Spreadsheet Tracks Year-by-Year Portfolio Value

You must make three key decisions for your retirement financial plan: 1) Spending Rate and therefore the Constant Dollar Amount for Spending; 2) Mix of Stocks and Bonds (chart shows mix for stocks; the balance is bonds); 3) Investing Cost, which is the assumed net reduction from market returns incurred when we invest.

This table excludes the effect of using an off-the-top Reserve, approximately one year of spending. In a year of very poor returns, you'd tap the Reserve for spending: in effect, you skip a year of withdrawal from your Investment Portfolio.

					Mix				
			W/D for		Stock/Bond		5 LV		
	. .		Spending just	6	85%	. .	End Year	Investing	5 154
	Start	Beg Bal of	prior to Jan 1	Start	Real Return	Return	Bal B4	Cost	End B4
_	Year	Portfolio	4.40%	of Year	Rate in Yr.	\$	Invest Cost	0.07%	next W/D
1	1969	1,000.0	44	956.0	-13.29%	(127.0)	829.0	0.6	828.4
2	1970	828.4	44	784.4	-0.38%	(3.0)	781.5	0.5	780.9
3	1971	780.9	44	736.9	10.43%	76.9	813.8	0.6	813.2
4	1972	813.2	44	769.2	13.14%	101.1	870.3	0.6	869.7
5	1973	869.7	44	825.7	-19.72%	(162.8)	662.9	0.5	662.4
6	1974	662.4	44	618.4	-30.34%	(187.6)	430.8	0.3	430.5
7	1975	430.5	44	386.5	24.30%	93.9	480.4	0.3	480.1
8	1976	480.1	44	436.1	17.21%	75.1	511.2	0.4	510.8
9	1977	510.8	44	466.8	-12.13%	(56.6)	410.2	0.3	409.9
10	1978	409.9	44	365.9	-3.32%	(12.1)	353.7	0.2	353.5
11	1979	353.5	44	309.5	2.05%	6.4	315.8	0.2	315.6
12	1980	315.6	44	271.6	13.03%	35.4	307.0	0.2	306.8
13	1981	306.8	44	262.8	-11.80%	(31.0)	231.8	0.2	231.6
14	1982	231.6	44	187.6	19.74%	37.0	224.7	0.2	224.5
15	1983	224.5	44	180.5	14.91%	26.9	207.4	0.1	207.3
16	1984	207.3	44	163.3	3.56%	5.8	169.1	0.1	169.0
17	1985	169.0	44	125.0	26.83%	33.5	158.5	0.1	158.4
18	1986	158.4	44	114.4	18.21%	20.8	135.2	0.1	135.1
19	1987	135.1	44	91.1	-0.33%	(0.3)	90.8	0.1	90.7
20	1988	90.7	44	46.7	10.67%	5.0	51.7	0.0	51.7
21	1989	51.7	44	7.7	23.89%	1.8	9.5	0.0	9.5
22	1990	NOT ENUF	44	NOT ENUF	-7.37%	#VALUE!	#VALUE!	#VALUE!	#VALUE!
23	1991	#VALUE!	44	#VALUE!		#VALUE!	#VALUE!	#VALUE!	#VALUE!
24	1992	#VALUE!	44	#VALUE!		#VALUE!	#VALUE!	#VALUE!	#VALUE!
25	1993	#VALUE!	44	#VALUE!		#VALUE!	#VALUE!	#VALUE!	#VALUE!
26	1994	#VALUE!	44	#VALUE!		#VALUE!	#VALUE!	#VALUE!	#VALUE!
27	1995	#VALUE!	44	#VALUE!		#VALUE!	#VALUE!	#VALUE!	#VALUE!
28	1996	#VALUE!	44	#VALUE!		#VALUE!	#VALUE!	#VALUE!	#VALUE!
29	1997	#VALUE!	44	#VALUE!		#VALUE!	#VALUE!	#VALUE!	#VALUE!
30	1998	#VALUE!	44	#VALUE!	24.25%	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Could take 21 years of full W/D for spending. Then NOT FNUE.									

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The column of real returns comes from data published by Ibbotson, SBBI Yearbook, 2017.

The return data provided is for two classes of stocks, three of bonds, and one for short-term bills.

I used Large Company Stocks and US Gov't Bonds for the calculations here.