
Effect Of Exchange Rate	2.000000e+06	3000000.0			
Total Cash From Operating Activities	1.093000e+09	592000000.0			
Depreciation	5.360000e+08	481000000.0			
Dividends Paid	-7.500000e+07	-128000000.0			
Change To Account Receivables	-1.000000e+08	-63000000.0			
Other Cashflows From Financing Activities	-2.000000e+06	-28000000.0			
Change To Netincome	2.840000e+08	25000000.0			
Capital Expenditures	-5.090000e+08	-499000000.0			
Net Borrowings	-7.420000e+08	-560000000.0]		

```
4 ['quarterly_earnings',          Revenue   Earnings
Quarter
1Q2021  2461000000  213000000
2Q2021  2977000000  256000000
3Q2021  3625000000  838000000
4Q2021  4054000000  1506000000]
22
```

```
[ 'quarterly_financials',           2021-12-31  2021-09-30 \
Research Development             None      None
Effect Of Accounting Charges    None      None
Income Before Tax               1662000000.0 964000000.0
Minority Interest                137000000.0 137000000.0
Net Income                      1506000000.0 838000000.0
Selling General Administrative  95000000.0 95000000.0
Gross Profit                     2380000000.0 2080000000.0
Ebit                            1727000000.0 1068000000.0
Operating Income                 1727000000.0 1068000000.0
Other Operating Expenses         -24000000.0 344000000.0
Interest Expense                  -92000000.0 -93000000.0
Extraordinary Items              None      None
Non Recurring                    None      None
Other Items                       None      None
Income Tax Expense                150000000.0 120000000.0
Total Revenue                     4054000000.0 3625000000.0
Total Operating Expenses          2327000000.0 2557000000.0
Cost Of Revenue                   1674000000.0 1537000000.0
Total Other Income Expense Net   -65000000.0 -104000000.0
Discontinued Operations          None      None
Net Income From Continuing Ops  1512000000.0 844000000.0
Net Income Applicable To Common Shares 1487000000.0 832000000.0
```

```
2021-06-30  2021-03-31
Research Development             None      None
Effect Of Accounting Charges    None      None
Income Before Tax               304000000.0 -32000000.0
Minority Interest                136000000.0 133000000.0
Net Income                      256000000.0 213000000.0
Selling General Administrative  94000000.0 107000000.0
Gross Profit                     1655000000.0 1291000000.0
Ebit                            320000000.0 202000000.0
Operating Income                 320000000.0 202000000.0
Other Operating Expenses         702000000.0 512000000.0
Interest Expense                  -98000000.0 -105000000.0
Extraordinary Items              None      None
Non Recurring                    None      None
Other Items                       None      None
Income Tax Expense                43000000.0 -248000000.0
Total Revenue                     2977000000.0 2461000000.0
Total Operating Expenses          2657000000.0 2259000000.0
Cost Of Revenue                   1322000000.0 1170000000.0
Total Other Income Expense Net   -16000000.0 -234000000.0
Discontinued Operations          None      None
Net Income From Continuing Ops  261000000.0 216000000.0
Net Income Applicable To Common Shares 253000000.0 211000000.0 ]
```

```
10 ['mutualfund_holders',           Holder    Shares Date Reported \
0      Vanguard Total Stock Market Index Fund 19232335 2021-12-30
1      Select Sector SPDR Fund-Energy Select 18515332 2022-01-30
2      Vanguard Mid-Cap Index Fund 15295295 2021-12-30
3      Vanguard 500 Index Fund 13333264 2021-12-30
4      Undiscovered Managers Behavioral Value Fund 7254904 2021-12-30
5      SPDR S&P 500 ETF Trust 6678214 2022-01-30
6      Fidelity 500 Index Fund 6447707 2022-02-27
7      iShares Core S&P 500 ETF 5236340 2022-01-30
8      Vanguard Index-Value Index Fund 5169015 2021-12-30
9  Victory Portfolios-Sycamore Established Value ... 5050000 2022-01-30
```

```
% Out      Value
0 0.0291  847184356
1 0.0281  936320339
2 0.0232  673757744
3 0.0202  587338279
4 0.0110  319578521
5 0.0101  337717281
6 0.0098  383960951
7 0.0079  264801713
8 0.0078  227695110
9 0.0077  255378500 ]
```

```
3
['options', ('2022-07-15', '2023-01-20', '2024-01-19')]
27
['sustainability',           Value
2022-5
palmOil            False
controversialWeapons  False
gambling           False
socialScore        8.78
nuclear            False
furLeather         False
alcoholic          False
gmo                False]
```

```

catholic          False
socialPercentile 0
peerCount         66
governanceScore  7.86
environmentPercentile 0
animalTesting     False
tobacco           False
totalEsg          34.39
highestControversy 2
esgPerformance   LEAD_PERF
coal              False
pesticides        False
adult             False
percentile        76.03
peerGroup         Oil & Gas Producers
smallArms          False
environmentScore  17.75
governancePercentile 0
militaryContract  False]
symbol: MRO
sector: Energy
Index: SP500
supply trend: 385905130.6354009
risk trend factor: 3.229066300641798
    beta currentRatio debtToEquity dividendRate dividendYield \
MRO 2.766666   1.112    38.48      0.32      0.0119

    ebitda ebitdaMargins forwardPE freeCashflow grossMargins \
MRO 3308999936    0.58921  15.454082  1785500032    0.77546

    grossProfits heldPercentInstitutions industry marketCap \
MRO 4355000000    0.802    Oil & Gas E&P 23581886464

    operatingCashflow operatingMargins payoutRatio pegRatio priceToBook \
MRO 3239000064    0.20495  0.0769      0.59      2.213696

    priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
MRO 4.199054      0.16845  1.052       0.04117

    returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
MRO 0.08905      1.091    7.136    Energy    778537024

    shortRatio totalCash totalCashPerShare totalDebt totalRevenue
MRO 0.93 580000000  0.794  4112000000  5616000000

```

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

2022-06-10 30.290001 25.156063 29.418428 33.680793 26.579703 2.65432 21.271064 31.888343

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
MRO	1.127529	30.290001	385905130.635401	0.900034	0.972772	0.54597

l axis r axis

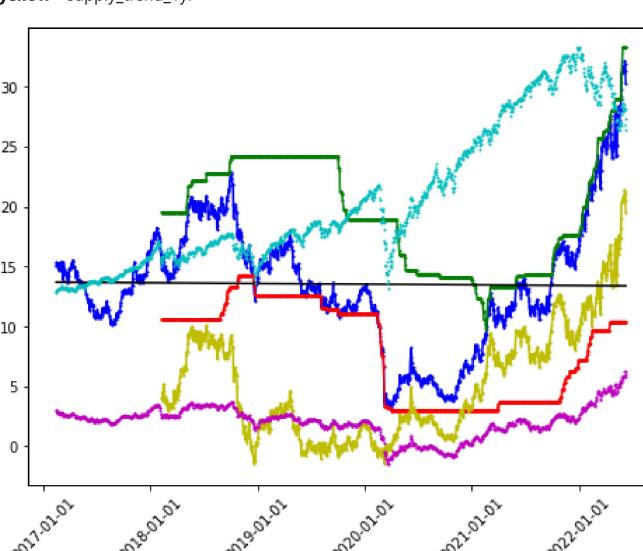
legend legend

blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index

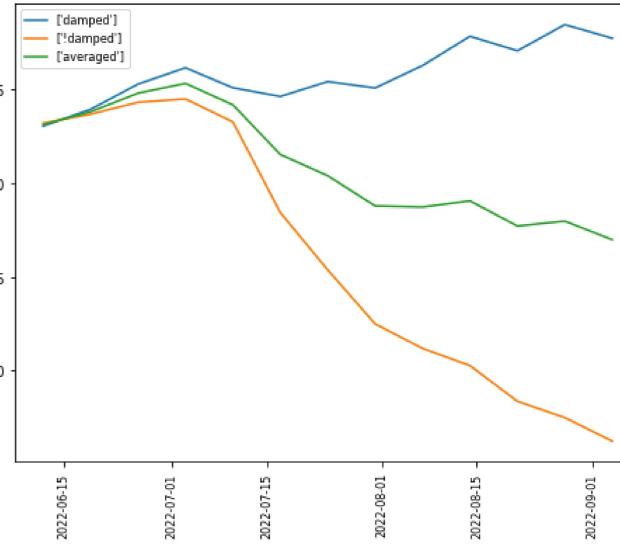
red	trailing_1yr_min
-----	------------------

black	linear
-------	--------

yellow	supply_trend_1yr
--------	------------------



ets next 13 weeks
damped sell date: 2022-08-28
damped expected return: 0.2696388775689633
!damped sell date: 2022-07-03
!damped expected return: 0.13862598438270668
averaged sell date: 2022-07-03
averaged expected return: 0.16607642467391512



23
['quarterly_balance_sheet', 2021-12-31 2021-09-30 2021-06-30]
Capital Surplus 7.221000e+09 7.213000e+09 7.201000e+09
Total Liab 6.308000e+09 6.365000e+09 7.166000e+09
Total Stockholder Equity 1.068600e+10 1.079600e+10 1.063400e+10
Other Current Liab 3.680000e+08 4.960000e+08 5.020000e+08
Total Assets 1.699400e+10 1.716100e+10 1.780000e+10
Common Stock 9.370000e+08 9.370000e+08 9.370000e+08
Other Current Assets 2.200000e+07 2.500000e+07 1.900000e+07
Retained Earnings 7.271000e+09 6.669000e+09 6.524000e+09
Other Liab 6.440000e+08 6.420000e+08 6.650000e+08
Treasury Stock -4.743000e+09 -4.023000e+09 -4.028000e+09
Other Assets 1.100000e+08 1.040000e+08 9.300000e+07
Cash 5.800000e+08 4.850000e+08 9.700000e+08
Total Current Liabilities 1.637000e+09 1.676000e+09 1.575000e+09
Short Long Term Debt 3.900000e+07 3.900000e+07 3.500000e+07
Other Stockholder Equity 8.200000e+07 8.200000e+07 7.700000e+07
Property Plant Equipment 1.458600e+10 1.484300e+10 1.511100e+10
Total Current Assets 1.821000e+09 1.655000e+09 2.075000e+09
Long Term Investments 4.770000e+08 5.590000e+08 5.210000e+08
Net Tangible Assets 1.068600e+10 1.079600e+10 1.063400e+10
Net Receivables 1.142000e+09 1.068000e+09 1.008000e+09
Long Term Debt 3.980000e+09 3.983000e+09 4.882000e+09
Inventory 7.700000e+07 7.700000e+07 7.800000e+07
Accounts Payable 1.110000e+09 1.028000e+09 9.370000e+08

2021-03-31
Capital Surplus 7.195000e+09
Total Liab 7.562000e+09
Total Stockholder Equity 1.067100e+10
Other Current Liab 3.810000e+08
Total Assets 1.823300e+10
Common Stock 9.370000e+08
Other Current Assets 2.600000e+07
Retained Earnings 6.540000e+09
Other Liab 6.950000e+08
Treasury Stock -4.001000e+09
Other Assets 9.600000e+07
Cash 1.125000e+09
Total Current Liabilities 1.899000e+09
Short Long Term Debt 5.010000e+08
Other Stockholder Equity 1.120000e+08
Property Plant Equipment 1.542500e+10
Total Current Assets 2.150000e+09
Long Term Investments 5.620000e+08
Net Tangible Assets 1.067100e+10
Net Receivables 9.210000e+08
Long Term Debt 4.910000e+09
Inventory 7.800000e+07
Accounts Payable 9.180000e+08]

18
['quarterly_cashflow', 2021-12-31 2021-09-30]
Investments 4.600000e+07 9.000000e+06
Change To Liabilities 1.410000e+08 1.070000e+08
Total Cashflows From Investing Activities -2.820000e+08 -2.650000e+08
Total Cash From Financing Activities -7.690000e+08 -1.036000e+09
Change To Operating Activities -2.000000e+07 -7.000000e+06
Net Income 6.490000e+08 1.840000e+08
Change In Cash 9.500000e+07 -4.850000e+08
Repurchase Of Stock -7.240000e+08 -1.000000e+06
Total Cash From Operating Activities 1.146000e+09 8.160000e+08
Depreciation 4.630000e+08 5.830000e+08
Dividends Paid -4.700000e+07 -3.900000e+07
Change To Account Receivables -7.600000e+07 -6.000000e+07
Other Cashflows From Financing Activities 2.000000e+06 -9.600000e+07
Change To Netincome -1.100000e+07 8.000000e+06
Capital Expenditures -2.740000e+08 -2.890000e+08
Net Borrowings NaN -9.000000e+08
Other Cashflows From Investing Activities NaN 1.000000e+06
Change To Inventory NaN 1.000000e+06

2021-06-30 2021-03-31
Investments 6000000.0 6000000.0
Change To Liabilities 2000000.0 10100000.0
Total Cashflows From Investing Activities -256000000.0 -207000000.0
Total Cash From Financing Activities -554000000.0 -32000000.0
Change To Operating Activities 12000000.0 61000000.0
Net Income 16000000.0 97000000.0
Change In Cash -155000000.0 383000000.0
Repurchase Of Stock -1000000.0 -9000000.0
Total Cash From Operating Activities 655000000.0 622000000.0
Depreciation 60000000.0 51200000.0
Dividends Paid -32000000.0 -23000000.0
Change To Account Receivables -78000000.0 -175000000.0
Other Cashflows From Financing Activities -22000000.0 -22000000.0
Change To Netincome 85000000.0 28000000.0
Capital Expenditures -274000000.0 -209000000.0
Net Borrowings -500000000.0 -500000000.0
Other Cashflows From Investing Activities 1000000.0 -1000000.0
Change To Inventory 1000000.0 -2000000.0]

4
['quarterly_earnings', Revenue Earnings]

Quarter
1Q2021 1180000000 97000000
2Q2021 1259000000 16000000
3Q2021 1439000000 184000000
4Q2021 1738000000 649000000]

22

['quarterly_financials' ,
Research Development None None
Effect Of Accounting Charges None None
Income Before Tax 683000000.0 188000000.0
Minority Interest None None
Net Income 649000000.0 184000000.0
Selling General Administrative 61000000.0 70000000.0
Gross Profit 1393000000.0 1089000000.0
Ebit 755000000.0 254000000.0
Operating Income 755000000.0 254000000.0
Other Operating Expenses 94000000.0 167000000.0
Interest Expense -74000000.0 -57000000.0
Extraordinary Items None None
Non Recurring None None
Other Items None None
Income Tax Expense 34000000.0 4000000.0
Total Revenue 1738000000.0 1439000000.0
Total Operating Expenses 983000000.0 1185000000.0
Cost Of Revenue 345000000.0 350000000.0
Total Other Income Expense Net -72000000.0 -66000000.0
Discontinued Operations None None
Net Income From Continuing Ops 649000000.0 184000000.0
Net Income Applicable To Common Shares 649000000.0 184000000.0

2021-06-30 2021-03-31

Research Development None None
Effect Of Accounting Charges None None
Income Before Tax 26000000.0 107000000.0
Minority Interest None None
Net Income 16000000.0 97000000.0
Selling General Administrative 69000000.0 75000000.0
Gross Profit 966000000.0 907000000.0
Ebit 54000000.0 87000000.0
Operating Income 54000000.0 87000000.0
Other Operating Expenses 240000000.0 227000000.0
Interest Expense -59000000.0 -13000000.0
Extraordinary Items None None
Non Recurring None None
Other Items None None
Income Tax Expense 10000000.0 10000000.0
Total Revenue 1259000000.0 1180000000.0
Total Operating Expenses 1205000000.0 1093000000.0
Cost Of Revenue 293000000.0 273000000.0
Total Other Income Expense Net -28000000.0 20000000.0
Discontinued Operations None None
Net Income From Continuing Ops 16000000.0 97000000.0
Net Income Applicable To Common Shares 16000000.0 97000000.0]

10

['mutualfund_holders' ,
0 Vanguard/Windsor II 26018487 Holder Shares Date Reported % Out \ 2022-01-30 0.0368
1 Select Sector SPDR Fund-Energy Select 22895120 2022-01-30 0.0324
2 Vanguard Total Stock Market Index Fund 22131478 2021-12-30 0.0313
3 Vanguard Small-Cap Index Fund 19611815 2021-12-30 0.0277
4 Vanguard 500 Index Fund 16486851 2021-12-30 0.0233
5 Vanguard Small Cap Value Index Fund 12430773 2021-12-30 0.0176
6 Fidelity Low-Priced Stock Fund 12282677 2022-02-27 0.0174
7 SPDR S&P 500 ETF Trust 8364080 2022-01-30 0.0118
8 Fidelity 500 Index Fund 7972838 2022-02-27 0.0113
9 Invesco Comstock Fd 7808667 2022-01-30 0.0110

Value

0 506579941
1 445767986
2 363398868
3 322026002
4 270714093
5 204113292
6 277097193
7 162848637
8 179867225
9 152034746]

4
['options' , ('2022-07-15' , '2022-09-16' , '2023-01-20' , '2024-01-19')]

27

['sustainability' ,
2022-5
palmOil False
controversialWeapons False
gambling False
socialScore 10.01
nuclear False
furLeather False
alcoholic False
gmo False
catholic False
socialPercentile 0

```

peerCount 66
governanceScore 8.13
environmentPercentile 0
animalTesting False
tobacco False
totalEsg 42.05
highestControversy 2
esgPerformance None
coal False
pesticides False
adult False
percentile 90.8
peerGroup Oil & Gas Producers
smallArms False
environmentScore 23.91
governancePercentile 0
militaryContract False]
symbol: PBF
sector: Energy
Index: SP600
supply trend: 65359710.136157334
risk trend factor: 3.225693266030666
    beta currentRatio debtToEquity ebitda ebitdaMargins forwardPE \
PBF 2.259981 1.254 197.914 690400000 0.02194 14.665455

    freeCashflow grossMargins grossProfits heldPercentInstitutions \
PBF 284750016 0.0362 671100000 0.80126

    industry marketCap operatingCashflow \
PBF Oil & Gas Refining & Marketing 4872993280 803299968

    operatingMargins payoutRatio pegRatio priceToBook \
PBF 0.0135 0 -0.19 2.545604

    priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
PBF 0.154844 0.00798 0.629 0.02192

    returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
PBF 0.14223 0.856 261.505 Energy 120828000

    shortRatio totalCash totalCashPerShare totalDebt totalRevenue \
PBF 2.81 1434599936 11.873 4999499776 31470299136

    trailingPE
PBF 19.549202

    Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSD 90d_lower 90d_upper
2022-06-10 40.330002 24.95881 34.143016 43.327222 28.732698 5.47571 17.781279 39.684118

```

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
PBF	1.018074	40.330002	65359710.136157	0.905392	0.730477	0.555776

I axis r axis

legend **legend**

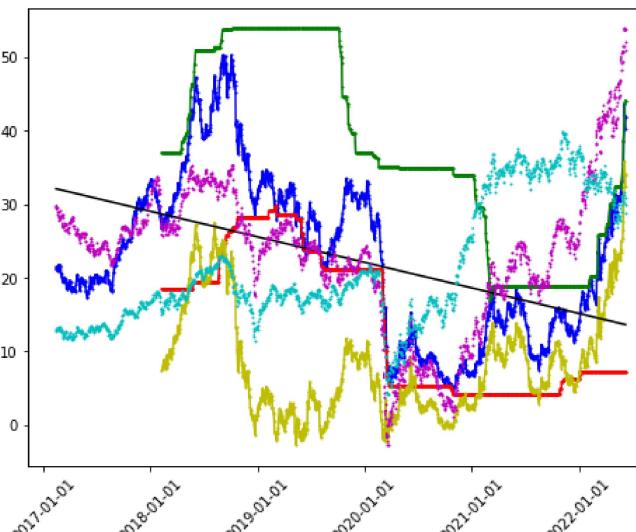
blue symbol magenta sector

green trailing_1yr_max cyan index

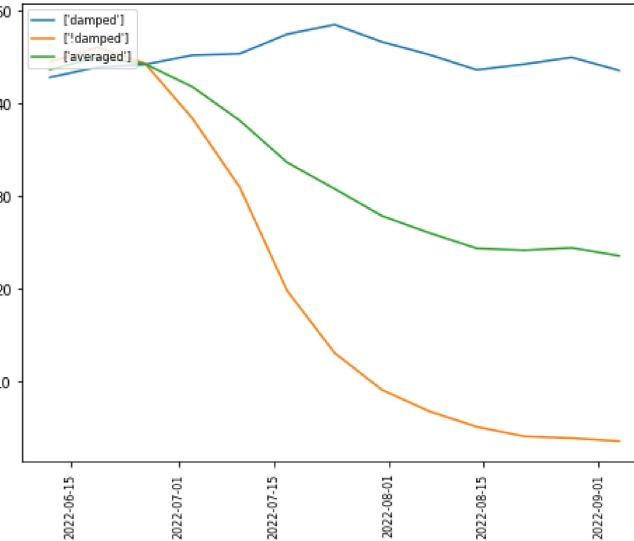
red trailing_1yr_min

black linear

yellow supply_trend_1yr



ets next 13 weeks
 damped sell date: 2022-07-24
 damped expected return: 0.20057266407733418
 !damped sell date: 2022-06-19
 !damped expected return: 0.13973736225828512
 averaged sell date: 2022-06-19
 averaged expected return: 0.1132701561393462



5
 ['options', ('2022-06-17', '2022-07-15', '2022-12-16', '2023-01-20', '2024-01-19')]

symbol: APA
 sector: Energy
 Index: SP500
 supply trend: 154170566.944024
 risk trend factor: 3.199620940107091
 beta currentRatio debtToEquity dividendRate dividendYield \

APA 4.125226 1.227 704.108 0.5 0.0098

earningsGrowth ebitda ebitdaMargins forwardPE freeCashflow \

APA 4.324 4982000128 0.56569 5.04757 2424875008

grossMargins grossProfits heldPercentInstitutions industry \

APA 0.67015 5080000000 0.87511 Oil & Gas E&P

marketCap operatingCashflow operatingMargins payoutRatio pegRatio \

APA 16509104128 3716000000 0.40218 0.0339 0.19

priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \

APA 1.874543 0.28023 0.882 0.17293

returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \

APA 4.69732 0.405 24.063 Energy 338232000

shortRatio totalCash totalCashPerShare totalDebt totalRevenue \

APA 1 23400000 0.692 5999000064 8807000064

trailingPE
 APA 7.255835

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

2022-06-10 48.810001 37.987556 45.39127 52.794983 42.493492 3.486022 35.521448 49.465537

volume_factor latest_p vol_30d_2yr pct_2yr adf hurst

APA 1.279846 48.810001 154170566.944024 0.929438 0.443494 0.44772

l axis r axis

legend legend

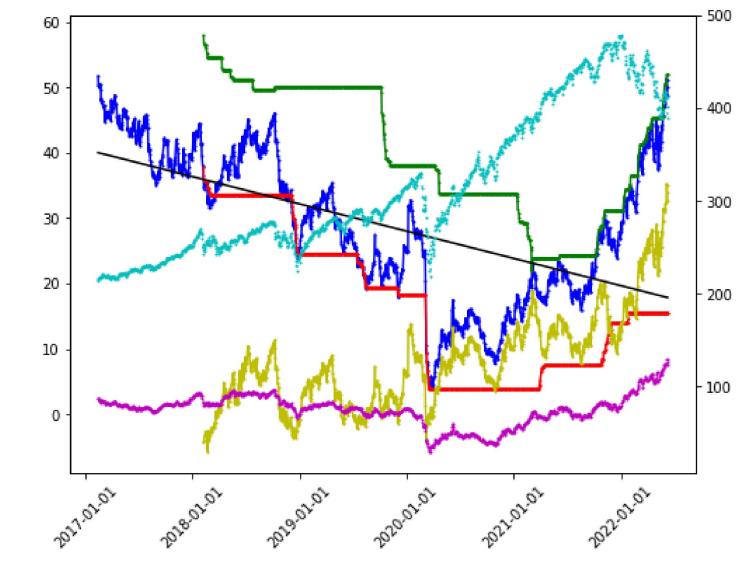
blue symbol magenta sector

green trailing_1yr_max cyan index

red trailing_1yr_min

black linear

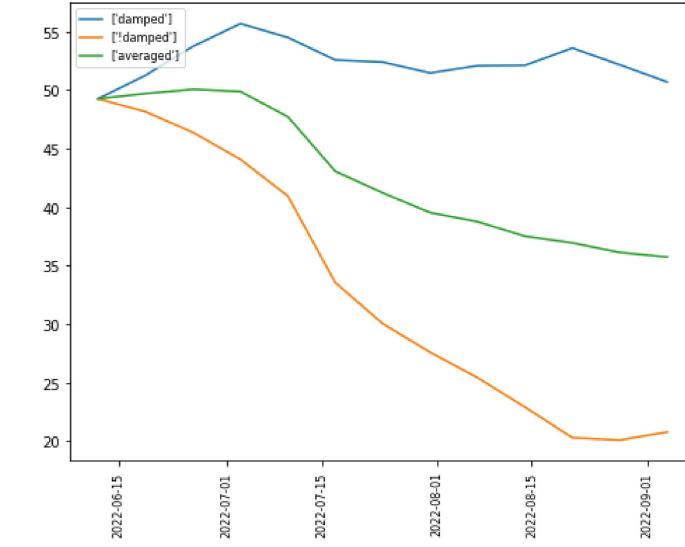
yellow supply_trend_1yr



```

sets next 13 weeks
damped sell date: 2022-07-03
damped expected return: 0.14034030332150196
!damped sell date: 2022-06-12
!damped expected return: 0.008804082686518198
averaged sell date: 2022-06-26
averaged expected return: 0.025259729128015388

```



```

3
['options', ('2022-07-15', '2023-01-20', '2024-01-19')]
27
['sustainability', Value
2021-3
palmOil False
controversialWeapons False
gambling False
socialScore 8.88
nuclear False
furLeather False
alcoholic False
gmo False
catholic False
socialPercentile None
peerCount 71
governanceScore 7.96
environmentPercentile None
animalTesting False
tobacco False
totalEsg 38.81
highestControversy 2
esgPerformance OUT_PERF
coal False
pesticides False
adult False
percentile 82.83
peerGroup Oil & Gas Producers
smallArms False
environmentScore 21.98
governancePercentile None
militaryContract False]
symbol: CTRA
sector: Energy
Index: SP500
supply trend: 150668871.709531
risk trend factor: 3.1929469250530653
    beta currentRatio debtToEquity dividendRate dividendYield \
CTRA -0.189215 1.751 29.377 0.6 0.0201

    earningsGrowth ebitda ebitdaMargins forwardPE freeCashflow \
CTRA 2.487 2364999936 0.64441 9.610645 1148249984

    grossMargins grossProfits heldPercentInstitutions industry \
CTRA 0.77684 2851000000 0.94558 Oil & Gas E&P

    marketCap operatingCashflow operatingMargins payoutRatio pegRatio \
CTRA 27913861120 1667000064 0.45559 0.182 0.09

    priceToBook priceToSalesTrailing12Months profitMargins quickRatio \
CTRA 5.895189 7.605957 0.31553 1.699

    returnOnAssets returnOnEquity revenueGrowth revenuePerShare sector \
CTRA 0.08557 0.16538 4.191 7.296 Energy

    sharesOutstanding shortRatio totalCash totalCashPerShare totalDebt \
CTRA 813577984 3.2 1036000000 1.273 3463000064

    totalRevenue trailingPE
CTRA 3670000128 39.032993

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper


---


2022-06-10 34.310001 28.660914 33.218095 37.775277 29.828254 3.373921 23.080412 36.576096

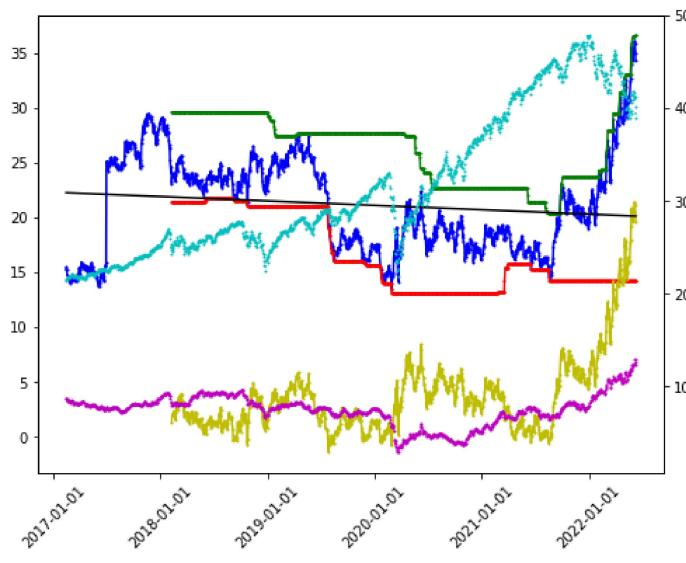
volume_factor latest_p vol_30d_2yr pct_2yr adf hurst


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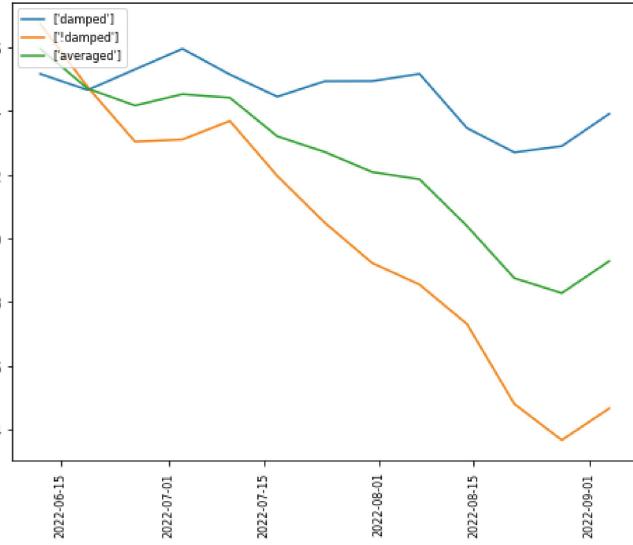

CTRA 1.337181 34.310001 150668871.709531 0.899416 0.507048 0.467954

```

l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



sets next 13 weeks
 damped sell date: 2022-07-03
 damped expected return: 0.04762897523501855
 !damped sell date: 2022-06-12
 !damped expected return: 0.07063493857108265
 averaged sell date: 2022-06-12
 averaged expected return: 0.04767250419645632



23					
	'quarterly_balance_sheet',		2021-12-31	2021-09-30	2021-06-30 \
	Capital Surplus	1.091100e+10	1.823373e+09	1.815770e+09	
	Total Liab	8.112000e+09	2.404585e+09	2.310672e+09	
	Total Stockholder Equity	1.173800e+10	2.326112e+09	2.299895e+09	
	Deferred Long Term Liab	5.000000e+06	5.329000e+06	5.844000e+06	
	Other Current Liab	1.880000e+08	2.128940e+08	7.719900e+07	
	Total Assets	1.990000e+10	4.730697e+09	4.610567e+09	
	Common Stock	8.900000e+07	4.786200e+07	4.786200e+07	
	Other Current Assets	2.400000e+07	1.323500e+07	1.540000e+07	
	Retained Earnings	2.563000e+09	2.276071e+09	2.257320e+09	
	Other Liab	3.512000e+09	9.650310e+08	9.577370e+08	
	Treasury Stock	-1.825000e+09	-1.821194e+09	-1.821057e+09	
	Other Assets	7.200000e+07	3.109900e+07	3.170800e+07	
	Cash	1.036000e+09	7.627000e+07	1.581470e+08	
	Total Current Liabilities	1.220000e+09	4.660100e+08	3.786840e+08	
	Other Stockholder Equity	1.000000e+06	2.007000e+06	2.144000e+06	
	Property Plant Equipment	1.769200e+10	4.256875e+09	4.182793e+09	
	Total Current Assets	2.136000e+09	4.427230e+08	3.960660e+08	
	Net Tangible Assets	1.173800e+10	2.326112e+09	2.299895e+09	
	Net Receivables	1.037000e+09	3.404370e+08	2.051240e+08	
	Long Term Debt	3.125000e+09	9.465090e+08	9.463160e+08	
	Inventory	3.900000e+07	1.278100e+07	1.739500e+07	
	Accounts Payable	7.470000e+08	2.271920e+08	1.662560e+08	
	Short Long Term Debt	Nan	Nan	1.000000e+08	
		2021-03-31			
	Capital Surplus	1.808232e+09			
	Total Liab	2.244882e+09			
	Total Stockholder Equity	2.305970e+09			
	Deferred Long Term Liab	6.360000e+06			
	Other Current Liab	1.989500e+07			
	Total Assets	4.550852e+09			
	Common Stock	4.783800e+07			
	Other Current Assets	2.198400e+07			
	Retained Earnings	2.270819e+09			
	Other Liab	9.549700e+08			
	Treasury Stock	-1.820919e+09			
	Other Assets	3.078400e+07			
	Cash	1.736590e+08			
	Total Current Liabilities	3.150920e+08			
	Other Stockholder Equity	2.282000e+06			
	Property Plant Equipment	4.108153e+09			
	Total Current Assets	4.119150e+08			
	Net Tangible Assets	2.305970e+09			
	Net Receivables	2.004020e+08			
	Long Term Debt	9.461230e+08			
	Inventory	1.587000e+07			
	Accounts Payable	1.691010e+08			
	Short Long Term Debt	1.000000e+08]
16					
	'quarterly_cashflow',		2021-12-31	2021-09-30	\
	Change To Liabilities	-17390000.0	76262000.0		
	Total Cashflows From Investing Activities	771721000.0	-183894000.0		
	Net Borrowings	-2000000.0	-10000000.0		
	Total Cash From Financing Activities	-764618000.0	-143963000.0		
	Change To Operating Activities	17176000.0	-9218000.0		
	Net Income	938468000.0	62714000.0		
	Change In Cash	959440000.0	-82663000.0		
	Repurchase Of Stock	-108431000.0	-108431000.0		
	Total Cash From Operating Activities	952337000.0	245194000.0		
	Depreciation	410014000.0	97289000.0		
	Dividends Paid	-652187000.0	-43963000.0		
	Change To Inventory	2511000.0	4614000.0		
	Change To Account Receivables	-159015000.0	-102009000.0		
	Other Cashflows From Financing Activities	-2000000.0	-2000000.0		
	Change To Netincome	-320852000.0	148138000.0		
	Capital Expenditures	-268960000.0	-184101000.0		
		2021-06-30	2021-03-31		
	Change To Liabilities	-15297000.0	3425000.0		
	Total Cashflows From Investing Activities	-151302000.0	-123525000.0		
	Net Borrowings	-10000000.0	-88000000.0		
	Total Cash From Financing Activities	-43963000.0	-133456000.0		
	Change To Operating Activities	4956000.0	-13914000.0		
	Net Income	30464000.0	126354000.0		
	Change In Cash	-16323000.0	33546000.0		
	Repurchase Of Stock	-108431000.0	-5569000.0		
	Total Cash From Operating Activities	178942000.0	290527000.0		
	Depreciation	91549000.0	94148000.0		
	Dividends Paid	-43963000.0	-39887000.0		
	Change To Inventory	-1525000.0	-600000.0		
	Change To Account Receivables	15143000.0	16881000.0		
	Other Cashflows From Financing Activities	-2000000.0	-2000000.0		
	Change To Netincome	92703000.0	40011000.0		
	Capital Expenditures	-151322000.0	-123617000.0]	
4					
	'quarterly_earnings',	Revenue	Earnings		
	Quarter				
	1Q2021	472918000	126354000		
	2Q2021	411788000	30464000		
	3Q2021	641678000	62714000		

4Q2021 2143616000 938468000]

22

['quarterly_financials',
 Research Development None None
 Effect Of Accounting Charges None None
 Income Before Tax 1214465000.0 83216000.0
 Minority Interest None None
 Net Income 938468000.0 62714000.0
 Selling General Administrative 95410000.0 24998000.0
 Gross Profit 1797984000.0 47153000.0
 Ebit 1298389000.0 135756000.0
 Operating Income 1298389000.0 135756000.0
 Other Operating Expenses -14836000.0 209489000.0
 Interest Expense -24488000.0 -12577000.0
 Extraordinary Items None None
 Non Recurring None None
 Other Items None None
 Income Tax Expense 275997000.0 20502000.0
 Total Revenue 2143616000.0 641678000.0
 Total Operating Expenses 845227000.0 505922000.0
 Cost Of Revenue 345632000.0 170148000.0
 Total Other Income Expense Net -83924000.0 -52540000.0
 Discontinued Operations None None
 Net Income From Continuing Ops 938468000.0 62714000.0
 Net Income Applicable To Common Shares 935468000.0 62714000.0]

2021-06-30 2021-03-31

Research Development None None
 Effect Of Accounting Charges None None
 Income Before Tax 41304000.0 163015000.0
 Minority Interest None None
 Net Income 30464000.0 126354000.0
 Selling General Administrative 16837000.0 26755000.0
 Gross Profit 262146000.0 319340000.0
 Ebit 60088000.0 177767000.0
 Operating Income 60088000.0 177767000.0
 Other Operating Expenses 91384000.0 18043000.0
 Interest Expense -12558000.0 -12377000.0
 Extraordinary Items None None
 Non Recurring None None
 Other Items None None
 Income Tax Expense 10840000.0 36661000.0
 Total Revenue 411788000.0 472918000.0
 Total Operating Expenses 351700000.0 295151000.0
 Cost Of Revenue 149642000.0 153578000.0
 Total Other Income Expense Net -18784000.0 -14752000.0
 Discontinued Operations None None
 Net Income From Continuing Ops 30464000.0 126354000.0
 Net Income Applicable To Common Shares 30464000.0 126354000.0]

10

['mutualfund_holders', Holder Shares Date Reported \]

0 Select Sector SPDR Fund-Energy Select 23925372 2022-01-30
 1 Vanguard Total Stock Market Index Fund 23123140 2021-12-30
 2 Vanguard Small-Cap Index Fund 20493160 2021-12-30
 3 Vanguard 500 Index Fund 17229139 2021-12-30
 4 Washington Mutual Investors Fund 16985001 2022-01-30
 5 Vanguard Fenway Funds-Equity Income Fund 16267453 2021-12-30
 6 Income Fund of America Inc 13333912 2022-01-30
 7 Vanguard Small-Cap Growth Index Fund 12758989 2021-12-30
 8 Victory Portfolios-Sycamore Established Value ... 12049383 2022-01-30
 9 Fundamental Investors Inc 11357657 2021-12-30

% Out Value
 0 0.0297 523965646
 1 0.0287 439339660
 2 0.0254 389370040
 3 0.0214 327353641
 4 0.0211 371971521
 5 0.0202 309081607
 6 0.0165 292012672
 7 0.0158 242420791
 8 0.0150 263881487
 9 0.0141 215795483]

4

['options', ('2022-07-15', '2022-09-16', '2023-01-20', '2024-01-19')]

27

['sustainability', Value
 2022-5
 palmOil False
 controversialWeapons False
 gambling False
 socialsScore 14.01
 nuclear False
 furLeather False
 alcoholic False
 gmo False
 catholic False
 socialPercentile 0
 peerCount 66
 governanceScore 9.28
 environmentPercentile 0
 animalTesting False]

```

tobacco          False
totalEsg         46.68
highestControversy      2
esgPerformance    None
coal             False
pesticides        False
adult            False
percentile       95.93
peerGroup        Oil & Gas Producers
smallArms        False
environmentScore 23.39
governancePercentile 0
militaryContract False]
symbol: COP
sector: Energy
Index: SP500
supply trend: 164910706.505295
risk trend factor: 3.1812515705509306
    beta currentRatio debtToEquity dividendRate dividendYield \
COP 1.350272      1.513     38.088      1.92      0.0156

    earningsGrowth ebitda ebitdaMargins forwardPE freeCashflow \
COP 4.853 25497999360 0.46444 10.605744 10752749568

    grossMargins grossProfits heldPercentInstitutions industry \
COP 0.52295 22936000000 0.8134 Oil & Gas E&P

    marketCap operatingCashflow operatingMargins payoutRatio pegRatio \
COP 157619814400 19983998976 0.33401 0.2348 0.56

    priceToBook priceToSalesTrailing12Months profitMargins quickRatio \
COP 3.20246      2.871035 0.23417      1.287

    returnOnAssets returnOnEquity revenueGrowth revenuePerShare sector \
COP 0.1295      0.27835 0.828      41.447 Energy

    sharesOutstanding shortRatio totalCash totalCashPerShare totalDebt \
COP 1293449984 1.83 7144000000 5.523 18745999360

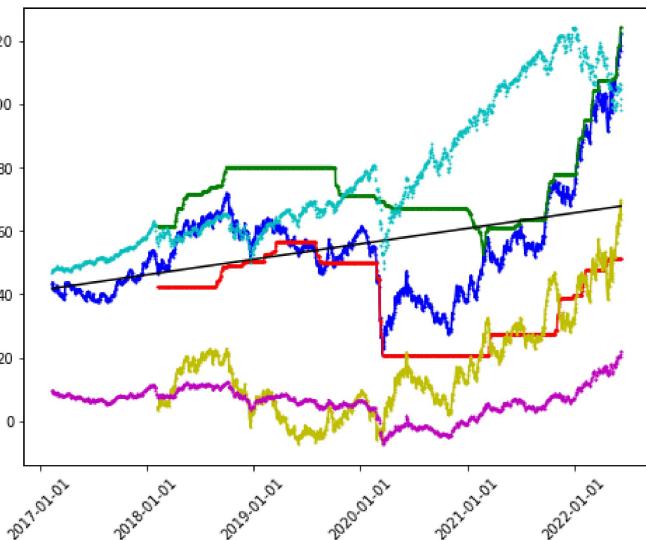
    totalRevenue trailingPE
COP 54899998720 12.631906

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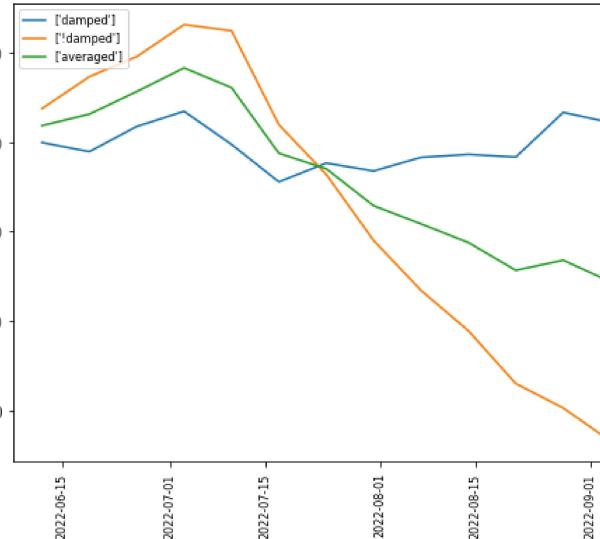
	Adj	Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	116.830002	98.434997	111.473651	124.512305	103.658731	7.46267	88.73339	118.584071	

volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst	
COP	0.946298	116.830002	164910706.505295	0.924909	0.992942	0.491541

l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



ets next 13 weeks
 damped sell date: 2022-07-03
 damped expected return: 0.05650793431440409
 !damped sell date: 2022-07-03
 !damped expected return: 0.13933264470336057
 averaged sell date: 2022-07-03
 averaged expected return: 0.09792028950888226



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3
['options', ('2022-08-19', '2023-01-20', '2024-01-19')]
27
['sustainability',                               Value
2022-5
palmOil                         False
controversialWeapons            False
gambling                        False
socialScore                      9.71
nuclear                          False
furLeather                       False
alcoholic                         False
gmo                             False
catholic                         False
socialPercentile                None
peerCount                        66
governanceScore                 7.68
environmentPercentile           None
animalTesting                    False
tobacco                          False
totalEsg                         34.92
highestControversy               2
esgPerformance                  OUT_PERF
coal                            False
pesticides                       False
adult                           False
percentile                      77.49
peerGroup                        Oil & Gas Producers
smallArms                        False
environmentScore                 17.53
governancePercentile             None
militaryContract                False]
symbol: VLO
sector: Energy
Index: SP500
supply trend: 84050366.56580938
risk trend factor: 3.1558878750034074
    beta currentRatio debtToEquity dividendRate dividendYield \
VLO  1.762704      1.178     64.483      3.92      0.027

    ebitda ebitdaMargins forwardPE freeCashflow grossMargins \
VLO  6672999936      0.05306   12.882617   464762516      0.05998

    grossProfits heldPercentInstitutions          industry \
VLO  5487000000      0.80461   Oil & Gas Refining & Marketing

    marketCap operatingCashflow operatingMargins payoutRatio pegRatio \
VLO  58671964160      6498999808      0.0341      0.6312      0.42

    priceToBook priceToSalesTrailing12Months profitMargins quickRatio \
VLO  3.117438      0.466521      0.02019      0.7

    returnOnAssets returnOnEquity revenueGrowth revenuePerShare sector \
VLO  0.04701       0.14702      0.886      308.815   Energy

    sharesOutstanding shortRatio totalCash totalCashPerShare totalDebt \
VLO  408096000      1.87      2638000128      6.464      13160999936

    totalRevenue trailingPE
VLO  125765001216      23.143915
  
```

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

2022-06-10 140.509995 116.071949 130.762381 145.452813 113.398095 16.061488 81.27512 145.521071

volume_factor latest_p vol_30d_2yr pct_2yr adf hurst

VLO 1.213534 140.509995 84050366.565809 0.943432 0.970961 0.536721

l axis r axis

legend legend

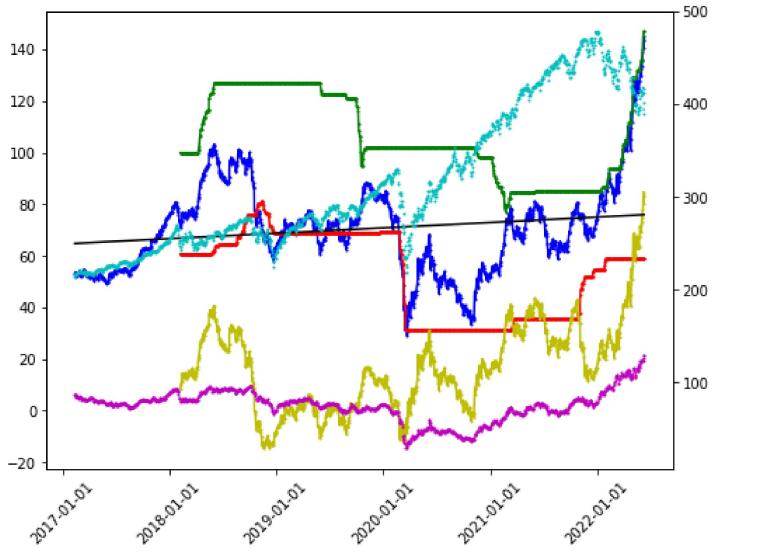
blue symbol magenta sector

green trailing_1yr_max cyan index

red trailing_1yr_min

black linear

yellow supply_trend_1yr



ets next 13 weeks

damped sell date: 2022-08-28

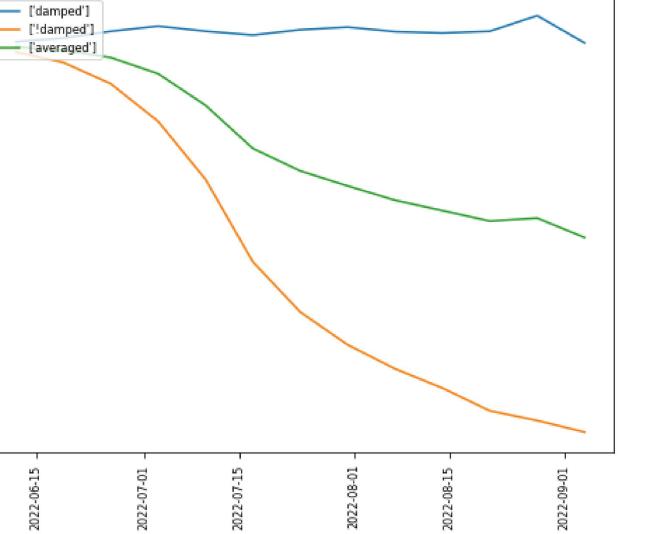
damped expected return: 0.06984341191640467

!damped sell date: 2022-06-12

!damped expected return: 0.005219179015691542

averaged sell date: 2022-06-12

averaged expected return: 0.014345223943555079



```

3
['options', ('2022-06-17', '2023-01-20', '2024-01-19')]
27
['sustainability', Value
2022-5
palmOil False
controversialWeapons False
gambling False
socialScore 7.23
nuclear False
furLeather False
alcoholic False
gmo False
catholic False
socialPercentile None
peerCount 39
governanceScore 4.98
environmentPercentile None
animalTesting False
tobacco False
totalEsg 30.94
highestControversy 3
esgPerformance OUT_PERF
coal False
pesticides False
adult False
percentile 65.34
peerGroup Refiners & Pipelines
smallArms False
environmentScore 18.74
governancePercentile None
militaryContract False]
symbol: EOG
sector: Energy
Index: SP500
supply trend: 86714140.16641453
risk trend factor: 3.0132617966707937
    beta currentRatio debtToEquity dividendRate dividendYield \
EOG 1.778921 2.124 26.632 3 0.0241

    earningsGrowth ebitda ebitdaMargins forwardPE freeCashflow \
EOG 4.838 10099000320 0.51064 14.574899 4534499840

    grossMargins grossProfits heldPercentInstitutions industry \
EOG 0.65905 13034000000 0.90667 Oil & Gas E&P

    marketCap operatingCashflow operatingMargins payoutRatio pegRatio \
EOG 84252958720 8791000064 0.30935 0.265 0.77

    priceToBook priceToSalesTrailing12Months profitMargins quickRatio \
EOG 3.870343 4.260148 0.23583 1.866

    returnOnAssets returnOnEquity revenueGrowth revenuePerShare sector \
EOG 0.10329 0.21957 1.047 34.04 Energy

    sharesOutstanding shortRatio totalCash totalCashPerShare totalDebt \
EOG 585089984 2.09 5208999936 8.898 5906999808

    totalRevenue trailingPE
EOG 19776999424 27.761713

```

	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
--	-----------	---------	----------	---------	--------	---------	-----------	-----------

2022-06-10	144.0	116.478407	133.361588	150.24477	124.478413	8.803147	106.872118	142.084708
------------	-------	------------	------------	-----------	------------	----------	------------	------------

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
--	---------------	----------	-------------	---------	-----	-------

EOG	0.92473	144.0	86714140.166415	0.96583	0.922673	0.487021
-----	---------	-------	-----------------	---------	----------	----------

I axis R axis

legend **legend**

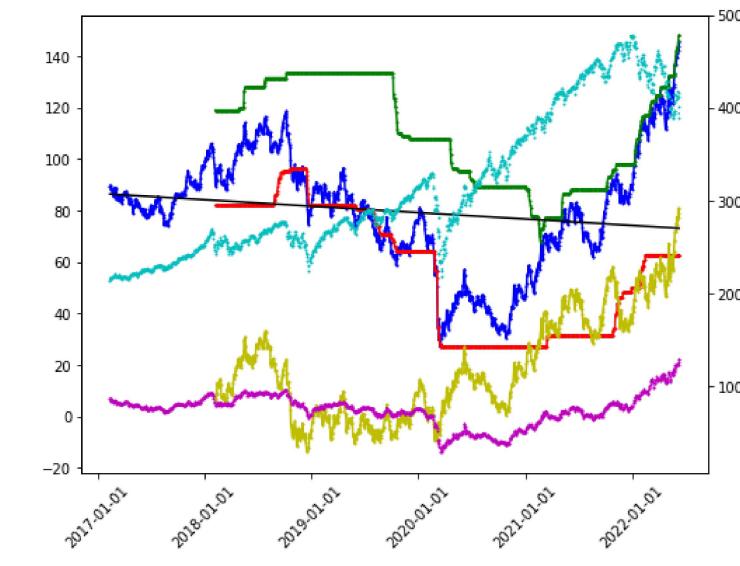
blue	symbol	magenta	sector
------	--------	---------	--------

green	trailing_1yr_max	cyan	index
-------	------------------	------	-------

red	trailing_1yr_min
-----	------------------

black	linear
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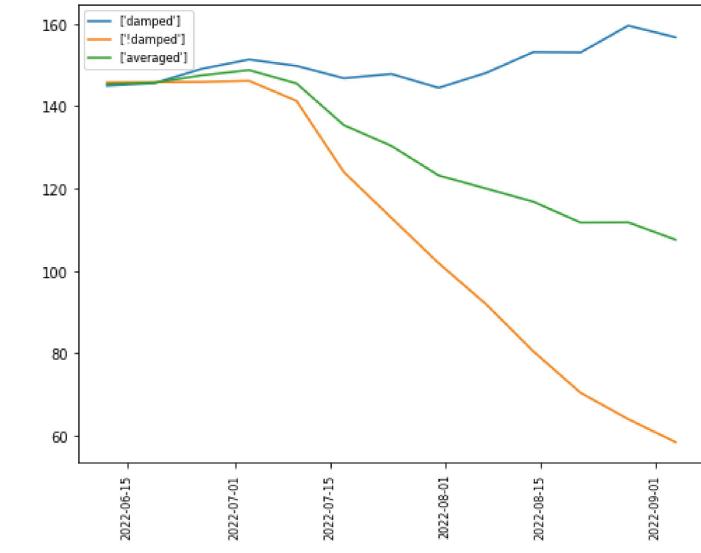
yellow	supply_trend_1yr
--------	------------------



```

sets next 13 weeks
damped sell date: 2022-08-28
damped expected return: 0.10785184872239956
!damped sell date: 2022-07-03
!damped expected return: 0.014909349230495176
averaged sell date: 2022-07-03
averaged expected return: 0.032837736164406946

```



23
['quarterly_balance_sheet',
Capital Surplus 6.087000e+09 6.058000e+09 6.017000e+09
Total Liab 1.605600e+10 1.540700e+10 1.600400e+10
Total Stockholder Equity 2.218000e+10 2.176500e+10 2.088100e+10
Other Current Liab 1.523000e+09 1.224000e+09 1.698000e+09
Total Assets 3.823600e+10 3.717200e+10 3.688500e+10
Common Stock 2.060000e+08 2.060000e+08 2.060000e+08
Other Current Assets 4.560000e+08 3.810000e+08 5.130000e+08
Retained Earnings 1.591900e+10 1.554200e+10 1.468900e+10
Other Liab 6.384000e+09 6.844000e+09 6.916000e+09
Treasury Stock -3.200000e+07 -4.100000e+07 -3.100000e+07
Other Assets 4.830000e+08 1.278000e+09 1.291000e+09
Cash 5.209000e+09 4.293000e+09 3.880000e+09
Total Current Liabilities 4.042000e+09 3.484000e+09 4.002000e+09
Deferred Long Term Asset Charges 1.100000e+07 1.400000e+07 3.000000e+06
Other Stockholder Equity -1.200000e+07 -1.300000e+07 -1.500000e+07
Property Plant Equipment 2.916900e+10 2.854500e+10 2.865900e+10
Total Current Assets 8.584000e+09 7.349000e+09 6.935000e+09
Net Tangible Assets 2.218000e+10 2.176500e+10 2.088100e+10
Net Receivables 2.335000e+09 2.154000e+09 2.026000e+09
Long Term Debt 4.859000e+09 5.079000e+09 5.086000e+09
Inventory 5.840000e+08 5.210000e+08 5.160000e+08
Accounts Payable 2.242000e+09 1.972000e+09 2.012000e+09
Short Long Term Debt NaN 3.800000e+07 3.900000e+07

2021-03-31

Capital Surplus 5.979000e+09
Total Liab 1.540900e+10
Total Stockholder Equity 2.076200e+10
Other Current Liab 1.059000e+09
Total Assets 3.617100e+10
Common Stock 2.060000e+08
Other Current Assets 4.130000e+08
Retained Earnings 1.466600e+10
Other Liab 7.003000e+09
Treasury Stock -2.900000e+07
Other Assets 1.314000e+09
Cash 3.388000e+09
Total Current Liabilities 3.312000e+09
Deferred Long Term Asset Charges 4.000000e+06
Other Stockholder Equity -1.400000e+07
Property Plant Equipment 2.866600e+10
Total Current Assets 6.191000e+09
Net Tangible Assets 2.076200e+10
Net Receivables 1.828000e+09
Long Term Debt 5.094000e+09
Inventory 5.620000e+08
Accounts Payable 1.945000e+09
Short Long Term Debt 3.900000e+07]

18

['quarterly_cashflow',
Change To Liabilities 3.410000e+08 -6.800000e+07
Total Cashflows From Investing Activities -8.370000e+08 -9.330000e+08
Net Borrowings -1.000000e+07 -9.000000e+06
Total Cash From Financing Activities -1.414000e+09 -8.500000e+08
Change To Operating Activities 2.000000e+07 -4.800000e+07
Issuance Of Stock 1.000000e+07 1.000000e+07
Net Income 1.985000e+09 1.095000e+09
Change In Cash 9.160000e+08 4.130000e+08
Repurchase Of Stock -8.000000e+06 -2.100000e+07
Effect Of Exchange Rate 1.000000e+06 1.000000e+06
Total Cash From Operating Activities 3.166000e+09 2.196000e+09
Depreciation 1.072000e+09 1.009000e+09
Other Cashflows From Investing Activities 1.000000e+08 -4.500000e+07
Dividends Paid -2.241732e+08 -2.488268e+08
Change To Inventory -1.080000e+08 -6.000000e+06
Change To Account Receivables -1.820000e+08 -1.450000e+08
Change To Netincome 1.200000e+07 1.530000e+08
Capital Expenditures -1.014000e+09 -8.960000e+08

2021-06-30 2021-03-31

Change To Liabilities 1.100000e+07 1.720000e+08
Total Cashflows From Investing Activities -8.280000e+08 -8.210000e+08
Net Borrowings -9.000000e+06 -7.590000e+08
Total Cash From Financing Activities -2.410000e+08 -9.880000e+08
Change To Operating Activities -1.410000e+08 -2.830000e+08
Issuance Of Stock 9.000000e+06 9.000000e+06
Net Income 9.070000e+08 6.770000e+08
Change In Cash 4.920000e+08 5.900000e+07
Repurchase Of Stock -2.000000e+06 -1.000000e+07
Effect Of Exchange Rate 2.000000e+06 -2.000000e+06
Total Cash From Operating Activities 1.559000e+09 1.870000e+09
Depreciation 9.570000e+08 9.430000e+08
Other Cashflows From Investing Activities 5.400000e+07 9.100000e+07
Dividends Paid -2.390000e+08 -2.190000e+08
Change To Inventory 3.700000e+07 6.400000e+07
Change To Account Receivables -1.860000e+08 -3.080000e+08
Change To Netincome 1.370000e+08 3.620000e+08
Capital Expenditures -1.023000e+09 -9.170000e+08]

4

['quarterly_earnings', Revenue Earnings]

Quarter
1Q2021 4067000000 677000000
2Q2021 4515000000 907000000
3Q2021 5258000000 1095000000
4Q2021 5937000000 1985000000]

22

['quarterly_financials',
Research Development None None
Effect Of Accounting Charges None None
Income Before Tax 2499000000.0 1429000000.0
Minority Interest None None
Net Income 1985000000.0 1095000000.0
Selling General Administrative 139000000.0 142000000.0
Gross Profit 4064000000.0 344000000.0
Ebit 2588000000.0 1470000000.0
Operating Income 2588000000.0 1470000000.0
Other Operating Expenses 180000000.0 771000000.0
Interest Expense -38000000.0 -48000000.0
Extraordinary Items None None
Non Recurring None None
Other Items None None
Income Tax Expense 514000000.0 334000000.0
Total Revenue 5937000000.0 5258000000.0
Total Operating Expenses 3349000000.0 3788000000.0
Cost Of Revenue 1873000000.0 1818000000.0
Total Other Income Expense Net -89000000.0 -41000000.0
Discontinued Operations None None
Net Income From Continuing Ops 1985000000.0 1095000000.0
Net Income Applicable To Common Shares 1985000000.0 1095000000.0

2021-06-30 2021-03-31

Research Development None None
Effect Of Accounting Charges None None
Income Before Tax 1124000000.0 881000000.0
Minority Interest None None
Net Income 907000000.0 677000000.0
Selling General Administrative 120000000.0 118000000.0
Gross Profit 2912000000.0 2618000000.0
Ebit 1121000000.0 939000000.0
Operating Income 1121000000.0 939000000.0
Other Operating Expenses 666000000.0 582000000.0
Interest Expense -45000000.0 -47000000.0
Extraordinary Items None None
Non Recurring None None
Other Items None None
Income Tax Expense 217000000.0 204000000.0
Total Revenue 4515000000.0 4067000000.0
Total Operating Expenses 3394000000.0 3128000000.0
Cost Of Revenue 1603000000.0 1449000000.0
Total Other Income Expense Net 3000000.0 -5800000.0
Discontinued Operations None None
Net Income From Continuing Ops 907000000.0 677000000.0
Net Income Applicable To Common Shares 907000000.0 677000000.0]

10

['mutualfund_holders', Holder Shares Date Reported % Out \\
0 Vanguard Total Stock Market Index Fund 16628038 2021-12-30 0.0284
1 Select Sector SPDR Fund-Energy Select 15554415 2022-01-30 0.0266
2 Vanguard 500 Index Fund 12390700 2021-12-30 0.0212
3 Growth Fund Of America Inc 11079049 2022-02-27 0.0189
4 Washington Mutual Investors Fund 10123086 2022-01-30 0.0173
5 American Mutual Fund Inc 9597595 2022-01-30 0.0164
6 Investment Company Of America 8922398 2021-12-30 0.0152
7 JP Morgan Equity Income Fund 7968006 2021-12-30 0.0136
8 Capital World Growth and Income Fund 6235135 2022-02-27 0.0106
9 SPDR S&P 500 ETF Trust 6192774 2022-01-30 0.0106

Value

0 1477068615
1 1734006184
2 1100665881
3 1273204311
4 1128521627
5 1069939890
6 792576614
7 707797972
8 716541714
9 690370445]
4

['options', ('2022-07-15', '2023-01-20', '2024-01-19', '2026-03-20')]

27

['sustainability', Value
2022-5
palmOil False
controversialWeapons False
gambling False
socialScore 8.13
nuclear False
furLeather False
alcoholic False
gmo False
catholic False
socialPercentile 0

```

peerCount          66
governanceScore   7.73
environmentPercentile 0
animalTesting      False
tobacco            False
totalEsg           36.25
highestControversy 1
esgPerformance    LEAD_PERF
coal               False
pesticides         False
adult              False
percentile         81.37
peerGroup          Oil & Gas Producers
smallArms          False
environmentScore   20.39
governancePercentile 0
militaryContract   False]
symbol: WRB
sector: Financial Services
Index: SP500
supply trend: 23023001.531770047
risk trend factor: 2.9081260434938816
  beta debtToEquity dividendRate dividendYield earningsGrowth \
WRB  0.788235      52.129     0.35      0.0051      1.585

  ebitda ebitdaMargins forwardPE grossMargins grossProfits \
WRB  1976933504     0.19355   13.101728    0.44661   4029355000

  heldPercentInstitutions industry marketCap \
WRB  0.69304  Insurance--Property & Casualty 12057446400

  operatingMargins payoutRatio pegRatio priceToBook \
WRB  0.18096      0.07      1.83      1.813544

  priceToSalesTrailing12Months profitMargins revenueGrowth revenuePerShare \
WRB  1.180482      0.13546     0.352      36.85

  sector sharesOutstanding shortRatio totalCash \
WRB  Financial Services 176640000 1.06 2748449024

  totalCashPerShare totalDebt totalRevenue trailingPE
WRB  10.364  3475796992 10214005760 12.265948

```

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

2022-06-10 68.260002 65.61324 69.11873 72.624221 67.673228 2.145514 63.382199 71.964256

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
--	---------------	----------	-------------	---------	-----	-------

WRB 1.310112 68.260002 23023001.53177 0.886168 0.965152 0.455795

l axis r axis

legend **legend**

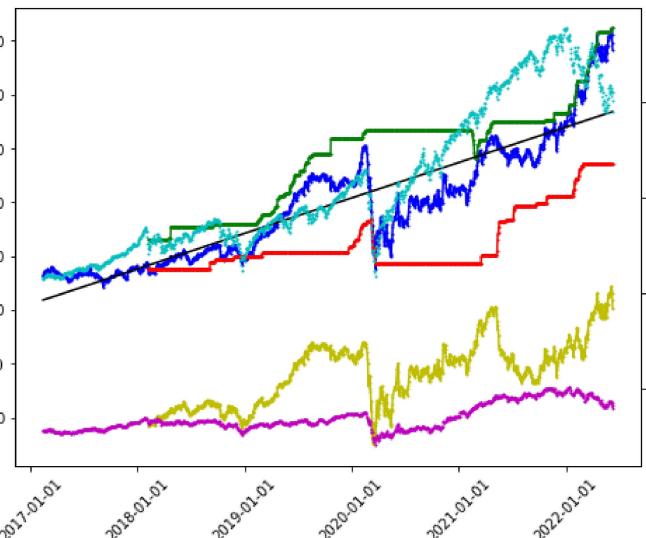
blue	symbol	magenta	sector
------	--------	---------	--------

green	trailing_1yr_max	cyan	index
-------	------------------	------	-------

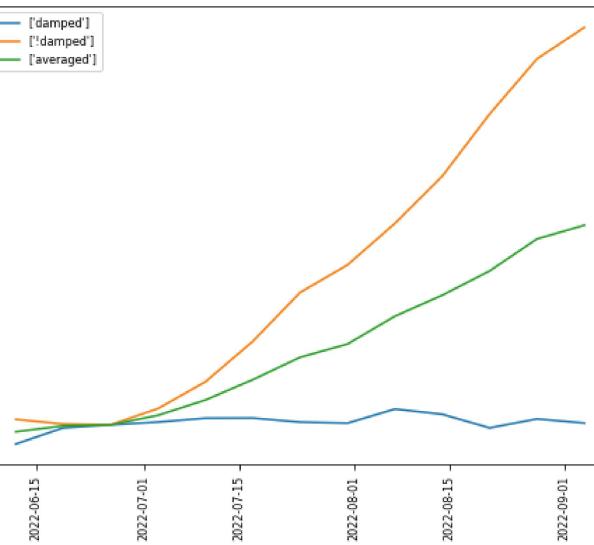
red	trailing_1yr_min
-----	------------------

black	linear
-------	--------

yellow	supply_trend_1yr
--------	------------------



ets next 13 weeks
damped sell date: 2022-08-07
damped expected return: 0.0692655736181108
!damped sell date: 2022-09-04
!damped expected return: 0.4479086081648933
averaged sell date: 2022-09-04
averaged expected return: 0.25163303714212404



26					
['quarterly_balance_sheet',		2022-03-31	2021-12-31	2021-09-30	\
Total Stockholder Equity	6.653011e+09	6.653011e+09	6.648441e+09		
Net Tangible Assets	6.398359e+09	6.398359e+09	6.478789e+09		
Intangible Assets	NaN	7.611450e+08	6.626360e+08		
Capital Surplus	NaN	1.016372e+09	1.018300e+09		
Total Liab	NaN	2.541868e+10	2.488058e+10		
Minority Interest	NaN	1.471900e+07	1.527000e+07		
Other Current Liab	NaN	4.923033e+09	4.770052e+09		
Total Assets	NaN	3.208641e+10	3.154429e+10		
Common Stock	NaN	7.053500e+07	7.053500e+07		
Other Current Assets	NaN	3.045964e+09	2.919056e+09		
Retained Earnings	NaN	9.015135e+09	8.920334e+09		
Other Liab	NaN	1.113986e+09	1.159717e+09		
Good Will	NaN	1.696520e+08	1.696520e+08		
Treasury Stock	NaN	-3.449931e+09	-3.360728e+09		
Other Assets	NaN	2.521156e+09	2.500260e+09		
Cash	NaN	1.568843e+09	2.069029e+09		
Total Current Liabilities	NaN	2.130029e+10	2.026349e+10		
Deferred Long Term Asset Charges	NaN	5.742500e+07	NaN		
Short Long Term Debt	NaN	4.264260e+08	5.000000e+06		
Other Stockholder Equity	NaN	-2.819550e+08	-1.908620e+08		
Property Plant Equipment	NaN	5.920630e+08	5.906700e+08		
Total Current Assets	NaN	9.017870e+09	9.328265e+09		
Long Term Investments	NaN	1.902453e+10	1.829280e+10		
Net Receivables	NaN	2.546542e+09	2.808928e+09		
Long Term Debt	NaN	2.840642e+09	3.261118e+09		
Accounts Payable	NaN	1.590587e+10	1.547705e+10		
		2021-06-30			
Total Stockholder Equity	6.578276e+09				
Net Tangible Assets	6.408624e+09				
Intangible Assets	6.276470e+08				
Capital Surplus	1.035166e+09				
Total Liab	2.370996e+10				
Minority Interest	9.678000e+06				
Other Current Liab	4.544714e+09				
Total Assets	3.029792e+10				
Common Stock	7.053500e+07				
Other Current Assets	2.803790e+09				
Retained Earnings	8.682088e+09				
Other Liab	1.044232e+09				
Good Will	1.696520e+08				
Treasury Stock	-3.209513e+09				
Other Assets	2.454554e+09				
Cash	1.790199e+09				
Total Current Liabilities	1.958691e+10				
Deferred Long Term Asset Charges	NaN				
Short Long Term Debt	3.000000e+06				
Other Stockholder Equity	-1.224440e+08				
Property Plant Equipment	5.771780e+08				
Total Current Assets	8.802932e+09				
Long Term Investments	1.766595e+10				
Net Receivables	2.893894e+09				
Long Term Debt	2.916046e+09				
Accounts Payable	1.501623e+10]			
18					
['quarterly_cashflow',		2022-03-31	2021-12-31	\	
Net Income	590638000.0	294430000.0			
Change To Liabilities	0.0	86599000.0			
Investments	NaN	-666087000.0			
Total Cashflows From Investing Activities	NaN	-948573000.0			
Net Borrowings	NaN	665000.0			
Total Cash From Financing Activities	NaN	-216185000.0			
Change To Operating Activities	NaN	308505000.0			
Change In Cash	NaN	-500186000.0			
Effect Of Exchange Rate	NaN	4979000.0			
Total Cash From Operating Activities	NaN	659593000.0			
Depreciation	NaN	28352000.0			
Other Cashflows From Investing Activities	NaN	-253641000.0			
Dividends Paid	NaN	-22851532.0			
Change To Account Receivables	NaN	697000.0			
Other Cashflows From Financing Activities	NaN	-17221000.0			
Change To Netincome	NaN	-52638000.0			
Capital Expenditures	NaN	-13076000.0			
Repurchase Of Stock	NaN	NaN			
	2021-09-30	2021-06-30			
Net Income	261297000.0	237238000.0			
Change To Liabilities	234263000.0	253475000.0			
Investments	-696817000.0	-289676000.0			
Total Cashflows From Investing Activities	-638931000.0	-206411000.0			
Net Borrowings	346827000.0	-399550000.0			
Total Cash From Financing Activities	98046000.0	-404247000.0			
Change To Operating Activities	510536000.0	398099000.0			
Change In Cash	278830000.0	-224712000.0			
Effect Of Exchange Rate	-8870000.0	1127000.0			
Total Cash From Operating Activities	828585000.0	384819000.0			
Depreciation	30733000.0	37054000.0			
Other Cashflows From Investing Activities	81542000.0	-33896000.0			
Dividends Paid	-46124841.0	-46124841.0			
Change To Account Receivables	-43374000.0	-225428000.0			

```
Other Cashflows From Financing Activities -21216000.0 -4697000.0
Change To Netincome -69408000.0 -73630000.0
Capital Expenditures -5285000.0 -37401000.0
Repurchase Of Stock -92743000.0 -92743000.0 ]
```

```
4
['quarterly_earnings', Revenue Earnings
Quarter
```

```
2Q2021 2296086000 237238000
3Q2021 2424283000 261297000
4Q2021 2578228000 294430000
1Q2022 2915409000 590638000]
```

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22
```

```
['quarterly_financials', 2022-03-31 2021-12-31 \
```

```
Research Development None None
Effect Of Accounting Charges None None
Income Before Tax 732433000.0 354616000.0
Minority Interest NaN 14719000.0
Net Income 590638000.0 294430000.0
Selling General Administrative NaN 9617000.0
Gross Profit 1481302000.0 1084200000.0
Ebit 763235000.0 385441000.0
Operating Income 763235000.0 385441000.0
Other Operating Expenses 718067000.0 689142000.0
Interest Expense -34970000.0 -37334000.0
Extraordinary Items None None
Non Recurring None None
Other Items None None
Income Tax Expense 139403000.0 60313000.0
Total Revenue 2915409000.0 2578228000.0
Total Operating Expenses 2152174000.0 2192787000.0
Cost Of Revenue 1434107000.0 1494028000.0
Total Other Income Expense Net -30802000.0 -30825000.0
Discontinued Operations None None
Net Income From Continuing Ops 593030000.0 294303000.0
Net Income Applicable To Common Shares 590638000.0 294430000.0
```

```
2021-09-30 2021-06-30
```

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Research Development None None
Effect Of Accounting Charges None None
Income Before Tax 332281000.0 299940000.0
Minority Interest 15270000.0 9678000.0
Net Income 261297000.0 237238000.0
Selling General Administrative 11741000.0 11429000.0
Gross Profit 1010426000.0 985741000.0
Ebit 354884000.0 344814000.0
Operating Income 354884000.0 344814000.0
Other Operating Expenses 643801000.0 629498000.0
Interest Expense -35100000.0 -38096000.0
Extraordinary Items None None
Non Recurring None None
Other Items None None
Income Tax Expense 64963000.0 62262000.0
Total Revenue 2424283000.0 2296086000.0
Total Operating Expenses 2069399000.0 1951272000.0
Cost Of Revenue 1413857000.0 1310345000.0
Total Other Income Expense Net -22603000.0 -44874000.0
Discontinued Operations None None
Net Income From Continuing Ops 267318000.0 237678000.0
Net Income Applicable To Common Shares 261297000.0 237238000.0 ]
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10
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['mutualfund_holders', Holder Shares Date Reported \
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0 Eaton Vance Atlanta Capital SMID-Cap Fd 6914517 2021-12-30
1 Janus Henderson Enterprise Fund 5220135 2021-12-30
2 Vanguard Total Stock Market Index Fund 3764733 2021-12-30
3 Victory Portfolios-Sycamore Established Value ... 3670000 2022-01-30
4 First Eagle Global Fund 3504173 2022-01-30
5 Vanguard Mid-Cap Index Fund 2995637 2021-12-30
6 Vanguard 500 Index Fund 2955527 2021-12-30
7 JP Morgan Mid Cap Value Fund 1596210 2021-12-30
8 Select Sector SPDR Fund-Financial 1547113 2022-01-30
9 SPDR S&P 500 ETF Trust 1487247 2022-01-30
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% Out Value
0 0.0261 379791365
1 0.0197 286724611
2 0.0142 206784232
3 0.0138 206743332
4 0.0132 197401744
5 0.0113 164540352
6 0.0111 162337244
7 0.0060 87674493
8 0.0058 87154031
9 0.0056 83781580 ]
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1
['options', ('2022-07-15',)]
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27
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['sustainability', Value
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2022-5
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palmOil False
controversialWeapons False
gambling False
socialScore 7.83
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nuclear          False
furLeather      False
alcoholic        False
gmo              False
catholic         False
socialPercentile 0
peerCount        96
governanceScore 12.16
environmentPercentile 0
animalTesting    False
tobacco          False
totalEsg         21.95
highestControversy 1
esgPerformance  None
coal             False
pesticides       False
adult            False
percentile       31.22
peerGroup        Insurance
smallArms        False
environmentScore 1.95
governancePercentile 0
militaryContract False]
symbol: HES
sector: Energy
Index: SP500
supply trend: 66701550.453857794
risk trend factor: 2.8809300900511263
  beta currentRatio debtToEquity dividendRate dividendYield \
HES  1.684375   1.418     122.347     1.5      0.0118

  earningsGrowth   ebitda ebitdaMargins forwardPE freeCashflow \
HES      0.634  3804000000  0.49454  11.819778  1165250048

  grossMargins grossProfits heldPercentInstitutions industry \
HES      0.71425  5267000000  0.85669  Oil & Gas E&P

  marketCap operatingCashflow operatingMargins payoutRatio pegRatio \
HES  39807426560  2143000064  0.3007    0.4828    0.19

  priceToBook priceToSalesTrailing12Months profitMargins quickRatio \
HES  6.277734      5.175172  0.09412    1.257

  returnOnAssets returnOnEquity revenueGrowth revenuePerShare sector \
HES      0.07461  0.1547      0.21      24.96  Energy

  sharesOutstanding shortRatio totalCash totalCashPerShare totalDebt \
HES  311263008   3.58  1370000000  4.424  8622999552

  totalRevenue trailingPE
HES  7692000256  54.794342

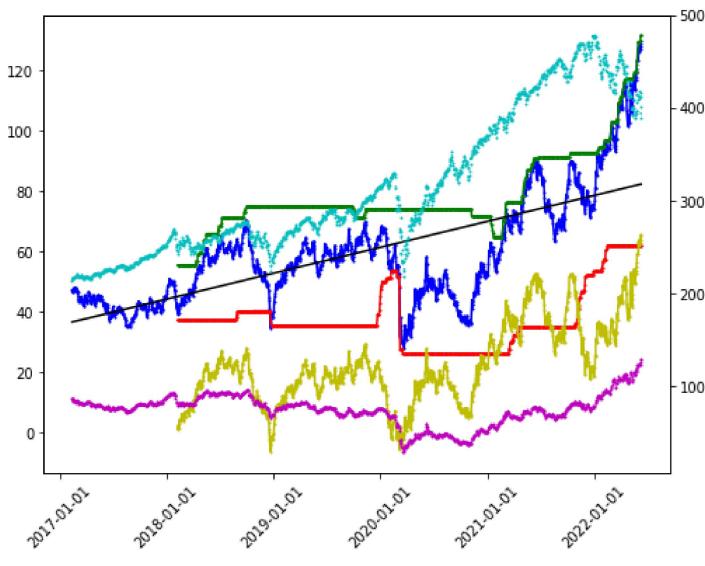
  Adj Close  21dBOLD  21dMA-TP  21dBOLU  90dSMA  90dSDev  90d_lower  90d_upper

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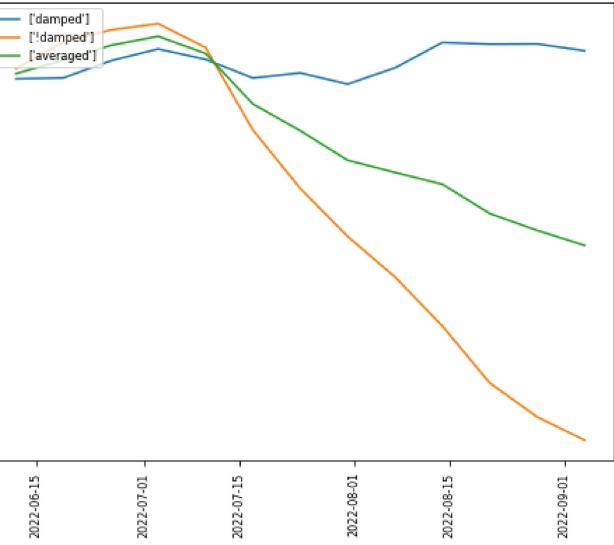
2022-06-10 127.720001 108.176953 120.776666 133.37638 111.593174 8.990912 93.61135 129.574999

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
HES	0.637367	127.720001	66701550.453858	0.961499	0.97499	0.449233

	l axis	r axis
legend		
blue	symbol	magenta sector
green	trailing_1yr_max	cyan index
red	trailing_1yr_min	
black	linear	
yellow	supply_trend_1yr	



ets next 13 weeks
 damped sell date: 2022-08-14
 damped expected return: 0.07904330430854395
 !damped sell date: 2022-07-03
 !damped expected return: 0.10696417499547396
 averaged sell date: 2022-07-03
 averaged expected return: 0.08817013427622149



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3
['options', ('2022-08-19', '2023-01-20', '2024-01-19')]
27
['sustainability',                                Value
2022-5
palmOil                      False
controversialWeapons          False
gambling                      False
socialScore                   6.36
nuclear                       False
furLeather                    False
alcoholic                     False
gmo                           False
catholic                      False
socialPercentile              None
peerCount                     66
governanceScore               6.97
environmentPercentile         None
animalTesting                 False
tobacco                        False
totalEsg                      31.78
highestControversy            2
esgPerformance                OUT_PERF
coal                           False
pesticides                     False
adult                          False
percentile                    68.13
peerGroup                     Oil & Gas Producers
smallArms                      False
environmentScore              18.44
governancePercentile          None
militaryContract              False]
symbol: CEIX
sector: Energy
Index: SP600
supply trend: 9591390.716180371
risk trend factor: 2.853515807990338
    beta currentRatio debtToEquity earningsGrowth   ebitda \
CEIX  2.379059      0.868     100.167      5.642  282313984

    ebitdaMargins forwardPE freeCashflow grossMargins grossProfits \
CEIX      0.22235  10.293775  196007120      0.33279  422536000

    heldPercentInstitutions industry marketCap operatingCashflow \
CEIX      0.86884  Thermal Coal  1824347392      305568992

    operatingMargins payoutRatio priceToBook priceToSalesTrailing12Months \
CEIX      0.04547        0  3.764765      1.436839

    profitMargins quickRatio returnOnAssets returnOnEquity revenueGrowth \
CEIX      0.02686      0.586      0.01416      0.05563      0.249

    revenuePerShare sector sharesOutstanding shortRatio totalCash \
CEIX      36.905  Energy      34480200      1.85  149912992

    totalCashPerShare totalDebt totalRevenue
CEIX      4.348  673937984  1269694976

```

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

2022-06-10	52.91	47.5295	52.432841	57.336183	45.364921	7.530586	30.303748	60.426093
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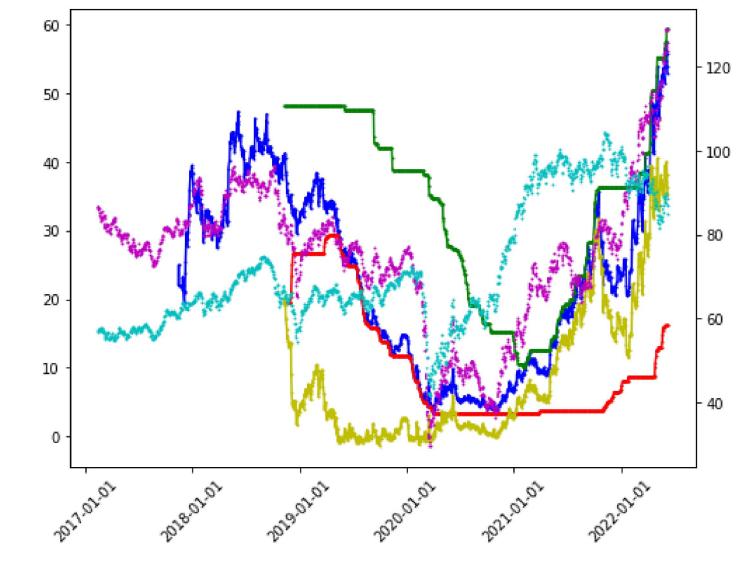
volume_factor latest_p vol_30d_2yr pct_2yr adf hurst

CEIX	1.511199	52.91	9591390.71618	0.883884	0.933936	0.522101
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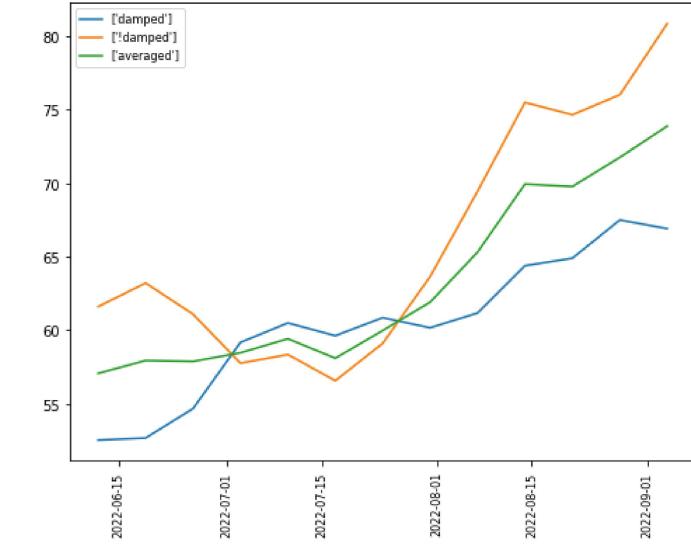
l axis r axis

legend **legend**

blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



sets next 13 weeks
 damped sell date: 2022-08-28
 damped expected return: 0.27550006301727425
 !damped sell date: 2022-09-04
 !damped expected return: 0.5278501461775252
 averaged sell date: 2022-09-04
 averaged expected return: 0.3961793789173427



23					
			2021-12-31	2021-09-30	2021-06-30 \
'quarterly_balance_sheet',					
Capital Surplus	6.469450e+08	6.449200e+08	6.430330e+08		
Total Liab	1.900704e+09	2.105167e+09	1.965198e+09		
Total Stockholder Equity	6.728130e+08	4.845800e+08	5.927330e+08		
Other Current Liab	1.790310e+08	2.688430e+08	1.451780e+08		
Total Assets	2.573517e+09	2.589747e+09	2.557931e+09		
Common Stock	3.450000e+05	3.450000e+05	3.450000e+05		
Other Current Assets	3.747200e+07	4.242800e+07	3.166900e+07		
Retained Earnings	2.809600e+08	1.636370e+08	2.774260e+08		
Other Liab	8.455480e+08	9.379920e+08	9.285180e+08		
Treasury Stock	-2.554370e+08	-3.243220e+08	-3.280710e+08		
Other Assets	5.153480e+08	5.008660e+08	4.742010e+08		
Cash	1.499130e+08	1.619810e+08	1.466670e+08		
Total Current Liabilities	4.452320e+08	5.156760e+08	3.702570e+08		
Deferred Long Term Asset Charges	5.701100e+07	1.113720e+08	6.965600e+07		
Short Long Term Debt	3.658900e+07	2.765100e+07	3.139500e+07		
Other Stockholder Equity	-2.554370e+08	-3.243220e+08	-3.280710e+08		
Property Plant Equipment	1.671829e+09	1.704640e+09	1.711778e+09		
Total Current Assets	3.863400e+08	3.842410e+08	3.719520e+08		
Net Tangible Assets	6.728130e+08	4.845800e+08	5.927330e+08		
Net Receivables	1.108630e+08	9.881800e+07	1.153080e+08		
Long Term Debt	5.680520e+08	5.976970e+08	6.093260e+08		
Inventory	6.287600e+07	5.601500e+07	5.929900e+07		
Accounts Payable	8.034300e+07	7.839200e+07	6.807300e+07		
	2021-03-31				
Capital Surplus	6.420540e+08				
Total Liab	1.937495e+09				
Total Stockholder Equity	5.830650e+08				
Other Current Liab	1.260430e+08				
Total Assets	2.520560e+09				
Common Stock	3.440000e+05				
Other Current Assets	3.030000e+05				
Retained Earnings	2.732540e+08				
Other Liab	9.485460e+08				
Treasury Stock	-3.325870e+08				
Other Assets	4.475660e+08				
Cash	9.117400e+07				
Total Current Liabilities	3.711940e+08				
Deferred Long Term Asset Charges	6.226100e+07				
Short Long Term Debt	2.888900e+07				
Other Stockholder Equity	-3.325870e+08				
Property Plant Equipment	1.736252e+09				
Total Current Assets	3.367420e+08				
Net Tangible Assets	5.830650e+08				
Net Receivables	1.662310e+08				
Long Term Debt	5.504440e+08				
Inventory	5.520900e+07				
Accounts Payable	7.538200e+07]			
16					
			2021-12-31	2021-09-30	\
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Change To Liabilities	5226000.0	13242000.0			
Total Cashflows From Investing Activities	-35758000.0	-45884000.0			
Net Borrowings	-30768000.0	-22550000.0			
Total Cash From Financing Activities	-30768000.0	-22551000.0			
Change To Operating Activities	-27258000.0	1564000.0			
Net Income	117323000.0	-113789000.0			
Change In Cash	-14100000.0	12183000.0			
Total Cash From Operating Activities	52426000.0	80538000.0			
Depreciation	56510000.0	55977000.0			
Other Cashflows From Investing Activities	-7843000.0	-156000.0			
Change To Inventory	-6861000.0	3284000.0			
Change To Account Receivables	-9263000.0	8877000.0			
Change To Netincome	-85331000.0	109242000.0			
Capital Expenditures	-29434000.0	-45863000.0			
Repurchase Of Stock	NaN	-1000.0			
Other Cashflows From Financing Activities	NaN	NaN			
	2021-06-30	2021-03-31			
Change To Liabilities	-6922000.0	-73000.0			
Total Cashflows From Investing Activities	-40225000.0	-5494000.0			
Net Borrowings	56940000.0	-29803000.0			
Total Cash From Financing Activities	54342000.0	-31875000.0			
Change To Operating Activities	-14728000.0	-3098000.0			
Net Income	4172000.0	26404000.0			
Change In Cash	188726000.0	40627000.0			
Total Cash From Operating Activities	94609000.0	77996000.0			
Depreciation	52199000.0	59897000.0			
Other Cashflows From Investing Activities	-156000.0	-182000.0			
Change To Inventory	-3574000.0	475000.0			
Change To Account Receivables	50857000.0	-5764000.0			
Change To Netincome	10414000.0	-1985000.0			
Capital Expenditures	-43655000.0	-13800000.0			
Repurchase Of Stock	-230000.0	-2072000.0			
Other Cashflows From Financing Activities	-2368000.0	-2368000.0]		
4					
			'quarterly_earnings',	Revenue	Earnings
Quarter					
1Q2021	332361000	26404000			
2Q2021	303895000	4172000			
3Q2021	294837000	-113789000			

4Q2021 338602000 117323000]

22

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```

priceToBook priceToSalesTrailing12Months profitMargins quickRatio \
FANG    2.233632          3.711217      0.35751     0.656

returnOnAssets returnOnEquity revenueGrowth revenuePerShare sector \
FANG    0.10278        0.22396     1.034       42.596 Energy

sharesOutstanding shortRatio totalCash totalCashPerShare totalDebt \
FANG    177492992      2.75   1490000000      0.839  5848000000

totalRevenue trailingPE
FANG    7666999808    10.57384

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

```

2022-06-10 155.490005 120.025332 143.822381 167.61943 138.226666 9.525387 119.175893 157.27744

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
FANG	1.227123	155.490005	49440914.674735	0.951302	0.837164	0.472651

l axis r axis

legend legend

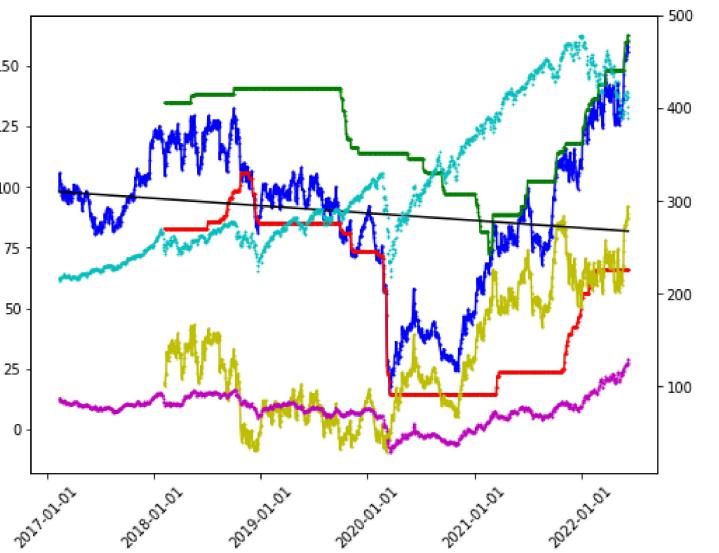
blue symbol magenta sector

green trailing_1yr_max cyan index

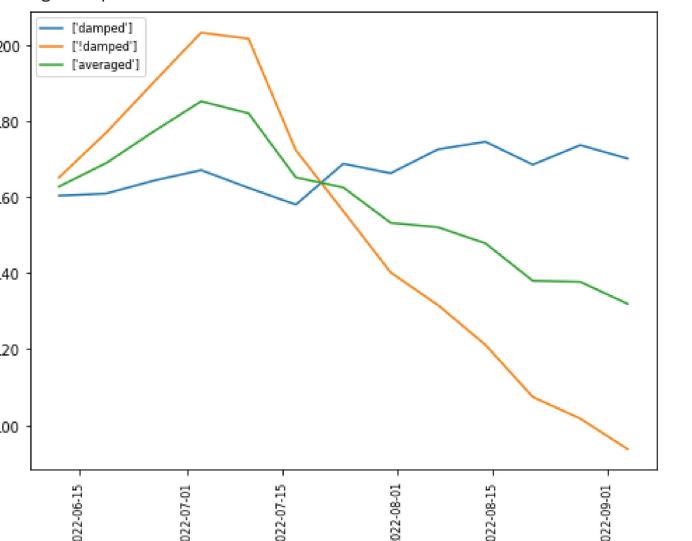
red trailing_1yr_min

black linear

yellow supply_trend_1yr



ets next 13 weeks
damped sell date: 2022-08-14
damped expected return: 0.12232618683207824
!damped sell date: 2022-07-03
!damped expected return: 0.30669485691093207
averaged sell date: 2022-07-03
averaged expected return: 0.19049066349955632



```

3
['options', ('2022-06-17', '2023-01-20', '2024-01-19')]
symbol: CIVI
sector: Energy
Index: SP600
supply trend: 7642718.420574887
risk trend factor: 2.668131309107495
    beta currentRatio debtToEquity dividendRate dividendYield      ebitda \
CIVI  1.69646       0.505     11.399      1.85      0.0222  910931008

    ebitdaMargins forwardPE freeCashflow grossMargins grossProfits \
CIVI      0.54408   5.807773   855249152     0.79951   731177000

    heldPercentInstitutions      industry  marketCap operatingCashflow \
CIVI      1.04378 Oil & Gas E&P  7110930432      764176000

    operatingMargins payoutRatio pegRatio priceToBook \
CIVI      0.26443     0.2792      0.4     1.532868

    priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
CIVI      4.247195     0.16167     0.477     0.06714

    returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
CIVI      0.09524     10.028     31.498 Energy      84967504

    shortRatio totalCash totalCashPerShare totalDebt totalRevenue \
CIVI      6.57  154348992      1.817  528631008  1674264960

    trailingPE
CIVI  16.671316

```

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

2022-06-10 80.660004 56.1793 72.431587 88.683875 64.55873 7.871397 48.815937 80.301523

volume_factor latest_p vol_30d_2yr pct_2yr adf hurst

CIVI 2.177131 80.660004 7642718.420575 0.942041 0.020246 0.49614

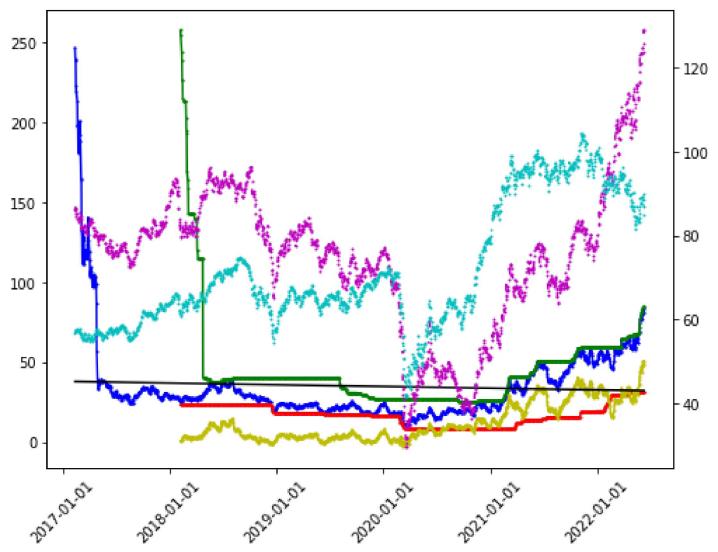
ADFuller H0 rejected @ .05, Mean Reverting TS

Month Mean Reverting buy signal

I axis r axis

legend legend

blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



ets next 13 weeks

damped sell date: 2022-08-28

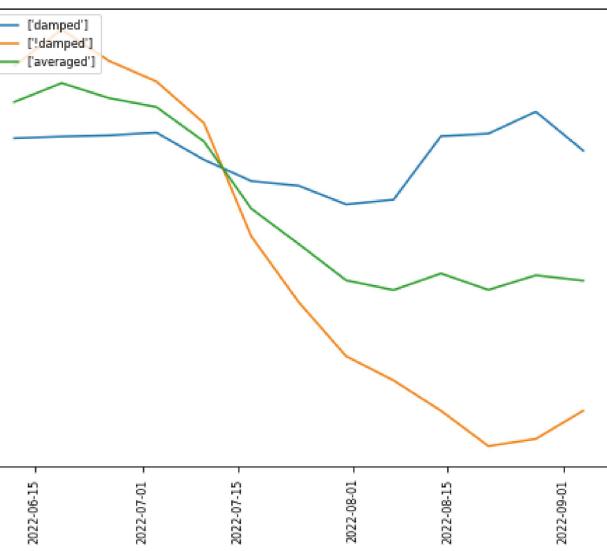
damped expected return: 0.0837863699973827

!damped sell date: 2022-06-19

!damped expected return: 0.18175802223941523

averaged sell date: 2022-06-19

averaged expected return: 0.11796892774631385



```

2
['options', ('2022-07-15', '2022-12-16')]
symbol: NFG
sector: Energy
Index: SP400
supply trend: 11033521.558245083
risk trend factor: 2.6550357052664886
    beta currentRatio debtToEquity dividendRate dividendYield \
NFG 0.723039      0.633     132.864      1.82      0.0271

    earningsGrowth      ebitda ebitdaMargins forwardPE freeCashflow \
NFG      0.694   1026038976      0.5552  13.185118   113741128

    grossMargins grossProfits heldPercentInstitutions      industry \
NFG      0.61861   1095026000      0.75657  Oil & Gas Integrated

    marketCap operatingCashflow operatingMargins payoutRatio pegRatio \
NFG  6624960512      758292992      0.37081      0.3534      1.2

    priceToBook priceToSalesTrailing12Months profitMargins quickRatio \
NFG      3.708525      3.584827      0.22633      0.45

    returnOnAssets returnOnEquity revenueGrowth revenuePerShare sector \
NFG      0.05856      0.20134      0.239      20.265  Energy

    sharesOutstanding shortRatio totalCash totalCashPerShare totalDebt \
NFG  91190096      3.78   79065000      0.865  2803702016

    totalRevenue trailingPE
NFG  1848056064  18.299747

```

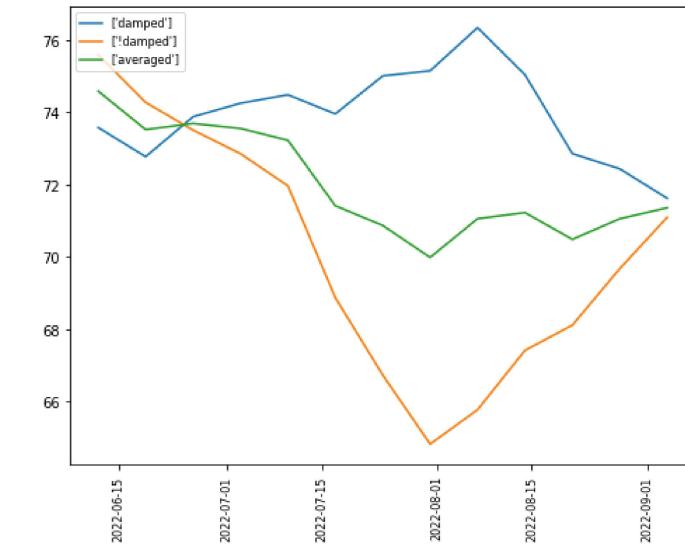
	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	72.650002	66.029887	71.394603	76.75932	70.114762	2.669158	64.776446	75.453077

volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst	
NFG	0.912129	72.650002	11033521.558245	0.912861	0.982328	0.468009

l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



sets next 13 weeks
 damped sell date: 2022-08-07
 damped expected return: 0.0508534039366216
 !damped sell date: 2022-06-12
 !damped expected return: 0.040529281986267984
 averaged sell date: 2022-06-12
 averaged expected return: 0.026679796693602403



24

	2021-12-31	2021-09-30	2021-06-30	\
['quarterly_balance_sheet',				
Capital Surplus	1.013821e+09	1.017446e+09	1.012703e+09	
Total Liab	5.479478e+09	5.678619e+09	5.197561e+09	
Total Stockholder Equity	2.110195e+09	1.786206e+09	2.011114e+09	
Deferred Long Term Liab	2.536600e+08	2.290640e+08	3.343380e+08	
Other Current Liab	4.894420e+08	8.377480e+08	4.037490e+08	
Total Assets	7.589673e+09	7.464825e+09	7.208675e+09	
Common Stock	9.143700e+07	9.118200e+07	9.117300e+07	
Other Current Assets	6.503700e+07	1.589440e+08	2.513100e+07	
Retained Earnings	1.281963e+09	1.191175e+09	1.145700e+09	
Other Liab	1.952837e+09	1.794161e+09	1.969099e+09	
Good Will	5.476000e+06	5.476000e+06	5.476000e+06	
Treasury Stock	-2.770260e+08	-5.135970e+08	-2.384620e+08	
Other Assets	4.572680e+08	4.239440e+08	4.727480e+08	
Cash	7.906500e+07	3.152800e+07	1.180120e+08	
Total Current Liabilities	8.961390e+08	1.236133e+09	6.006020e+08	
Other Stockholder Equity	-2.770260e+08	-5.135970e+08	-2.384620e+08	
Property Plant Equipment	6.498855e+09	6.407884e+09	6.185657e+09	
Total Current Assets	5.671900e+08	5.224490e+08	4.395570e+08	
Long Term Investments	6.088400e+07	1.050720e+08	1.052370e+08	
Net Tangible Assets	2.104719e+09	1.780730e+09	2.005638e+09	
Net Receivables	3.246070e+08	2.237960e+08	2.016750e+08	
Long Term Debt	2.629602e+09	2.628687e+09	2.627860e+09	
Inventory	7.011800e+07	8.722900e+07	6.619100e+07	
Accounts Payable	1.299340e+08	1.716550e+08	1.134700e+08	

	2021-03-31			
Capital Surplus	1.009075e+09			
Total Liab	5.016683e+09			
Total Stockholder Equity	2.098969e+09			
Deferred Long Term Liab	3.362960e+08			
Other Current Liab	2.410690e+08			
Total Assets	7.115652e+09			
Common Stock	9.116400e+07			
Other Current Assets	2.553100e+07			
Retained Earnings	1.100718e+09			
Other Liab	1.986678e+09			
Good Will	5.476000e+06			
Treasury Stock	-1.019880e+08			
Other Assets	4.728080e+08			
Cash	8.046700e+07			
Total Current Liabilities	4.029720e+08			
Other Stockholder Equity	-1.019880e+08			
Property Plant Equipment	6.076070e+09			
Total Current Assets	4.571840e+08			
Long Term Investments	1.041140e+08			
Net Tangible Assets	2.093493e+09			
Net Receivables	2.621640e+08			
Long Term Debt	2.627033e+09			
Inventory	5.795700e+07			
Accounts Payable	1.073050e+08]

17

	2021-12-31	2021-09-30	\
['quarterly_cashflow',			
Investments	30000000.0	30000000.0	
Change To Liabilities	-13491000.0	41101000.0	
Total Cashflows From Investing Activities	-169710000.0	-236247000.0	
Net Borrowings	7500000.0	15850000.0	
Total Cash From Financing Activities	-42846000.0	116920000.0	
Change To Operating Activities	-8783000.0	-74859000.0	
Net Income	132392000.0	86962000.0	
Change In Cash	-41073000.0	416000.0	
Repurchase Of Stock	-8859000.0	-97000.0	
Total Cash From Operating Activities	171483000.0	119743000.0	
Depreciation	88578000.0	83671000.0	
Other Cashflows From Investing Activities	13781000.0	2712000.0	
Dividends Paid	-41487000.0	-41483000.0	
Change To Inventory	17111000.0	-21038000.0	
Change To Account Receivables	-98688000.0	-20680000.0	
Change To Netincome	54284000.0	24586000.0	
Capital Expenditures	-213491000.0	-238959000.0	

	2021-06-30	2021-03-31	
Investments	30000000.0	30000000.0	
Change To Liabilities	-1139000.0	-6878000.0	
Total Cashflows From Investing Activities	-174780000.0	-155320000.0	
Net Borrowings	158500000.0	-45448000.0	
Total Cash From Financing Activities	-40642000.0	-86016000.0	
Change To Operating Activities	418000.0	-12453000.0	
Net Income	86475000.0	112436000.0	
Change In Cash	39255000.0	-28946000.0	
Repurchase Of Stock	-71000.0	-8000.0	
Total Cash From Operating Activities	254677000.0	212390000.0	
Depreciation	84170000.0	84342000.0	
Other Cashflows From Investing Activities	-872000.0	246000.0	
Dividends Paid	-40571000.0	-40560000.0	
Change To Inventory	-8234000.0	13385000.0	
Change To Account Receivables	60426000.0	-37553000.0	
Change To Netincome	32561000.0	59111000.0	
Capital Expenditures	-173908000.0	-155566000.0]

4

	Revenue	Earnings
['quarterly_earnings',		

Quarter
1Q2021 551115000 112436000
2Q2021 394397000 86475000
3Q2021 355988000 86962000
4Q2021 546557000 132392000]

22
['quarterly_financials',
Research Development None None None
Effect Of Accounting Charges None None None
Income Before Tax 177289000.0 101682000.0 116810000.0
Minority Interest None None None
Net Income 132392000.0 86962000.0 86475000.0
Selling General Administrative 2951000.0 373000.0 4847000.0
Gross Profit 322738000.0 239398000.0 258732000.0
Ebit 20678000.0 131900000.0 145223000.0
Operating Income 20678000.0 131900000.0 145223000.0
Other Operating Expenses 24561000.0 23454000.0 24492000.0
Interest Expense -31291000.0 -30431000.0 -31232000.0
Extraordinary Items None None None
Non Recurring None None None
Other Items None None None
Income Tax Expense 44897000.0 14720000.0 30335000.0
Total Revenue 546557000.0 355988000.0 394397000.0
Total Operating Expenses 339849000.0 224088000.0 249174000.0
Cost Of Revenue 223819000.0 116590000.0 135665000.0
Total Other Income Expense Net -29419000.0 -30218000.0 -28413000.0
Discontinued Operations None None None
Net Income From Continuing Ops 132392000.0 86962000.0 86475000.0
Net Income Applicable To Common Shares 132392000.0 86962000.0 86475000.0

2021-03-31
Research Development None
Effect Of Accounting Charges None
Income Before Tax 152646000.0
Minority Interest None
Net Income 112436000.0
Selling General Administrative 12597000.0
Gross Profit 322368000.0
Ebit 201442000.0
Operating Income 201442000.0
Other Operating Expenses 23987000.0
Interest Expense -50518000.0
Extraordinary Items None
Non Recurring None
Other Items None
Income Tax Expense 40210000.0
Total Revenue 551115000.0
Total Operating Expenses 349673000.0
Cost Of Revenue 228747000.0
Total Other Income Expense Net -48796000.0
Discontinued Operations None
Net Income From Continuing Ops 112436000.0
Net Income Applicable To Common Shares 112436000.0]

10
['mutualfund_holders', Holder Shares Date Reported \\
0 SPDR (R) Ser Tr- SPDR (R) S&P (R) Dividend ETF 3976535 2022-01-30
1 J.P. Morgan Mid Cap Value Fund 3731484 2021-12-30
2 Vanguard Total Stock Market Index Fund 2589317 2021-12-30
3 iShares Core S&P Midcap ETF 2527575 2022-01-30
4 Price (T.Rowe) Mid-Cap Value Fund 2403328 2021-12-30
5 Vanguard Small-Cap Index Fund 2299210 2021-12-30
6 Gabelli Utilities Fund 1705500 2021-12-30
7 Vanguard Small Cap Value Index Fund 1455965 2021-12-30
8 Vanguard Extended Market Index Fund 1204306 2021-12-30
9 Price (T.Rowe) Mid-Cap Value Equity Trust 1011543 2021-12-30

% Out Value
0 0.0435 241494970
1 0.0408 238591086
2 0.0283 165560928
3 0.0276 153499629
4 0.0263 153668792
5 0.0251 147011487
6 0.0186 109049670
7 0.0159 93094402
8 0.0132 77003325
9 0.0111 64678059]

1
['options', ('2022-07-15',)]
symbol: PDCE
sector: Energy
Index: SP400
supply trend: 26294633.055975795
risk trend factor: 2.6335961140263304
beta currentRatio debtToEquity dividendRate dividendYield \\
PDCE 2.747277 0.575 34.654 1.4 0.0164

ebitda ebitdaMargins forwardPE freeCashflow grossMargins \\
PDCE 1255468032 0.45227 4.092647 598676224 0.89205

grossProfits heldPercentInstitutions industry marketCap \\
PDCE 2111095000 0.97868 Oil & Gas E&P 8288278016

```

operatingCashflow operatingMargins payoutRatio pegRatio priceToBook \
PDCE      1683784960      0.21746     0.1225     0.17    2.888328

priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
PDCE      2.985751      0.1799      0.555     0.06877

returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
PDCE      0.18662      0.877       28.416 Energy      99272704

shortRatio totalCash totalCashPerShare totalDebt totalRevenue \
PDCE      6.72   171156992      1.794   958110016  2775943936

trailingPE
PDCE 16.581926

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

```

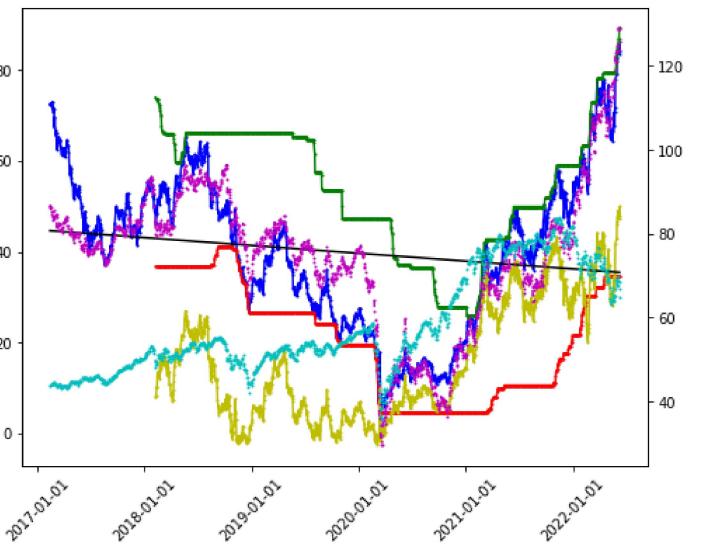
2022-06-10 84.129997 58.883591 74.841111 90.798632 73.113968 5.744648 61.624671 84.603265

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
PDCE	1.125975	84.129997	26294633.055976	0.935258	0.76826	0.495944

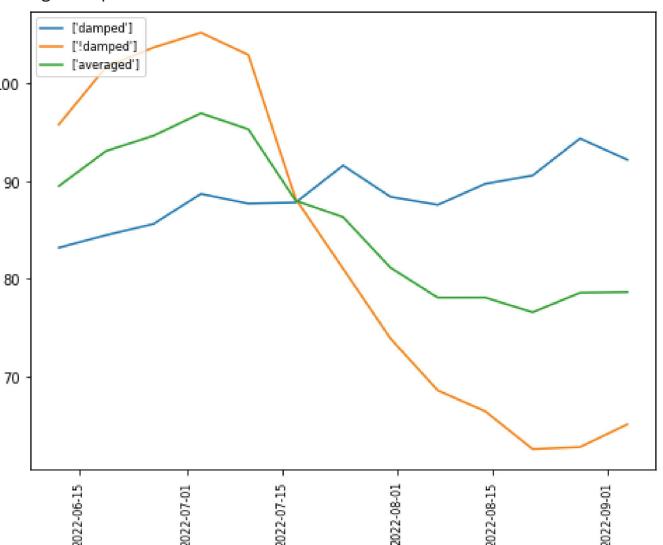
| axis r axis

legend **legend**

blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



sets next 13 weeks
damped sell date: 2022-08-28
damped expected return: 0.12130617549801379
!damped sell date: 2022-07-03
!damped expected return: 0.25007634264222983
averaged sell date: 2022-07-03
averaged expected return: 0.151988135099362



```

2
['options', ('2022-07-15', '2022-12-16')]
symbol: OXY
sector: Energy
Index: SP500
supply trend: 312554843.6459909
risk trend factor: 2.6206123783270985
    beta currentRatio debtToEquity dividendRate dividendYield \
OXY 1.955081      1.156     111.198      0.52      0.0075

    ebitda ebitdaMargins forwardPE freeCashflow grossMargins \
OXY 15392000000      0.53054   8.023869   9129875456      0.64697

    grossProfits heldPercentInstitutions industry marketCap \
OXY 16297000000      0.82201   Oil & Gas E&P 59858386944

    operatingCashflow operatingMargins payoutRatio pegRatio priceToBook \
OXY 12762999808      0.25255     0.0242     0.27    3.952352

    priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
OXY 2.063229      0.25314     0.844      0.05964

    returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
OXY 0.34101      0.577     30.999 Energy      937190976

    shortRatio totalCash totalCashPerShare totalDebt totalRevenue \
OXY 1.91 1908999936      2.037 27696001024 29012000768

    trailingPE
OXY 9.548512

```

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper

2022-06-10 63.869999 60.711375 66.862064 73.012753 61.107143 4.905649 51.295845 70.918441

volume_factor latest_p vol_30d_2yr pct_2yr adf hurst

OXY 1.797943 63.869999 312554843.645991 0.84478 0.777852 0.546207

I axis r axis

legend legend

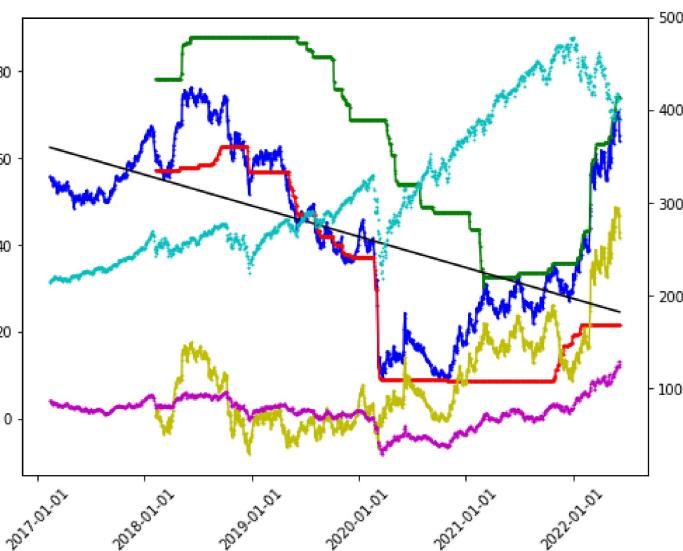
blue symbol magenta sector

green trailing_1yr_max cyan index

red trailing_1yr_min

black linear

yellow supply_trend_1yr



ets next 13 weeks

damped sell date: 2022-08-28

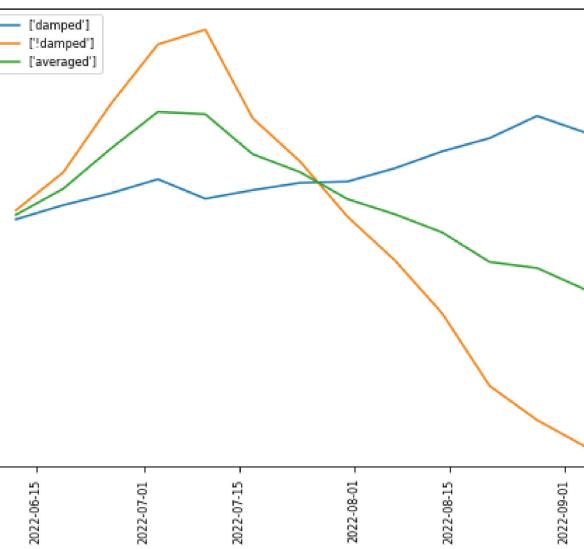
damped expected return: 0.3665897154618234

!damped sell date: 2022-07-10

!damped expected return: 0.5612652593463382

averaged sell date: 2022-07-03

averaged expected return: 0.37596315904233263



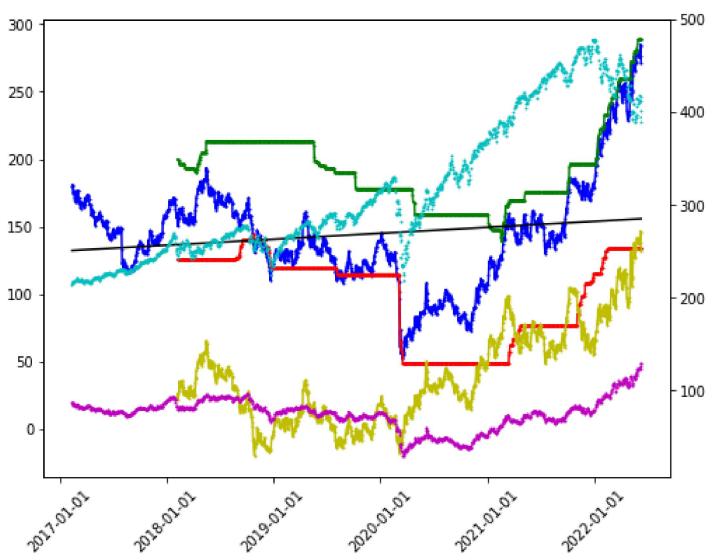
```

4   ['options', ('2022-06-17', '2022-08-19', '2023-01-20', '2024-01-19')]
27
['sustainability',                               Value
2022-5
palmOil                         False
controversialWeapons             False
gambling                         False
socialScore                      12.04
nuclear                          False
furLeather                       False
alcoholic                        False
gmo                             False
catholic                         False
socialPercentile                None
peerCount                        66
governanceScore                 6.88
environmentPercentile           None
animalTesting                     False
tobacco                          False
totalEsg                         43.53
highestControversy               2
esgPerformance                  LEAD_PERF
coal                            False
pesticides                       False
adult                           False
percentile                      92.95
peerGroup                        Oil & Gas Producers
smallArms                        False
environmentScore                 24.61
governancePercentile            None
militaryContract                 False]
symbol: PXD
sector: Energy
Index: SP500
supply trend: 41581229.50075643
risk trend factor: 2.603257694027524
    beta currentRatio debtToEquity dividendRate dividendYield \
PXD  1.535843      1.541     25.456      12.34      0.0433
        ebitda ebitdaMargins forwardPE freeCashflow grossMargins \
PXD  9187000320      0.43846    10.46792    2404124928      0.53944
        grossProfits heldPercentInstitutions industry marketCap \
PXD  9392000000      0.92193    Oil & Gas E&P  68689747968
        operatingCashflow operatingMargins payoutRatio pegRatio priceToBook \
PXD  8265999872      0.31175     0.3288      0.53      2.90227
        priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
PXD  3.278277      0.2003      1.404      0.12148
        returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
PXD  0.20075       1.006      86.852    Energy      241959008
        shortRatio totalCash totalCashPerShare totalDebt totalRevenue \
PXD  2.65 3256000000      13.457  6024999936  20952999936
        trailingPE
PXD  17.432608
Adj Close  21dBOLD  21dMA-TP  21dBOLU  90dSMA  90dSDev  90d_lower  90d_upper
2022-06-10 270.869995 256.919894 273.316666 289.713438 255.561587 15.927793 223.706001 287.417173

```

volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst	
PXD	1.167952	270.869995	41581229.500756	0.916981	0.935146	0.498349

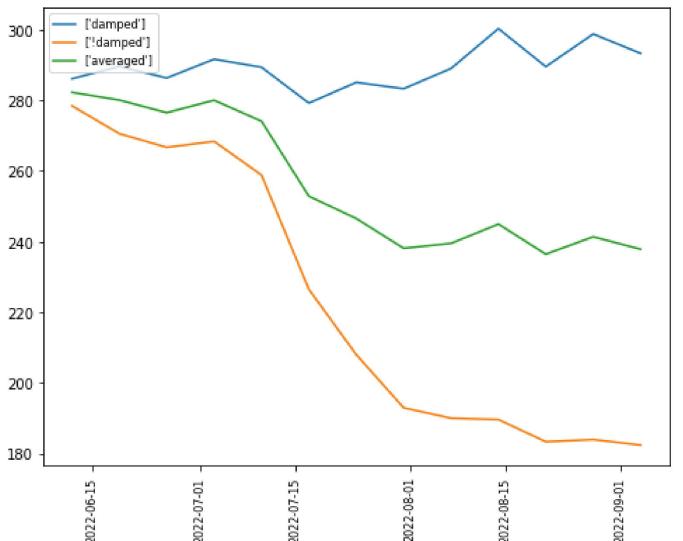
l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```

sets next 13 weeks
damped sell date: 2022-08-14
damped expected return: 0.1082851882418039
!damped sell date: 2022-06-12
!damped expected return: 0.0276698692156139
averaged sell date: 2022-06-12
averaged expected return: 0.04177167705836476

```



```

3
['options', ('2022-06-17', '2023-01-20', '2024-01-19')]
27
['sustainability', Value
2022-5
palmOil False
controversialWeapons False
gambling False
socialScore 8.97
nuclear False
furLeather False
alcoholic False
gmo False
catholic False
socialPercentile None
peerCount 66
governanceScore 9.1
environmentPercentile None
animalTesting False
tobacco False
totalEsg 36.53
highestControversy 1
esgPerformance OUT_PERF
coal False
pesticides False
adult False
percentile 81.93
peerGroup Oil & Gas Producers
smallArms False
environmentScore 18.46
governancePercentile None
militaryContract False]
symbol: CNX
sector: Energy
Index: SP400
supply trend: 79583176.67170954
risk trend factor: 2.5762984369029858
    beta currentRatio debtToEquity      ebitda ebitdaMargins forwardPE \
CNX 1.261343     0.196     88.804   -1381751040     -0.50108   7.664496

    freeCashflow grossMargins grossProfits heldPercentInstitutions \
CNX 56837376     0.80006   1866027000     0.97671

    industry marketCap operatingCashflow operatingMargins payoutRatio \
CNX Oil & Gas E&P 4589103104     1043104000     -0.68414     0

    pegRatio priceToBook priceToSalesTrailing12Months profitMargins \
CNX 0.19     1.786908     1.664207     -0.55108

    quickRatio returnOnAssets returnOnEquity revenueGrowth revenuePerShare \
CNX 0.132     -0.14474     -0.42927     0.852     13.072

    sector sharesOutstanding shortRatio totalCash totalCashPerShare \
CNX Energy 195032000     9.57   13338000     0.068

    totalDebt totalRevenue
CNX 2281821952 2757531904

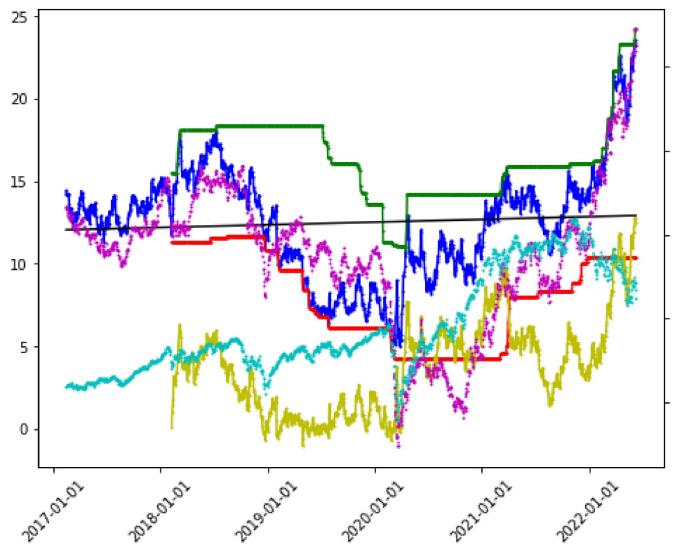
```

	Adj Close	21dBOLD	21dMA-TP	21dBOLU	90dSMA	90dSDev	90d_lower	90d_upper
2022-06-10	23.24	18.125204	21.358571	24.591938	20.760794	1.50283	17.755134	23.766453

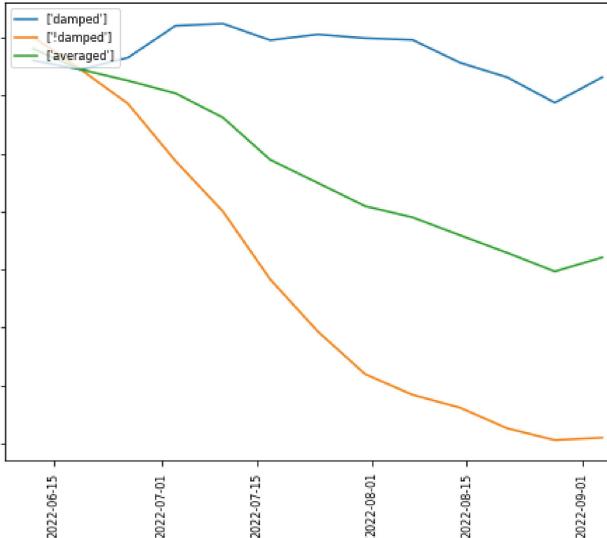
	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
CNX	0.90438	23.24	79583176.67171	0.940271	0.784231	0.406859

I axis r axis

legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



sets next 13 weeks
 damped sell date: 2022-07-10
 damped expected return: 0.053540419809179125
 !damped sell date: 2022-06-12
 !damped expected return: 0.03368694878490644
 averaged sell date: 2022-06-12
 averaged expected return: 0.016244492532627764



```

2
['options', ('2022-07-15', '2023-01-20')]
symbol: MTDR
sector: Energy
Index: SP400
supply trend: 50876450.52950076
risk trend factor: 2.5519542477276707
  beta currentRatio debtToEquity dividendRate dividendYield \
MTDR 4.053921      0.997     64.085      0.2      0.0044

  earningsGrowth      ebitda ebitdaMargins forwardPE freeCashflow \
MTDR      2.392   1377725952      0.66904   10.304898   33695376

  grossMargins grossProfits heldPercentInstitutions industry \
MTDR      0.84283   1462239000      0.93761 Oil & Gas E&P

  marketCap operatingCashflow operatingMargins payoutRatio pegRatio \
MTDR 7653827584      1212914048      0.49033      0.0245      0.42

  priceToBook priceToSalesTrailing12Months profitMargins quickRatio \
MTDR 4.525147            3.716796      0.3552      0.801

  returnOnAssets returnOnEquity revenueGrowth revenuePerShare sector \
MTDR 0.15195      0.40598      0.973      17.558 Energy

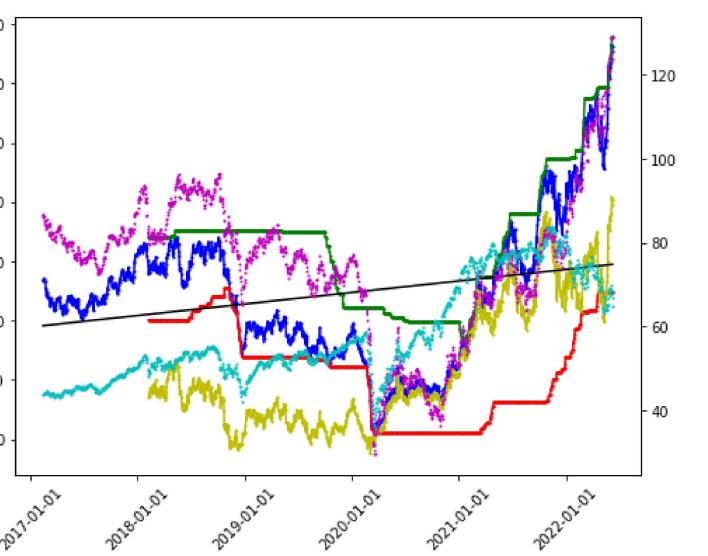
  sharesOutstanding shortRatio totalCash totalCashPerShare totalDebt \
MTDR 117336000      2.66   63001000      0.534  1497975040

  totalRevenue trailingPE
MTDR 2059254016  27.407562

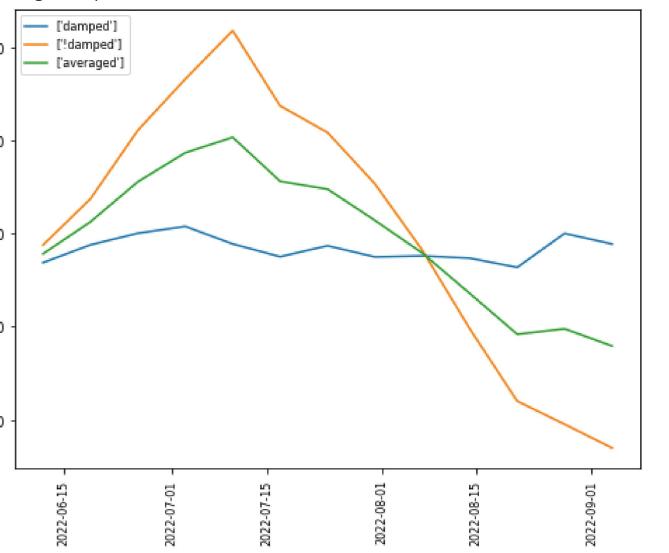
Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSDev 90d_lower 90d_upper
2022-06-10 65.230003 43.121122 57.022299 70.923475 54.485794 5.169552 44.14669 64.824898
  
```

volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst	
MTDR	0.613531	65.230003	50876450.529501	0.95853	0.987482	0.46805

l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



ets next 13 weeks
 damped sell date: 2022-07-03
 damped expected return: 0.08474040895061015
 !damped sell date: 2022-07-10
 !damped expected return: 0.40662304206603805
 averaged sell date: 2022-07-10
 averaged expected return: 0.23127739115823528



22
['quarterly_balance_sheet', 2022-03-31 2021-12-31 2021-09-30]
Capital Surplus 2.087788e+09 2.077592e+09 2.069484e+09
Total Liab 2.229864e+09 2.134765e+09 2.077593e+09
Total Stockholder Equity 2.118600e+09 1.907210e+09 1.688007e+09
Minority Interest 2.188640e+08 2.201780e+08 2.198930e+08
Other Current Liab 3.095620e+08 2.075790e+08 2.648190e+08
Total Assets 4.567328e+09 4.262153e+09 3.985493e+09
Common Stock 1.181000e+06 1.179000e+06 1.172000e+06
Other Current Assets 5.734600e+07 4.075600e+07 3.782000e+07
Retained Earnings 2.994000e+07 -1.713180e+08 -3.802680e+08
Other Liab 1.939550e+08 1.269630e+08 6.975800e+07
Treasury Stock -3.090000e+05 -2.430000e+05 -2.381000e+06
Other Assets 3.542400e+07 4.644000e+06 5.268400e+07
Cash 6.300100e+07 4.813500e+07 7.312800e+07
Total Current Liabilities 5.379340e+08 4.648370e+08 4.727520e+08
Property Plant Equipment 3.995641e+09 3.886204e+09 3.536181e+09
Total Current Assets 5.362630e+08 3.713050e+08 3.966280e+08
Net Tangible Assets 2.118600e+09 1.907210e+09 1.688007e+09
Net Receivables 3.676440e+08 2.414160e+08 2.483540e+08
Long Term Debt 1.497975e+09 1.527580e+09 1.519684e+09
Inventory 1.245600e+07 1.218800e+07 1.213700e+07
Accounts Payable 3.397300e+07 2.625600e+07 3.340200e+07
Deferred Long Term Asset Charges NaN NaN 1.387800e+07

2021-06-30

Capital Surplus 2.061815e+09
Total Liab 2.132423e+09
Total Stockholder Equity 1.479762e+09
Minority Interest 2.223640e+08
Other Current Liab 2.386310e+08
Total Assets 3.834549e+09
Common Stock 1.171000e+06
Other Current Assets 4.074700e+07
Retained Earnings -5.809810e+08
Other Liab 5.910300e+07
Treasury Stock -2.243000e+06
Other Assets 3.889100e+07
Cash 4.463200e+07
Total Current Liabilities 4.225800e+08
Property Plant Equipment 3.462030e+09
Total Current Assets 3.336280e+08
Net Tangible Assets 1.479762e+09
Net Receivables 2.160330e+08
Long Term Debt 1.634289e+09
Inventory 1.165700e+07
Accounts Payable 1.357300e+07
Deferred Long Term Asset Charges NaN]

17

['quarterly_cashflow', 2022-03-31 2021-12-31]

Change To Liabilities -5668000.0 16272000.0
Total Cashflows From Investing Activities -251896000.0 -345587000.0
Net Borrowings -30000000.0 7500000.0
Total Cash From Financing Activities -43821000.0 -9813000.0
Change To Operating Activities -8248000.0 4778000.0
Net Income 207124000.0 214790000.0
Change In Cash 33237000.0 -20871000.0
Repurchase Of Stock -12184000.0 -4050000.0
Total Cash From Operating Activities 328954000.0 334529000.0
Depreciation 96396000.0 90076000.0
Dividends Paid -5866000.0 -5840000.0
Change To Inventory -78000.0 -358000.0
Change To Account Receivables -125345000.0 12765000.0
Other Cashflows From Financing Activities 4229000.0 -8545000.0
Change To Netincome 148421000.0 -5010000.0
Capital Expenditures -263807000.0 -345587000.0
Issuance Of Stock NaN 1122000.0

2021-09-30 2021-06-30

Change To Liabilities 26274000.0 25785000.0
Total Cashflows From Investing Activities -132556000.0 -142227000.0
Net Borrowings -115000000.0 -81500000.0
Total Cash From Financing Activities -130092000.0 -85022000.0
Change To Operating Activities 2123000.0 7519000.0
Net Income 203628000.0 105905000.0
Change In Cash 28583000.0 30951000.0
Repurchase Of Stock -1277000.0 -1163000.0
Total Cash From Operating Activities 291231000.0 258200000.0
Depreciation 89579000.0 91955000.0
Dividends Paid -2915000.0 -2913000.0
Change To Inventory -742000.0 -549000.0
Change To Account Receivables -32321000.0 -39220000.0
Other Cashflows From Financing Activities -11113000.0 554000.0
Change To Netincome 1902000.0 65874000.0
Capital Expenditures -136475000.0 -142243000.0
Issuance Of Stock 213000.0 213000.0]

4

['quarterly_earnings', Revenue Earnings

Quarter

2Q2021 388042000 105905000
3Q2021 485921000 203628000
4Q2021 522131000 214790000

```

1Q2022 614460000 207124000]
2
['quarterly_financials',
Research Development None None None
Effect Of Accounting Charges None None None
Income Before Tax 292713000.0 304467000.0 211361000.0
Minority Interest 218864000.0 220178000.0 219893000.0
Net Income 207124000.0 214790000.0 203628000.0
Selling General Administrative 29733000.0 51878000.0 24633000.0
Gross Profit 532984000.0 463048000.0 392768000.0
Ebit 309387000.0 325121000.0 230186000.0
Operating Income 309387000.0 325121000.0 230186000.0
Other Operating Expenses 98011000.0 -3488000.0 48888000.0
Interest Expense -16252000.0 -19108000.0 -17989000.0
Extraordinary Items None None None
Non Recurring None None None
Other Items None None None
Income Tax Expense 68528000.0 73222000.0 -6701000.0
Total Revenue 614460000.0 522131000.0 485921000.0
Total Operating Expenses 305153000.0 197010000.0 255735000.0
Cost Of Revenue 81556000.0 59083000.0 93153000.0
Total Other Income Expense Net -16594000.0 -20654000.0 -18825000.0
Discontinued Operations None None None
Net Income From Continuing Ops 224185000.0 231245000.0 218062000.0
Net Income Applicable To Common Shares 207124000.0 214790000.0 203628000.0

```

2021-06-30

```

Research Development None
Effect Of Accounting Charges None
Income Before Tax 127180000.0
Minority Interest 222364000.0
Net Income 105905000.0
Selling General Administrative 24397000.0
Gross Profit 346873000.0
Ebit 145106000.0
Operating Income 145106000.0
Other Operating Expenses 85926000.0
Interest Expense -17940000.0
Extraordinary Items None
Non Recurring None
Other Items None
Income Tax Expense 5349000.0
Total Revenue 388042000.0
Total Operating Expenses 242936000.0
Cost Of Revenue 41169000.0
Total Other Income Expense Net -17926000.0
Discontinued Operations None
Net Income From Continuing Ops 121831000.0
Net Income Applicable To Common Shares 105905000.0 ]

```

10

```

['mutualfund_holders', Holder Shares Date Reported \
0 iShares Core S&P Smallcap ETF 7759051 2022-01-30
1 Vanguard Total Stock Market Index Fund 3003516 2021-12-30
2 Vanguard Small-Cap Index Fund 2658743 2021-12-30
3 iShares Russell 2000 ETF 2526278 2022-01-30
4 SPDR (R) Ser Tr-SPDR (R) S&P (R) Oil & Gas Exp... 2255808 2022-01-30
5 Price (T.Rowe) Small-Cap Value Fund 2233160 2021-12-30
6 DFA U.S. Small Cap Value Series 2183508 2022-01-30
7 Vanguard Small-Cap Growth Index Fund 1654888 2021-12-30
8 AB Cap Fd.-AB Small Cap Growth Port 1624213 2022-01-30
9 Vanguard Extended Market Index Fund 1457386 2021-12-30

```

	% Out	Value
0	0.0657	347372713
1	0.0254	110889810
2	0.0225	98160791
3	0.0214	113101466
4	0.0191	100992524
5	0.0189	82448267
6	0.0185	97755653
7	0.0140	61098464
8	0.0137	72716016
9	0.0123	53806691]

3

[options, ('2022-06-17', '2022-07-15', '2023-01-20')]

symbol: DINO
sector: Energy
Index: SP400
supply trend: 51935930.33282904
risk trend factor: 2.525423827441188

beta currentRatio debtToEquity dividendRate dividendYield \
DINO 1.54401 1.728 43.018 1.6 0.0278

earningsGrowth ebitda ebitdaMargins forwardPE freeCashflow \
DINO 0 1260462976 0.05641 10.206038 -1079519232

grossMargins grossProfits heldPercentInstitutions \
DINO 0.0784 1615735000 0.62669

industry marketCap operatingCashflow \
DINO Oil & Gas Refining & Marketing 12826910720 805392000

```

operatingMargins payoutRatio pegRatio priceToBook \
DINO      0.03909     0.1032     0.35    1.580395

priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
DINO      0.574075    0.02551     0.791    0.03679

returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
DINO      0.09048     1.128      134.828   Energy      223232000

shortRatio totalCash totalCashPerShare totalDebt totalRevenue \
DINO      3.27      592278016     2.653    3818710016  22343598080

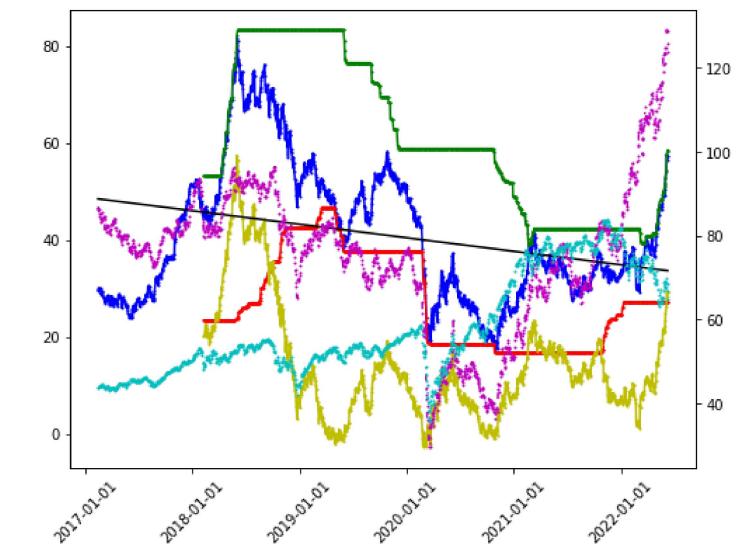
trailingPE
DINO 16.929876

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSD 90d_lower 90d_upper
2022-06-10 56.369999 41.96407 50.064286 58.164501 42.669841 6.172185 30.325472 55.01421

```

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
DINO	0.964968	56.369999	51935930.332829	0.948909	0.412505	0.562704

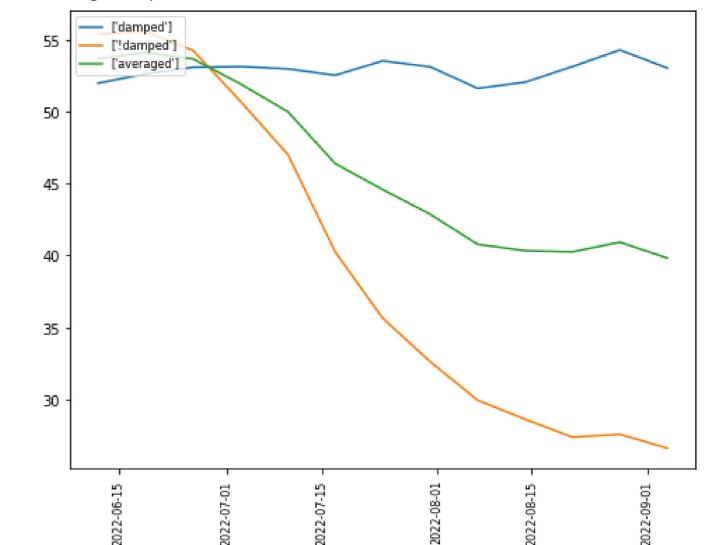
	l axis	r axis
legend		legend
blue	symbol	magenta sector
green	trailing_1yr_max	cyan index
red	trailing_1yr_min	
black	linear	
yellow	supply_trend_1yr	



```

ets next 13 weeks
damped sell date: 2022-08-28
damped expected return: -0.03676758982800798
!damped sell date: 2022-06-19
!damped expected return: -0.014114938563592862
averaged sell date: 2022-06-19
averaged expected return: -0.040187774171185096

```



symbol: HRB
 sector: Consumer Cyclical
 Index: SP400
 supply trend: 61640658.16944024
 risk trend factor: 2.3710165833660994
 beta currentRatio debtToEquity dividendRate dividendYield \

HRB	0.695099	1.103	5314.905	1.08	0.0298
	earningsGrowth	ebitda	ebitdaMargins	forwardPE	grossMargins
HRB	-0.008	806428032	0.30238	9.67663	0.472
	grossProfits	heldPercentInstitutions	industry	marketCap	\
HRB	1400058000	0.93154	Personal Services	5683142656	
	operatingCashflow	operatingMargins	payoutRatio	pegRatio	priceToBook
HRB	80728000	0.25066	0.3344	1.05	126.72598
	priceToSalesTrailing12Months	profitMargins	quickRatio	revenueGrowth	\
HRB	2.130946	0.16063	0.971	0.039	
	revenuePerShare	sector	sharesOutstanding	shortRatio	\
HRB	15.645	Consumer Cyclical	159594000	4.71	
	totalCash	totalCashPerShare	totalDebt	totalRevenue	trailingPE
HRB	1041740032	6.527	2384054016	2666958080	14.570376

Adj Close 21dBOLD 21dMA-TP 21dBOLU 90dSMA 90dSD 90d_lower 90d_upper

2022-06-10 35.450001 30.968201 34.265079 37.561958 29.09 3.96819 21.153621 37.026379

volume_factor latest_p vol_30d_2yr pct_2yr adf hurst

HRB 1.155552 35.450001 61640658.16944 0.941968 0.838883 0.43511

l axis r axis

legend legend

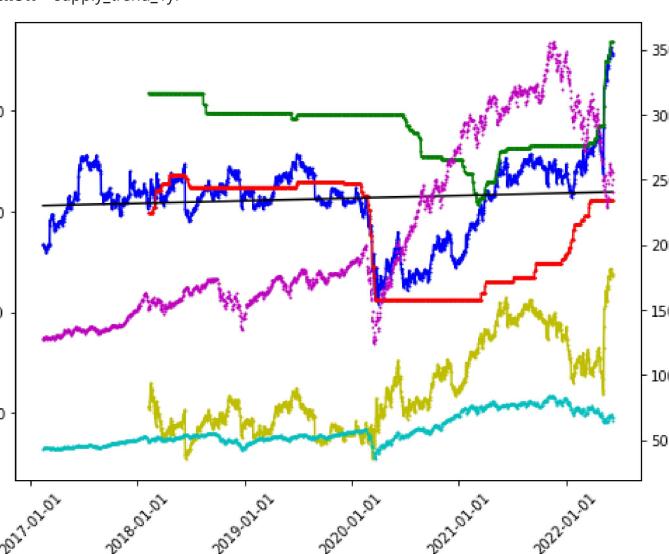
blue symbol magenta sector

green trailing_1yr_max cyan index

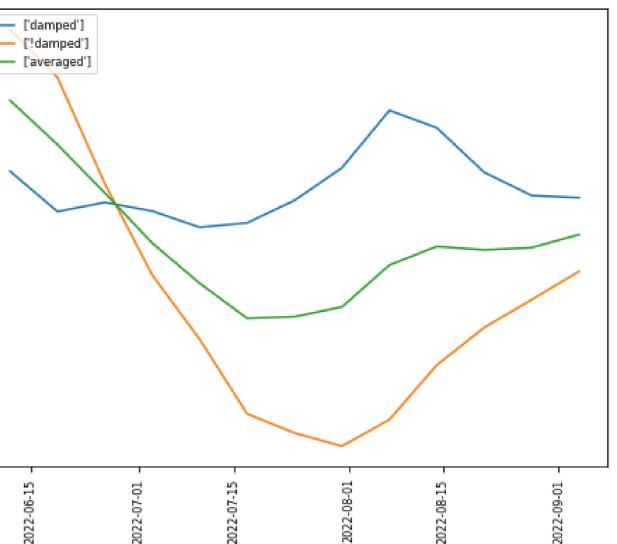
red trailing_1yr_min

black linear

yellow supply_trend_1yr



ets next 13 weeks
 damped sell date: 2022-08-07
 damped expected return: 0.020890813630000938
 !damped sell date: 2022-06-12
 !damped expected return: 0.07547290162663614
 averaged sell date: 2022-06-12
 averaged expected return: 0.027659928348787947



```

3
['options', ('2022-07-15', '2023-01-20', '2024-01-19')]
symbol: MUR
sector: Energy
Index: SP400
supply trend: 60623530.18154312
risk trend factor: 2.3198869089480696
    beta currentRatio debtToEquity dividendRate dividendYield      ebitda \
MUR  2.55625       0.6      80.704      0.7      0.0161  1488126976

    ebitdaMargins forwardPE freeCashflow grossMargins grossProfits \
MUR  0.48315  5.593307  1159256320     0.81723  2271014000

    heldPercentInstitutions      industry      marketCap operatingCashflow \
MUR  0.83585  Oil & Gas E&P  6752466944      1522727040

    operatingMargins payoutRatio pegRatio priceToBook \
MUR  0.21109      0.7836      0.18     1.674372

    priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
MUR  2.192315      0.03261      0.533     0.03902

    returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
MUR  0.06042      0.471      19.932  Energy      155372000

    shortRatio totalCash totalCashPerShare totalDebt totalRevenue \
MUR  4.37  480587008      3.093  3393031936  3080061952

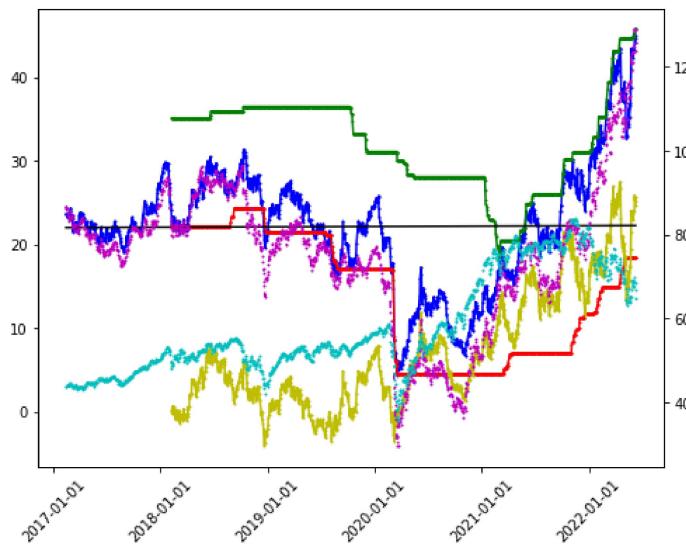
    trailingPE
MUR  66.96456

    Adj Close  21dBOLD  21dMA-TP  21dBOLU  90dSMA  90dSDev  90d_lower  90d_upper
2022-06-10  44.150002  31.102213  39.549445  47.996677  39.439424  3.288115  32.863194  46.015654

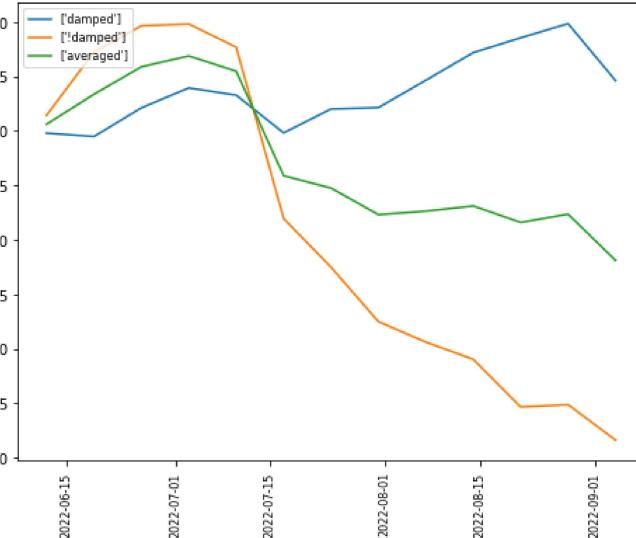
```

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
MUR	0.567049	44.150002	60623530.181543	0.957721	0.869435	0.455651

l axis		r axis	
legend		legend	
blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



sets next 13 weeks
 damped sell date: 2022-08-28
 damped expected return: 0.1305391251951382
 !damped sell date: 2022-07-03
 !damped expected return: 0.13015150581412196
 averaged sell date: 2022-07-03
 averaged expected return: 0.09693930463843003

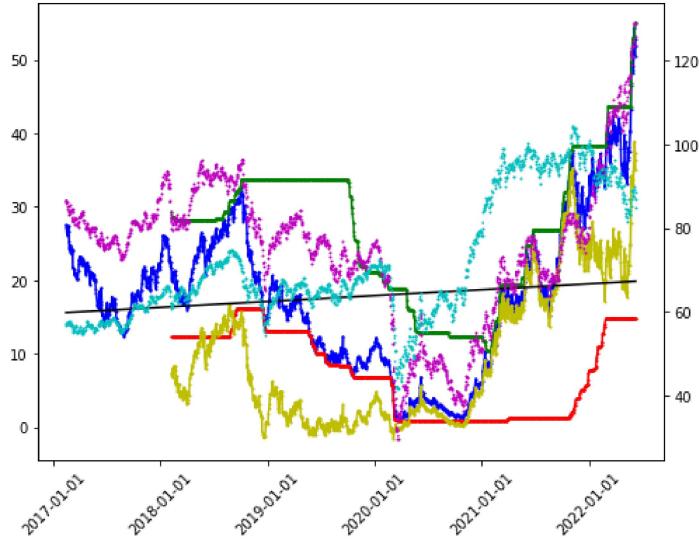


```

5
['options', ('2022-06-17', '2022-07-15', '2022-12-16', '2023-01-20', '2024-01-19')]
symbol: SM
sector: Energy
Index: SP600
supply trend: 82761362.10287443
risk trend factor: 2.2682714381373863
  beta currentRatio debtToEquity dividendRate dividendYield      ebitda \
SM  5.488235     0.717     93.916      0.02      0.0006  1315937024
      ebitdaMargins forwardPE freeCashflow grossMargins grossProfits \
SM     0.45427   10.711865   570353344      0.8671   2136878000
      heldPercentInstitutions      industry      marketCap operatingCashflow \
SM      0.88028  Oil & Gas E&P   6141725696      1396240000
      operatingMargins payoutRatio pegRatio priceToBook \
SM      0.18012      0.007      0.12     3.752134
      priceToSalesTrailing12Months profitMargins quickRatio returnOnAssets \
SM      2.120158      0.11608      0.7      0.06264
      returnOnEquity revenueGrowth revenuePerShare sector sharesOutstanding \
SM     0.17312      0.931     23.974  Energy      121474000
      shortRatio totalCash totalCashPerShare totalDebt totalRevenue
SM      2.26  419887008      3.446  1986428032   2896824064
      Adj Close  21dBOLD  21dMA-TP  21dBOLU  90dSMA  90dSDev  90d_lower  90d_upper
2022-06-10  50.560001  30.683761  44.192381  57.701002  40.420635  5.240911  29.938813  50.902457
  
```

	volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst
SM	0.612742	50.560001	82761362.102874	0.91777	0.976245	0.479096

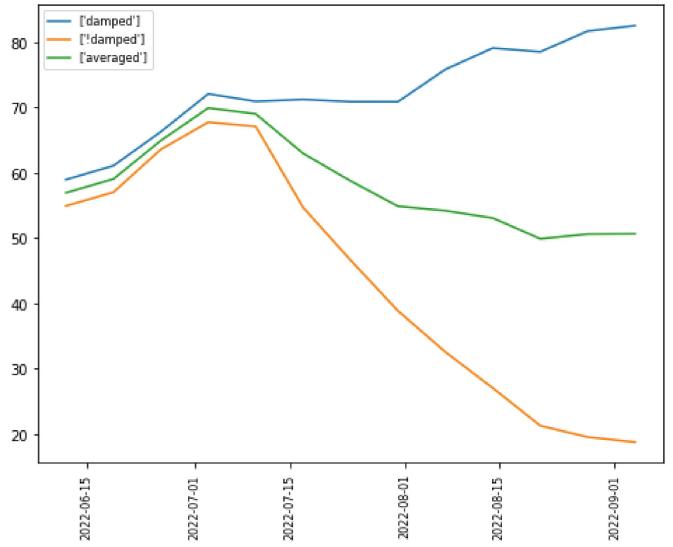
l axis		r axis	
legend	symbol	legend	
blue		magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



```

sets next 13 weeks
damped sell date: 2022-09-04
damped expected return: 0.6330431183366605
!damped sell date: 2022-07-03
!damped expected return: 0.3404817210092381
averaged sell date: 2022-07-03
averaged expected return: 0.38343128012479155

```



21

	2022-03-31	2021-12-31	2021-09-30	\
['quarterly_balance_sheet',				
Capital Surplus	1.844478e+09	1.840228e+09	1.838620e+09	
Total Liab	3.280672e+09	3.170846e+09	3.425061e+09	
Total Stockholder Equity	2.115109e+09	2.063131e+09	1.636899e+09	
Deferred Long Term Liab	2.300000e+06	2.700000e+06	3.100000e+06	
Other Current Liab	5.381270e+08	4.047460e+08	5.520440e+08	
Total Assets	5.395781e+09	5.233977e+09	5.061960e+09	
Common Stock	1.219000e+06	1.219000e+06	1.215000e+06	
Other Current Assets	9.649000e+06	2.409500e+07	2.451400e+07	
Retained Earnings	2.828790e+08	2.345330e+08	-1.903670e+08	
Other Liab	2.415590e+08	1.809150e+08	2.438640e+08	
Treasury Stock	-1.266700e+07	-1.284900e+07	-1.256900e+07	
Other Assets	5.397300e+07	2.576600e+07	6.020700e+07	
Cash	4.198870e+08	3.327160e+08	2.980000e+07	
Total Current Liabilities	1.058721e+09	8.893270e+08	1.103567e+09	
Other Stockholder Equity	-1.266700e+07	-1.284900e+07	-1.256900e+07	
Property Plant Equipment	4.582973e+09	4.595024e+09	4.665483e+09	
Total Current Assets	7.588350e+08	6.131870e+08	3.362700e+08	
Net Tangible Assets	2.115109e+09	2.063131e+09	1.636899e+09	
Net Receivables	3.210760e+08	2.472010e+08	2.722480e+08	
Long Term Debt	1.980392e+09	2.081164e+09	2.077630e+09	
Accounts Payable	5.145580e+08	2.507200e+07	5.424740e+08	
	2021-06-30			
Capital Surplus	1.838859e+09			
Total Liab	3.500489e+09			
Total Stockholder Equity	1.552509e+09			
Deferred Long Term Liab	3.500000e+06			
Other Current Liab	5.450620e+08			
Total Assets	5.052998e+09			
Common Stock	1.210000e+06			
Other Current Assets	3.130300e+07			
Retained Earnings	-2.747450e+08			
Other Liab	2.566960e+08			
Treasury Stock	-1.281500e+07			
Other Assets	6.877900e+07			
Cash	NaN			
Total Current Liabilities	1.051668e+09			
Other Stockholder Equity	-1.281500e+07			
Property Plant Equipment	4.714809e+09			
Total Current Assets	2.694100e+08			
Net Tangible Assets	1.552509e+09			
Net Receivables	2.295120e+08			
Long Term Debt	2.192125e+09			
Accounts Payable	4.962850e+08]		

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	2022-03-31	2021-12-31	\
['quarterly_cashflow',			
Change To Liabilities	0.0	21823800.0	
Total Cashflows From Investing Activities	-150127000.0	-122484000.0	
Net Borrowings	-104770000.0	-104770000.0	
Total Cash From Financing Activities	-104794000.0	-4230000.0	
Change To Operating Activities	-137962000.0	-51950000.0	
Net Income	48764000.0	424900000.0	
Change In Cash	87171000.0	302916000.0	
Total Cash From Operating Activities	342092000.0	429630000.0	
Depreciation	160481000.0	208761000.0	
Other Cashflows From Financing Activities	-24000.0	-4339000.0	
Change To Netincome	266799000.0	-273197000.0	
Capital Expenditures	-150127000.0	-124576000.0	
Issuance Of Stock	NaN	1324000.0	
Dividends Paid	NaN	-1215000.0	
Change To Account Receivables	NaN	-101047000.0	
Other Cashflows From Investing Activities	NaN	NaN	
	2021-09-30	2021-06-30	
Change To Liabilities	0.0	0.0	
Total Cashflows From Investing Activities	-174795000.0	-222322000.0	
Net Borrowings	-118792000.0	-74213000.0	
Total Cash From Financing Activities	-123524000.0	-74077000.0	
Change To Operating Activities	21078000.0	82529000.0	
Net Income	85593000.0	-222995000.0	
Change In Cash	29800000.0	29800000.0	
Total Cash From Operating Activities	328119000.0	296399000.0	
Depreciation	211451000.0	213464000.0	
Other Cashflows From Financing Activities	-4732000.0	-1000.0	
Change To Netincome	6092000.0	218679000.0	
Capital Expenditures	-183409000.0	-222614000.0	
Issuance Of Stock	1324000.0	1315000.0	
Dividends Paid	-1215000.0	-1178000.0	
Change To Account Receivables	-101047000.0	-101047000.0	
Other Cashflows From Investing Activities	-221000.0	292000.0]

4

	Revenue	Earnings
['quarterly_earnings',		
Quarter		
2Q2021	538649000	-222995000
3Q2021	724539000	85593000
4Q2021	814260000	424900000
1Q2022	819376000	48764000]

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	2022-03-31	2021-12-31	2021-09-30	\
['quarterly_financials',				
Research Development	None	None	None	

Effect Of Accounting Charges	None	None	None
Income Before Tax	61625000.0	434933000.0	85554000.0
Minority Interest	None	None	None
Net Income	48764000.0	42490000.0	85593000.0
Selling General Administrative	24996000.0	37062000.0	25530000.0
Gross Profit	723085000.0	714875000.0	629894000.0
Ebit	101736000.0	474411000.0	126257000.0
Operating Income	101736000.0	474411000.0	126257000.0
Other Operating Expenses	426826000.0	-17909000.0	257947000.0
Interest Expense	-39387000.0	-40085000.0	-40861000.0
Extraordinary Items	None	None	None
Non Recurring	None	None	None
Other Items	None	None	None
Income Tax Expense	12861000.0	10033000.0	-39000.0
Total Revenue	819376000.0	814260000.0	724539000.0
Total Operating Expenses	717640000.0	339849000.0	598282000.0
Cost Of Revenue	96291000.0	99385000.0	94645000.0
Total Other Income Expense Net	-40111000.0	-39478000.0	-40703000.0
Discontinued Operations	None	None	None
Net Income From Continuing Ops	48764000.0	42490000.0	85593000.0
Net Income Applicable To Common Shares	48764000.0	42490000.0	85593000.0

2021-06-30

Research Development	None
Effect Of Accounting Charges	None
Income Before Tax	-223157000.0
Minority Interest	None
Net Income	-222995000.0
Selling General Administrative	24639000.0
Gross Profit	443993000.0
Ebit	-180624000.0
Operating Income	-180624000.0
Other Operating Expenses	377800000.0
Interest Expense	-39536000.0
Extraordinary Items	None
Non Recurring	None
Other Items	None
Income Tax Expense	-162000.0
Total Revenue	538649000.0
Total Operating Expenses	719273000.0
Cost Of Revenue	94656000.0
Total Other Income Expense Net	-42533000.0
Discontinued Operations	None
Net Income From Continuing Ops	-222995000.0
Net Income Applicable To Common Shares	-222995000.0

10]

```
[ 'mutualfund_holders' , Holder Shares Date Reported \
0 iShares Core S&P Smallcap ETF 8545223 2022-01-30
1 Vanguard Total Stock Market Index Fund 3454105 2021-12-30
2 Vanguard Small-Cap Index Fund 3058030 2021-12-30
3 iShares Russell 2000 ETF 2729906 2022-01-30
4 SPDR (R) Ser Tr-SPDR (R) S&P (R) Oil & Gas Exp... 2729590 2022-01-30
5 Vanguard Small Cap Value Index Fund 1938357 2021-12-30
6 Vanguard Extended Market Index Fund 1597503 2021-12-30
7 iShares S&P Small-Cap 600 Growth ETF 1404764 2022-01-30
8 First Trust NASDAQ Oil & Gas ETF 1361871 2022-02-27
9 iShares Russell 2000 Value ETF 1284094 2022-01-30
```

% Out	Value
0 0.0701	280368766
1 0.0283	101827015
2 0.0251	90150724
3 0.0224	89568215
4 0.0224	89557847
5 0.0159	57142764
6 0.0131	47094388
7 0.0115	46090306
8 0.0112	48360039
9 0.0105	42131124

3]

['options' , ('2022-08-19' , '2023-01-20' , '2024-01-19')]

symbol: RRC

sector: Energy

Index: SP400

supply trend: 159173207.5642965

risk trend factor: 2.2656514363289952

beta currentRatio debtToEquity ebitda ebitdaMargins forwardPE \
RRC 2.124019 0.246 162.685 458860992 0.11425 9.435616

freeCashflow grossMargins grossProfits heldPercentInstitutions \
RRC 838692352 0.57877 1937478000 0.86655

industry marketCap operatingCashflow operatingMargins payoutRatio \
RRC Oil & Gas E&P 8947339264 1090109952 0.02264 0

pegRatio priceToBook priceToSalesTrailing12Months profitMargins \
RRC 0.28 7.001422 2.227745 -0.01797

quickRatio returnOnAssets returnOnEquity revenueGrowth revenuePerShare \
RRC 0.238 0.00892 -0.04423 0.637 16.483

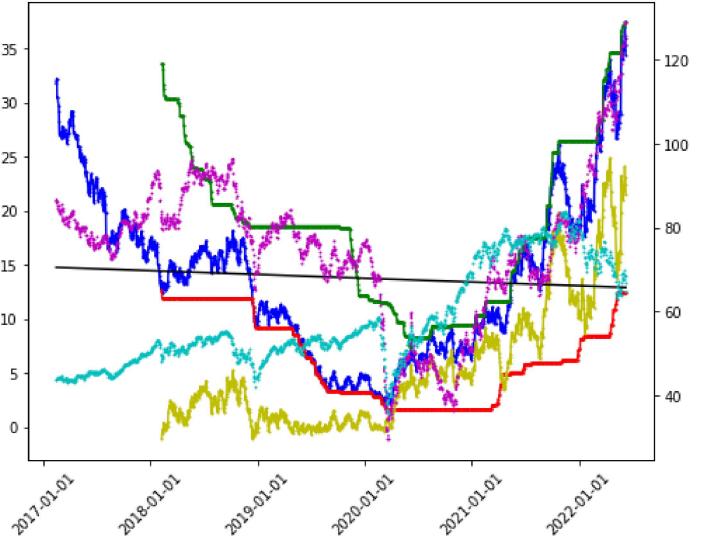
sector sharesOutstanding shortRatio totalCash totalCashPerShare \

RRC	Energy	259795008	3.02	112931000	0.453			
		totalDebt	totalRevenue					
RRC		2603130112	4016321024					
		Adj Close	21dBOLD	21dMA-TP	21dBOLU			
		90dSMA	90dSDev	90d_lower	90d_upper			
2022-06-10	34.439999	24.99917	32.004603	39.010036	30.735397	2.964719	24.805959	36.664834
		volume_factor	latest_p	vol_30d_2yr	pct_2yr	adf	hurst	
RRC		0.617091	34.439999	159173207.564297	0.907293	0.784588	0.495379	

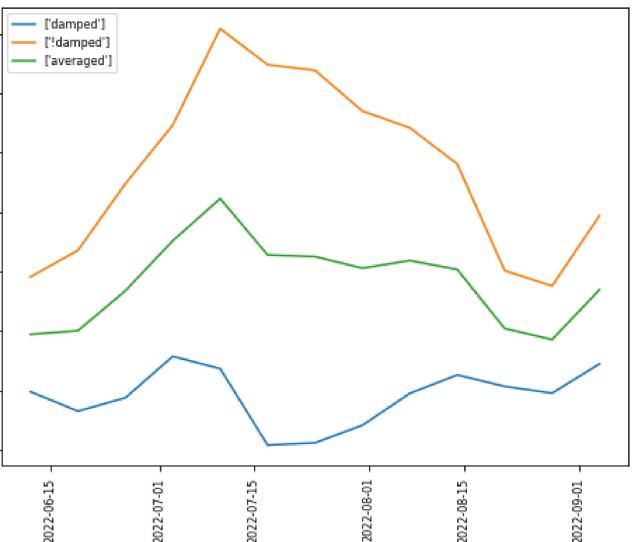
l axis r axis

legend

blue	symbol	magenta	sector
green	trailing_1yr_max	cyan	index
red	trailing_1yr_min		
black	linear		
yellow	supply_trend_1yr		



ets next 13 weeks
damped sell date: 2022-07-03
damped expected return: 0.05779264891876423
!damped sell date: 2022-07-10
!damped expected return: 0.45778876948128877
averaged sell date: 2022-07-10
averaged expected return: 0.2502730533671002



23					
	'quarterly_balance_sheet',		2022-03-31	2021-12-31	2021-09-30 \
Capital Surplus	5.707652e+09	5.720277e+09	5.707382e+09		
Total Liab	4.960181e+09	4.574844e+09	5.122905e+09		
Total Stockholder Equity	1.600104e+09	2.085663e+09	1.181284e+09		
Other Current Liab	9.381218e+08	2.591970e+08	7.849350e+08		
Total Assets	6.560285e+09	6.660507e+09	6.304189e+09		
Common Stock	2.627000e+06	2.598000e+06	2.598000e+06		
Other Current Assets	2.033800e+07	5.738000e+06	4.518200e+07		
Retained Earnings	-4.063941e+09	-3.607055e+09	-4.498421e+09		
Other Liab	7.692500e+08	6.897480e+08	7.182680e+08		
Treasury Stock	-4.623400e+07	-3.015700e+07	-3.027500e+07		
Other Assets	1.585190e+08	1.133600e+08	1.039020e+08		
Cash	1.129310e+08	2.144220e+08	4.780000e+05		
Total Current Liabilities	2.337284e+09	1.152465e+09	1.646327e+09		
Deferred Long Term Asset Charges	3.543600e+07	NaN	NaN		
Short Long Term Debt	7.494830e+08	2.180170e+08	2.179090e+08		
Other Stockholder Equity	-7.500000e+04	-1.500000e+05	-2.680000e+05		
Property Plant Equipment	5.825971e+09	5.798982e+09	5.787932e+09		
Total Current Assets	5.757950e+08	7.366650e+08	4.123550e+08		
Net Tangible Assets	1.600104e+09	2.085663e+09	1.181284e+09		
Net Receivables	4.425260e+08	5.012750e+08	3.666950e+08		
Long Term Debt	1.829734e+09	2.707770e+09	2.730471e+09		
Accounts Payable	2.342530e+08	1.784130e+08	1.519190e+08		
Long Term Investments	NaN	1.150000e+07	NaN		
	2021-06-30				
Capital Surplus	5.699240e+09				
Total Liab	4.706172e+09				
Total Stockholder Equity	1.523261e+09				
Other Current Liab	3.459160e+08				
Total Assets	6.229433e+09				
Common Stock	2.598000e+06				
Other Current Assets	3.965800e+07				
Retained Earnings	-4.148154e+09				
Other Liab	7.108260e+08				
Treasury Stock	-3.042300e+07				
Other Assets	1.002050e+08				
Cash	4.640000e+05				
Total Current Liabilities	9.259190e+08				
Deferred Long Term Asset Charges	NaN				
Short Long Term Debt	NaN				
Other Stockholder Equity	-3.380000e+05				
Property Plant Equipment	5.789516e+09				
Total Current Assets	3.397120e+08				
Net Tangible Assets	1.523261e+09				
Net Receivables	2.995900e+08				
Long Term Debt	3.036657e+09				
Accounts Payable	1.444540e+08				
Long Term Investments	NaN]			
17					
	'quarterly_cashflow',		2022-03-31	2021-12-31	\
Change To Liabilities	51996000.0	4918000.0			
Total Cashflows From Investing Activities	-105012000.0	-88963000.0			
Net Borrowings	-358540000.0	-15022000.0			
Total Cash From Financing Activities	-402893000.0	-14752000.0			
Change To Operating Activities	-188049000.0	32486000.0			
Issuance Of Stock	3658000.0	357000.0			
Net Income	-456808000.0	891366000.0			
Change In Cash	-181491000.0	213944000.0			
Repurchase Of Stock	-41194000.0	-32000.0			
Total Cash From Operating Activities	406414000.0	317659000.0			
Depreciation	87600000.0	92427000.0			
Other Cashflows From Investing Activities	-2621000.0	-3089000.0			
Change To Account Receivables	58674000.0	-134334000.0			
Other Cashflows From Financing Activities	-6817000.0	-55000.0			
Change To Netincome	851036000.0	-570158000.0			
Capital Expenditures	-102740000.0	-85940000.0			
Change To Inventory	NaN	-1140000.0			
	2021-09-30	2021-06-30			
Change To Liabilities	13073000.0	-13178000.0			
Total Cashflows From Investing Activities	-110391000.0	-106125000.0			
Net Borrowings	-81813000.0	-7235000.0			
Total Cash From Financing Activities	-81449000.0	-68043000.0			
Change To Operating Activities	-15949000.0	32816000.0			
Issuance Of Stock	590000.0	4491000.0			
Net Income	-350267000.0	-156472000.0			
Change In Cash	14000.0	15000.0			
Repurchase Of Stock	-18000.0	-152000.0			
Total Cash From Operating Activities	191854000.0	174183000.0			
Depreciation	95116000.0	92806000.0			
Other Cashflows From Investing Activities	-194000.0	4611000.0			
Change To Account Receivables	-67066000.0	-15992000.0			
Other Cashflows From Financing Activities	-208000.0	-32000.0			
Change To Netincome	514953000.0	232025000.0			
Capital Expenditures	-110239000.0	-110923000.0			
Change To Inventory	-1140000.0	-1140000.0]		
4					
	'quarterly_earnings',	Revenue	Earnings		
Quarter					
Q22021	684405000	-156472000			

3Q2021 954859000 -350267000
4Q2021 1257264000 891366000
1Q2022 1119793000 -456808000]

22

```
['quarterly_financials',  
 Research Development None None 2022-03-31 2021-12-31 \\  
 Effect Of Accounting Charges None None  
 Income Before Tax -572889000.0 909879000.0  
 Minority Interest None None  
 Net Income -456808000.0 891366000.0  
 Selling General Administrative 43026000.0 42459000.0  
 Gross Profit 702005000.0 792996000.0  
 Ebit -453840000.0 1005348000.0  
 Operating Income -453840000.0 1005348000.0  
 Other Operating Expenses 947177000.0 -333146000.0  
 Interest Expense -47175000.0 -56362000.0  
 Extraordinary Items None None  
 Non Recurring None None  
 Other Items None None  
 Income Tax Expense -116081000.0 18513000.0  
 Total Revenue 1119793000.0 1257264000.0  
 Total Operating Expenses 1573633000.0 251916000.0  
 Cost Of Revenue 417788000.0 464268000.0  
 Total Other Income Expense Net -119049000.0 -95469000.0  
 Discontinued Operations None None  
 Net Income From Continuing Ops -456808000.0 891366000.0  
 Net Income Applicable To Common Shares -456808000.0 880571000.0
```

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```
2021-09-30 2021-06-30  
Research Development None None  
Effect Of Accounting Charges None None  
Income Before Tax -379950000.0 -157734000.0  
Minority Interest None None  
Net Income -350267000.0 -156472000.0  
Selling General Administrative 49061000.0 40242000.0  
Gross Profit 525126000.0 304385000.0  
Ebit -324300000.0 -136296000.0  
Operating Income -324300000.0 -136296000.0  
Other Operating Expenses 665090000.0 267143000.0  
Interest Expense -56809000.0 -57287000.0  
Extraordinary Items None None  
Non Recurring None None  
Other Items None None  
Income Tax Expense -29683000.0 -1262000.0  
Total Revenue 954859000.0 684405000.0  
Total Operating Expenses 1279159000.0 820701000.0  
Cost Of Revenue 429733000.0 380020000.0  
Total Other Income Expense Net -55650000.0 -21438000.0  
Discontinued Operations None None  
Net Income From Continuing Ops -350267000.0 -156472000.0  
Net Income Applicable To Common Shares -350267000.0 -156472000.0 ]
```

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```
['mutualfund_holders', Holder Shares Date Reported \\  
 0 iShares Core S&P Smallcap ETF 17572227 2022-01-30  
 1 Vanguard Total Stock Market Index Fund 7017434 2021-12-30  
 2 Vanguard Small-Cap Index Fund 6213678 2021-12-30  
 3 iShares Russell 2000 ETF 5443911 2022-01-30  
 4 SPDR (R) Ser Tr-SPDR (R) S&P (R) Oil & Gas Exp... 4635596 2022-01-30  
 5 Fidelity Puritan Fund Inc 3997998 2022-02-27  
 6 Vanguard Small Cap Value Index Fund 3940642 2021-12-30  
 7 Vanguard Extended Market Index Fund 3323577 2021-12-30  
 8 Undiscovered Managers Behavioral Value Fund 3240158 2021-12-30  
 9 American Beacon Small Cap Value Fd 2764733 2022-01-30
```

3

```
% Out Value  
0 0.0651 338265369  
1 0.0260 125120848  
2 0.0230 118789878  
3 0.0202 104795286  
4 0.0172 89235223  
5 0.0148 91754054  
6 0.0146 70261646  
7 0.0123 59259377  
8 0.0120 57772017  
9 0.0102 53221110 ]
```

3

```
['options', ('2022-06-17', '2023-01-20', '2024-01-19')]
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27

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['sustainability', Value  
2022-5  
palmOil False  
controversialWeapons False  
gambling False  
socialScore 0  
nuclear False  
furLeather False  
alcoholic False  
gmo False  
catholic False  
socialPercentile 0  
peerCount 66  
governanceScore 0
```

```
environmentPercentile          0
animalTesting                  False
tobacco                        False
totalEsg                        33.07
highestControversy                2
esgPerformance                 LEAD_PERF
coal                            False
pesticides                      False
adult                           False
percentile                      72.13
peerGroup                       Oil & Gas Producers
smallArms                        False
environmentScore                  0
governancePercentile                0
militaryContract                 False]
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