

Income Model for Nationwide VA

	<u>Model</u>	<u>U.S. Credit Index</u>	Annual Returns	<u>Model</u>	<u>U.S. Credit Index</u>	Compound Annual Growth	<u>Model</u>	<u>U.S. Credit Index</u>
Sharpe	1.48	0.88	1999	4.13	8.69	Inception	6.95	5.01
Skew	0.64	-0.53	2000	8.34	12.16	25 Year	6.93	5.08
Kurtosis	2.20	2.25	2001	4.15	-3.93	20 Year	7.57	4.30
Max drawdown	-7.22	-19.57	2002	7.08	22.25	15 Year	8.10	3.30
Up Capture	0.60		2003	1.30	3.28	10 Year	4.13	1.91
Down Capture	-0.15		2004	0.70	10.23	5 Year	4.81	0.78
Alpha	5.93		2005	0.94	8.57	3 Year	2.86	-3.02
Beta	0.20		2006	6.45	-1.96			
Up Beta	0.15		2007	8.51	9.39	Standard Deviation History		
Down Beta	0.12		2008	8.94	10.40	Inception	4.69	5.71
Correlation	0.24		2009	36.48	10.52	25 Year	4.69	5.73
Up Correlation	0.11		2010	16.04	7.70	20 Year	4.96	5.80
Down Correlation	0.12		2011	9.63	5.24	15 Year	5.29	6.23
			2012	14.44	1.96	10 Year	3.97	6.74
Positive months	240	195	2013	11.08	4.26	5 Year	4.25	8.98
Negative months	63	109	2014	5.76	5.11	3 Year	4.06	9.45
Win rate	78.95	64.14	2015	-4.06	-2.33			
			2016	6.99	5.63	Average Monthly Returns		
Positive quarters	85	71	2017	9.68	6.18	January	1.01	0.65
Negative quarters	16	30	2018	-2.67	-2.11	February	0.12	-0.00
Win rate	84.16	70.30	2019	8.59	13.80	March	0.42	-0.28
			2020	11.39	9.35	April	0.94	0.14
Positive years	23	19	2021	1.51	-1.08	May	0.19	0.64
Negative years	2	6	2022	2.87	-15.26	June	0.19	0.59
Win Rate	92.00	76.00	2023	3.96	8.18	July	1.00	0.87
			2024-04	0.26	-2.89	August	0.64	0.59
Positive positions	316					September	0.75	0.21
Average gain	3.26					October	0.32	0.05
Negative positions	93					November	0.43	0.76
Average loss	-1.94					December	0.72	0.70
Trades	615					May-Oct	2.76	2.90
... per month	2.03					Nov-Apr	3.95	2.02
Range of Historical Rolling CAGRs:								
Best 1-year	43.34	22.25						
Worst 1-year	-7.22	-18.68						
Best 3-year	22.63	12.76						
Worst 3-year	0.88	-5.33						
Best 5-year	17.55	8.96						
Worst 5-year	2.16	-0.27						
Best 10-year	11.78	8.45						
Worst 10-year	4.13	1.51						

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