

Our Investment Portfolio rearranged in three groups of Holding Periods

	Mix of Stocks and Bonds
Wine Bottles to consume 2022	Cash (Money Market, maybe ST bond)
Finishing Barrels (Next 2 to 3 years)	80% Bonds. 20% Stocks.
Aging Barrels (next 5 to 7 years)	60% Stocks. 40% Bonds.
Large Vat (>7 to >10 years)	100% stocks

I don't count the cash we hold for spending next year as part of our portfolio.
 Our portfolio mix is 85% stocks and 15% bonds: we hold ~3 years of bond insurance.
 The wine barrel analogy may not work out to match our exact mix.

	Calculation Date								CAGR
	Dec-15 2015	Dec-15 2016	Nov-30 2017	Nov-30 2018	Nov-30 2019	Nov-30 2020	Nov-30 2021	Nov-30 2022	
Nominal Returns									
Stocks	-1.53%	12.72%	21.52%	1.40%	14.71%	15.99%	21.94%	-11.22%	8.85%
Bonds	0.75%	3.02%	4.59%	-0.99%	10.49%	6.89%	-0.93%	-11.90%	1.29%
Real Returns									
Stocks	-1.53%	12.38%	19.14%	-1.36%	12.90%	14.50%	15.15%	-18.32%	5.89%
Bonds	0.75%	2.71%	2.54%	-3.69%	8.75%	5.52%	-6.45%	-18.95%	-1.46%
Inflation in year	0.0%	0.3%	2.0%	2.8%	1.6%	1.3%	5.9%	8.7%	2.8%
Memo: Real returns for our portfolio of 85% S & 15% B	-1.19%	10.93%	16.65%	-1.71%	12.28%	13.16%	11.91%	-18.41%	5.00%

The expected return rate for our portfolio based on a long history of returns is 6.4% before subtracting investing costs (7.1%S and 2.4%B).

Real Returns Rearranged by three mixes for three holding periods show lower returns for mixes with greater amounts of bonds:

Real Changes	Eight Years of Returns								CAGR	
	2015	2016	2017	2018	2019	2020	2021	2022		
Finishing Barrels (80% B; 20% S)	0.29%	4.65%	5.86%	-3.22%	9.58%	7.31%	-2.13%	-18.82%	0.06%	}
Aging Barrels (60% S; 40% B)	-0.62%	8.51%	12.50%	-2.29%	11.24%	10.91%	6.51%	-18.57%	3.02%	
Large Vat (all S)	-1.53%	12.38%	19.14%	-1.36%	12.90%	14.50%	15.15%	-18.32%	5.89%	

Lower range of returns or volatility with for mixes with more bonds

	Eight-year CAGR	Annual Returns		Point Spread	
		Highest	Lowest		
Our Portfolio					
Finishing Barrels	0.1%	9.6%	-18.8%	28.4	} Low to high
Aging Barrels	3.0%	12.5%	-18.6%	31.1	
Large Vat	5.9%	19.1%	-18.3%	37.5	

CAGR = compound average annual growth rate