Monte Carlo Simulation

Zephyr AllocationADVISOR: Advanced Financial Strategists, Inc.

Simulation Case
Sample Case

<u>Inputs</u>

Years to Simulate 40

Trials 10,000 Inflation Rate 2.30%

Distribution

Lognormal Distribution Mean: 8.00% StdDev: 6.00%

Values

Initial Portfolio Value \$750,000 Wealth Goal \$1,000,000

Probability Targets \$5,000,000 \$3 ,... \$5,000,000 \$500,000

Flows - Beginning of year

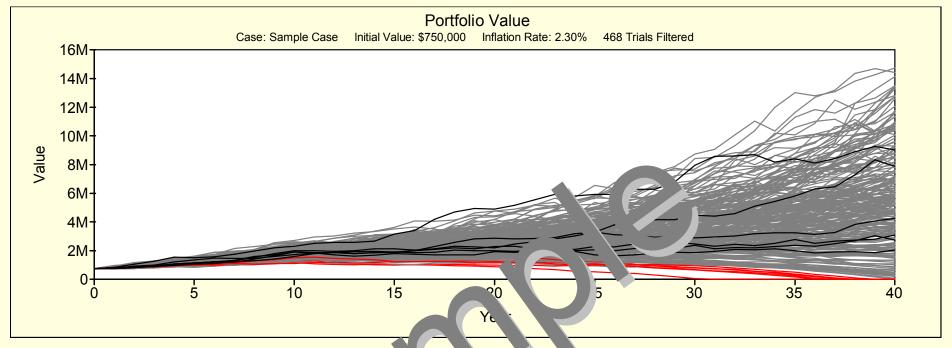
Post-Social Security Withdraws Withdrawal Infla on Adi ed \$60,000 Years 13 - 40 Pre-Social Security Withdraws Withdraws Withdrawal Infla on Adi ed \$80,000 Years 11 - 12

Flows - End of year

Pre-Retirement Savings Pepos Fixed \$15,000 Years 1 - 10

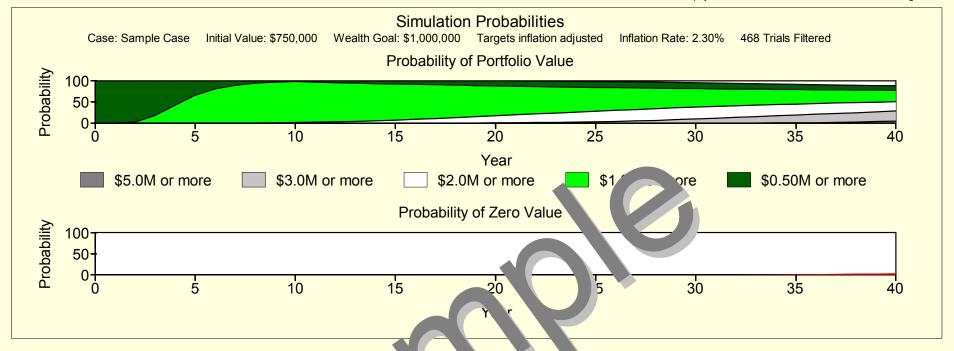
<u>Filter</u>

Maximum Va' 5, 7,00



			Po	rtfc \ Value							
	Case: Sample Case	Initial Value: *	γ V _V 'th	Inflation Rate: 2.30% 468 Trials Filtered							
<u>ulation Trials</u>											
	Year 5	<u>ar 10</u>	<u>.e.</u> 5	<u>Year 20</u>	Year 25	Year 30	Year 35	Year 40			
Portfolio Value											
10th Percentile:	\$1,361,7	\$7	,945	\$3,459,705	\$4,481,505	\$5,880,463	\$7,898,669	\$10,844,626			
25th Percentile:	\$1,269,8	٠,٠٥	ر 1,737	\$2,917,211	\$3,649,777	\$4,685,510	\$6,026,571	\$7,951,015			
50th Percentile:	\$1,173,508	\$1,794,8	\$2,022,539	\$2,379,848	\$2,829,367	\$3,380,364	\$4,095,461	\$5,067,400			
75th Percentile:	\$1,084,474	\$1,611	\$1,712,791	\$1,893,310	\$2,096,078	\$2,312,377	\$2,521,045	\$2,817,622			
90th Percentile:	\$1,012,230	Ö	\$1,460,925	\$1,518,703	\$1,517,216	\$1,467,638	\$1,304,173	\$998,801			
				<u>Flows</u>							
Post-Social Security Withdraws											
Average Flow:			(\$84,389)	(\$94,551)	(\$105,936)	(\$118,523)	(\$131,178)	(\$143,236)			
Pre-Social Security Withdraws											
Average Flow:											
Pre-Retirement Savir	<u>ngs</u>										
Average Flow:	\$15,000	\$15,000									

Monte Carlo Simulation



Probabilities ulatio

Case: S	Sample Case Initia	l Value: \$750,000) W/ al	: \$1, 2,000	gets inflation a	djusted Inflatio	n Rate: 2.30%	468 Trials Filtered			
Pt Vio Probabilities											
			ar	Year 15	<u>Year 20</u>	<u>Year 25</u>	Year 30	<u>Year 35</u>	<u>Year 40</u>		
Probability of:											
\$5,000,000	Inflated Target:	5,602.00	\$6,2	\$7,032,415	\$7,879,210	\$8,827,970	\$9,890,972	\$11,081,975	\$12,416,390		
	Probability:		0%	0%	0%	0%	0%	1%	5%		
\$3,000,000	Inflated Target:	\$3,501,239	765,976	\$4,219,449	\$4,727,526	\$5,296,782	\$5,934,584	\$6,649,185	\$7,449,834		
	Probability:	0%	0%	0%	0%	3%	10%	19%	28%		
\$2,000,000	Inflated Target:	\$2,2	, 2,510,651	\$2,812,966	\$3,151,684	\$3,531,188	\$3,956,389	\$4,432,790	\$4,966,556		
	Probability:	0%	2%	7%	17%	28%	38%	45%	51%		
\$1,000,000	Inflated Target:	\$1,120,413	\$1,255,325	\$1,406,483	\$1,575,842	\$1,765,594	\$1,978,195	\$2,216,395	\$2,483,278		
	Probability:	66%	99%	92%	88%	85%	82%	80%	78%		
\$500,000	Inflated Target:	\$560,207	\$627,663	\$703,242	\$787,921	\$882,797	\$989,097	\$1,108,198	\$1,241,639		
	Probability:	100%	100%	100%	100%	98%	96%	92%	88%		
Probability of Zero Value:											
	Probability:	0%	0%	0%	0%	0%	0%	2%	4%		