

Monthly WRAP Fund Report

Prepared January 12, 2018

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Paterson & Associates - Monthly WRAP Fund Report

December 2017

			Average Monthly Return	Monthly Standard Deviation	Sharpe Ratio	Alpha	Beta	Correlations				Returns				
Name		Rating						TSX	S&P 500	MSCI EAFE	Cdn. Universe Bond	3 Month	1 Year	3 Year	5 Year	MER
Conservative Portfolios		Typical Asset Mix: 70% - 90% Fixed Income / 10% - 30% Equity														
1	Marquis Balanced Income Portfolio	B	0.51%	1.21%	0.37	0.18%	0.90	0.6517	0.7390	0.7972	0.5700	1.9%	6.4%	4.9%	6.2%	2.37
2	RBC Strategic Monthly Income Bond	B	0.49%	1.19%	0.36	0.19%	1.00	0.3366	0.6531	0.7376	0.7803	0.9%	3.6%	4.9%	N/A	1.83
3	Scotia Partners Balanced Income Portfolio	B	0.43%	1.05%	0.35	0.12%	0.87	0.5175	0.7511	0.7893	0.7515	1.8%	4.3%	3.9%	5.3%	2.14
4	Scotia Select Balanced Income	B	0.44%	1.09%	0.35	0.12%	0.87	0.4819	0.7805	0.8177	0.7440	1.9%	4.5%	3.8%	5.4%	1.88
5	Meritage Moderate Portfolio	B	0.43%	1.10%	0.34	0.11%	0.89	0.5681	0.7722	0.8257	0.7029	2.2%	4.7%	4.0%	5.3%	2.16
6	Manulife Simplicity Moderate Portfolio	B	0.48%	1.28%	0.33	0.11%	1.01	0.5561	0.8028	0.8634	0.6887	2.6%	6.1%	4.6%	5.9%	2.09
7	CIBC Managed Income Plus Portfolio	B	0.41%	1.10%	0.31	0.09%	0.85	0.4873	0.8200	0.8740	0.7060	2.1%	4.3%	3.6%	4.9%	2.19
8	DynamicEdge Conservative Class Portfolio	C	0.44%	1.14%	0.33	0.04%	0.74	0.4803	0.8062	0.8504	0.6185	1.9%	6.8%	4.1%	5.3%	2.01
9	SEI Conservative Monthly Income Class S	C	0.38%	1.01%	0.31	0.06%	0.87	0.5428	0.7144	0.7707	0.7957	2.0%	3.4%	3.3%	4.6%	1.70
10	RBC Select Very Conservative Portfolio	C	0.36%	0.97%	0.31	0.06%	0.81	0.4847	0.7501	0.7927	0.7965	1.9%	4.0%	3.4%	4.4%	1.68
11	Empire Life Emblem Conservative Portfolio	C	0.40%	1.09%	0.31	0.08%	0.87	0.5568	0.8029	0.8127	0.6964	2.3%	3.5%	2.6%	4.8%	2.05
12	RBC Managed Payout Solution	C	0.35%	0.95%	0.30	0.06%	0.78	0.7467	0.6408	0.6870	0.6066	2.0%	3.8%	3.4%	4.2%	1.62
13	TD Mgd Income Portfolio	C	0.40%	1.13%	0.30	0.07%	0.90	0.4256	0.8154	0.8291	0.7795	2.4%	3.7%	3.1%	4.8%	1.89
14	Symmetry Conservative Income Portfolio	C	0.34%	0.94%	0.30	0.05%	0.80	0.4866	0.7050	0.7551	0.8105	2.4%	4.4%	3.6%	4.1%	1.85
15	Meritas Income & Growth Portfolio	C	0.37%	1.04%	0.30	0.06%	0.84	0.5047	0.7969	0.8049	0.7485	2.3%	3.2%	3.3%	4.5%	2.05
16	Scotia Selected Income Portfolio	C	0.36%	1.03%	0.29	0.05%	0.85	0.4338	0.6831	0.7484	0.8106	1.5%	3.3%	2.9%	4.4%	1.77
17	Meritage Moderate Income Portfolio	C	0.36%	1.05%	0.29	0.04%	0.87	0.6072	0.6784	0.7634	0.7101	2.3%	4.8%	3.8%	4.4%	2.14
18	Desjardins Chorus II Balanced Income Fund	C	0.43%	1.29%	0.29	0.04%	1.07	0.5260	0.7388	0.8407	0.7532	2.8%	5.6%	4.0%	5.2%	1.81
19	Fidelity Income Portfolio	C	0.46%	1.39%	0.29	0.06%	1.07	0.3414	0.7677	0.8075	0.8042	2.6%	3.4%	3.8%	5.5%	2.37
20	Desjardins Chorus II Balanced Income Corp. Class	C	0.41%	1.27%	0.28	0.04%	1.01	0.6164	0.7443	0.8394	0.6515	2.9%	6.4%	3.9%	5.0%	1.85
21	TD Advantage Balanced Income Portfolio	C	0.38%	1.18%	0.27	0.02%	0.98	0.4365	0.7602	0.7844	0.8155	2.5%	3.3%	2.8%	4.6%	1.97
22	DynamicEdge Defensive Portfolio	C	0.29%	0.87%	0.27	0.05%	0.67	0.4709	0.7331	0.8005	0.7181	1.3%	4.1%	2.6%	3.5%	1.96
23	National Bank Conservative Strategy Portfolio	C	0.31%	0.95%	0.27	0.02%	0.78	0.6036	0.7219	0.8109	0.7031	2.3%	5.0%	3.1%	3.8%	1.75
24	CIBC Managed Income Portfolio	C	0.29%	0.89%	0.26	0.02%	0.73	0.3908	0.7417	0.8110	0.8288	1.5%	2.8%	2.6%	3.5%	1.80
25	Quadrus Moderate Folio	C	0.36%	1.17%	0.25	0.01%	0.96	0.6349	0.7727	0.8263	0.6773	2.6%	3.4%	2.8%	4.3%	2.36
26	Desjardins Chorus II Conservative Corp. Class	C	0.33%	1.11%	0.24	0.00%	0.90	0.5910	0.7067	0.8117	0.6949	2.5%	5.8%	3.2%	4.0%	1.77
27	National Bank Income Managed Portfolio	C	0.29%	1.03%	0.22	0.02%	0.72	0.7932	0.6167	0.6964	0.4182	1.7%	4.4%	2.4%	3.5%	0.00
28	Symmetry Conservative Portfolio	D	0.42%	1.08%	0.33	0.02%	0.74	0.5571	0.8061	0.8251	0.6913	2.7%	4.9%	3.8%	5.1%	2.16
29	Scotia Partners Income Portfolio	D	0.37%	0.94%	0.33	0.03%	0.64	0.5115	0.6623	0.7481	0.7710	1.4%	3.7%	3.4%	4.5%	2.04
30	CI Portfolio Series Income Fund Class A	D	0.46%	1.21%	0.33	-0.01%	0.86	0.3323	0.7932	0.8393	0.7684	2.0%	3.7%	3.9%	5.5%	2.01
31	Sun Life Granite Conservative Portfolio Series A	D	0.43%	1.17%	0.31	-0.02%	0.84	0.4195	0.7838	0.8444	0.7676	2.2%	4.8%	3.7%	5.2%	0.00
32	TD Comfort Balanced Income Portfolio	D	0.36%	1.05%	0.28	-0.10%	0.49	0.6198	0.7542	0.7935	0.7077	2.5%	2.9%	2.9%	4.3%	1.75
33	Counsel Conservative Portfolio	D	0.42%	1.30%	0.27	-0.07%	0.92	0.4423	0.8031	0.8652	0.7242	2.1%	5.4%	3.7%	5.1%	2.79
34	Renaissance Optimal Income Portfolio	D	0.41%	1.29%	0.27	0.01%	1.11	0.5773	0.6460	0.7699	0.7614	1.1%	3.4%	3.5%	5.0%	1.98
35	Scotia INNOVA Income Portfolio	D	0.31%	0.94%	0.27	0.02%	0.79	0.4041	0.6830	0.7317	0.8539	1.7%	2.8%	2.5%	3.8%	1.85
36	Renaissance Optimal Conservative Income Portfolio	D	0.33%	1.03%	0.26	0.00%	0.89	0.4006	0.6713	0.7299	0.8824	1.2%	1.8%	2.8%	N/A	1.62
37	Desjardins Chorus II Conservative Fund	D	0.36%	1.13%	0.26	0.00%	0.96	0.4820	0.6972	0.8062	0.8129	2.4%	4.6%	3.3%	4.3%	1.73
38	SEI Income 20/80 Class S	D	0.31%	0.97%	0.26	-0.01%	0.85	0.4582	0.6591	0.7421	0.8717	1.9%	3.0%	2.7%	3.7%	1.44
39	Meritage Conservative Portfolio	D	0.30%	0.99%	0.24	0.00%	0.83	0.4414	0.6897	0.7795	0.8273	1.8%	3.3%	3.0%	3.6%	2.15
40	Manulife Simplicity Conservative Portfolio	D	0.33%	1.10%	0.24	-0.02%	0.95	0.4298	0.6818	0.7635	0.8636	2.0%	3.9%	3.1%	3.9%	1.90
41	BMO Select Trust Income Portfolio	D	0.34%	1.17%	0.24	-0.01%	0.96	0.3862	0.7446	0.7877	0.8278	2.5%	3.8%	3.3%	4.1%	1.88

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							TSX	S&P 500	MSCI EAFE	Cdn. Universe Bond	3 Month	1 Year	3 Year	5 Year	MER
42 SEI Income 20/80 Class P	D	0.28%	0.97%	0.22	-0.04%	0.85	0.4605	0.6555	0.7409	0.8711	2.1%	2.8%	2.3%	3.3%	0.00
43 TD Comfort Conservative Income	D	0.25%	0.87%	0.22	-0.03%	0.76	0.5045	0.6648	0.7304	0.8379	1.8%	1.6%	2.0%	3.1%	1.53
44 National Bank Conservative Diversified	D	0.26%	0.93%	0.21	-0.04%	0.81	0.4691	0.6777	0.7474	0.8400	2.7%	4.1%	2.3%	3.1%	1.91
45 National Bank Stable Income Managed Portfolio	D	0.14%	0.67%	0.11	-0.04%	0.48	0.6419	0.4428	0.5831	0.5459	1.5%	3.6%	1.5%	1.6%	0.00
46 TD Target Return Conservative Fund	D	0.08%	1.11%	0.02	-0.08%	0.30	0.7243	0.2833	0.4185	0.2333	2.2%	1.0%	1.0%	N/A	1.71
47 TD Mgd Index Income Portfolio	F	0.43%	1.26%	0.29	-0.07%	0.93	0.4252	0.7422	0.8060	0.8439	2.7%	4.1%	3.7%	5.2%	1.49
48 Fidelity Global Income Portfolio	F	0.53%	1.65%	0.28	-0.10%	1.18	0.2376	0.7805	0.8145	0.7809	2.9%	4.5%	4.8%	6.4%	2.37
49 BMO FundSelect Income Portfolio Series A	F	0.32%	1.07%	0.25	-0.09%	0.77	0.4126	0.7655	0.8036	0.8119	2.1%	3.8%	2.7%	3.9%	2.42
50 AGF Elements Yield Portfolio	F	0.38%	1.34%	0.24	-0.11%	0.91	0.3868	0.7274	0.8009	0.7451	2.0%	4.0%	4.2%	4.6%	2.01
51 Desjardins Melodia Conservative Income Portfolio	F	0.32%	1.10%	0.23	-0.11%	0.80	0.4995	0.6924	0.7592	0.8491	1.9%	3.4%	2.9%	N/A	1.97
52 BMO SelectClass Income Portfolio Series A	F	0.32%	1.19%	0.22	-0.15%	0.86	0.4124	0.7576	0.7945	0.8116	2.4%	3.2%	2.4%	3.8%	2.33
53 Empire Life Emblem Diversified Income Portfolio	F	0.28%	1.02%	0.21	-0.03%	0.84	0.3271	0.7748	0.7721	0.8876	1.9%	3.0%	2.3%	N/A	1.90
54 Desjardins Melodia Very Conservative Income Port	F	0.27%	1.01%	0.20	-0.13%	0.74	0.4285	0.6536	0.7147	0.9017	1.6%	2.7%	2.3%	N/A	1.91
55 Quadrus Conservative Folio	F	0.27%	1.04%	0.20	-0.07%	0.91	0.5303	0.6858	0.7649	0.8185	2.2%	2.4%	2.2%	3.2%	2.24
56 Invesco Intactive Diversified Income Portfolio	F	0.29%	1.22%	0.19	-0.14%	0.80	0.6075	0.5834	0.7061	0.7851	3.6%	5.0%	3.1%	3.5%	1.98
57 BMO Income ETF Portfolio Advisor Class	F	0.29%	1.21%	0.19	-0.09%	1.03	0.4393	0.6800	0.7530	0.8372	2.1%	2.5%	2.8%	3.4%	1.67
58 Meritage Conservative Income Portfolio	F	0.23%	0.91%	0.18	-0.06%	0.79	0.4782	0.5760	0.6765	0.8434	1.7%	2.9%	2.5%	2.7%	2.10
59 Franklin Quotential Diversified Income Portfolio T	F	0.25%	1.27%	0.15	-0.20%	0.84	0.3707	0.6759	0.7753	0.7388	1.7%	3.5%	2.7%	3.0%	1.96
60 SEI Income 100 Class S	F	0.15%	0.87%	0.10	-0.13%	0.91	0.1863	0.4009	0.4939	0.9844	1.2%	1.1%	1.3%	1.8%	1.44
61 Counsel Managed Yield Portfolio	F	0.16%	1.16%	0.08	-0.20%	0.97	0.5369	0.5132	0.6480	0.7598	1.4%	0.6%	1.7%	1.8%	2.64
62 SEI Income 100 Class P	F	0.12%	0.86%	0.07	-0.07%	0.73	0.1903	0.3885	0.4871	0.9802	1.8%	1.3%	1.0%	1.4%	0.00
Category Average		0.34%	1.09%	0.26	-0.01%	0.85	0.4840	0.6970	0.7639	0.7616	2.1%	3.7%	3.1%	4.2%	1.81

Balanced Portfolios

Typical Asset Mix: 40% - 60% Fixed Income / 40% - 60% Equity

1 PH&N Balanced Fund Series D	A	0.77%	1.53%	0.46	0.31%	0.86	0.6846	0.7964	0.8622	0.5568	4.2%	9.8%	7.5%	9.4%	0.88
2 Scotia Partners Balanced Growth Portfolio	A	0.61%	1.40%	0.39	0.28%	0.56	0.5990	0.8425	0.8464	0.5654	3.0%	7.3%	5.3%	7.5%	2.24
3 Empire Life Emblem Moderate Growth Portfolio	A	0.62%	1.45%	0.38	0.24%	0.63	0.6995	0.8237	0.8008	0.3971	2.8%	5.0%	4.6%	7.5%	2.35
4 Manulife Strategic Balanced Yield Portfolio	B	0.93%	1.82%	0.48	0.29%	0.68	0.5170	0.8260	0.6296	0.1769	2.6%	9.5%	8.2%	11.6%	2.25
5 Meritage Growth Income Portfolio	B	0.58%	1.32%	0.39	0.18%	0.75	0.7431	0.7471	0.7795	0.4339	2.9%	7.0%	5.5%	7.0%	2.39
6 Meritas Growth & Income Portfolio	B	0.61%	1.45%	0.38	0.24%	0.71	0.5912	0.8725	0.8513	0.5032	3.4%	5.8%	5.6%	7.5%	2.41
7 Meritage Growth Portfolio	B	0.61%	1.52%	0.36	0.17%	0.84	0.7091	0.8025	0.8295	0.4438	2.9%	6.5%	5.4%	7.5%	2.44
8 Empire Life Emblem Balanced Portfolio	B	0.50%	1.25%	0.35	0.15%	0.66	0.6314	0.8297	0.8249	0.5556	2.6%	4.4%	3.5%	6.1%	2.25
9 Meritage Balanced Income Portfolio	B	0.46%	1.15%	0.34	0.11%	0.65	0.6804	0.7304	0.7794	0.5832	2.5%	5.6%	4.5%	5.5%	2.39
10 RBC Select Choices Conservative Portfolio	B	0.45%	1.13%	0.34	0.11%	0.90	0.5984	0.8022	0.8348	0.6731	2.5%	4.7%	3.7%	5.4%	1.95
11 National Bank Moderate Strategic Portfolio	B	0.50%	1.29%	0.34	0.13%	0.99	0.6045	0.8022	0.8574	0.6280	3.0%	6.9%	4.5%	6.0%	2.07
12 SEI Income 40/60 Class S	B	0.48%	1.23%	0.34	0.11%	1.00	0.5684	0.7996	0.8538	0.7040	2.7%	5.2%	4.2%	5.8%	1.63
13 SEI Income 40/60 Class S	B	0.48%	1.23%	0.34	0.11%	1.00	0.5685	0.7996	0.8538	0.7039	2.7%	5.2%	4.2%	5.8%	1.63
14 SEI Balanced Fund Class P	B	0.48%	1.39%	0.30	0.08%	0.74	0.6129	0.8083	0.8647	0.6494	2.7%	5.1%	3.8%	5.8%	0.00
15 National Bank Income and Growth Managed Portfoli	B	0.44%	1.35%	0.28	0.12%	0.86	0.7977	0.6514	0.7120	0.3343	2.5%	6.3%	3.7%	5.3%	0.00
16 Mawer Balanced Fund Class A	C	0.89%	1.64%	0.51	0.13%	0.81	0.4425	0.8939	0.8645	0.5757	4.2%	10.0%	7.8%	11.1%	0.94
17 Compass Balanced Portfolio	C	0.71%	1.30%	0.50	0.17%	0.57	0.6863	0.7986	0.7934	0.4182	3.4%	7.9%	6.3%	8.7%	1.90

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							TSX	S&P 500	MSCI EAFE	Cdn. Universe Bond	3 Month	1 Year	3 Year	5 Year	MER
18 Meritage Balanced Portfolio	C	0.51%	1.30%	0.34	0.13%	0.72	0.6699	0.7835	0.8324	0.5770	2.5%	5.9%	4.7%	6.2%	2.42
19 Axiom Balanced Income Portfolio	C	0.45%	1.21%	0.32	0.07%	1.02	0.6062	0.7450	0.8164	0.7265	2.9%	5.8%	4.1%	5.5%	2.08
20 Scotia INNOVA Balanced Income Portfolio	C	0.42%	1.10%	0.32	0.09%	0.88	0.4905	0.7967	0.8236	0.7378	2.3%	3.9%	3.4%	5.0%	1.97
21 SEI Income 40/60 Class P	C	0.41%	1.23%	0.28	0.04%	1.00	0.5679	0.8001	0.8537	0.7042	2.4%	4.3%	3.3%	4.9%	0.00
22 National Bank Moderate Diversified	C	0.39%	1.18%	0.28	0.02%	0.99	0.5946	0.7368	0.7956	0.7316	3.2%	5.1%	3.4%	4.7%	2.21
23 BMO Matchmaker Strategic Balanced Portfolio	D	0.62%	1.38%	0.41	0.00%	0.66	0.5976	0.8751	0.8208	0.5646	3.7%	6.4%	5.3%	7.6%	0.00
24 Scotia Selected Balanced Growth	D	0.63%	1.39%	0.41	0.00%	0.67	0.5706	0.8464	0.8760	0.5628	2.6%	7.6%	5.6%	7.7%	2.00
25 RBC Select Choices Balanced Portfolio	D	0.65%	1.46%	0.40	0.01%	0.68	0.6627	0.8430	0.8420	0.4761	3.4%	7.8%	5.5%	8.0%	2.16
26 National Bank Balanced Strategic Portfolio	D	0.67%	1.57%	0.39	-0.05%	0.76	0.6139	0.8532	0.8815	0.5231	3.6%	7.1%	5.6%	8.1%	2.24
27 SEI Balanced 60/40-S	D	0.63%	1.53%	0.37	-0.06%	0.74	0.6378	0.8377	0.8792	0.5652	3.4%	7.4%	5.6%	7.7%	1.79
28 SEI Balanced 60/40 Class S	D	0.63%	1.53%	0.37	-0.06%	0.74	0.6380	0.8377	0.8792	0.5650	3.4%	7.4%	5.6%	7.7%	1.79
29 Scotia INNOVA Balanced Growth Portfolio	D	0.58%	1.43%	0.36	-0.08%	0.71	0.5239	0.8717	0.8748	0.6059	3.3%	5.9%	4.9%	7.1%	2.09
30 National Bank Balanced Diversified	D	0.61%	1.51%	0.36	-0.07%	0.72	0.6011	0.8259	0.8574	0.5926	3.6%	7.4%	5.1%	7.4%	2.49
31 CI Portfolio Series Conservative Balanced Fnd CI A	D	0.59%	1.44%	0.36	-0.09%	0.71	0.5414	0.8936	0.8788	0.5558	2.2%	5.0%	4.3%	7.1%	2.46
32 DynamicEdge Balanced Growth Class Portfolio	D	0.70%	1.78%	0.36	-0.08%	0.83	0.4868	0.8336	0.8594	0.4576	3.0%	11.7%	6.4%	8.5%	2.36
33 CC&L Diversified Income Portfolio	D	0.55%	1.36%	0.36	-0.06%	0.64	0.5877	0.8295	0.8355	0.5841	2.8%	4.1%	4.2%	6.6%	2.11
34 Marquis Balanced Growth Portfolio	D	0.66%	1.69%	0.36	-0.07%	0.78	0.5883	0.8449	0.8585	0.4243	3.4%	9.3%	5.3%	8.1%	2.54
35 DynamicEdge Balanced Growth Portfolio	D	0.70%	1.78%	0.36	-0.09%	0.83	0.4851	0.8374	0.8616	0.4614	2.9%	11.3%	6.4%	8.5%	2.34
36 SEI Balanced Monthly Income - P Class	D	0.57%	1.44%	0.36	-0.07%	0.68	0.6492	0.8126	0.8353	0.6112	2.9%	5.1%	4.9%	7.0%	0.00
37 TD Advantage Balanced Growth Portfolio	D	0.60%	1.52%	0.35	-0.09%	0.73	0.6145	0.8645	0.8579	0.5351	3.5%	6.0%	4.6%	7.3%	2.20
38 TD Comfort Balanced Growth Portfolio	D	0.57%	1.45%	0.35	-0.07%	0.68	0.6659	0.8262	0.8319	0.5604	3.6%	5.6%	4.8%	7.0%	2.02
39 Renaissance Optimal Growth & Income Portfolio	D	0.56%	1.41%	0.35	-0.08%	0.68	0.6036	0.8074	0.8164	0.6476	1.6%	3.9%	5.1%	N/A	2.04
40 Symmetry Balanced Portfolio	D	0.53%	1.35%	0.34	-0.09%	0.65	0.5850	0.8722	0.8555	0.5309	3.3%	6.0%	4.4%	6.4%	2.27
41 Marquis Balanced Portfolio	D	0.54%	1.41%	0.34	-0.08%	0.66	0.5938	0.8353	0.8622	0.4755	2.6%	7.0%	4.3%	6.6%	2.56
42 DynamicEdge Balanced Portfolio	D	0.57%	1.49%	0.34	-0.09%	0.70	0.4850	0.8212	0.8614	0.5160	2.4%	9.1%	5.2%	6.9%	2.23
43 DynamicEdge Balanced Class Portfolio	D	0.56%	1.48%	0.34	-0.09%	0.69	0.4945	0.8166	0.8594	0.5152	2.4%	9.0%	5.1%	6.8%	2.25
44 TD Comfort Balanced Portfolio	D	0.48%	1.27%	0.33	-0.07%	0.59	0.6729	0.7912	0.8126	0.6041	3.2%	4.6%	4.0%	5.9%	1.91
45 Axiom Diversified Monthly Income Portfolio	D	0.50%	1.32%	0.33	0.04%	0.86	0.8913	0.5774	0.6387	0.3886	3.2%	5.1%	4.1%	6.0%	2.21
46 Scotia Global Balanced	D	0.72%	2.04%	0.32	-0.14%	0.91	0.1485	0.8153	0.7744	0.5641	1.7%	8.5%	5.4%	8.7%	2.00
47 Quadrus Balanced Folio	D	0.51%	1.49%	0.30	-0.13%	0.68	0.7373	0.8004	0.8498	0.4723	3.4%	6.2%	4.4%	6.1%	2.43
48 Desjardins Melodia Diversified Income Portfolio	D	0.48%	1.41%	0.29	-0.13%	0.65	0.6583	0.7460	0.8124	0.6434	2.8%	5.8%	4.6%	N/A	2.24
49 Counsel Income Managed Portfolio	D	0.45%	1.35%	0.29	0.02%	0.81	0.7606	0.6760	0.7335	0.5327	3.0%	6.1%	3.8%	5.4%	2.90
50 CIBC Managed Monthly Income Balanced Portfolio	D	0.38%	1.16%	0.27	-0.01%	0.73	0.8108	0.6471	0.7425	0.5174	1.8%	3.2%	2.7%	4.5%	2.21
51 Counsel Managed Portfolio	D	0.45%	1.46%	0.26	-0.09%	0.58	0.7988	0.6892	0.7280	0.3993	2.9%	5.7%	3.4%	5.4%	2.96
52 Desjardins Melodia Moderate Income Portfolio	D	0.37%	1.19%	0.26	-0.15%	0.55	0.5765	0.7222	0.7877	0.7642	2.2%	4.3%	3.4%	N/A	2.09
53 Counsel Managed High Yield Portfolio	D	0.39%	1.41%	0.23	-0.17%	0.60	0.4869	0.6284	0.7444	0.7564	1.7%	3.8%	3.8%	4.6%	2.76
54 Invesco Intactive Balanced Growth Portfolio Ser A	D	0.38%	1.50%	0.21	-0.17%	0.59	0.7846	0.6199	0.7310	0.5454	4.3%	7.3%	3.6%	4.6%	2.28
55 Invesco Intactive Balanced Income Portfolio Ser A	D	0.31%	1.32%	0.18	-0.20%	0.54	0.6664	0.5967	0.7181	0.7262	3.9%	5.4%	3.1%	3.6%	2.15
56 BMO Balanced Yield Plus ETF Portfolio	D	0.28%	1.34%	0.16	-0.19%	0.50	0.6693	0.5920	0.6815	0.5062	2.2%	4.3%	2.1%	3.3%	1.71
57 TD Target Return Balanced Fund	D	0.05%	1.56%	-0.01	-0.15%	0.22	0.7501	0.1672	0.3247	0.1482	2.0%	-0.3%	0.2%	N/A	2.25
58 Manulife Simplicity Global Balanced Portfolio	F	0.70%	1.62%	0.39	-0.07%	0.81	0.5183	0.8809	0.9137	0.5510	3.3%	9.0%	6.1%	8.5%	2.51
59 Sun Life Granite Balanced Portfolio A (CAD)	F	0.70%	1.65%	0.39	-0.08%	0.83	0.5086	0.8676	0.9068	0.6069	3.8%	8.4%	6.4%	8.6%	0.00
60 TD Mgd Index Balanced Growth Portfolio	F	0.67%	1.63%	0.37	-0.10%	0.82	0.5569	0.8635	0.9021	0.6266	3.8%	7.2%	6.1%	8.1%	1.60
61 BMO SelectTrust Balanced Portfolio	F	0.66%	1.64%	0.36	-0.10%	0.80	0.5204	0.8637	0.8749	0.5995	4.0%	8.5%	6.0%	8.0%	2.21

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Name	Rating	Average Monthly Return	Monthly Standard Deviation	Sharpe Ratio	Alpha	Beta	Correlations				Returns				
							TSX	S&P 500	MSCI EAFE	Cdn. Universe Bond	3 Month	1 Year	3 Year	5 Year	MER
62 TD Mgd Balanced Growth Portfolio	F	0.66%	1.65%	0.36	-0.12%	0.83	0.5324	0.8940	0.8978	0.5770	3.6%	7.0%	5.3%	8.1%	2.22
63 Manulife Simplicity Balanced Fund	F	0.61%	1.53%	0.36	-0.10%	0.75	0.5779	0.8638	0.8948	0.5570	3.2%	8.1%	5.7%	7.5%	2.51
64 TD Mgd Index Income & Moderate Growth Portfolio	F	0.56%	1.44%	0.35	-0.11%	0.71	0.5154	0.8235	0.8729	0.7241	3.3%	5.6%	4.8%	6.8%	1.53
65 CIBC Managed Balanced Portfolio	F	0.57%	1.48%	0.35	-0.11%	0.73	0.5463	0.8615	0.8948	0.5945	2.8%	6.1%	4.8%	7.0%	2.25
66 Fidelity Balanced Portfolio	F	0.62%	1.61%	0.35	-0.13%	0.79	0.4566	0.8314	0.8637	0.7003	3.4%	5.9%	5.0%	7.5%	2.45
67 TD Mgd Inc & Mod Growth Portfolio	F	0.54%	1.38%	0.34	-0.11%	0.69	0.4847	0.8675	0.8749	0.6754	3.1%	5.6%	4.3%	6.5%	2.08
68 TD Mgd Income & Moderate Growth Portfolio	F	0.54%	1.38%	0.34	-0.11%	0.69	0.4847	0.8675	0.8749	0.6754	3.1%	5.6%	4.3%	6.5%	2.08
69 Symmetry Moderate Growth Portfolio	F	0.61%	1.61%	0.34	-0.11%	0.76	0.6068	0.8883	0.8559	0.4305	3.9%	7.4%	5.0%	7.4%	2.25
70 BMO FundSelect Balanced Portfolio Series A	F	0.58%	1.55%	0.34	-0.13%	0.76	0.5389	0.8848	0.8780	0.5567	3.5%	8.2%	5.1%	7.1%	2.59
71 Counsel Balanced Portfolio	F	0.59%	1.57%	0.34	-0.14%	0.77	0.4931	0.8432	0.8949	0.6220	2.9%	8.2%	5.0%	7.1%	2.86
72 Desjardins Chorus II Growth Fund	F	0.59%	1.58%	0.33	-0.12%	0.75	0.5976	0.7747	0.8824	0.6281	3.6%	9.3%	5.6%	7.2%	2.01
73 SEI Balanced 60/40 Fund Class - P	F	0.56%	1.54%	0.33	-0.14%	0.74	0.6340	0.8398	0.8789	0.5657	2.8%	6.1%	4.6%	6.8%	0.00
74 CI Portfolio Series Conservative Fund Class A	F	0.50%	1.35%	0.32	-0.14%	0.67	0.4643	0.8721	0.8796	0.6577	2.1%	4.0%	3.6%	6.0%	2.32
75 TD Advantage Balanced Portfolio	F	0.49%	1.32%	0.32	-0.11%	0.64	0.5467	0.8340	0.8413	0.6714	2.9%	4.6%	3.7%	5.9%	2.07
76 Scotia INNOVA Balanced Income Portfolio	F	0.44%	1.20%	0.32	-0.11%	0.58	0.5007	0.8318	0.8349	0.6836	2.7%	4.8%	3.8%	5.4%	1.94
77 AGF Elements Balanced Portfolio	F	0.62%	1.75%	0.32	-0.20%	0.87	0.5266	0.8909	0.8980	0.5366	3.3%	6.9%	5.7%	7.4%	2.33
78 BMO SelectClass Balanced Portfolio Series A	F	0.57%	1.64%	0.31	-0.17%	0.80	0.5367	0.8565	0.8660	0.5926	4.1%	8.5%	5.4%	7.0%	2.50
79 Desjardins Chorus II Growth Corporate Class	F	0.56%	1.59%	0.31	-0.12%	0.73	0.6664	0.7648	0.8596	0.5416	3.5%	9.1%	5.1%	6.8%	2.06
80 Franklin Quotential Balanced Growth Portfolio A	F	0.59%	1.69%	0.31	-0.20%	0.71	0.5662	0.8597	0.9149	0.4931	3.1%	6.2%	4.5%	7.1%	2.32
81 Desjardins Chorus II Balanced Growth Fund	F	0.50%	1.44%	0.30	-0.14%	0.68	0.5748	0.7649	0.8649	0.6830	3.1%	6.3%	4.5%	6.0%	1.88
82 BMO Balanced ETF Portfolio Class	F	0.56%	1.66%	0.30	-0.17%	0.78	0.6048	0.7895	0.8516	0.5701	3.5%	6.8%	5.6%	6.8%	1.72
83 Desjardins Chorus II Balanced Growth Corp. Class	F	0.48%	1.39%	0.30	-0.13%	0.64	0.6441	0.7631	0.8535	0.6039	3.1%	7.0%	4.5%	5.8%	1.91
84 Desjardins Melodia Balanced Growth Portfolio	F	0.54%	1.61%	0.29	-0.20%	0.79	0.6086	0.8002	0.8933	0.6381	3.7%	9.8%	5.5%	N/A	2.31
85 Franklin Quotential Balanced Income Portfolio A	F	0.47%	1.42%	0.29	-0.19%	0.70	0.5136	0.8342	0.9045	0.6144	2.4%	4.7%	3.8%	5.6%	2.12
86 AGF Elements Conservative Portfolio	F	0.48%	1.50%	0.28	-0.22%	0.75	0.4113	0.8644	0.8757	0.6630	2.5%	4.9%	4.7%	5.8%	2.33
87 Desjardins Melodia Diversified Growth Portfolio	F	0.46%	1.46%	0.27	-0.21%	0.71	0.5866	0.7771	0.8739	0.7024	3.2%	8.4%	4.8%	N/A	2.22
88 Desjardins Melodia Moderate Growth Portfolio	F	0.40%	1.33%	0.26	-0.20%	0.64	0.5438	0.7604	0.8506	0.7690	2.8%	6.7%	3.9%	N/A	2.15

Category Average		0.55%	1.45%	0.33	-0.04%	0.73	0.5928	0.7980	0.8324	0.5726	3.0%	6.5%	4.7%	6.8%	2.00
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Growth Portfolios

Typical Asset Mix: 10% - 30% Fixed Income / 70% - 90% Equity

1	Meritas Growth Portfolio	A	0.75%	1.68%	0.41	0.34%	0.78	0.5897	0.8943	0.8523	0.4031	3.5%	6.7%	6.6%	9.2%	2.49
2	Empire Life Emblem Growth Portfolio	A	0.72%	1.69%	0.39	0.26%	0.76	0.7480	0.7770	0.7496	0.2678	3.0%	5.7%	5.6%	8.8%	2.40
3	Sun Life Granite Growth Portfolio Series A	B	0.84%	1.93%	0.40	0.16%	1.26	0.5236	0.8800	0.9110	0.5593	4.2%	9.3%	7.2%	10.3%	0.00
4	DynamicEdge Growth Portfolio	B	0.83%	2.11%	0.37	0.19%	1.19	0.4731	0.8400	0.8525	0.4246	3.5%	14.3%	7.8%	10.2%	2.43
5	DynamicEdge Growth Class Portfolio	B	0.83%	2.11%	0.37	0.19%	1.19	0.4747	0.8392	0.8552	0.4236	3.5%	14.4%	7.8%	10.2%	2.45
6	Meritage Equity Income Portfolio	B	0.61%	1.53%	0.36	0.18%	0.72	0.7678	0.7134	0.7490	0.3493	3.2%	7.9%	5.9%	7.4%	2.50
7	Axiom Long-Term Growth Portfolio	B	0.63%	1.66%	0.34	0.12%	0.86	0.8447	0.6822	0.7666	0.3619	3.9%	9.3%	5.7%	7.6%	2.37
8	Counsel Growth Portfolio	C	0.74%	1.83%	0.37	0.11%	1.15	0.5244	0.8601	0.9022	0.5310	3.5%	10.6%	6.1%	9.0%	2.98
9	Counsel World Managed Portfolio	C	0.56%	1.57%	0.32	0.04%	0.95	0.6136	0.8241	0.8568	0.5174	3.6%	8.9%	4.0%	6.7%	3.12
10	BMO Matchmaker Strategic Growth Portfolio	D	0.82%	1.78%	0.42	0.04%	0.70	0.6457	0.8505	0.8136	0.4449	4.9%	9.5%	7.0%	10.0%	0.00

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							Correlations				Returns							
		Rating	Average Monthly Return	Monthly Standard Deviation	Sharpe Ratio	Alpha	Beta			MSCI EAFE	Cdn. Universe Bond			3 Month	1 Year	3 Year	5 Year	MER
Name								TSX	S&P 500									
11	Scotia Partners Growth Portfolio	D	0.76%	1.70%	0.41	-0.01%	0.69	0.6105	0.8765	0.8404	0.4460			3.6%	9.7%	6.4%	9.3%	2.35
12	SEI Growth 80/20 Class S	D	0.80%	1.82%	0.40	-0.04%	0.75	0.6619	0.8622	0.8783	0.4209			4.0%	9.4%	6.9%	9.8%	1.89
13	Sun Life Granite Balanced Growth Port A (CAD)	D	0.74%	1.74%	0.39	-0.09%	0.75	0.5109	0.8715	0.9050	0.5881			3.4%	7.5%	6.2%	9.0%	0.00
14	BMO FundSelect Growth Portfolio Series A	D	0.80%	1.93%	0.39	-0.09%	0.81	0.5737	0.8993	0.8745	0.4491			4.5%	11.2%	7.0%	9.9%	2.69
15	CI Portfolio Series Growth Fund Class A	D	0.79%	1.90%	0.38	-0.05%	0.76	0.6472	0.8729	0.8459	0.3204			2.9%	8.2%	6.1%	9.7%	2.44
16	CI Portfolio Series Balanced Growth Fund Class A	D	0.73%	1.75%	0.38	-0.08%	0.72	0.6150	0.8891	0.8705	0.4077			2.8%	7.8%	5.8%	8.9%	2.45
17	TD Advantage Growth Portfolio	D	0.72%	1.75%	0.38	-0.08%	0.71	0.6572	0.8677	0.8521	0.4202			4.0%	7.5%	5.5%	8.8%	2.27
18	Marquis Growth Portfolio	D	0.80%	1.97%	0.37	-0.08%	0.79	0.5836	0.8522	0.8486	0.3727			4.0%	11.0%	6.3%	9.7%	2.54
19	CI Portfolio Series Balanced Fund Class A	D	0.65%	1.58%	0.37	-0.09%	0.67	0.5591	0.9049	0.8774	0.4867			2.5%	6.2%	4.9%	7.9%	2.43
20	Sun Life Granite Moderate Portfolio Series A	D	0.59%	1.44%	0.37	-0.08%	0.72	0.4821	0.8465	0.8923	0.6602			2.9%	6.6%	5.2%	7.2%	0.00
21	Axiom Canadian Growth Portfolio	D	0.52%	1.70%	0.27	-0.05%	0.95	0.9561	0.4201	0.5053	0.1449			3.3%	6.4%	4.0%	6.2%	2.32
22	Invesco Intactive Growth Portfolio Series A	D	0.46%	1.72%	0.23	-0.15%	0.55	0.8415	0.6220	0.7136	0.3539			4.7%	9.1%	4.1%	5.5%	2.34
23	Dynamic Diversified Real Asset Fund	D	0.35%	3.31%	0.09	-0.32%	1.11	0.5081	-0.0409	0.1360	0.4623			4.2%	4.8%	7.8%	3.6%	2.41
24	Fidelity Growth Portfolio	F	0.81%	1.84%	0.41	-0.05%	0.77	0.5401	0.8673	0.8857	0.5621			4.3%	8.7%	6.5%	9.9%	2.48
25	TD Mgd Index Aggressive Growth Portfolio	F	0.83%	1.94%	0.40	-0.09%	0.83	0.6172	0.8808	0.9118	0.4943			4.5%	9.1%	7.5%	10.2%	1.63
26	TD Mgd Aggressive Growth Portfolio	F	0.80%	1.92%	0.38	-0.12%	0.82	0.5654	0.9080	0.9004	0.4826			4.1%	8.4%	6.4%	9.8%	2.31
27	Fidelity Global Growth Portfolio	F	0.92%	2.23%	0.38	-0.15%	0.96	0.4029	0.8930	0.8975	0.5713			5.2%	12.0%	8.1%	11.3%	2.50
28	Manulife Simplicity Growth Portfolio	F	0.75%	1.81%	0.38	-0.10%	0.76	0.5943	0.8754	0.8996	0.4681			3.7%	10.2%	6.8%	9.1%	2.64
29	BMO SelectClass Growth Portfolio Series A	F	0.82%	2.02%	0.38	-0.13%	0.85	0.5207	0.8868	0.8777	0.5260			4.9%	10.8%	7.7%	10.0%	2.61
30	Axiom Global Growth Portfolio	F	0.81%	2.04%	0.37	-0.16%	0.87	0.5185	0.8823	0.9197	0.5163			4.7%	12.7%	7.8%	9.9%	2.43
31	Axiom Foreign Growth Portfolio	F	0.99%	2.56%	0.36	-0.25%	1.11	0.3469	0.9082	0.9183	0.5203			5.3%	15.3%	9.6%	12.1%	2.42
32	CIBC Managed Balanced Growth Portfolio	F	0.72%	1.82%	0.36	-0.14%	0.77	0.5208	0.8668	0.8988	0.5810			3.7%	9.0%	6.5%	8.7%	2.46
33	SEI Growth 80/20 Fund Class - P	F	0.72%	1.84%	0.36	-0.13%	0.76	0.6556	0.8647	0.8772	0.4226			2.9%	7.6%	5.8%	8.7%	0.00
34	Symmetry Growth Portfolio	F	0.73%	1.91%	0.35	-0.13%	0.78	0.6181	0.8867	0.8526	0.3452			4.7%	9.3%	5.9%	8.9%	2.44
35	Desjardins Chorus II High Growth Fund	F	0.68%	1.83%	0.34	-0.15%	0.74	0.6213	0.7982	0.8949	0.5423			4.1%	11.0%	6.3%	8.3%	2.21
36	Fidelity Global Balanced Portfolio	F	0.70%	1.95%	0.33	-0.20%	0.81	0.3181	0.8390	0.8704	0.7022			4.1%	8.1%	6.3%	8.5%	2.46
37	Desjardins Chorus II High Growth Corp. Class	F	0.65%	1.82%	0.32	-0.14%	0.71	0.6848	0.7781	0.8655	0.4687			4.0%	10.4%	5.9%	7.8%	2.25
38	Franklin Quotential Growth Portfolio A	F	0.70%	2.00%	0.32	-0.23%	0.84	0.5693	0.8737	0.9117	0.4083			3.6%	7.5%	5.4%	8.5%	2.42
39	Desjardins Melodia Maximum Growth Portfolio	F	0.71%	2.03%	0.32	-0.23%	0.85	0.6391	0.8230	0.9080	0.5194			4.7%	13.1%	7.3%	N/A	2.56
40	AGF Elements Growth Portfolio	F	0.77%	2.23%	0.32	-0.30%	0.96	0.4610	0.9184	0.9024	0.4672			4.2%	9.1%	7.6%	9.3%	2.33
41	Desjardins Melodia Aggressive Growth Portfolio	F	0.64%	1.86%	0.31	-0.21%	0.77	0.6340	0.8146	0.9044	0.5585			4.3%	11.9%	6.6%	N/A	2.47
42	Quadrus Advanced Folio	F	0.63%	1.84%	0.31	-0.14%	0.70	0.7771	0.7895	0.8223	0.3429			4.3%	8.1%	5.3%	7.7%	2.48
43	Renaissance Optimal Inflation Opportunities Portfoli	F	0.37%	1.80%	0.17	-0.26%	0.67	0.3354	0.4973	0.6900	0.7484			0.9%	4.4%	2.9%	4.4%	2.27
Category Average			0.72%	1.90%	0.35	-0.07%	0.83	0.5896	0.8083	0.8362	0.4666			3.9%	9.3%	6.3%	8.7%	2.15

Aggressive Growth Portfolios

Typical Asset Mix: 0% - 20% Fixed Income / 80% - 100% Equity

1	Empire Life Emblem Aggressive Growth Portfolio	A	0.84%	2.00%	0.39	0.35%	0.69	0.7578	0.7624	0.7298	0.1830	3.4%	6.8%	6.6%	10.3%	2.55
2	Quadrus Aggressive Folio	B	0.77%	2.21%	0.32	0.20%	0.79	0.7897	0.7750	0.7978	0.2451	5.0%	9.8%	6.3%	9.3%	2.47
3	SEI Growth 100 Class S	D	0.95%	2.16%	0.41	-0.04%	0.71	0.6662	0.8637	0.8665	0.3195	4.6%	11.2%	8.3%	11.7%	1.87
4	Scotia Partners Maximum Growth Portfolio	D	0.86%	1.95%	0.41	-0.01%	0.79	0.6132	0.8840	0.8306	0.3798	4.1%	10.9%	7.0%	10.6%	2.46
5	BMO FundSelect Equity Growth Portfolio Series A	D	1.00%	2.34%	0.40	-0.09%	0.79	0.5706	0.9009	0.8680	0.3862	5.4%	14.4%	8.8%	12.4%	2.85

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Paterson & Associates - Monthly WRAP Fund Report

December 2017

Name	Rating	Average Monthly Return	Monthly Standard Deviation	Sharpe Ratio	Alpha	Beta	Correlations				Returns				
							TSX	S&P 500	MSCI EAFE	Cdn. Universe Bond	3 Month	1 Year	3 Year	5 Year	MER
6 Counsel All Equity Portfolio	D	0.90%	2.12%	0.39	-0.09%	0.71	0.5363	0.8652	0.8999	0.4631	4.2%	13.3%	7.4%	11.0%	3.09
7 CI Portfolio Series Maximum Growth Fund Class A	D	0.92%	2.18%	0.39	-0.06%	0.70	0.6518	0.8673	0.8254	0.2564	3.3%	9.9%	7.2%	11.3%	2.43
8 TD Advantage Aggressive Growth Portfolio	D	0.84%	2.02%	0.39	-0.07%	0.65	0.6823	0.8600	0.8352	0.3267	4.5%	8.9%	6.5%	10.3%	2.27
9 DynamicEdge Equity Class Portfolio	D	1.02%	2.50%	0.38	-0.10%	0.80	0.4659	0.8425	0.8490	0.3890	4.1%	17.7%	9.5%	12.5%	2.46
10 DynamicEdge Equity Portfolio	D	1.02%	2.50%	0.38	-0.11%	0.81	0.4595	0.8449	0.8490	0.3918	4.2%	17.5%	9.5%	12.5%	2.44
11 Marquis Equity Portfolio	D	0.94%	2.34%	0.38	-0.11%	0.75	0.5739	0.8542	0.8397	0.3272	4.9%	13.5%	7.4%	11.5%	2.68
12 Invesco Intactive Maximum Growth Portfolio Ser A	D	0.63%	2.06%	0.27	-0.10%	0.52	0.8356	0.6341	0.6874	0.1634	4.8%	10.7%	4.8%	7.5%	2.42
13 TD U.S. Equity Portfolio	F	1.55%	3.32%	0.45	-0.26%	1.08	0.2855	0.9732	0.7745	0.3733	6.5%	14.2%	12.5%	19.4%	2.40
14 TD Mgd Index Max Eqty Growth Portfolio	F	1.01%	2.29%	0.41	-0.08%	0.78	0.6392	0.8857	0.9045	0.3987	5.3%	11.2%	9.1%	12.4%	1.68
15 BMO SelectClass Equity Growth Portfolio Series A	F	0.98%	2.34%	0.39	-0.12%	0.79	0.5056	0.9024	0.8817	0.4711	5.8%	14.1%	9.1%	12.1%	2.71
16 TD Mgd Max Equity Growth Portfolio	F	0.91%	2.20%	0.39	-0.14%	0.75	0.5772	0.9102	0.8982	0.4140	4.6%	9.6%	7.2%	11.2%	2.46
17 Axiom All Equity Portfolio	F	0.97%	2.42%	0.38	-0.17%	0.82	0.5491	0.8779	0.9089	0.4336	5.7%	16.5%	9.6%	11.9%	2.43
18 CIBC Managed Aggressive Growth Portfolio	F	0.90%	2.27%	0.37	-0.18%	0.77	0.5046	0.8900	0.9100	0.5019	4.7%	12.5%	8.5%	11.0%	2.48
19 Desjardins Chorus II Maximum Growth Fund	F	0.76%	2.00%	0.35	-0.14%	0.81	0.6226	0.8082	0.8997	0.5054	4.5%	12.1%	7.0%	9.3%	2.27
20 Symmetry Equity Portfolio	F	0.87%	2.36%	0.34	-0.22%	0.78	0.6000	0.8904	0.8432	0.2762	5.4%	11.4%	7.1%	10.6%	2.47
21 Desjardins Chorus II Maximum Growth Corp. Class	F	0.72%	1.98%	0.34	-0.13%	0.77	0.6905	0.7827	0.8640	0.4259	4.4%	11.7%	6.5%	8.8%	2.30
22 AGF Elements Global Portfolio	F	0.92%	2.61%	0.33	-0.34%	0.90	0.4378	0.9279	0.8989	0.4188	5.0%	11.0%	9.0%	11.2%	2.49
23 Franklin Quotential Global Growth Portfolio A	F	0.89%	2.54%	0.33	-0.31%	0.86	0.5038	0.8902	0.9157	0.3600	4.4%	9.6%	6.6%	10.9%	2.58
24 BMO Equity Growth ETF Portfolio Fund	F	0.83%	2.38%	0.32	-0.21%	0.75	0.6506	0.8157	0.8317	0.3366	5.4%	13.2%	8.4%	10.1%	1.78
Category Average		0.92%	2.30%	0.37	-0.11%	0.77	0.5904	0.8545	0.8504	0.3644	4.8%	12.2%	7.9%	11.3%	2.42

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Paterson & Associates—Monthly WRAP Fund Report

Methodology & Ratings Definitions

December 2017

Methodology:

Fund Ratings which are highlighted in Green indicate an upgraded rating from the previous month. Fund Ratings highlighted in Red indicate a downgraded rating from the previous month. Only funds with greater than 36 months of data are eligible to receive a rating.

The period under review is the most recent 60 month period, or the inception date of the fund, whichever is shorter.

To determine our rankings, fund returns are scored on six key risk reward metrics. The scores are totaled and a rating assigned based on the results.

Fund Score	Rating
More than 80%	A
65% to 80%	B
55% to 65%	C
40% to 55%	D
Below 40%	F

The metrics are:

Alpha – This is the excess return that a manager has been able to generate. The higher the Alpha, the higher the score.

Sharpe Ratio – This is a measure of risk adjusted performance. It measures how much return an investment has delivered for each unit of risk assumed. The higher the Sharpe Ratio, the more return the investment has delivered for each unit of risk.

Standard Deviation – this is a measure of volatility or risk. It measures the fluctuation that an investment has exhibited. The higher the standard deviation, the more fluctuation the fund has shown, so the lower the score it receives in the ratings model

Information Ratio – is a measure of how consistently a manager has outperformed its benchmark. It is basically the Sharpe Ratio of the monthly excess returns. Like with the Sharpe Ratio, the higher the better.

Batting Average – this is another measure of how consistently the fund has outperformed. While the information ratio will factor in the level of outperformance, batting average is a measure of how frequently. It's like the win/loss percentage in baseball. A batting average of 500 means it has outperformed as often as it has underperformed. The model favours funds that win more than they lose. The higher the batting average, the better the score.

R-Squared – This is a statistical measure that shows how much of the return of an investment are the result of the benchmark. The higher the R-Square, the more the fund behaves like the benchmark. And as we know, if you want to beat the benchmark, you can't be the benchmark. The model favours those funds that have a lower R-Squared.

Paterson & Associates—Monthly WRAP Fund Report

Disclaimer

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Information is from sources believed to be reliable. Every effort is made to ensure its accuracy, however, we cannot be responsible for inaccuracies or omissions in any of the data.

Information used in this analysis is historic in nature. Past performance is no guarantee of future performance.

Monthly Standard Deviation is the most recent 60 month historical standard deviation of returns.

Sharpe Ratio is a measure of risk adjusted returns. The higher the ratio, the better the manager has been at delivering more return for less risk.

Alpha represents the excess return which the manager has been able to deliver over and above the applicable benchmark.

Beta represents the volatility of the fund relative to its applicable benchmark. A beta of one means that there is a level of volatility equal that of the benchmark. A beta in excess of one indicates that the volatility is greater than the benchmark, while a beta of less than one indicates that volatility is less than the benchmark.

Correlation measures the similarity in return patterns between the fund and a benchmark. The correlation will range between -1 and $+1$. A correlation close to $+1$ indicates that the fund and the index have very similar return patterns. A correlation close to -1 indicates that the returns are almost opposite, while a correlation close to zero indicates no relationship.

Historic returns are calculated using the monthly return data in our database. Slight variations in return results will be attributable to decimal rounding and number truncation. Past performance does not guarantee future performance.

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Paterson & Associates is an independent consulting firm specializing in providing research and due diligence on a number of different investment products including mutual funds, hedge funds and other exempt market products.

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