Taxable Concentrated Risk

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Northfield Seminar Stowe, Vermont March 27, 2006



Concentrated Risk Problems

- Create difficult decisions.
 - Emotional and business ties.
 - Complex analysis required.
 - Some otherwise obvious remedies fall under tax authority "constructive sale" rules.

Concentrated Risk Problems

May be dealt with by:

- Hedging, usually with a "collar" in some form to avoid a cash outlay.
- Borrowing on margin and diversifying with the proceeds.
- Pooling risks, as in an exchange fund.
- Or...



Concentrated Risk Problems

- May be dealt with more simply by:
 - Diversifying concentrated risk better in the rest of the portfolio (complementary fund).
 - Selling much of the position and paying the taxes.
 - Doing nothing the lifetime horizon is short and we need the money that would go to taxes.



Collar Hedging

- Finance the purchase of a put hedge through the sale of a call.
 - Custom fees can be high and puts generally cost more than symmetric out-of-the-money calls.
 - Asymmetric tax law can trigger short-term gain treatment but any losses are long-term and unavailable until end of multi-year contract.
- Prepaid Variable Forward Wrapper
 - Can skirt margin limitations.
 - Can trigger constructive sale if too little risk



Using Borrowed Funds

One method:

- Borrow on margin but offset much of the risk through a short-sale on a market index.
- Buy portfolio suitable for tax loss harvesting
- Sell off loss positions in new portfolio
 - To offset taxes on coordinated partial sales of concentrated position.

Considerations:

- Leverage has involved a financing decision.
- Unfavorable tax treatment on short sales.



Risk Pooling

Exchange Funds

- Investors with similar problems pool funds.
- Cleanest way to get diversification.
- But government rules require an additional activity
 - borrowing to buy real estate is typical.

Charitable Remainder Trusts

- Charity can diversify without tax
- But makes sense only if charity attractive otherwise.



The Simple Alternatives

Complementary funds

- Constrained mean-variance optimization.

Sell partial position and pay tax

- Good solution with long lifetime and low tax rate.
- But tax payment may be large enough relative to discretionary wealth to justify financing analysis.

Do nothing.

- Best if funds will be gifted or receive step-up in cost basis...
- within a period too short to recover tax payment through reduced risk or added return.



Concentrated Wealth Example

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Concentrated Stock	\$	1,000,000
Residual Assets	\$ 1,000,00	

Pres Value C Tax Liability \$ 103,962
Other Liabilities \$ 1,500,000
Initial Discretionary Wealth \$ 396,038
Initial Disc With % 19.80%

Press to find best current plan for concentrated stock.

EXPANDED PROBLEM INPUTS

Tax Liab. Discnt Rate	6.00%
Conc Stk Cost Basis	\$ 125,000
Unrealized Gain %	87.50%
Current Gains Tax	15.00%
Future Gains Tax	15.00%
Years to Liquidation	4
Future Tax Liability	\$ 131,250

	Concentrated Stock	Replacement Stocks	Replacement Bonds	Residual Assets
Initial Weights	50.0%	0.0%	0.0%	50.0%
ldeal Weights	1.4%	43.5%	5.1%	50.0%
Difference	-48.6%	43.5%	5.1%	0.0%
Trading Cost	0.80%	0.20%	0.10%	0.25%
Mean Pre-Tax Return	15.0%	10.0%	5.0%	8.0%
Std Dev Pre-tax Rtn	40.0%	15.0%	6.0%	12.0%
EffectiveTax-Rate	14%	14%	35%	25%
Return Correlations	_			
Concentrated Stock	1.00	0.60	0.00	0.50
Replacement Stocks	0.60	1.00	0.00	0.60
Replacement Bonds	0.00	0.00	1.00	0.40
Residual Assets	0.50	0.60	0.40	1.00
				0
Maximum Weight	50.00%	50.00%	50.00%	50.00%
Minimum Weight	0.00%	0.00%	0.00%	50.00%



Concentrated Wealth Example -- II

INTERMEDIATE CALCULATIONS

INTERMEDIATE CALCULATIONS					
Concentrated Stock Total Assets	\$ \$	27,376 Total 1,862,411	Weights	0 100.0%	
Pres Value C Tax Liability Other Liabilities Discretionary Wealth	\$ \$ \$	2,650 Disc 1,500,000 Leve 359,761	VVIth % rage	19.32% 5.18	
-		Concentrated Stock	Replacement Stocks	Replacement Bonds	Residual Assets
after-tax rate after-tax mean		86% 12.90%	86% 8.60%	65% 3.25%	75% 6.00%
Mean Contributions		0.18%	3.74%	0.17%	3.00%
after-tax risk		34.40%	12.90%	3.90%	9.00%
after-tax risk matrix		0.3440 0.0000 0.0000 0.0000	0.0000 0.1290 0.0000 0.0000	0.0000 0.0000 0.0390 0.0000	0.0000 0.0000 0.0000 0.0900
Covariance matrix		0.118336 0.0266256 0 0.01548	0.0266256 0.016641 0 0.006966	0 0 0.001521 0.001404	0.01548 0.006966 0.001404 0.0081



Concentrated Wealth Example -- III

RESULTS		
Portfolio Mean Return Portfolio Variance Disc Wealth Mean Disc Wealth Variance	0.0709 Port Mean Return 0.0088 Portfolio Risk 0.3668 0.2368	7.09% 9.40%
Expected Subsequent Grow	24.84%	
Current % Loss of Discretion Growth Adjustment for Initia	9.16% - 2.40 %	
Expected Growth Rate of Di	22.44%	



Useful Tools for Analysis

- Effective Tax Rates:
 - Short-term gain treatment (highest)
 - Dividends
 - Effective long-term gain
 - Heirs step-up in basis and gift exclusions (lowest)
- Mean-variance optimization, embedded within...
- Discretionary wealth financing paradigm.
 - Financing objective: LE L²V/2.



A question for discussion...

A new client holds \$30 million dollars in low cost basis Microsoft stock, and \$5 million in other financial assets, plus a magnificent house overlooking the water.

What do you ask them?

What do you tell them?

