

Our Mission: To improve the practice of public finance in California by providing responsive and reliable information, education and advice

Rebalancing Your Portfolio

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Inspiring Action



Inspiring Action



Inspiring Action



Portfolio Roadmap

When managing a portfolio, you need a plan

- To have funds available when needed
- To avoid unnecessary risk
- To optimize returns

Effect of Time on Portfolio

• If you do nothing, the portfolio will change



What Is Rebalancing?

Bringing the portfolio back in line with the strategy

Why Rebalance?

Maintain portfolio relative to a target

- Something changes
 - Market conditions
 - Credit quality
 - Investment strategy

Maintain Portfolio Relative to a Target

Average maturity or duration

Matching assets to known expenditures

Target: Average Maturity or Duration



Target Investments to Spending Dates



Something Changes: Market Conditions

Rising rates

Falling rates

Shape of yield curve

Changes of sector yield spreads

Market Conditions: Rates Drop

2-Year U.S. Treasury Yield History March 2007 – October 2009



Market Conditions: Rates Rise

2-Year U.S. Treasury Yield History March 2007 – October 2009



Market Conditions: Rates Drop Again

2-Year U.S. Treasury Yield History March 2007 – October 2009



Yield Curve Is Extremely Steep

Spread Between 2-Year and 10-Year U.S. Treasury Note Yields October 1, 1999 – October 8, 2009



Yield Curve

U.S. Treasury Yield Curve December 31, 2008 versus October 8, 2009



Market Conditions: Shape of Yield Curve



Changes in Sector Yield Spreads





Something Changes: Credit Quality

Changes in corporate ratings

Newspaper headlines

Credit Quality: Corporate Downgrade



Source: Bloomberg

Credit Quality: Newspaper Headlines

ALL STREET JOURNAL

"CIT Group Inc. said it was forced to defer a \$22 million interest payment due next month after failing to meet some conditions in the debt agreement."

"There has to be some concern about the growth of the portfolios, because that's where the risk is." 9/13/09

Something Changes: Investment Strategy

Change in expected cash flow needs

Change in risk tolerance

Desire to improve investment income

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How to Rebalance

How to Rebalance

Buy new securities to restructure portfolio

- Cash on hand
- Cash from matured securities
- Cash from sold security

Rebalance with Cash on Hand



Rebalance with Cash from Maturity

Portfolio with Laddered Maturity Structure



Rebalance with Cash from Sale



Rebalancing to Maintain the Target Structure

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Mechanics of a Trade



Trade to Extend Duration in Rising Rate Environment



Trade to Extend Duration in Rising Rate Environment

- Extend duration
- Capture attractive yield

	Sale	Purchase		
Security	FNMA Notes	FHLB Notes		
Time to Maturity	0.6 years	3.0 years		
Par	\$1.7 million	\$1.7 million		
Yield on Cost	2.55%	5.88%		
Gain/(Loss)	(\$28,900)	-		
Income to Original Maturity	(\$26,100)	\$58,900		
Net Earnings Impact to Matur	\$3,900			

Trade to Swap Sectors and Extend Duration in Falling Rate Environment



Trade to Swap Sectors and Extend Duration in Falling Rate Environment

- Extend duration
- Realize market value appreciation
- Trade into sector with best relative value

	Sale	Purchase			
Security	FHLMC Notes	U.S. Treasury notes			
Time to Maturity	0.5 years 3 years				
Par	\$5.5 million	\$5.5 million			
Yield on Cost	3.16%	1.25%			
Gain/(Loss)	\$73,500	-			
Income to Original Maturity	(\$95,000)	\$38,000			
Net Earnings Impact to Matur	\$16,500				

Rebalancing to Respond to a Change

Why Rebalance?

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Changing Market Conditions

2-Year U.S. Treasury Yield History October 1999 – October 2009



Rebalancing Trades

Sell	Buy
Short term	Long term
Long term	Short term
Callable	Bullet
Deteriorating credit	Higher credit
High credit	Medium credit

Sector Choice



Sector Choice

Yield Curves October 8, 2009



Picking the Best Maturity Range

 Considering yields are low and may rise, but the yield curve is very steep, should you buy short or long?

– Which would you buy?

- 1-year investment @ 0.40%
- 3-year investment @ 1.47%

Frame the question differently

 What rate do you have to earn for the last two years to breakeven?





- Do you think that rates will rise more than 100 basis points in the next year?
 - If no, buy the 3-year investment
 - If yes, buy the 1-year



- How could you know if rates will rise more than 100 basis points in the next year?
 - Frame the question differently
- There are 8 Fed meetings in the next year.
- Is it likely that the Fed will raise rates 25 basis points at 4 of the 8 meetings?
 - If no, interest rates will remain low and the 3-year is a good choice.
 - If yes, then the 1-year is a good choice.

Your Turn: Breakeven Analysis

 Considering yields are low and may rise, but the yield curve is very steep?

– Which would you buy?

- 1-year Agency @ 0.36%
- 2-year Agency @ 1.10%

Your Turn: Breakeven Analysis

 What rate do you have to earn for the last year to breakeven?





How Quickly Will Rates Rise?

- The second step in breakeven analyses is determining if you think that the breakeven rate will come to be.
 - But how can you know?

- 1. Yield curve analysis
 - The yield curve reflects the market's expectations of future rates.
- 2. Federal Reserve monetary policy
 - Federal Reserve has indicated it will keep rates low for an "extended period of time."

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Follow the News

Bank Failures Tally Tops 98 In 2009 -CNNMoney.com, October 2, 2009

MBIA Downgrade Brings Up Its 'Overlooked' Commercial Exposure

Reuters, September 28, 2009

Dollar Falls After Australia Unexpectedly Raises Interest Rates – BLOOMBERG NEWS, OCTOBER 6, 2009

U.S. Debates Fate of CIT, a Small-Business Lender

THE NEW YORK TIMES, JULY 14, 2009

B. of A. To Pay \$425 mln To End Government Asset Guarantee-CBS MarketWatch, September 21, 2009

Bernanke Blasts AIG For 'Irresponsible Bets' That Led to Bailouts

-Washington Post, March 4, 2009

At Lehman, Allaying Fears About Being the Next to Fall

-THE NEW YORK TIMES, MARCH 18, 2008

Monitor News in Corporate Sectors in Your Portfolio

Lehman Brothers: A Cautionary Tale Timeline of the Bankruptcy



Piece of History



Not For Sale



The Warning Signs – Lehman Brothers



Source: Bloomberg

The Warning Signs – Lehman Brothers



Source: Bloomberg

The Warning Signs – Lehman Brothers



1. Sep. 9 – Put on negative credit watch by S&P

2. Sep. 15 – Downgraded from A to CCC- by S&P 3. Sep. 16 – Downgraded from CCC- to D by S&P

Warning Signs



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Change in Strategy

Go longer

Go shorter

Change Strategy for Market Reasons

Waiting for changes to the current trend.

2-Year U.S. Treasury Yields March 2007– October 2009



Source: Bloomberg

Risk and Return Increase With Duration

Common Total Return Benchmarks 10 Years ended September 30, 2009							
Merrill Lynch U.S. Treasury Index	Duration	Overall Return	Cumulative Value of \$50 Million	Quarters With Negative Returns			
LAIF	0.50 Years	3.54%	\$70,802,199	0 out of 40			
1-3 Year	1.93 Years	4.54%	\$77,944,010	4 out of 40			
1-5 Year	2.67 Years	5.02%	\$81,639,103	9 out of 40			
3-5 Year	3.89 Years	6.00%	\$89,574,805	14 out of 40			

Source: Bloomberg-Merrill Lynch Global Bond Indices and LAIF website

Securities with Longer Maturities Outperform



LAIF and Merrill Lynch U.S. Treasury Index Returns

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Past 10 Years
LAIF	5.35%	6.39%	4.95%	2.69%	1.74%	1.66%	3.05%	4.74%	5.25%	3.19%	3.88%
ML 1-Yr TSY	4.03%	7.32%	7.28%	3.28%	1.45%	0.81%	2.36%	4.32%	5.95%	4.75%	4.13%
ML 1-3 Yr TSY	3.06%	8.00%	8.30%	5.76%	1.90%	0.91%	1.67%	3.96%	7.32%	6.61%	4.71%

Questions?

• Thank you!