International Growth Model for Nationwide VA

	<u>Model</u>	MSCI ACWI ex USA	Annual	<u>Model</u>	MSCI ACWI ex USA	Compound Annual	Model	MSCI ACWI ex USA
			Returns			Growth		
Sharpe	0.47	0.15	1999	44.76	26.96	Inception	8.69	2.78
Skew	-0.63	-0.73	2000	-14.45	-14.17	25 Year	8.64	2.60
Kurtosis	2.11	2.05	2001	-9.65	-21.45	20 Year	8.51	3.45
Max drawdown	-54.22	-55.73	2002	-4.17	-15.94	15 Year	9.97	4.35
Up Capture	1.10		2003	44.38	38.59	10 Year	7.44	1.44
Down Capture	0.85		2004	23.21	20.25	5 Year	10.87	2.50
Alpha	5.91		2005	20.17	13.54	3 Year	2.77	-2.47
Beta	0.95		2006	29.49	26.34			
Up Beta	0.90		2007	18.86	11.17	Standard Deviation		
Down Beta	0.93		2008	-41.67	-45.25	History		
Correlation	0.94		2009	33.42	39.60	Inception	18.33	18.19
Up Correlation	0.81		2010	18.28	10.01	25 Year	18.42	18.27
Down Correlation	0.90		2011	-14.90	-16.66	20 Year	18.10	18.39
			2012	20.00	13.65	15 Year	16.75	17.64
Positive months	181	173	2013	19.75	12.82	10 Year	15.96	16.55
Negative months	123	131	2014	-5.41	-6.26	5 Year	19.40	19.89
Win rate	59.54	56.91	2015	-0.08	-6.90	3 Year	17.95	18.09
			2016	3.05	1.67			
Positive quarters	67	60	2017	29.45	24.75	Average Monthly		
Negative quarters	34	41	2018	-13.98	-16.93	Returns		
Win rate	66.34	59.41	2019	25.17	18.32	January	0.21	-0.73
			2020	33.77	8.73	February	0.67	-0.14
Positive years	16	16	2021	8.77	6.20	March	0.49	0.38
Negative years	9	9	2022	-11.08	-18.84	April	2.10	2.25
Win Rate	64.00	64.00	2023	13.92	12.60	May	-0.10	-1.34
			2024-04	4.02	1.58	June	0.22	-0.21
Positive positions	330					July	1.18	0.94
Average gain	7.49					August	-0.21	-0.86
Negative positions						September	-1.24	-1.60
Average loss	-6.81					October	0.25	0.58
3 - 3						November	2.02	1.30
Trades	331					December	2.72	2.15
per month	1.09							
po						May-Oct	-0.16	-3.08
Range of Historical Rolling CAGRs:						Nov-Apr	8.47	5.79
Best 1-year	68.42	59.05						
Worst 1-year	-48.11	-49.13						
,								
Best 3-year	36.36	31.13						



Worst 3-year

Best 5-year

Worst 5-year

Best 10-year

Worst 10-year

-14.11

29.23

-3.70

12.74

2.68

-19.55

23.55

-7.54

9.03

-1.20

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