Portfolio Optimization

Portfolio Type

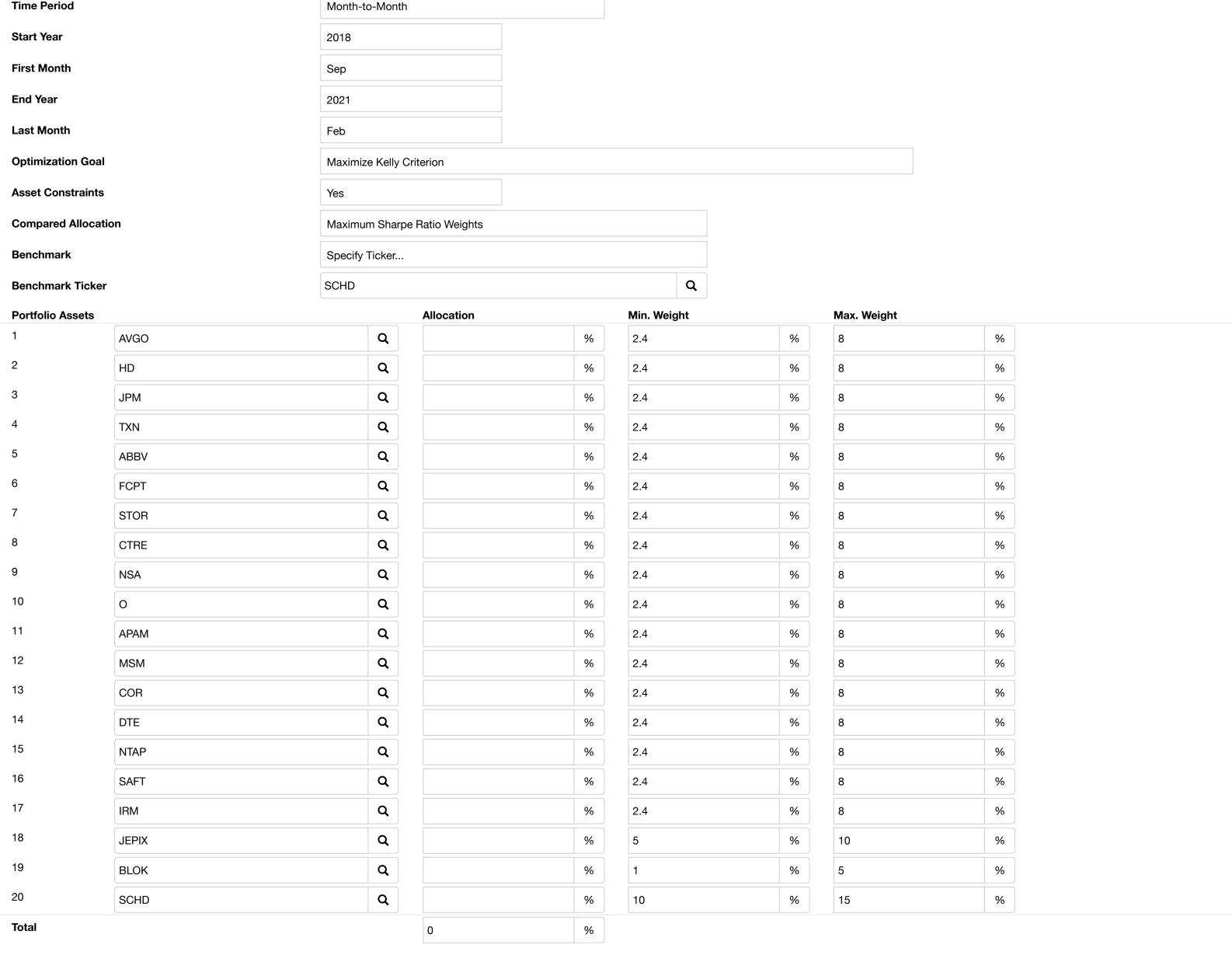
This portfolio optimizer tool supports the following portfolio optimization strategies:

- Mean Variance Optimization Find the optimal risk adjusted portfolio that lies on the efficient frontier
- Conditional Value-at-Risk Optimize the portfolio to minimize the expected tail loss
- Risk Parity Find the portfolio that equalizes the risk contribution of portfolio assets
- Tracking Error Find the portfolio that minimizes the tracking error against the selected benchmark
- Information Ratio Find the portfolio that maximizes the information ratio against the selected benchmark
- Kelly Criterion Finds the portfolio with the maximum expected geometric growth rate
- Sortino Ratio Find the portfolio that maximizes the Sortino ratio for the given minimum acceptable return
- Omega Ratio Find the portfolio that maximizes the Omega ratio for the given minimum acceptable return
- Maximum Drawdown Find the portfolio with the minimum worst case drawdown with optional minimum acceptable return

Tickers

The optimization is based on the monthly return statistics of the selected portfolio assets for the given time period. The optimization result does not predict what allocation would perform best outside the given time period, and the actual performance of portfolios constructed using the optimized asset weights may vary from the given performance goal.

The required inputs for the optimization include the time range and the portfolio assets. Portfolio asset weights and constraints are optional. You can also use the Black-Litterman model based portfolio optimization, which allows the benchmark portfolio asset weights to be optimized based on investor's views.



Portfolio Optimization Results (Sep 2018 - Feb 2021)

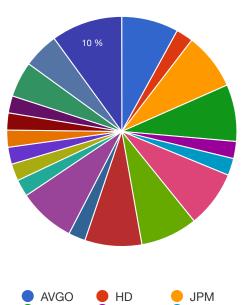
Portfolio optimization results with goal to maximize kelly criterion. The possible range of expected annual portfolio returns for the given period taking into account the specified constraints is 13.57% to 21.86%. Refer to the efficient frontier section for

Portfolio Allocations

additional details.

Maximum Kelly Criterion

Ticker	Name	Allocation
AVGO	Broadcom Limited	8.00%
HD	Home Depot, Inc.	2.40%
JPM	J P Morgan Chase & Co	8.00%
TXN	Texas Instruments Incorporated	8.00%
ABBV	AbbVie Inc.	2.40%
FCPT	Four Corners Property Trust, Inc.	2.40%
STOR	STORE Capital Corporation	8.00%
CTRE	CareTrust REIT, Inc.	8.00%
NSA	National Storage Affiliates Trust	8.00%
O	Realty Income Corporation	2.40%
APAM	Artisan Partners Asset Management Inc.	8.00%
MSM	MSC Industrial Direct Company, Inc.	2.40%

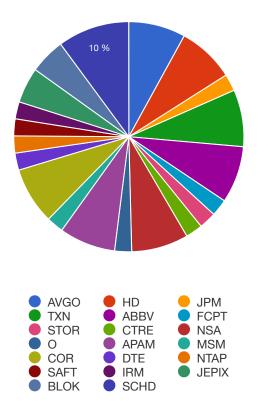




Ticker	Name	Allocation
COR	CoreSite Realty Corporation	2.40%
DTE	DTE Energy Company	2.40%
NTAP	NetApp, Inc.	2.40%
SAFT	Safety Insurance Group, Inc.	2.40%
IRM	Iron Mountain Incorporated	2.40%
JEPIX	JPMorgan Equity Premium Income I	5.00%
BLOK	Amplify Transformational Data Shrg ETF	5.00%
SCHD	Schwab US Dividend Equity ETF	10.00%

Maximum Sharpe Ratio Weights

Ticker	Name	Allocation
AVGO	Broadcom Limited	8.00%
HD	Home Depot, Inc.	8.00%
JPM	J P Morgan Chase & Co	2.40%
TXN	Texas Instruments Incorporated	8.00%
ABBV	AbbVie Inc.	8.00%
FCPT	Four Corners Property Trust, Inc.	2.40%
STOR	STORE Capital Corporation	2.40%
CTRE	CareTrust REIT, Inc.	2.40%
NSA	National Storage Affiliates Trust	8.00%
0	Realty Income Corporation	2.40%
APAM	Artisan Partners Asset Management Inc.	7.91%
MSM	MSC Industrial Direct Company, Inc.	2.40%
COR	CoreSite Realty Corporation	8.00%
DTE	DTE Energy Company	2.40%
NTAP	NetApp, Inc.	2.40%
SAFT	Safety Insurance Group, Inc.	2.40%
IRM	Iron Mountain Incorporated	2.40%
JEPIX	JPMorgan Equity Premium Income I	5.00%
BLOK	Amplify Transformational Data Shrg ETF	5.00%
SCHD	Schwab US Dividend Equity ETF	10.09%

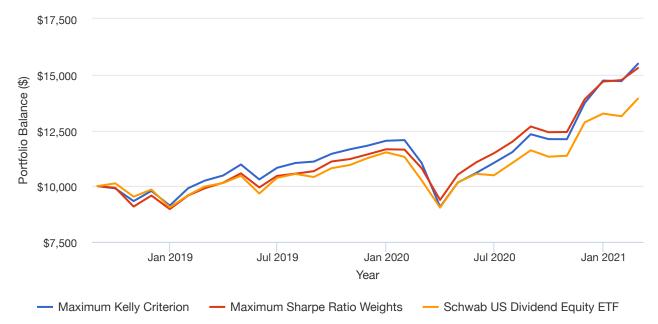




Portfolio Performance Summary

Metric	Maximum Kelly Criterion	Maximum Sharpe Ratio Weights	Schwab US Dividend Equity ETF
Start Balance	\$10,000	\$10,000	\$10,000
End Balance	\$15,488	\$15,295	\$13,927
CAGR	19.12%	18.53%	14.17%
Expected Return	21.86%	20.66%	16.36%
Stdev	21.54%	19.23%	19.95%
Best Year	31.84%	29.87%	27.28%
Worst Year	-8.73%	-10.29%	-9.53%
Max. Drawdown	-24.81%	-19.51%	-21.54%
Sharpe Ratio (ex-ante)	0.95	1.01	0.75
Sharpe Ratio (ex-post)	0.86	0.91	0.70
Sortino Ratio	1.29	1.41	1.08
Active Return	4.96%	4.36%	N/A
Tracking Error	6.93%	5.76%	N/A
Information Ratio	0.72	0.76	N/A
US Stock Market Correlation	0.96	0.97	0.97





Annual Returns 40.0% 20.0% Annual Return 0.0% -20.0% 2019 2020 2021 Year Schwab US Dividend Equity ETF Maximum Kelly Criterion Maximum Sharpe Ratio Weights

Trailing Returns

Name	3 Month	YTD	1 year	Full
Maximum Kelly Criterion	12.85%	5.14%	40.36%	19.12%
Maximum Sharpe Ratio Weights	10.08%	4.14%	41.59%	18.53%
Schwab US Dividend Equity ETF	8.31%	5.10%	35.81%	14.17%

Trailing annualized returns are for full months ending in February 2021 excluding portfolio cashflows.

Notes on results:

- Past performance is no guarantee of future results, which may vary. All use is subject to terms of service.
- Investing involves risk, including possible loss of principal. The value of the investments and the income derived from them may fluctuate over time.
- All portfolio returns presented are hypothetical and backtested. Hypothetical returns do not reflect trading costs, transaction fees, or taxes.
- Portfolio optimization determines target weights for portfolio assets based on mathematical models that can use either historical or forecasted data as inputs. Optimization results are not guarantees of future performance.
- The results are based on information from a variety of sources we consider reliable, but we do not represent that the information is accurate or complete.
- The results do not constitute investment advice or recommendation, are provided solely for informational purposes, and are not an offer to buy or sell any securities.
- The results are based on the total return of assets and assume that all received dividends and distributions are reinvested.
- Allocation constraints are only applied to the optimized portfolio, not to compared allocations and benchmarks
- The annual results for 2018 are based on full calendar months from September to December
- The annual results for 2021 are based on full calendar months from January to February
- CAGR = Compound Annual Growth Rate
- Stdev = Annualized standard deviation of monthly returns
- Sharpe ratio is calculated and annualized from monthly excess returns over the risk free rate (3-month treasury bill)
- Drawdowns are calculated based on monthly returns.
- The backtested results assume monthly rebalancing of portfolio assets to match the specified allocation.
- The results from the evolutionary algorithm for non-convex optimization may vary slightly between optimization runs depending on convergence to the global optimum.

# Asset	CAGR	Expected Return	Standard Deviation	Sharpe Ratio	Min. Weight	Max. Weight
1 Broadcom Limited (AVGO)	41.29%	47.39%	29.64%	1.554	2.40%	8.00%
2 Home Depot, Inc. (HD)	13.13%	16.43%	24.51%	0.616	2.40%	8.00%
3 J P Morgan Chase & Co (JPM)	14.16%	19.31%	30.09%	0.598	2.40%	8.00%
4 Texas Instruments Incorporated (TXN)	22.06%	26.02%	25.92%	0.952	2.40%	8.00%
5 AbbVie Inc. (ABBV)	10.34%	15.64%	31.83%	0.450	2.40%	8.00%
6 Four Corners Property Trust, Inc. (FCPT)	4.94%	10.86%	31.99%	0.298	2.40%	8.00%
7 STORE Capital Corporation (STOR)	11.31%	23.43%	43.28%	0.511	2.40%	8.00%
8 CareTrust REIT, Inc. (CTRE)	12.84%	19.05%	32.71%	0.542	2.40%	8.00%
9 National Storage Affiliates Trust (NSA)	17.85%	19.80%	18.57%	0.995	2.40%	8.00%
10 Realty Income Corporation (O)	5.53%	9.73%	26.67%	0.315	2.40%	8.00%
11 Artisan Partners Asset Management Inc. (APAM)	28.66%	40.76%	43.93%	0.897	2.40%	8.00%
12 MSC Industrial Direct Company, Inc. (MSM)	8.88%	14.21%	32.01%	0.403	2.40%	8.00%
13 CoreSite Realty Corporation (COR)	6.13%	9.33%	24.69%	0.324	2.40%	8.00%
14 DTE Energy Company (DTE)	5.82%	7.87%	19.53%	0.335	2.40%	8.00%
15 NetApp, Inc. (NTAP)	-9.30%	-3.36%	36.11%	-0.130	2.40%	8.00%
16 Safety Insurance Group, Inc. (SAFT)	-4.23%	-2.34%	19.98%	-0.183	2.40%	8.00%
17 Iron Mountain Incorporated (IRM)	6.46%	10.29%	26.85%	0.334	2.40%	8.00%
18 JPMorgan Equity Premium Income I (JEPIX)	7.00%	8.09%	14.39%	0.470	5.00%	10.00%
19 Amplify Transformational Data Shrg ETF (BLOK)	46.93%	55.10%	35.16%	1.530	1.00%	5.00%
20 Schwab US Dividend Equity ETF (SCHD)	14.17%	16.36%	19.95%	0.754	10.00%	15.00%

Asset Correlations

Name	Ticker	AVGO	HD	JPM	TXN	ABBV	FCPT	STOR	CTRE	NSA	0	APAM	MSM	COR	DTE	NTAP	SAFT	IRM	JEPIX	BLOK	SCHD
Broadcom Limited	AVGO	1.00	0.60	0.55	0.65	0.39	0.39	0.47	0.37	-0.05	0.36	0.61	0.59	-0.05	0.30	0.63	0.12	0.44	0.63	0.49	0.71
Home Depot, Inc.	HD	0.60	1.00	0.44	0.70	0.34	0.47	0.42	0.62	0.25	0.50	0.66	0.47	0.35	0.55	0.30	-0.01	0.57	0.77	0.44	0.70
J P Morgan Chase & Co	JPM	0.55	0.44	1.00	0.70	0.44	0.48	0.59	0.57	0.41	0.46	0.70	0.73	-0.02	0.55	0.69	0.37	0.46	0.78	0.75	0.87
Texas Instruments Incorporated	TXN	0.65	0.70	0.70	1.00	0.43	0.44	0.47	0.46	0.25	0.35	0.84	0.67	0.13	0.55	0.52	0.36	0.47	0.74	0.61	0.82
AbbVie Inc.	ABBV	0.39	0.34	0.44	0.43	1.00	0.33	0.31	0.31	0.02	0.25	0.36	0.63	0.06	0.14	0.35	0.13	0.40	0.41	0.36	0.49
Four Corners Property Trust, Inc.	FCPT	0.39	0.47	0.48	0.44	0.33	1.00	0.87	0.68	0.39	0.90	0.56	0.41	-0.02	0.61	0.26	0.01	0.49	0.66	0.45	0.57
STORE Capital Corporation	STOR	0.47	0.42	0.59	0.47	0.31	0.87	1.00	0.63	0.44	0.87	0.50	0.45	-0.08	0.54	0.34	0.07	0.51	0.65	0.50	0.60
CareTrust REIT, Inc.	CTRE	0.37	0.62	0.57	0.46	0.31	0.68	0.63	1.00	0.64	0.76	0.46	0.48	0.23	0.62	0.39	0.05	0.71	0.76	0.52	0.63
National Storage Affiliates Trust	NSA	-0.05	0.25	0.41	0.25	0.02	0.39	0.44	0.64	1.00	0.53	0.11	0.15	0.06	0.45	0.11	0.06	0.59	0.42	0.35	0.30
Realty Income Corporation	0	0.36	0.50	0.46	0.35	0.25	0.90	0.87	0.76	0.53	1.00	0.43	0.33	-0.07	0.63	0.19	-0.05	0.59	0.63	0.36	0.52
Artisan Partners Asset Management Inc.	APAM	0.61	0.66	0.70	0.84	0.36	0.56	0.50	0.46	0.11	0.43	1.00	0.58	0.12	0.62	0.60	0.38	0.36	0.79	0.65	0.85

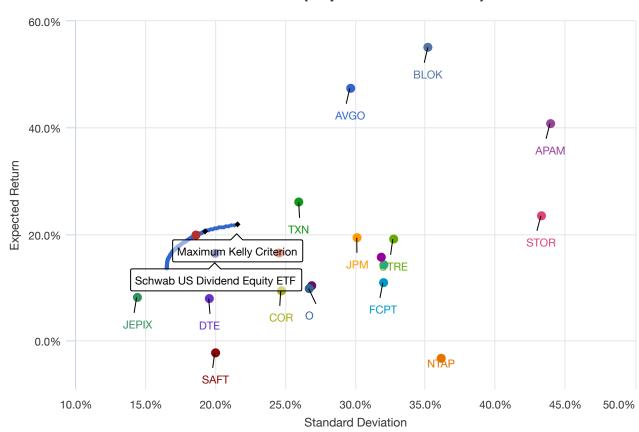
Based on monthly returns from Sep 2018 to Feb 2021

Name	Ticker	AVGO	HD	JPM	TXN	ABBV	FCPT	STOR	CTRE	NSA	0	APAM	MSM	COR	DTE	NTAP	SAFT	IRM	JEPIX	BLOK	SCHD
MSC Industrial Direct Company, Inc.	MSM	0.59	0.47	0.73	0.67	0.63	0.41	0.45	0.48	0.15	0.33	0.58	1.00	0.12	0.50	0.58	0.28	0.42	0.68	0.59	0.79
CoreSite Realty Corporation	COR	-0.05	0.35	-0.02	0.13	0.06	-0.02	-0.08	0.23	0.06	-0.07	0.12	0.12	1.00	0.28	0.10	0.34	0.30	0.30	0.10	0.19
DTE Energy Company	DTE	0.30	0.55	0.55	0.55	0.14	0.61	0.54	0.62	0.45	0.63	0.62	0.50	0.28	1.00	0.25	0.23	0.46	0.79	0.38	0.69
NetApp, Inc.	NTAP	0.63	0.30	0.69	0.52	0.35	0.26	0.34	0.39	0.11	0.19	0.60	0.58	0.10	0.25	1.00	0.28	0.35	0.57	0.58	0.68
Safety Insurance Group, Inc.	SAFT	0.12	-0.01	0.37	0.36	0.13	0.01	0.07	0.05	0.06	-0.05	0.38	0.28	0.34	0.23	0.28	1.00	0.00	0.29	0.35	0.36
Iron Mountain Incorporated	IRM	0.44	0.57	0.46	0.47	0.40	0.49	0.51	0.71	0.59	0.59	0.36	0.42	0.30	0.46	0.35	0.00	1.00	0.64	0.57	0.56
JPMorgan Equity Premium Income I	JEPIX	0.63	0.77	0.78	0.74	0.41	0.66	0.65	0.76	0.42	0.63	0.79	0.68	0.30	0.79	0.57	0.29	0.64	1.00	0.68	0.93
Amplify Transformational Data Shrg ETF	BLOK	0.49	0.44	0.75	0.61	0.36	0.45	0.50	0.52	0.35	0.36	0.65	0.59	0.10	0.38	0.58	0.35	0.57	0.68	1.00	0.78
Schwab US Dividend Equity ETF	SCHD	0.71	0.70	0.87	0.82	0.49	0.57	0.60	0.63	0.30	0.52	0.85	0.79	0.19	0.69	0.68	0.36	0.56	0.93	0.78	1.00

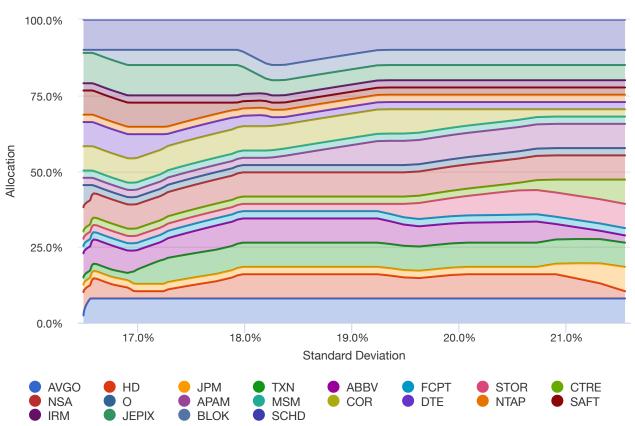
Based on monthly returns from Sep 2018 to Feb 2021

Note: You can hover over any of the data points on the chart for more information.

Efficient Frontier (Sep 2018 - Feb 2021)



Efficient Frontier Transition Map (Sep 2018 - Feb 2021)

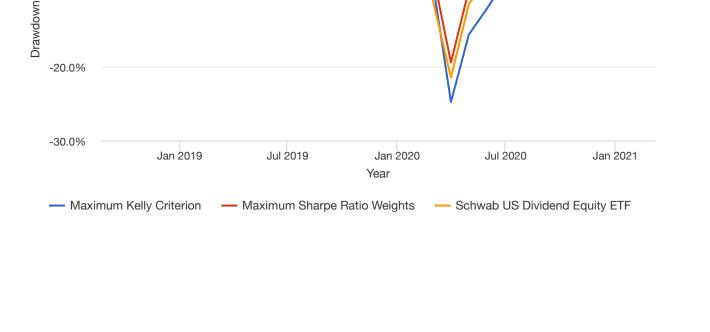


#	AVGO	HD	JPM	TXN	ABBV	FCPT	STOR	CTRE	NSA	0	APAM	MSM	COR	DTE	NTAP	SAFT	IRM	JEPIX	BLOK	SCHD	Expected Return*	Standard Deviation*	Sharpe Ratio*
1	2.40%	7.69%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	7.31%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	13.57%	16.49%	0.743
2	2.66%	7.58%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	7.15%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	13.65%	16.49%	0.748
3	2.93%	7.42%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	7.05%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	13.73%	16.49%	0.752
4	3.20%	7.26%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	6.94%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	13.81%	16.49%	0.757
5	3.48%	7.10%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	6.83%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	13.89%	16.49%	0.762
6	3.75%	6.94%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	6.72%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	13.98%	16.49%	0.767
7	4.02%	6.77%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	6.61%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	14.06%	16.49%	0.772
8	4.29%	6.61%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	6.50%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	14.14%	16.49%	0.777
9	4.56%	6.45%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	6.39%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	14.22%	16.50%	0.782
10	4.84%	6.29%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	6.28%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	14.30%	16.50%	0.786
11	5.11%	6.13%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	6.17%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	14.38%	16.50%	0.791
12	5.38%	5.96%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	6.06%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	14.47%	16.51%	0.796
13	5.65%	5.80%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	5.95%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	14.55%	16.51%	0.801

#	AVG) HD	JPM	TXN	ABBV	FCPT	STOR	CTRE	NSA	0	APAM	MSM	COR	DTE	NTAP	SAFT	IRM	JEPIX	BLOK	SCHD	Expected Return*	Standard Deviation*	Sharpe Ratio*
	5.92%		2.40%				2.40%	2.40%		5.84%		2.40%	8.00%			8.00%	2.40%	10.00%	1.00%	10.00%	14.63%	16.51%	0.806
	6.209					2.40%		2.40%	8.00%				8.00%			8.00%		10.00%	1.00%	10.00%	14.71%	16.52%	0.810
17	6.749	6 5.15%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	5.51%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	14.87%	16.53%	0.820
18	7.01%	6 4.99%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	5.40%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	14.96%	16.53%	0.825
	7.28%					2.40%		2.40%					8.00%					10.00%	1.00%	10.00%	15.04%	16.54%	0.829
	7.569 7.839		2.40%		8.00%		2.40%	2.40%		5.18%	2.40%	2.40%	8.00%	8.00%		8.00%	2.40%	10.00%	1.00%	10.00%	15.12%	16.54%	0.834
	8.00%						2.40%			4.56%			8.00%		2.40%			10.00%	1.00%	10.00%	15.28%	16.55%	0.843
23	8.00%	6.05%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	3.35%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	1.00%	10.00%	15.37%	16.56%	0.848
	8.00%						2.40%			2.65%					2.40%				1.10%	10.00%	15.45%	16.58%	0.852
		6.58% 6.46%					2.40%					2.40%							1.32%	10.00%	15.53% 15.61%	16.60%	0.856
		6 6.21%				2.40%						2.40%						10.00%	1.79%	10.00%	15.70%	16.63%	0.864
28	8.00%	6 5.97%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	2.03%	10.00%	15.78%	16.65%	0.868
29	8.00%	6 5.72%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	2.28%	10.00%	15.86%	16.67%	0.872
		6 5.48% 6 5.23%						2.40%				2.40%				8.00%			2.52%	10.00%	15.94%	16.69%	0.876
		6 4.98%																	3.02%	10.00%	16.11%	16.73%	0.884
33	8.00%	6 4.74%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	3.26%	10.00%	16.19%	16.75%	0.888
		6 4.55%							8.00%					8.00%						10.00%	16.27%	16.77%	0.892
		6 4.40% 6 4.24%	2.40%				2.40%	2.40%			2.40%	2.40%	8.00%	8.00%		8.00%	2.40%	10.00%	3.75%	10.00%	16.36%	16.79%	0.895
	8.009		2.40%	2.40%			2.40%	2.40%			2.40%	2.40%	8.00%			8.00%	2.40%	10.00%	4.24%	10.00%	16.44%	16.83%	0.899
38	8.00%	6 3.93%	2.40%	2.40%				2.40%					8.00%			8.00%	2.40%	10.00%	4.48%	10.00%	16.61%	16.85%	0.907
39	8.00%	6 3.77%	2.40%	2.40%	7.51%	2.40%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	8.00%	2.40%	8.00%	2.40%	10.00%	4.72%	10.00%	16.69%	16.87%	0.910
		6 3.62% 6 3.12%				2.40%		2.40%	8.00%	2.40%		2.40%		8.00%		8.00%		10.00%	4.97% 5.00%	10.00%	16.77%	16.90%	0.914
		6 3.12% 6 2.46%	2.40%			2.40%		2.40%		2.40%			8.00%	8.00%					5.00%	10.00%	16.86%	16.95%	0.918
43	8.00%	6 2.40%	2.40%	4.74%	6.41%	2.40%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	7.85%	2.40%	8.00%	2.40%	10.00%	5.00%	10.00%	17.02%	16.99%	0.924
44	8.00%	6 2.40%	2.40%	5.23%	6.34%	2.40%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	7.43%	2.40%	8.00%	2.40%	10.00%	5.00%	10.00%	17.11%	17.02%	0.927
		6 2.40%		5.71%				2.40%					8.00%	7.01%		8.00%		10.00%	5.00%	10.00%	17.19%	17.06%	0.930
		6 2.40% 6 2.40%						2.40%					8.00%	6.59%		8.00%				10.00%	17.27%	17.09%	0.933
		6 2.40%																		10.00%	17.44%	17.16%	0.939
49	8.00%	6 2.40%	2.40%	7.67%	6.01%	2.40%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	5.33%	2.40%	8.00%	2.40%	10.00%	5.00%	10.00%	17.52%	17.20%	0.942
50	8.00%	6 2.40%	2.40%	8.00%	6.29%	2.40%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%			8.00%	2.40%	10.00%	5.00%	10.00%	17.61%	17.23%	0.945
51	8.00%	6 2.99% 6 3.26%	2.40%	8.00%	6.50%	2.40%	2.40%	2.40%		2.40%	2.40%	2.40%	8.00%	4.02%		7.88%	2.40%	10.00%	5.00%	10.00%	17.69%	17.27%	0.947
53	8.00%	6 3.53%	2.40%	8.00%	6.79%	2.40%	2.40%	2.40%		2.40%	2.40%	2.40%	8.00%	4.02%	2.40%	7.06%	2.40%	10.00%	5.00%	10.00%	17.86%	17.36%	0.952
54	8.00%	6 3.80%	2.40%	8.00%	6.94%	2.40%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	4.01%	2.40%	6.65%	2.40%	10.00%	5.00%	10.00%	17.94%	17.40%	0.955
55	8.00%	6 4.07%	2.40%	8.00%	7.09%	2.40%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	4.01%	2.40%	6.24%	2.40%	10.00%	5.00%	10.00%	18.03%	17.45%	0.957
	8.00%		2.40%	8.00%			2.40%	2.40%			2.40%	2.40%	8.00%	4.00%		5.82% 5.41%	2.40%	10.00%	5.00%	10.00%	18.11%	17.49%	0.960
	8.00%		2.40%				2.40%	2.40%				2.40%	8.00%			5.00%	2.40%	10.00%	5.00%	10.00%	18.28%	17.54%	0.962
59	8.00%	6 5.14%	2.40%	8.00%	7.69%	2.40%	2.40%	2.40%	8.00%	2.40%	2.40%	2.40%	8.00%	3.99%	2.40%	4.59%	2.40%	10.00%	5.00%	10.00%	18.36%	17.63%	0.966
60	8.00%	6 5.41%	2.40%	8.00%	7.84%	2.40%	2.40%	2.40%		2.40%	2.40%	2.40%	8.00%	3.98%	2.40%	4.17%	2.40%	10.00%	5.00%	10.00%	18.45%	17.68%	0.969
61	8.00%	6 08%	2.40%	8.00%	7.98%	2.40%	2.40%	2.40%			2.40%	2.40%	8.00%	3.98%	2.40%	3.76%	2.40%	10.00%	5.00%	10.00%	18.53%	17.72%	0.971
	8.00%		2.40%	8.00%	8.00%	2.40%	2.40%	2.40%			2.40%	2.40%	8.00%			3.36% 2.96%	2.40%	10.00%	5.00%	10.00%	18.62%	17.77%	0.973
	8.00%		2.40%	8.00%	8.00%	2.40%	2.40%						8.00%		2.40%		2.40%	10.00%	5.00%	10.00%	18.78%	17.87%	0.977
65	8.00%		2.40%	8.00%		2.40%	2.40%	2.40%			2.40%	2.40%	8.00%			2.40%	2.40%	9.95%	5.00%	10.00%	18.87%	17.92%	0.979
	8.00%		2.40%	8.00%	8.00%		2.40%	2.40%			2.40%	2.40%	8.00%	3.47%		2.40%	2.40%		5.00%	10.61%	18.95%	17.98%	0.981
	8.009		2.40%	8.00%	8.00%	2.40%	2.40%	2.40%			2.40%	2.40%	8.00%	3.61%		2.40%	2.40%	6.84%	5.00%	12.55%	19.04%	18.03%	0.982
	8.00%		2.40%	8.00%	8.00%	2.40%	2.40%	2.40%		2.40%	2.40%	2.40%	8.00%	3.68%		2.40%	2.40%	5.80%	5.00%	13.52%	19.21%	18.14%	0.986
	8.00%		2.40%		8.00%		2.40%		8.00%					3.51%		2.40%	2.40%	5.00%	5.00%	14.49%	19.29%	18.19%	0.988
		6 8.00% 6 8.00%							8.00%										5.00%	15.00%	19.38%	18.25%	0.989
		6 8.00% 6 8.00%																		15.00% 14.92%	19.46%	18.31%	0.991
		6 8.00%																	5.00%		19.63%	18.43%	0.993
75	8.00%	6 8.00%	2.40%	8.00%	8.00%	2.40%	2.40%	2.40%	8.00%	2.40%	3.82%	2.40%	8.00%	2.40%	2.40%	2.40%	2.40%	5.00%	5.00%	14.18%	19.72%	18.50%	0.994
		6 8.00% 7 8.00%																		13.81%	19.80%	18.56%	0.995
	8.00%	6 8.00% 6 8.00%							8.00%										5.00%	13.44%	19.89%	18.63%	0.996
		6 8.00%																5.00%		12.69%	20.06%	18.76%	0.999
80	8.00%	8.00%	2.40%	8.00%	8.00%	2.40%	2.40%	2.40%	8.00%	2.40%	5.68%	2.40%	8.00%	2.40%	2.40%	2.40%	2.40%	5.00%	5.00%	12.32%	20.14%	18.83%	1.000
		8.00%																	5.00%		20.23%	18.89%	1.001
		6 8.00% 6 8.00%																	5.00%	11.58%	20.31%	18.96%	1.002
																				11.4170	∠∪.4∪%	19.03%	1.002
Ex-ar	nte val	ues shown	for portfo	olio returr	n and vol	atility. Ex	ante Sha	arpe Rati	o calcula	ted using	historic	al 3-mont	th treasu	ry bill retu	ırns as th	e risk-fre	ee rate (1	.33% annu	alized).				

# #	AVGO	HD	JPM	TXN	ABBV	FCPT	STOR	CTRE	NSA	0	APAM	MSM	COR	DTI	E NTAP	SAFT	IRM	JEPIX	BLOK	SCHD	Expected Re	eturn [*] Stand	dard Deviation	on [*] Sharpe	e Ratio*
84 8				8.00%								2.40%					2.40%	5.00%				0.49%	19.09		1.003
85 8		0.00,0	2.40%	8.00%	0.007			2.40%		2.40%							2.40%	5.00%).57%).66%	19.16		1.004
87 8	,	7.59%															2.40%	5.00%				0.74%	19.34		1.003
88 8	.00%	6.96%	2.40%	8.00%	7.02%	2.40%	4.41%	2.40%	8.00%	2.40%	8.00%	2.40%	8.00%	2.40%	6 2.40%	2.40%	2.40%	5.00%	5.00%	10.00%	20	0.83%	19.48	3%	1.001
89 8	.00%	6.74%	2.40%	8.00%	6.67%	2.40%	5.28%	2.40%	8.00%	2.40%	8.00%	2.40%	7.71%	2.40%	6 2.40%	2.40%	2.40%	5.00%	5.00%	10.00%	20).91%	19.62	2%	0.998
90 8	.00%	7.24%	2.40%	8.00%	6.63%	2.40%	5.63%	2.40%	8.00%	2.40%	8.00%	2.40%	6.91%	2.40%	6 2.40%	2.40%	2.40%	5.00%	5.00%	10.00%	21	1.00%	19.77	7%	0.995
91 8		7.74%						2.40%									2.40%	5.00%	5.00%			1.09%	19.92		0.992
					6.60%												2.40%	5.00%	5.00%			I.17% I.26%	20.07		0.989
94 8			2.40%														2.40%	5.00%	5.00%			1.34%	20.39		0.982
95 8	.00%	8.00%	2.40%	8.00%	6.86%	2.40%	8.00%	2.49%	8.00%	2.40%	8.00%	2.40%	3.45%	2.40%	6 2.40%	2.40%	2.40%	5.00%	5.00%	10.00%	21	1.43%	20.5	5%	0.978
96 8	.00%	8.00%	2.40%	8.00%	6.97%	2.40%	8.00%	3.26%	8.00%	2.40%	8.00%	2.40%	2.57%	2.40%	6 2.40%	2.40%	2.40%	5.00%	5.00%	10.00%	21	1.52%	20.72	2%	0.975
97 8																	2.40%		5.00%			1.60%	20.90		0.970
98 8				8.00%			8.00%	5.32% 6.47%			8.00%		2.40%			2.40% 2.40%	2.40%	5.00%	5.00%			1.69% 1.78%	21.10 21.3		0.965
100 8			8.00%					8.00%									2.40%	5.00%				1.86%	21.54		0.953
*Ex-ante	e values	s shown	for portfo	olio retu	ırn and vol	latility. Ex	ante Sh	arpe Rati	o calcula	ted usin	g historio	cal 3-mon	th treasur	ry bill re	eturns as	the risk-fre	e rate (1.3	33% annı	ualized).						
																Four							MSC		
		Movi	mum Ke	.Usz NA	laximum S	Shorno		ab US d Equity			Uama	JP	_	F awaa		Corners	et/	ODE		National	Doolby		Industrial	ComoSite	
			riterion	•	Ratio Wei	•		TF	Broad		Depot,	Morgan Chase	Instrun		AbbVie	Property Trust,	Ca _l	•		Storage Affiliates	Realty Income		Direct Company,	CoreSite Realty	y En€
Year I	nflation	n Retui	n Balar	nce F	Return B	alance	Return	Balance		ited /GO)	Inc. (HD)	& Co (JPM)	Incorpo		Inc. (ABBV)	Inc. (FCPT)	Corpora (ST		EIT, Inc. (CTRE)	(NSA)	orporation (O)	Management Inc. (APAM)	Inc. (MSM)	Corporation (COR	-
2018	-0.36%	6 -8.73°	% \$9,1	127 -1	0.29%	\$8,971 -	-9.53%	\$9,047	' 18.	18% -1	3.92%	-14.21%	-15	5.23%	-2.93%	-1.69%	0.6	60%	2.36%	-4.75%	9.20%	-31.78%	-9.36%	-23.44%	3.0
2019		6 31.849	·		9.87% \$	·		\$11,515				47.27%		0.56%	1.50%	12.17%			16.26%	32.41%	21.26%	66.53%	5.75%	34.03%	
2020	1.36% 0.43%	6 22.429 6 5.149	% \$14,7 % \$15,4		4.14% \$			\$13,251 \$13,927			24.55% -2.74%	-5.52% 16.65%			27.61%	12.43% -9.00%			13.67% -0.00%	11.73% 6.99%	-11.55% -2.31%	70.96%	25.31%	16.39% -2.85%	
			·		4.14% \$)18 to 12/3									0.0170	1.7270	-9.00%	-1.3	J970	-0.00%	0.9970	-2.3170	-3.33%	2.9970	-2.03%	-3.0
													_												
				imum	Schwab US				JP				Four Corners				Nationa	al		Artisa					Safety
		Maximu Ke		harpe Ratio	Dividend Equity				lorgan Chase	Instrur	Texas nents	AbbVie	Property Trust,		STORE Capital	CareTrust	Storage Affiliates		Realty ncome	Partner: Asse	s Direct et Company,			NetApp,	Surance Group
Year M	Month	Criterio Retu		eights leturn	ETF Return			Inc. (HD)	& Co (JPM)	Incorpo		Inc. (ABBV)	Inc. (FCPT)	-	oration (STOR)	REIT, Inc. (CTRE)	Trus (NSA	•	oration (O)	Managemen Inc. (APAM		Corporation (COR)		Inc. (NTAP)	Inc. (SAFT)
2018	9	-1.02	% -C	0.75%	1.25%	•	-	3.18% -	-1.52%	-4	1.55%	-1.46%	-3.60%		-2.38%	-2.87%	-9.34%	% -	2.49%	-2.26%				-1.06%	-7.34%
2018	10	-5.75	% -8	3.48%	-5.91%	-9.42	2% -15	5.10% -	-2.71%	-12	2.76% -	16.82%	1.52%		4.46%	-0.28%	4.68%	%	6.33%	-15.40%	6 -8.00%	-15.55%	3.00%	-8.18%	-7.05%
2018	11	4.90	% 5	5.43%	3.37%	6.23	3% 3	3.12%	1.99%	7	7.56%	21.09%	6.37%		3.20%	13.36%	5.03%	%	6.70%	1.62%			6.53%	-14.80%	6.41%
2018	12	-6.73		6.33%	-8.13%			1.71% -1				-2.21%	-5.55%		-4.42%	-6.77%			1.29%	-18.80%				-10.77%	-6.84%
2019	2	8.55 3.41		6.77% 3.40%	6.05% 4.06%	5.49 2.69			6.90% 0.83%		7.34% <i>-</i> 5.07%	-1.31%	9.01%		14.16% 0.46%	19.07%	9.98%		9.32%	20.14%			6.75% 4.93%	7.61% 2.24%	9.51%
2019	3	2.26		2.53%	1.55%				-3.00%		0.27%	1.70%	9.12%		4.19%	6.02%	1.749		6.69%	-4.30%				6.35%	-2.46%
2019	4	4.70	% 4	1.13%	3.21%	5.88	8% 6	6.15% 1	5.51%	1-	1.09%	-0.18%	-3.92%		-0.54%	3.37%	2.63%	% -	4.52%	12.59%	6 1.88%	2.23%	0.78%	5.65%	6.63%
2019	5	-6.12		5.99%	-7.60%				-8.69%			-3.38%	1.13%		2.70%	0.25%	1.81%		0.42%	-14.749				-18.74%	-1.07%
2019	6	5.08 1.99		5.21% 0.95%	7.29% 1.66%				5.51% 4.49%			-5.20% -6.99%	-3.96% -1.43%		-2.05% 3.07%	-1.25% -2.31%	-1.81% 4.66%		0.68%	16.36% 7.52%				4.22% -4.47%	4.39% 3.71%
2019	8	0.57		1.06%	-1.30%				-5.29%			-1.32%	5.75%		10.38%	2.41%			6.97%	-7.86%				-17.83%	-1.34%
2019	9	3.13		1.06%	3.79%				7.13%			15.18%	0.27%		0.00%	-0.25%	0.72%		4.20%	6.01%				9.26%	5.07%
2019	10	1.77	% C	0.98%	1.35%	6.08	8% 1	1.10%	6.99%	-8	3.01%	6.58%	1.31%		8.26%	3.13%	2.40%	%	6.96%	-3.15%	% 0.94%	-3.57%	-4.24%	7.41%	-4.08%
2019	11	1.42		1.90%	2.83%				5.48%			10.28%	-1.15%		0.52%	-13.86%			6.03%	10.95%				8.43%	1.39%
2019	12	1.84 0.25		0.12%	2.28%				5.80%		5.72% 5.27%	0.92% -7.27%	-0.46% 8.65%		-7.66% 5.40%	-0.11% 7.51%			3.62% 6.81%	8.93% 3.34%				2.74%	-5.24% -0.49%
2020	2			7.17%	-9.35%			1.50% -1			5.40%	5.79%	-5.28%		16.28%	-5.91%			7.38%	-11.419					-13.51%
2020	3	-17.80	% -13	3.18%	-11.89%	-11.50	6% -13	3.69% -2	22.46%	-12	2.45% -	11.11%	-33.70%	-4	43.82%	-28.00%	-11.30%	% -3	0.80%	-24.81%	6 -11.08%	12.92%	-14.06%	-10.77%	7.23%
2020	4	12.05		2.14%	12.61%		6% 17		7.50%		6.15%	9.44%	19.67%		10.76%	11.43%			0.62%	36.99%				6.26%	-0.37%
2020	5 6	4.23		5.22% 3.71%	3.69%				1.62%			12.74%	-3.44%		-3.64% 24.91%	13.05%	5.37%		1.13%	0.629				1.76% -0.38%	-8.30%
2020	7	4.26 4.37		3.71% 1.48%	-0.61% 5.29%				3.74%		3.93% 1.16%	5.95% -2.18%	14.28% 3.28%		-0.50%	-6.55% 5.01%			8.00% 1.32%	12.19% 11.48%				0.98%	-0.77%
2020	8	6.93		5.69%	5.12%				3.67%			0.91%			14.14%		11.32%		3.69%	8.74%			2.63%	6.98%	-3.13%
2020	9	-1.77	% -2	2.03%	-2.48%	5.92	2% -2	2.06% -	-3.91%	().45%	-8.54%	2.55%		2.78%	-6.83%	-3.74%	% -	1.69%	0.72%	6 -3.98%	-1.93%	-2.18%	-7.49%	-4.57%
2020	10	-0.04		0.09%	0.38%				2.76%			-1.51%	-0.98%		-6.31%	-3.91%	3.61%		4.37%	2.74%			7.28%	1.15%	1.32%
2020	11	13.40 7.34		1.80% 5.70%	13.17%				7.80%			22.89%	7.42%		26.69%	13.63%	7 12%		4.05%	14.45%				21.46%	3.07%
2020	12	7.34 -0.19		5.70% 0.45%	3.06%				7.80% 1.98%		1.79% 1.57%	2.46% -3.24%	7.42%		5.47% -8.71%	15.44%	7.129 1.429		4.06%	11.87% -3.85%				1.04%	9.33%
2021	2	5.34		3.67%	6.06%				4.38%		3.97%	5.13%	2.77%		7.80%	-1.25%	5.50%		2.43%	0.54%				-5.78%	7.68%
N# *										2.4	lno 17	alle O ···	do-				Marin	m CI	Deri ·	Noight-		_	obve-t- 110 -	Nivides T	i+,
Metric Arithme		ean (mon	thlv)							Max	iiiium Ke	elly Criter	rion 66%				Maximun	ıı ənarpe	natio V	Veights 1.58%		S	ociiwad US [Dividend Equ	1.27%
		ean (annı										21.8								20.66%					16.36%
		ean (mon											7%							1.43%					1.11%
Geome	tric Me	ean (ann	ualized)									19.1	2%						•	18.53%					14.17%
Volatilit	ty (mon	nthly)										6.2	2%							5.55%					5.76%
* Schwe	ab U.S. F)jvidend	Eguity FT	[F is ue	ed as the	benchma	rk for ca	llculations	s. Value-a	at-risk m	etrics ar	e based o	n monthly	v value	s.										
	UU L		_⊣ுவாழ ட் I	uS	Ja us lile		101 00		valu c -c	110N II	os ait	. Juo c u U		, value	٠.										

Metric	Maximum Kelly Criterion	Maximum Sharpe Ratio Weights	Schwab US Dividend Equity ETF
Volatility (annualized)	21.54%	19.23%	19.95%
Downside Deviation (monthly)	4.12%	3.55%	3.65%
Max. Drawdown	-24.81%	-19.51%	-21.54%
US Market Correlation	0.96	0.97	0.97
Beta ^(*)	1.02	0.92	1.00
Alpha (annualized)	4.33%	4.85%	0.00%
R ²	89.71%	91.67%	100.00%
Sharpe Ratio	0.86	0.91	0.70
Sortino Ratio	1.29	1.41	1.08
Treynor Ratio (%)	18.20	19.07	13.93
Active Return	4.96%	4.36%	N/A
Tracking Error	6.93%	5.76%	N/A
Information Ratio	0.72	0.76	N/A
Skewness	-0.98	-0.68	-0.33
Excess Kurtosis	2.38	0.96	0.50
Historical Value-at-Risk (5%)	-7.72%	-7.89%	-8.80%
Analytical Value-at-Risk (5%)	-8.40%	-7.40%	-8.20%
Conditional Value-at-Risk (5%)	-13.16%	-10.83%	-10.62%
Upside Capture Ratio (%)	104.59	96.53	100.00
Downside Capture Ratio (%)	87.13	78.97	100.00
Safe Withdrawal Rate	37.88%	37.19%	36.15%
Perpetual Withdrawal Rate	12.50%	12.14%	9.35%
Positive Periods	21 out of 30 (70.00%)	22 out of 30 (73.33%)	20 out of 30 (66.67%)
Gain/Loss Ratio	0.87	0.75	0.88
*Schwab US Dividend Equity ETF is used as the benchmark for cal	lculations. Value-at-risk metrics are based on mon	thly values.	



End

Drawdowns

Rank Start

Drawdowns for Maximum Kelly Criterion

-10.0%

1 Feb 2020	Mar 2020	2 months	Aug 2020	5 months	7 months	-24.81%
2 Sep 2018	Dec 2018	4 months	Feb 2019	2 months	6 months	-8.73%
3 May 2019	May 2019	1 month	Jul 2019	2 months	3 months	-6.12%
4 Sep 2020	Oct 2020	2 months	Nov 2020	1 month	3 months	-1.81%
5 Jan 2021	Jan 2021	1 month	Feb 2021	1 month	2 months	-0.19%
Drawdowna for Maxim	um Charna Datia Wais	ula ta				

Recovery Time

Underwater Period

6 months

3 months

3 months

2 months

2 months

Sharpe Ratio

1.28

0.57

0.55

0.85

Sortino Ratio

2.09

0.90

0.83

1.39

Max. Drawdown

-23.70%

-19.34%

-35.00%

-21.54%

Recovery By

Mar 2019

Jul 2019

Nov 2020

Sep 2019

Feb 2021

Stdev

29.64%

24.51%

30.09%

25.92%

Best Year

44.91%

30.54%

47.27%

39.56%

Drawdown

-10.65%

-7.60%

-2.48%

-1.30%

-0.90%

0.71

0.76

0.83

0.82

US Mkt Correlation

5 Jan 2021	Jan 2021	1 month	Feb 2021	1 month	2 months	-0.19%
Drawdowns for Maximum S	Sharpe Ratio Weigh	ts				
Rank Start	End	Length	Recovery By	Recovery Time	Underwater Period	Drawdown
1 Jan 2020	Mar 2020	3 months	Jul 2020	4 months	7 months	-19.51%
2 Sep 2018	Dec 2018	4 months	Mar 2019	3 months	7 months	-10.29%
		_				

2 Sep 2018	Dec 2018	4 months	Mar 2019	3 months	7 months	-10.29%
3 May 2019	May 2019	1 month	Aug 2019	3 months	4 months	-5.99%
4 Sep 2020	Sep 2020	1 month	Nov 2020	2 months	3 months	-2.03%
Drawdowns for Schwab US	Dividend Equity ETF	F				
Rank Start	End	Length	Recovery By	Recovery Time	Underwater Period	Drawdown
1 Jan 2020	Mar 2020	3 months	Aug 2020	5 months	8 months	-21.54%

3 months

2 months

2 months

1 month

1 month

Worst Year

7.31%

-13.92%

-14.21%

-15.23%

6 Jan 2021 Jan 2021

3 May 2019	May 2019
4 Sep 2020	Sep 2020
5 Aug 2019	Aug 2019

Dec 2018 May 2019

3 months 1 month

1 month

1 month

1 month

CAGR

41.29%

13.13%

14.16%

22.06%

Length

Portfolio Assets

2 Oct 2018

Portione	Asseis
Ticker	Name
AVGO	Broadc

HD

JPM

TXN

Broadcom Limited
Home Depot, Inc.

Н	lor	n
J	Р	١

Home Depot, Inc.
J P Morgan Chase

Н	or	ne
J	Р	N

ABBV	AbbVie Inc.	10.34%	31.83%	27.61%	-2.93%	-27.90%	0.42	0.74	0.46
FCPT	Four Corners Property Trust, Inc.	4.94%	31.99%	12.43%	-9.00%	-37.20%	0.28	0.38	0.62
STOR	STORE Capital Corporation	11.31%	43.28%	36.70%	-3.42%	-54.22%	0.46	0.64	0.64
CTRE	CareTrust REIT, Inc.	12.84%	32.71%	16.26%	-0.00%	-37.32%	0.50	0.74	0.69
NSA	National Storage Affiliates Trust	17.85%	18.57%	32.41%	-4.75%	-15.68%	0.91	1.54	0.35
0	Realty Income Corporation	5.53%	26.67%	21.26%	-11.55%	-38.00%	0.30	0.37	0.56
APAM	Artisan Partners Asset Management Inc.	28.66%	43.93%	70.96%	-31.78%	-33.38%	0.76	1.28	0.87
MSM	MSC Industrial Direct Company, Inc.	8.88%	32.01%	25.31%	-9.36%	-30.48%	0.38	0.63	0.73
COR	CoreSite Realty Corporation	6.13%	24.69%	34.03%	-23.44%	-23.44%	0.31	0.45	0.21
DTE	DTE Energy Company	5.82%	19.53%	21.36%	-3.04%	-27.63%	0.32	0.42	0.67
NTAP	NetApp, Inc.	-9.30%	36.11%	10.90%	-30.94%	-49.92%	-0.13	-0.18	0.69
SAFT	Safety Insurance Group, Inc.	-4.23%	19.98%	17.26%	-14.63%	-28.70%	-0.18	-0.25	0.28
IRM	Iron Mountain Incorporated	6.46%	26.85%	18.01%	-7.15%	-29.60%	0.32	0.46	0.62
JEPIX	JPMorgan Equity Premium Income I	7.00%	14.39%	21.08%	-6.98%	-18.33%	0.45	0.61	0.94
BLOK	Amplify Transformational Data Shrg ETF	46.93%	35.16%	90.15%	-26.62%	-26.62%	1.23	2.78	0.78
SCHD	Schwab US Dividend Equity ETF	14.17%	19.95%	27.28%	-9.53%	-21.54%	0.70	1.08	0.97

Monthly Correlations

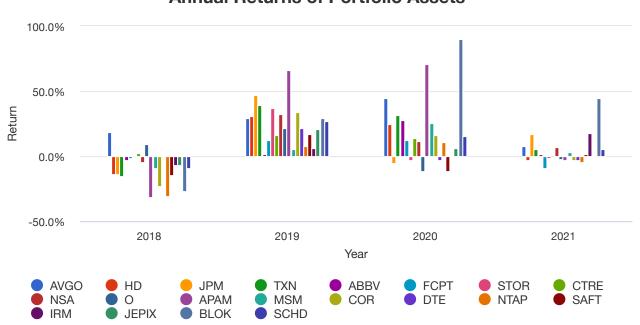
Ticker	Name	AVGO	HD	JPM	TXN	ABBV	FCPT	STOR	CTRE	NSA	0 /	APAM	MSM	COR	DTE	NTAP	SAFT	IRM	JEPIX	BLOK	SCHD	Maximum Kelly Criterion	Maximum Sharpe Ratio Weights	Schwab US Dividend Equity ETF
AVGO	Broadcom Limited	1.00	0.60	0.55	0.65	0.39	0.39	0.47	0.37	-0.05	0.36	0.61	0.59	-0.05	0.30	0.63	0.12	0.44	0.63	0.49	0.71	0.70	0.72	0.71
HD	Home Depot, Inc.	0.60	1.00	0.44	0.70	0.34	0.47	0.42	0.62	0.25	0.50	0.66	0.47	0.35	0.55	0.30	-0.01	0.57	0.77	0.44	0.70	0.71	0.78	0.70
JPM	J P Morgan Chase & Co	0.55	0.44	1.00	0.70	0.44	0.48	0.59	0.57	0.41	0.46	0.70	0.73	-0.02	0.55	0.69	0.37	0.46	0.78	0.75	0.87	0.86	0.81	0.87
TXN	Texas Instruments Incorporated	0.65	0.70	0.70	1.00	0.43	0.44	0.47	0.46	0.25	0.35	0.84	0.67	0.13	0.55	0.52	0.36	0.47	0.74	0.61	0.82	0.82	0.86	0.82
ABBV	AbbVie Inc.	0.39	0.34	0.44	0.43	1.00	0.33	0.31	0.31	0.02	0.25	0.36	0.63	0.06	0.14	0.35	0.13	0.40	0.41	0.36	0.49	0.49	0.56	0.49
FCPT	Four Corners Property Trust, Inc.	0.39	0.47	0.48	0.44	0.33	1.00	0.87	0.68	0.39	0.90	0.56	0.41	-0.02	0.61	0.26	0.01	0.49	0.66	0.45	0.57	0.73	0.67	0.57
STOR	STORE Capital Corporation	0.47	0.42	0.59	0.47	0.31	0.87	1.00	0.63	0.44	0.87	0.50	0.45	-0.08	0.54	0.34	0.07	0.51	0.65	0.50	0.60	0.76	0.67	0.60
CTRE	CareTrust REIT, Inc.	0.37	0.62	0.57	0.46	0.31	0.68	0.63	1.00	0.64	0.76	0.46	0.48	0.23	0.62	0.39	0.05	0.71	0.76	0.52	0.63	0.77	0.72	0.63
NSA	National Storage Affiliates Trust	-0.05	0.25	0.41	0.25	0.02	0.39	0.44	0.64	1.00	0.53	0.11	0.15	0.06	0.45	0.11	0.06	0.59	0.42	0.35	0.30	0.45	0.37	0.30
0	Realty Income Corporation	0.36	0.50	0.46	0.35	0.25	0.90	0.87	0.76	0.53	1.00	0.43	0.33	-0.07	0.63	0.19	-0.05	0.59	0.63	0.36	0.52	0.69	0.61	0.52
APAM	Artisan Partners Asset Management Inc.	0.61	0.66	0.70	0.84	0.36	0.56	0.50	0.46	0.11	0.43	1.00	0.58	0.12	0.62	0.60	0.38	0.36	0.79	0.65	0.85	0.83	0.86	0.85
MSM	MSC Industrial Direct Company, Inc.	0.59	0.47	0.73	0.67	0.63	0.41	0.45	0.48	0.15	0.33	0.58	1.00	0.12	0.50	0.58	0.28	0.42	0.68	0.59	0.79	0.74	0.76	0.79
COR	CoreSite Realty Corporation	-0.05	0.35	-0.02	0.13	0.06	-0.02	-0.08	0.23	0.06	-0.07	0.12	0.12	1.00	0.28	0.10	0.34	0.30	0.30	0.10	0.19	0.15	0.26	0.19
DTE	DTE Energy Company	0.30	0.55	0.55	0.55	0.14	0.61	0.54	0.62	0.45	0.63	0.62	0.50	0.28	1.00	0.25	0.23	0.46	0.79	0.38	0.69	0.70	0.68	0.69
NTAP	NetApp, Inc.	0.63	0.30	0.69	0.52	0.35	0.26	0.34	0.39	0.11	0.19	0.60	0.58	0.10	0.25	1.00	0.28	0.35	0.57	0.58	0.68	0.65	0.65	0.68
SAFT	Safety Insurance Group, Inc.	0.12	-0.01	0.37	0.36	0.13	0.01	0.07	0.05	0.06	-0.05	0.38	0.28	0.34	0.23	0.28	1.00	0.00	0.29	0.35	0.36	0.30	0.33	0.36
IRM	Iron Mountain Incorporated	0.44	0.57	0.46	0.47	0.40	0.49	0.51	0.71	0.59	0.59	0.36	0.42	0.30	0.46	0.35	0.00	1.00	0.64	0.57	0.56	0.68	0.68	0.56
JEPIX	JPMorgan Equity Premium Income I	0.63	0.77	0.78	0.74	0.41	0.66	0.65	0.76	0.42	0.63	0.79	0.68	0.30	0.79	0.57	0.29	0.64	1.00	0.68	0.93	0.93	0.94	0.93
BLOK	Amplify Transformational Data Shrg ETF	0.49	0.44	0.75	0.61	0.36	0.45	0.50	0.52	0.35	0.36	0.65	0.59	0.10	0.38	0.58	0.35	0.57	0.68	1.00	0.78	0.78	0.76	0.78
SCHD	Schwab US Dividend Equity ETF	0.71	0.70	0.87	0.82	0.49	0.57	0.60	0.63	0.30	0.52	0.85	0.79	0.19	0.69	0.68	0.36	0.56	0.93	0.78	1.00	0.95	0.96	1.00

Portfolio Risk Decomposition

Portiolio Ri	sk Decomposition		
Ticker	Name	Maximum Kelly Criterion	Maximum Sharpe Ratio Weights
AVGO	Broadcom Limited	7.70%	8.82%
HD	Home Depot, Inc.	1.95%	7.91%
JPM	J P Morgan Chase & Co	9.58%	3.06%
TXN	Texas Instruments Incorporated	7.94%	9.25%
ABBV	AbbVie Inc.	1.74%	7.44%
FCPT	Four Corners Property Trust, Inc.	2.61%	2.66%
STOR	STORE Capital Corporation	12.29%	3.63%
CTRE	CareTrust REIT, Inc.	9.31%	2.95%
NSA	National Storage Affiliates Trust	3.08%	2.88%
0	Realty Income Corporation	2.06%	2.03%
APAM	Artisan Partners Asset Management Inc.	13.61%	15.45%
MSM	MSC Industrial Direct Company, Inc.	2.64%	3.05%
COR	CoreSite Realty Corporation	0.40%	2.64%
DTE	DTE Energy Company	1.52%	1.66%
NTAP	NetApp, Inc.	2.63%	2.94%
SAFT	Safety Insurance Group, Inc.	0.68%	0.83%
IRM	Iron Mountain Incorporated	2.02%	2.29%
JEPIX	JPMorgan Equity Premium Income I	3.12%	3.50%
BLOK	Amplify Transformational Data Shrg ETF	6.34%	6.99%
SCHD	Schwab US Dividend Equity ETF	8.77%	10.02%

Annual Asset Returns

Annual Returns of Portfolio Assets



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