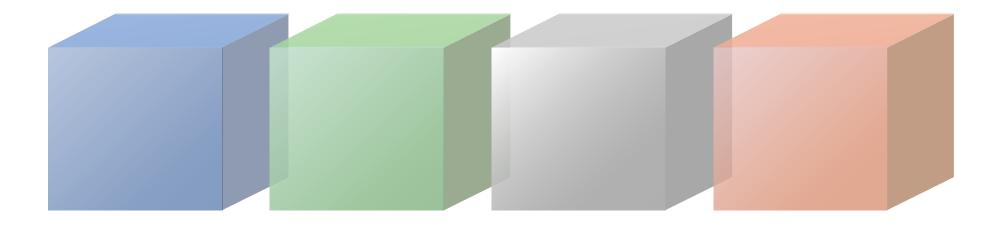
Financial Independence Building Blocks CASH EQUIVALENTS <u>after taxes & expenses</u> ... DB#31 *How might I invest the money I know I will spend in the next 5 years?*



Financial Independence Overview DB#2 Financial Independence Invest Now DB#3 Financial Independence CASH DB#30 Before tax Financial Independence CASH DB#31 After tax



Financial Independence Overview DB#2

Review of everythingyou need to understandthis 'tool called money'

Financial Independence CASH DB#30 Before tax & exp = I'm going to spend this money in the next 5 years, I need some growth and safety.
(in a <u>before</u> tax account)

Financial Independence Invest Now DB#3 = You might say, "I don't care, just tell me how to invest now"

Financial Independence CASH DB#31 After tax & exp = I'm going to spend this money in the next 5 years, I need some growth and safety.
(in an *after* tax account)



THIS DEEPER BLOG ... DB#31, skip to p14 if you want to know changes I make as a result of this study.

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You are responsible for your actions and smart decisions and do your own research!





Why buckets? To help you sleep at night, you will be able to invest more aggressively with the money that you do not need any time soon.



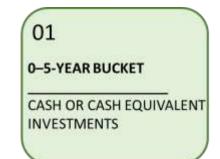
01 **O–5-YEAR BUCKET** CASH OR CASH EQUIVALENT INVESTMENTS

We will focus here.

This will present alternatives to holding 3 – 5 years of income in CASH.

If you are doing a 'Roth Conversion Ladder'. These would be options for money that you will 'live on' as you convert your 401K/Traditional IRA to Roth IRA instead of holding CASH.





I am often asked – How do I get a better return on the money I will need soon? First, anything outside of CASH is likely to be higher risk.

Second, you are unlikely to get 'hurt' by inflation because you will spend it soon. With the obvious out of the way, I will look at a process to 'assess the risk'. I will walk through the process with EXAMPLES.

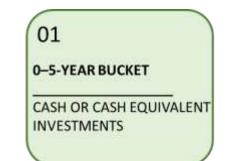
I will look at each of the SEVEN (7) methods and assess their performance over:

- 1) A turndown period (2008 2012)
- 2) A turnup period (2015 2019)
- 3) On an average return basis (using 20-year average return)

I will *attempt* to simplify of this with a SIMPLE SINGLE RATIO

SIMPLE SINGLE RATIO = REWARD ------RISK







REWARD = Average 20-year return for 5 years

RISK = 1-year max drop in the last 20 years

Goal: to maximize this ratio for your short-term investment needs



01 0-5-YEAR BUCKET CASH OR CASH EQUIVALENT INVESTMENTS

METHOD 1 = Leave it in CASH

METHOD 2 = Leave it invested until you withdraw it for spending

METHOD 3 = Leave it in a municipal fund until withdrawal (VWIUX/VWITX)

METHOD 4 = Leave it in a 40% stock / 60% bond until withdrawal (VWINX/VWIAX)

METHOD 5 = Take bucket 1 & divide it into 3 more buckets until withdrawal

METHOD 6 = METHOD 4 replace VTSAX with Dividend stocks fund

METHOD 7 = METHOD 4 replace VTSAX with specific Dividend stock

Assumptions:

Working to keep the math as simple as possible ... using www.portfoliovisualizer.com

ANALYSIS using portfoliovisualizer.com and all dividends included.

\$1M total portfolio using 4% rule, yearly spend rate of \$40,000/year.

For this bucket of money, you will be pulling way more than 4% rule, so expect it to reduce.

Bucket 1 = \$40K X 5 = \$200K total.

Withdrawals are monthly at \$40K/12 = \$3.3K/month.

Rebalance annually and not inflation adjusted. CASH = CASHX.

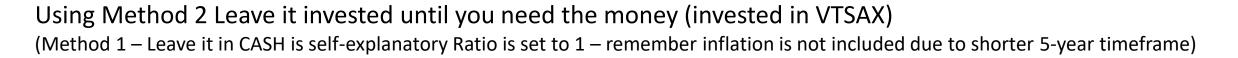
VTSMX substituted for VTSAX for 20-year average returns. VWINX for VWIAX as well.

AFTER TAX: Fidelity/Vanguard sites: Highest marginal tax rate, no state taxes included and "After taxes on distributions and sale of fund shares - 5yrs"

START : \$200,000 CASH MATH: \$200,000 - \$40,000 X 5 YEARS END: \$0 Can we beat this?



For Example:



		5% (avg 20-year return)	Х	
SIMPLE		5 years		Goal:
RATIO	SS		= 0.7	To maximize this ratio for
=	RATIO =		= 0.7	your short-term
REWARD		$270/(max_1)$		investment needs
		37% (max 1-year		
RISK	J	drop)		

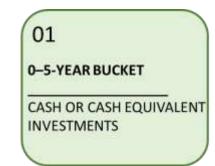


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0-5-YEAR BUCKET

INVESTMENTS

CASH OR CASH EQUIVALENT



For Example:

Using Method 2 Leave it invested until you need the money (invested in VTSAX)

(Method 1 – Leave it in CASH is self-explanatory Ratio is set to infinite – remember inflation is not included due to shorter 5-year timeframe)

	Method 1	Method 2			Method 1	Method 2	In this Method 2:
Nontaxable	CASH	VTSAX		vablent	CASH	VTSAX	100% in VTSAX
NonAccourt	CASH	100% stocks	WANT:	Taxable Account	CASH	100% stocks	You might run
Simple Single Ratio (SSR)	INFINITE	1.1	Max	Simple Single Ratio (SSR) after ta	× INFINITE	0.7	out of money in 4 years in non-
Drawdown period (2008 - 2012) - Dollars left at end of 5 years	\$0K	lasts < 5 yrs, ~ 4 years	ОК if >\$10К	Drawdown period (2008 - 2012) Dollars left at end of 5 years	\$ОК	lasts < 5 yrs, ~ 3.5 years	taxable account and
Drawup period (2015 - 2019) - Dollars left at end of 5 years	\$OK	\$61K	Max	Drawup period (2015 - 2019) - Dollars left at end of 5 years	\$0K	\$23K	~3.5 years in
Using Average 20 year return for 5 years	\$0K	\$40K	Max	Using Average 20 year return for years	5 \$ОК	\$24K	taxable account
Average 20 year return assumption	very small	8.0%	Max	Average 20 year return assumption	n very small	5.2%	SonsspeedLab.com Built for
No inflation, No expense impact, No	o tax impact			No inflation, No expense imp	act, with tax &	sales impact	10 you *864 238 9Th

0-5-YEAR BUCKET

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CASH OR CASH EQUIVALENT INVESTMENTS

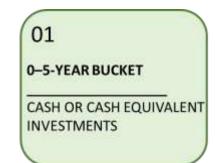
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												/
	Method 1	Method 2	Method 3	Method 4	Method 5	Method 6	Method 6A	Method 6B	Method 7	Method 7A	Method 7B	
	CASH	VTSAX	VWITX	WIAX/VWIN X	Split 3	Split 3 + divid fund	Split 2 + divid fund	Split 2 + divid fund	Split 3 + divid stock + REIT	Split 2 + muni + REIT (DLR)	Split 2 + muni + REIT (VGSIX)	
	CASH	100% stock:	100% Muni Bond	10% stocks / 60% Bond	25% VWITX / 25% VTSAX / 50% VWIAX	25% VWITX / 25% VDIGX / 50% VWIAX	50% VWITX / 50% VDIGX	30% VWITX / 70% VDIGX	20% VWITX / 40% LOW/ 40% VGSIX	20% VWITX / 80% DLR	50% VWITX / 50% VGTIX	WANT:
Simple Single Ratio (SSR) after tax	INFINITE	0.7	13.5	2.6	0.6	0.8	N/A	N/A	3.0	3.0	2.0	Max
Drawdown period (2008 - 2012) - Dollars left at end of 5 years	\$0K	lasts < 5 yrs, 3.5 years	\$24K	hsts < 5 yrs, ~ 4.9 years	lasts < 5 yrs, ~ 4.7 years	last < 5 yrs	last < 5 yrs	last < 5 yrs	lasts < 5 yrs, ~ 4.5years	\$35K	lasts < 5 yrs, ~ 4.9years	OK if >\$10K
Drawup period (2015 - 2019) - Dollars left at end of 5 years	\$0K	\$23K	\$12K	l ısts < 5 yrs, ~ 4.7 years	N/A	N/A	N/A	N/A	\$15K	\$70K	\$13K	Max
Using Average 20 year return for 5 years	\$0K	\$24K	\$19K	\$24K	\$7K	\$7K	N/A	N/A	\$53K	\$65K	\$38K	Max
Average 20 year return assumption	very small	5.2%	4.2%	5.2%	1.6%	1.8%	N/A	N/A	9.9%	11.7%	7.5%	Max
No inflation, No expense impact,	No tax impact									ighost rick		Built

Simplest

Highest risk & potential value

FI Building Blocks CASH EQUIVALENTS ... DB#31 <u>AFTER</u> Tax <u>Conclusions</u>



If you are in a tax advantaged account and would like to do better that leaving your money in cash, there are two options presented here:

- **1.** The simplest put the money in VWITX/VWIUX Simple Single Ratio ~ 13.5, after spending \$40K/year for 5-years in a starting with an account funded to \$200K, you will have ~\$12K* - \$24K* left over to spend.
- 2. The most gain & risk, yet most complex put 20% in VWITX, 80% in DLR stock. Simple Single Ratio ~ 3, after spending \$40K/year for 5-years starting with an account funded to \$200K, you will have ~\$35K* - \$70* left.

*The range is the 5-year period starting in the last turndown (2008-2012) and 5 year period starting in the last turnup (2015-2019).

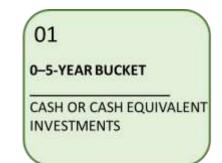
FI Bu	ilding	Bloc	cks							01
				•••	DB#31 <u>A</u> A	- <i>TER</i> Ta		IMPLI	ER	0-5-YEAR BUCKET
	Non taxable Account	WINX / VWIAX	20% VWITX / 80% DLR			Taxable Account	VWITX	20% VWITX / 80% DLR		
	NOTACCOL	40% stocks / 60% Bond	80% stocks / 20% Bond			ACCOL	100% Muni Bond	80% stocks / 20% Bond		
	Simple Single Ratio (SSR)	3.9	4.0	WANT:		Simple Single Ratio (SSR) after tax	13.5	3.0	WANT:	
	Drawdown period (2008 - 2012) Dollars left at end of 5 years	\$22K	\$101K	Max		Drawdown period (2008 - 2012) Dollars left at end of 5 years	\$24К	\$35К	Max	
	Drawup period (2015 - 2019) - Dollars left at end of 5 years	\$32K	\$127K	OK if >\$10K		Drawup period (2015 - 2019) - Dollars left at end of 5 years	\$12K	\$70K	OK if >\$10K	
	Average of drawdown & drawup	27	114	Max		Average of drawdown & drawup	18	52.5	Max	
	Initial amount	200	200	Max		Initial amount	200	200	Max	
	Percentage of initial amount left after \$40K/year spend	14%	57%	Max		Percentage of initial amount left after \$40K/year spend	9%	26%	Max	
	high SSR ratio of ! - 40% stock/60%				Taraot a	high SSR ratio of .	5-year gai	ins over si	ngle ye	ar loss

Method 4 – 40% stock/60% Bond (VWINX/VWIAX)– steady & low risk

Method 7A – 20% Muni-bond / 80% single stock (DLR) – higher gains & much higher risk Method 3 – 100% Bond (VWIUX/VWITX)– steady & low risk Method 7A – 20% Muni-bond / 80% single stock (DLR) – higher gains & much higher risk

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Some thoughts & Experience –

This is more a study of ranges & exact numbers, hopefully enough to get you started. Considerations not recommendations.

We could chase further returns...there is a reason it is difficult to find AFTER tax calculators, this stuff takes time.

For years I used an approach in an after-tax account that I knew I would spend to zero while I did the 'Roth conversion ladder', allocating 2/3 actual cash & 1/3 select dividend paying stocks. I later became more 'aggressive' by ¼ actual cash, 1/3 selected dividend paying stocks & ~ 2/5 WVINX/VWIAX. Both of these are simplified & simulated in the Methods presented.

Observation: You will need key selected dividend paying stocks that perform like DLR to win and this is unlikely.

Method 7B also gives a glimpse of the impact of being in a lower tax bracket with 15% capital gains instead of 20% with an REIT fund tax rate of 13%. Even at a lower tax rate this is at best equivalent to VWIUX/VWITX.

To beat VWIUX/VWITX you need a very high performing stock with little downside. Keep looking if you like ...

My lessons: Shift 'I will spend it in the next 5 years after tax account' to VWIUX/VWITX & wait for DLR to go 'on sale'.



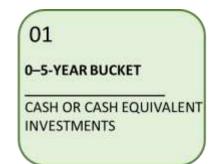


01 0-5-YEAR BUCKET CASH OR CASH EQUIVALENT INVESTMENTS

APPENDIX

- How I calculated the impact of FEDERAL TAX





How did I calculate the impact of AFTER federal tax?

I created a 'Rate of Return reduced by Taxes'

Using Fidelity/Vanguard data returns without taxes to 'Highest marginal tax rate, no state taxes included and "After taxes on distributions and sale of fund shares - 5yrs"

		Rate of Return reduced by Taxes*		AVG 20 yr return reduced					
				From Before Tax	To: After Tax				
VWIAX	VWINX	30%	40% stock / 60% bond	7.6%	5.2%				
VDIGX		25%	100% dividend stock fund	8.9%	6.7%				
VTSAX		23%	100% stock	8.0%	5.2%				
STOCK		20%	actual stock LOW	16.0%	13%				
STOCK		20%	actual stock DLR	16.7%	13%				
VGSLX	VGSIX	13%	100% REIT	12.8%	10%				
VWIUX	VWITX	5%	100% tax exempt bond	4.4%	4.2%				



For

Example:

VTSAX

VTSAX					
	1 Yr	3 Yrs	5 Yrs	10 Yrs	Life
Before Taxes					
Vanguard Total Stock Market Index Fund Admiral Shares	6.45%	10.03%	10.02%	13.73%	9.64
CRSP US Total Mkt Index	6.47%	10.04%	10.03%	13.71%	
Vanguard Spliced Total Stock Market Index	6.47%	10.04%	10.03%	13.74%	
Large Blend	3.74%	8.15%	8.35%	12.22%	
After Taxes on Distributions					
Vanguard Total Stock Market Index Fund Admiral Shares	5.95%	9.42%	9.37%	13.12%	6.32
Large Blend	1.91%	6.19%	6.54%	10.68%	
After taxes on distributions and sale of fund shares					
Vanguard Total Stock Market Index Fund Admiral Shares	4.12%	7.63%	7.72%	11.32%	5.53
Large Blend	2.54%	5.83%	6.09%	9.70%	
	92.0%	93.8%	93.4%	95.7%	
	63.7%	76.0%	77.0%	82.6%	
	8.0%	6.2%	6.6%	4.3%	
	36.3%	24.0%	23.0%	17.4%	

I then applied this 'After taxes on distributions & sale of share funds' to portfolio analyzer.com returns of the stated periods. See FI_CASH_EQUIV_71620_rev3_wTAX_72320.xlsx

0-5-YEAR BUCKET

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CASH OR CASH EQUIVALENT INVESTMENTS

