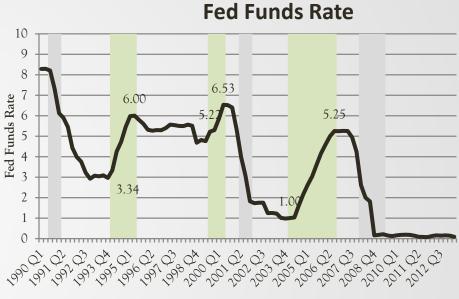
R&C Bankers Conference Federal Reserve Bank of Boston October 16, 2013

Presenter: Ron Adams

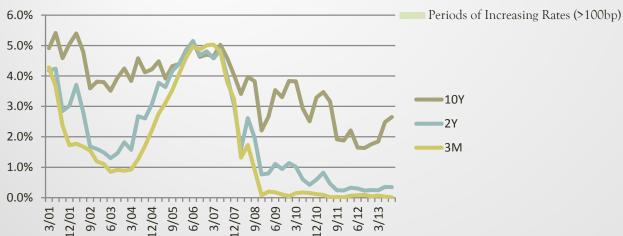
- Where are we now
- What happened in the past during periods when rates rose sharply
- What might happen looking ahead
- What are some considerations in planning for future rate changes

• Where are we now?

Interest Rate Environment



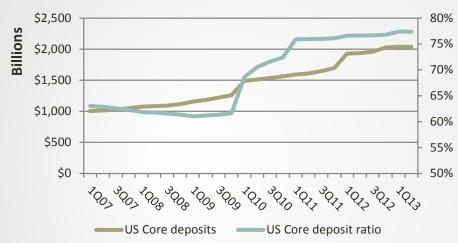
Treasury Yields



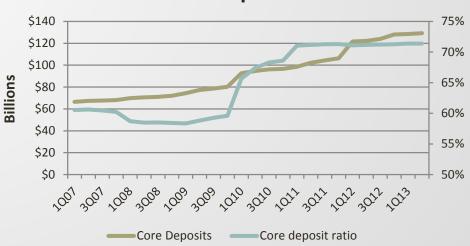
NBER Recession Indicator

Core Deposit Growth Robust

US Community Bank Core Deposits



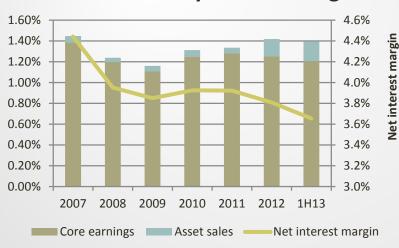
First District Community Bank Core Deposits



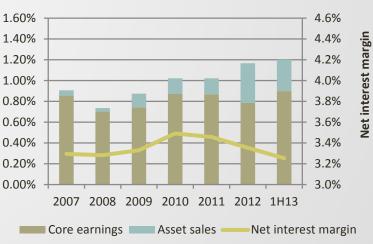
Earnings Implications

- Shrinking margins
- Loss of loan sales

US Community Bank Earnings

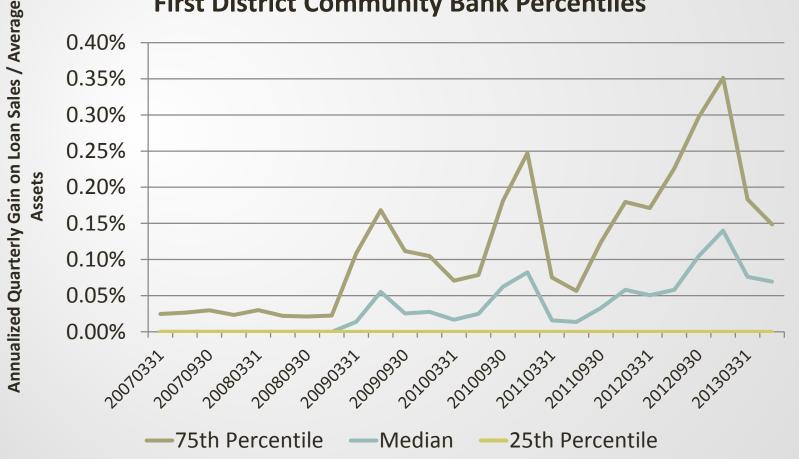


FD Community Bank Earnings



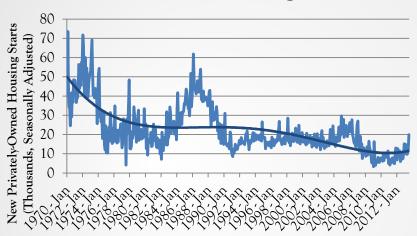
Negative Trend in Gain on Loan Sales / Average Assets



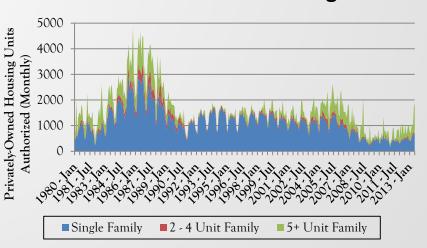


Housing Rebounding?

Massachusetts Housing Starts

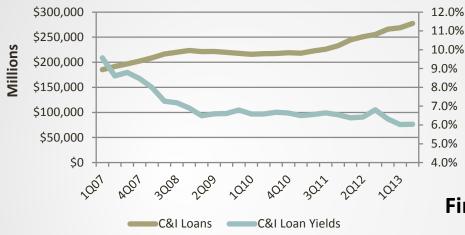


Massachusetts Building Permits



Modest Commercial Loan Growth

US Community Bank C&I Loans

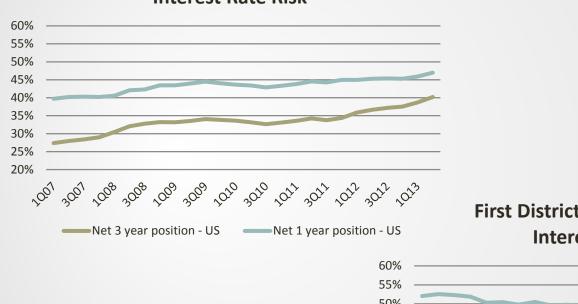


First District Community Bank C&I Loans



Extending portfolios for yield

US Community Banks Interest Rate Risk



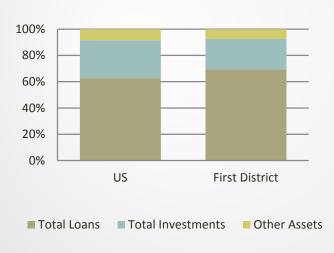
First District Community Banks Interest Rate Risk



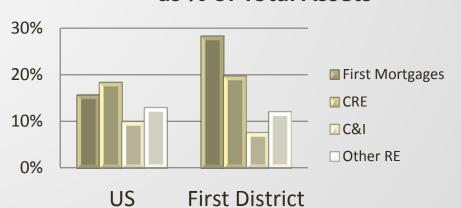
High Proportion of Mortgages in New England

 First District community banks are more loaned up and have more first mortgages

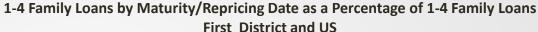
Community Bank Asset Composition

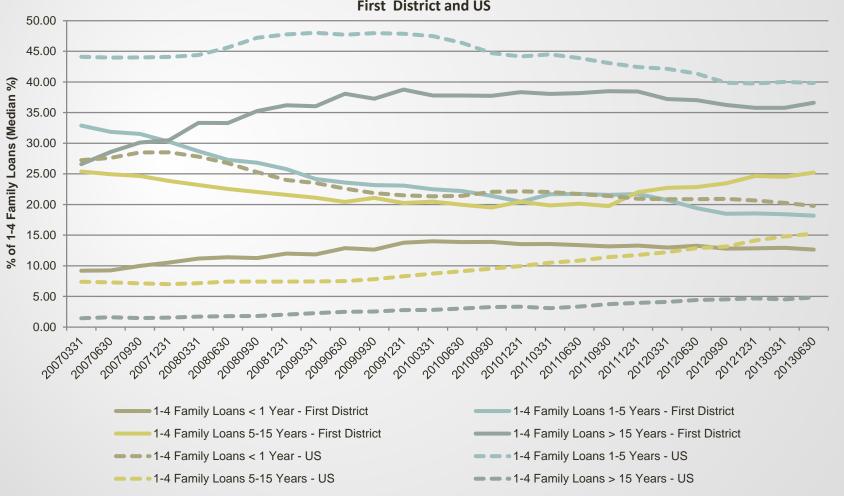


Community Bank Loan Portfolio as % of Total Assets

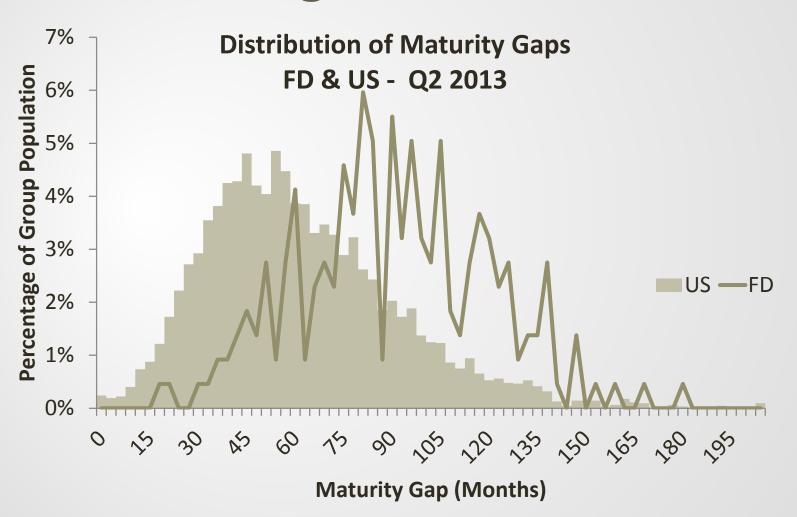


High proportion of 1st Mortgages mature >15 Years

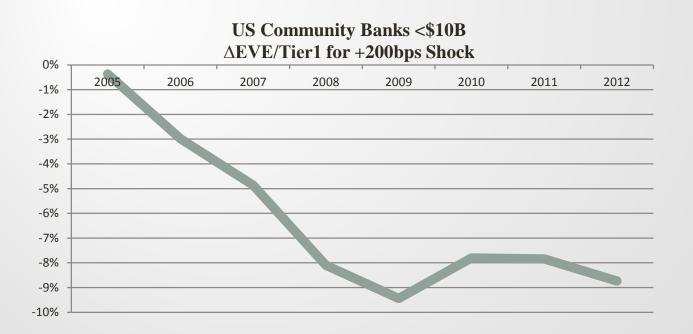




Mind the GAP-NE Community Bank GAPs are Longer than US

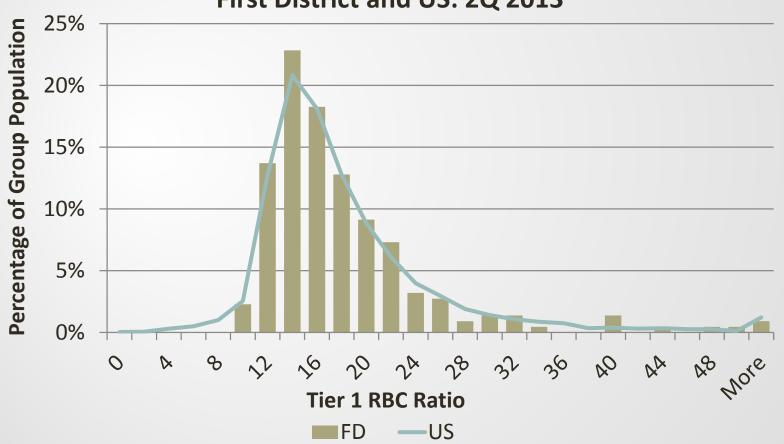


- Surveillance tool
 - Economic Value of Equity



Capital Remains Solid





Where are we now summary

- Influx of deposits with unknown duration and repricing expectations
- Opportunities to sell loans and investments may have peaked
- Loan growth tempered
- Longer duration assets have resulted in higher maturity gap that could negatively impact both earnings and capital
- Capital cushions are solid.

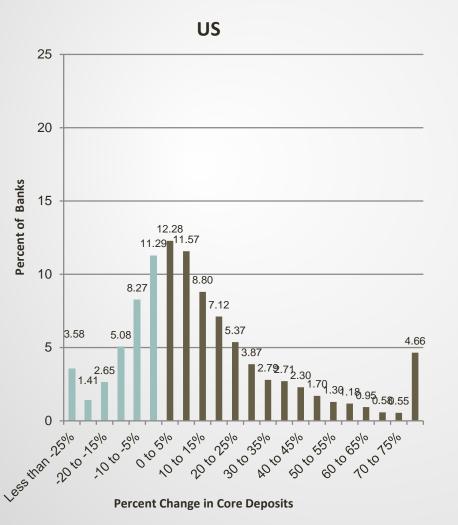
- What Happened in the Past?
- Assess 2004-2006 period

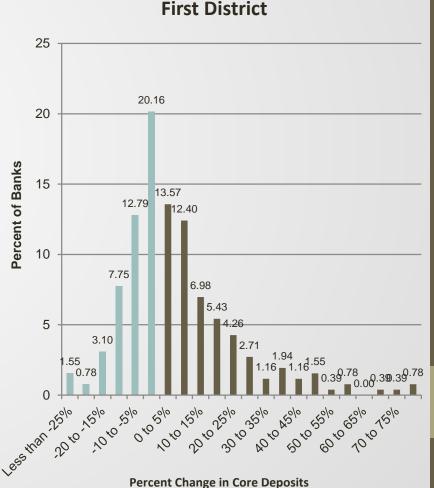




Core Deposits Experience Was Mixed

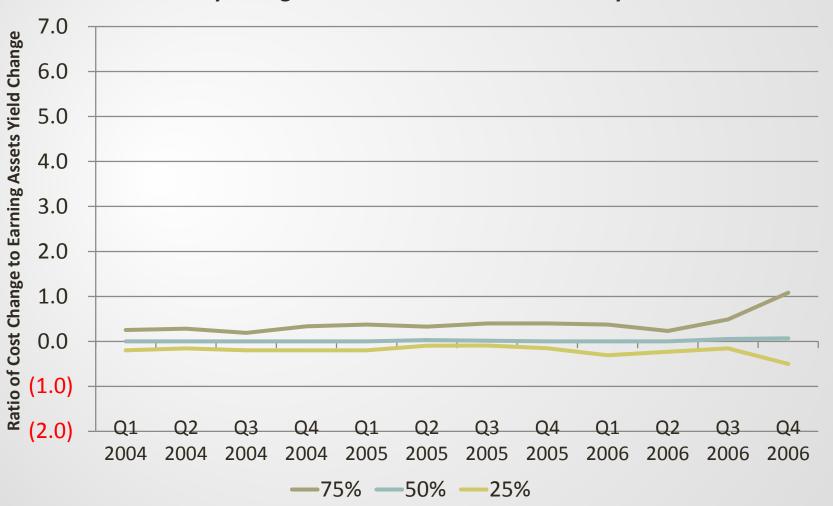
Change in Core Deposits 1Q04-4Q06





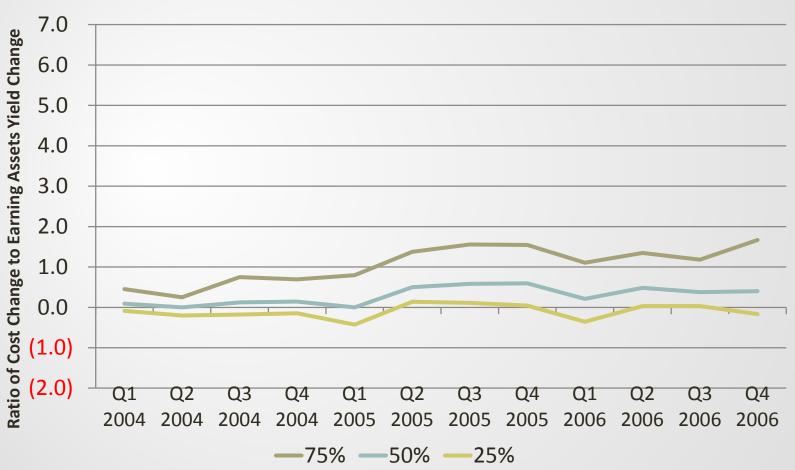
Transaction Costs & Earning Assets Yield Change Ratio

Quarterly Change Ratio – First District Community Banks



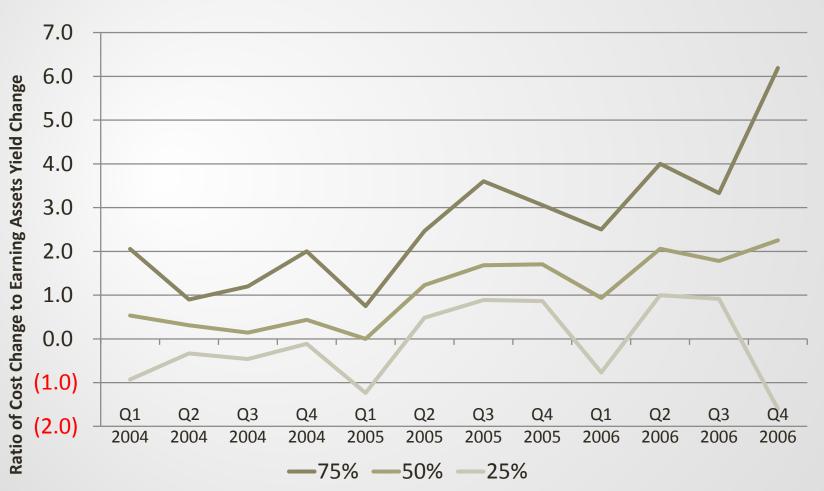
Savings/MM Costs & Earning Assets Yield Change Ratio

Quarterly Change Ratio – First District Community Banks



Time Deposits Under \$100k Costs & Earning Assets Yield Change Ratio

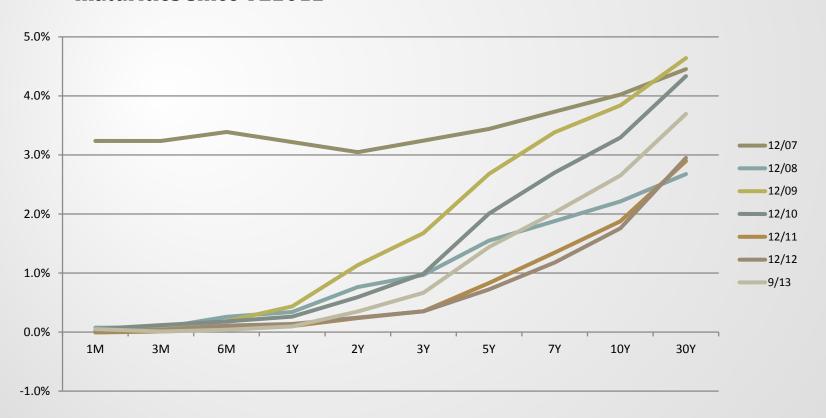
Quarterly Change Ratio – First District Community Banks



• Where Are We Going?

Interest Rate Yield Curves

- We have experienced a parallel downward shift and steepening of the yield curve
- Most recently a steepening of the curve: 70-90bp increase In 5Y-30Y maturities since YE2012



Possible Rate Scenarios

- **Flattening**: 2007 prior to start of crisis-short-term rates increased at a faster rate than long-term rates.
- Shock: 2008/2009 Rates move down aggressively coupled with quantitative easing and slowing economy.
- Steepening 2009/2010: Short-term rates remain low while long-term rates increased.
- Parallel: 2011/2012. The long end came down as benefited by quantitative easing.
- **Current 2013**: Rates remain at current levels? Possibly for a long time?
- What should you consider in managing IRR across the various scenarios
 - Asset strategies
 - Liability strategies
 - Hedging/Matched Funding Strategies

Questions to Consider: Asset Strategies

- Opportunity to reinvest cash flows:
 - What will the impact of varying PPS have on your estimated cash flows? And opportunities to reinvest
- What is the cost benefit of various strategies?
 - selling long duration residential loan originations
 - increasing yields in the investment portfolio, while taking a balanced approach CMOS or callable bonds
 - retaining versus selling investments

Questions to Consider: Deposit Retention

- Will retirees look to maintain risk free deposits?
- Will there be a movement to nondeposit products-driven by market dynamics?
- How will the deposit base associated with the new branches you opened in the last 5 years respond to the change in rates versus legacy branches?
- When will mean reversion kick in to restore the traditional deposit mix with a shift out of low cost nonmaturity deposits back to time deposits? Traditional view 67 NMD/33 Time now 87/13 on average.

Questions to Consider: Deposit Sensitivity

- estimating the stickiness of deposits (surge deposits);
- estimating the impact of rate changes on deposits in terms of shifts into other products (NMD to Time);
- determining products that you can adjust the pricing on to cause a shift into to reduce the full blown market rate affect (tiered money market accounts);
- and your expectations for the mean reversion from non maturity deposits to time deposits (overall shift from NMD to time).

Question to Consider: Hedging Strategies

- Under what circumstances it benefit your bank to hedge certain instruments?
- Interest Rate Swaps (inclusive of forward swaps) i.e.
 converting fixed rate payments to floating or the reverse i.e.
 convert variable rate to fixed TPS to fixed by entering into a
 pay float and received fix=expense is fixed over the duration
 of the hedge.
- Questions for ALCO-assessing earnings impact if cash flow hedge is imperfect. From a cost benefit perspective you may find that a micro hedge is more appropriate than hedging a pool of loans.

Decision Tree

- Act now or wait? What do you need to weather the current period and reduce longer term rate risk? Take a hit today to reposition the balance sheet? If no action is taken what capital resources do you have to cover overhead?
- Immunizing against IRR? At what point do you consider term funding in a match funding scenario to lock in a margin or enter into a derivative contract?
- What steps can you take to reduce IRR in the long run?
 Reduce asset duration over time? Increase liability duration over time?