CMTA Annual Conference Presenting Investment Information

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The Foundation of an Investment Program – 53600.5



Model Investment Policy

Safety: Safety of principal is the foremost objective of the investment program. Investments of the (Local Agency) shall be undertaken in a manner that seeks to ensure the **preservation of capital** in the overall portfolio. To attain this objective, the (Local Agency) will diversify its investments by investing funds among a variety of securities with independent returns.

Liquidity: The (Local Agency's) investment portfolio will remain sufficiently liquid to enable the (Local Agency) to meet all operating requirements which might be reasonably anticipated.

Return on Investments: The (Local Agency's) investment portfolio shall have the objective of **attaining a comparative performance measurement or an acceptable rate of return throughout budgetary and economic cycles**. These measurements should be commensurate with the (Local Agency's) investment risk constraints identified in the Investment Policy and the cash flow characteristics of the portfolio.



Monthly Reporting Requirements

53607: The authority of the legislative body to invest or to reinvest funds of a local agency, or to sell or exchange securities so purchased, may be delegated for a one-year period by the legislative body to the treasurer of the local agency, who shall thereafter assume full responsibility for those transactions until the delegation of authority is revoked or expires, and **shall make a monthly report of those transactions to the legislative body**. Subject to review, the legislative body may renew the delegation of authority pursuant to this section each year.

Sample Excel Transaction Report

| Trade Dt | SetDt | Side | Security | Cusip | Issuer | Price | Quantity | Coupon | Principal | Acc Int | YTM |
|----------|---------|------|---------------------|-----------|-------------|--------------|-----------------|--------|-----------------|------------|-------|
| 3/8/13 | 3/14/13 | Buy | FNMA 0 3/4 03/14/17 | 3135G0VM2 | FNMA | 99.87500000 | 25,000,000.00 | 0.750 | 24,968,750.00 | 0.00 | 0.778 |
| 3/14/13 | 3/14/13 | Sell | CSCO 1.625 03/14/14 | 17275RAJ1 | Cisco | 101.23800000 | (20,000,000.00) | 1.625 | (20,247,600.00) | 0.00 | 1.374 |
| 3/19/13 | 3/26/13 | Buy | MDT 1 3/8 04/01/18 | 585055BA3 | Metronic | 99.85000000 | 5,000,000.00 | 1.375 | 4,992,500.00 | 0.00 | 1.421 |
| 3/20/13 | 3/26/13 | Buy | SYK 1.3 04/01/18 | 863667AD3 | Stryker | 99.56500000 | 20,000,000.00 | 1.300 | 19,913,000.00 | 722.22 | 1.357 |
| 3/20/13 | 3/21/13 | Sell | T 2 04/30/16 | 912828QF0 | US Treasury | 104.91796875 | (20,000,000.00) | 2.000 | (20,983,593.75) | 155,801.10 | 0.385 |
| 3/28/13 | 4/1/13 | Sell | T 1 3/4 03/31/14 | 912828KJ8 | US Treasury | 101.57031250 | (60,000,000.00) | 1.750 | (60,942,187.50) | 2,868.85 | 0.194 |
| 3/28/13 | 4/1/13 | Buy | FNMA 0 1/2 09/28/15 | 3135G0NV1 | FNMA | 100.34780000 | 20,000,000.00 | 0.500 | 20,069,560.00 | 833.33 | 0.331 |
| 3/28/13 | 4/1/13 | Buy | T 2 1/4 01/31/15 | 912828MH0 | US Treasury | 103.69921876 | 25,000,000.00 | 2.250 | 25,924,804.69 | 93,232.04 | 0.241 |



Sample Inv. Management Software Report

Portfolio Management Activity By Type February 1, 2013 through February 28, 2013

| CUSIP | Investment # | Issuer | Beginning Balance | Stated Rate | Transaction Date | Purchases or Deposits | Redemptions or Withdrawals | Ending Balance |
|----------------|-----------------|---------------------|----------------------|----------------|---------------------|-----------------------|----------------------------|-------------------|
| Federal Agency | / Non-Callables | | | | | | | |
| 3133783D1 | 6193 | FHLB | | 0.300 | 02/08/2013 | 0.00 | 9,988,800.00 | |
| | | Subtotal | 189,559,960.00 | | | 0.00 | 9,988,800.00 | 179,571,160.00 |
| Federal Agency | / Callables | | | | | | | |
| 3134G3NZ9 | 6208 | FHLMC | | 0.550 | 02/13/2013 | 0.00 | 19,960,000.00 | |
| 3134G3A91 | 6911 | FHLMC | | 1.400 | 02/26/2013 | 19,910,000.00 | 0.00 | |
| 3135G0KK8 | 6310 | FNMA | | 0.650 | 02/26/2013 | 0.00 | 20,000,000.00 | |
| 3136G1CM9 | 6882 | FNMA | | 1.100 | 02/13/2013 | 20,000,000.00 | 0.00 | |
| | | Subtotal | 199,935,000.00 | | | 39,910,000.00 | 39,960,000.00 | 199,885,000.00 |
| Treasury Notes | ; | | | | | | | |
| | | Subtotal | 59,874,218.75 | | | | | 59,874,218.75 |
| Corporate Note | s | | | | | | | |
| 38141EB32 | 6903 | Goldman Sachs | | 1.600 | 02/22/2013 | 2,018,000.00 | 0.00 | |
| 459200HK0 | 6887 | IBM | | 1.250 | 02/08/2013 | 995,420.00 | 0.00 | |
| 24422ERW1 | 6888 | John Deere | | 1.200 | 02/11/2013 | 2,997,810.00 | 0.00 | |
| 58933YAC9 | 6904 | Merck | | 1.100 | 02/22/2013 | 1,996,160.00 | 0.00 | |
| 68389XAN5 | 6900 | Oracle Corp | | 1.200 | 02/21/2013 | 3,984,400.00 | 0.00 | |
| 931142DA8 | 6770 | Wal-Mart | | 1.625 | 02/22/2013 | 0.00 | 3,052,620.00 | |
| | | Subtotal | 50,333,830.00 | | | 11,991,790.00 | 3,052,620.00 | 59,273,000.00 |
| Corporate Floa | ters | | | | | | | |
| | | Subtotal | 3,000,000.00 | | | | | 3,000,000.00 |
| Commercial Pa | per Discounts | | | | | | | |
| 0556N0QD0 | 6905 | BNP Paribas | | 0.150 | 02/20/2013 | 4,999,562.50 | 0.00 | |
| 06416JPT4 | 6732 | Bank of Nova Scotia | | 0.210 | 02/27/2013 | 0.00 | 4,997,375.00 | |
| 0556N0P58 | 6828 | BNP Paribas Fin | | 0.150 | 02/05/2013 | 0.00 | 4,999,708.33 | |
| 0556N0PL3 | 6885 | BNP Paribas Fin | | 0.140 | 02/06/2013 | 4,999,727.78 | 0.00 | |
| 0556N0PL3 | 6885 | | | | 02/20/2013 | 0.00 | 4,999,727.78 | |
| 89233GSM9 | 6886 | Toyota | | 0.150 | 02/06/2013 | 4,997,833.33 | 0.00 | |
| | | Subtotal | 19,986,625.00 | | | 14,997,123.61 | 14,996,811.11 | 19,986,937.50 |
| | | | | | | | | |



Quarterly Reporting Requirements (Optional)

53646 (b) (1): The treasurer or chief fiscal officer **may** render a quarterly report to the chief executive officer, the internal auditor, and the legislative body of the local agency.

If you do provide a quarterly report (which you should!), it must:

- Be Submitted within 30 days After the Quarter End
- Include: Investment Type, Issuer, Maturity Date, Par Amount, Dollar Amount Invested, Description of Funds Managed by an Outside Party (including Securities Lending), the Market Value and Source for Any Security Managed by an Outside Party that is Not a Local Agency or in LAIF
- State that the Portfolio is in Compliance with the Policy or Manner in which it is Out of Compliance
- State the Ability of the Entity to meet its Expenditure Requirements for the Next 6 Months or Explain Why it Cannot

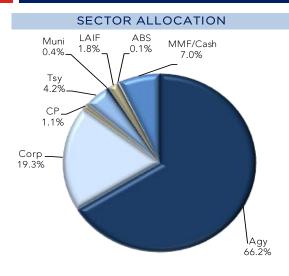


Sample Report

| Inv | <i>/</i> . | | | | Par | N | /laturit | ty | | Market | Dollar | Price |
|----------------|----------------------|-------|---------------------------|------------|----------------|-------|------------------|---------|------------|----------------|-----------------|----------------|
| Тур | e | | Issuer | Investment | Value | | Date Maturity | Market | Market | Value | Amt Inv | Source |
| CUSIP | Investment # | Fund | Issuer | Class | Par Value | YTM | Date | Price | Date | Market Value | Book Value | Pricing Source |
| Time Certifica | ites of Deposit | | | | | | | | | | | |
| SYSG130151 | G130151 | 1000 | Bank of the West | Fair | 100,000.00 | 0.120 | 08/31/2013 | 100.000 | 02/28/2013 | 100,000.00 | 100,000.00 | Bank of the V |
| SYS130531 | G130531 | 1000 | Heritage Bank | Fair | 100,000.00 | 0.400 | 02/22/2014 | 100.000 | 02/28/2013 | 100,000.00 | 100,000.00 | Heritage Ban |
| | | | | Subtotal | 200,000.00 | 0.260 | | | | 200,000.00 | 200,000.00 | |
| Negotiable Ce | ertificates of Depos | sit | | | | | | | | | | |
| 78009NKZ8 | G130494 | 1000 | Royal Bank of Canada | Fair | 25,000,000.00 | 0.100 | 05/01/2013 | 100.005 | 02/28/2013 | 24,999,250.00 | 25,000,000.00 | IDC |
| 89112WPX9 | G130422 | 1000 | Toronto Dominion Bank | Amort | 20,000,000.00 | 0.200 | 05/10/2013 | 100.004 | 02/28/2013 | 20,000,800.00 | 20,000,000.00 | IDC |
| 89112WRN9 | G130438 | 1000 | Toronto Dominion Bank | Fair | 10,000,000.00 | 0.170 | 03/15/2013 | 100.000 | 02/28/2013 | 10,000,000.00 | 10,000,000.00 | IDC |
| | | | | Subtotal | 55,000,000.00 | 0.149 | | | | 55,000,050.00 | 55,000,000.00 | |
| Commercial P | aper DiscAmort | izing | | | | | | | | | | |
| 06416JQ14 | G130536 | 1000 | Bank of Nova Scotia | Fair | 10,000,000.00 | 0.099 | 03/01/2013 | 100.000 | 02/28/2013 | 10,000,000.00 | 10,000,000.00 | IDC |
| 06416JQ14 | G130544 | 1000 | Bank of Nova Scotia | Fair | 20,000,000.00 | 0.079 | 03/01/2013 | 100.000 | 02/28/2013 | 20,000,000.00 | 20,000,000.00 | IDC |
| 19121ARN3 | G130508 | 1000 | Coca Cola Co | Fair | 20,000,000.00 | 0.100 | 04/22/2013 | 99.973 | 02/28/2013 | 19,994,600.00 | 19,997,111.11 | IDC |
| 19416EQC4 | G130539 | 1000 | COLGATE-PALMOLIVE CO | Fair | 10,000,000.00 | 0.080 | 03/12/2013 | 99.995 | 02/28/2013 | 9,999,500.00 | 9,999,755.56 | IDC |
| 36960LQ16 | G130526 | 1000 | Gieneral Electric Co | Fair | 10,000,000.00 | 0.100 | 03/01/2013 | 100.000 | 02/28/2013 | 10,000,000.00 | 10,000,000.00 | IDC |
| 36959HQ42 | G130545 | 1000 | General Electric Cap Corp | Fair | 25,000,000.00 | 0.050 | 03/04/2013 | 99.999 | 02/28/2013 | 24,999,750.00 | 24, 999, 895.83 | IDC |
| 43851TQU3 | G130533 | 1000 | HONEYWELLINTERNATIONAL | Fair | 20,000,000.00 | 0.100 | 03/28/2013 | 99.988 | 02/28/2013 | 19,997,600.00 | 19,998,500.00 | IDC |
| | | | | Subtotal | 115,000,000.00 | 0.083 | | | | 114,991,450.00 | 114,995,262.50 | |
| U.S. Agency (| Coupon Securities | | | | | | | | | | | |
| 313380RJ8 | G130384 | 1000 | Federal Home Loan Bank | Fair | 13,080,000.00 | 0.130 | 03/18/2013 | 100.000 | 02/28/2013 | 13,080,000.00 | 13,080,118.28 | IDC |
| 313372RK2 | G130411 | 1000 | Federal Home Loan Bank | Fair | 20,000,000.00 | 0.101 | 03/27/2013 | 100.061 | 02/28/2013 | 20,012,200.00 | 20,012,970.79 | IDC |
| 313372RK2 | G130416 | 1000 | Federal Home Loan Bank | Fair | 5,000,000.00 | 0.079 | 03/27/2013 | 100.061 | 02/28/2013 | 5,003,050.00 | 5,003,325.58 | IDC |
| 313372RK2 | G130421 | 1000 | Federal Home Loan Bank | Fair | 20,135,000.00 | 0.079 | 03/27/2013 | 100.061 | 02/28/2013 | 20,147,282.35 | 20,148,386.77 | IDC |
| 313372RK2 | G130426 | 1000 | Federal Home Loan Bank | Fair | 20,000,000.00 | 0.090 | 03/27/2013 | 100.061 | 02/28/2013 | 20,012,200.00 | 20,013,148.57 | IDC |
| 313379WT2 | G130537 | 1000 | Federal Home Loan Bank | Fair | 13,000,000.00 | 0.108 | 03/25/2013 | 100.003 | 02/28/2013 | 13,000,390.00 | 13,000,710.07 | IDC |
| 3133XES91 | GCP0086 | 1100 | Federal Home Loan Bank | Fair | 5,000,000.00 | 0.223 | 03/08/2013 | 100.094 | 02/28/2013 | 5,004,700.00 | 5,004,636.52 | IDC |
| 313372RK2 | GCP0103 | 1100 | Federal Home Loan Bank | Fair | 5,000,000.00 | 0.253 | 03/27/2013 | 100.061 | 02/28/2013 | 5,003,050.00 | 5,002,690.03 | IDC |
| 313378528 | GCP0104 | 1100 | Federal Home Loan Bank | Fair | 5,000,000.00 | 0.248 | 03/21/2013 | 100.001 | 02/28/2013 | 4,999,950.00 | 4,999,658.19 | IDC |
| | | | | Subtotal | 106,215,000.00 | 0.118 | | | | 106,262,822,35 | 106,265,644.80 | |



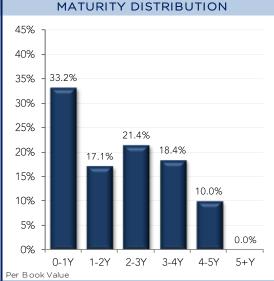
Recommended Additional Reports - Summary



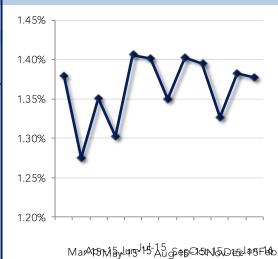


| | 2/29/16 | 1/31/16 |
|-------------------|-----------------|-----------------|
| | | |
| Market Value | \$2,768,748,716 | \$2,787,776,848 |
| Book Value* | \$2,745,891,208 | \$2,766,167,389 |
| Unrealized G/L | \$22,857,508 | \$21,609,459 |
| | | |
| Par Value | \$2,732,922,524 | \$2,751,785,457 |
| | | |
| Net Asset Value | \$100.832 | \$100.781 |
| | | |
| Book Yield | 1.38% | 1.38% |
| | | |
| Years to Maturity | 1.98 | 2.00 |
| | | |
| Modified Duration | 1.92 | 1.96 |

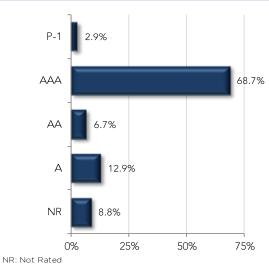
^{*}Book Value is Amortized



PORTFOLIO BOOK YIELD HISTORY



CREDIT QUALITY (MOODY'S)



| TO | D I | 1221 | IFP |
|----|-----|------|-----|

| Issuer | % Portfolio |
|--------------------|-------------|
| FNMA | 22.4% |
| FHLMC | 21.1% |
| FHLB | 20.9% |
| Bank of West MMF | 5.1% |
| U.S. Treasury | 4.2% |
| Wells Fargp | 3.3% |
| JPMorgan | 2.5% |
| Toyota Motor | 2.2% |
| Apple | 2.2% |
| Berkshire Hathaway | 2.1% |
| Bank of New York | 2.1% |
| LAIF | 1.8% |
| Bank of the West | 1.8% |
| FFCB | 1.7% |
| John Deere | 1.7% |
| | |

Per Book Value



Recommended Additional Reports - Compliance

| Item / Sector | Parameters | In Compliance | | |
|------------------------------------|---|---------------|----------|--|
| Weighted Average Maturity | Weighted Average Maturity (WAM) must be between 1.5 years and 2.5 years | Yes: | 1.95 Yrs | |
| Liquidity: Less than 1 Year | At least 25% of the portfolio must have maturities of 1 year or less | Yes: | 28.7% | |
| Liquidity: Less than 3 Years | At least 50% of the portfolio must have maturities of 3 years or less | Yes: | 91.5% | |
| U.S. Treasuries | No limit, maximum maturity 5 years | Yes: | 6.8% | |
| U.S. Federal Agencies | No limit, 50% issuer limit, maximum maturity 5 years | Yes: | 51.1% | |
| Bankers' Acceptances | Sector limit 40%, issuer limit 5%, maximum maturity 180 days, A-1/P-1 by two | Yes: | 0.0% | |
| Time Deposits | No sector limit, collateralized according to State Code | Yes: | 0.0% | |
| Negotiable Certificates of Deposit | Sector limit 30%, issuer limit no greater than FDIC insured limit (currently \$250,000), max maturity 5 years, Issued by national/state charter banks or savings and loan associations | Yes: | 5.1% | |
| Commercial Paper | 25% limit, 5% per issuer, maximum maturity 270 days, A-1 (S&P)/P-1 (Moody's), issued by a domestic corporation w/ at least \$500 million of assets and A- (S&P)/A3 (Moody;s) long term debt | Yes: | 0.0% | |
| Local Agency Investment Fund | No more than \$50 million | Yes: | 11.4% | |
| Corporate Medium Term Notes | Sector limit 30%, Issuer limit 5%, Max maturity 5 years, AA- (S&P)/Aa3 (Moody's), issued by domestic corporation/depositories | Yes: | 18.2% | |
| Money Market Funds | Sector limit 15%, Issuer limit 10%, AAA by two of the three rating services | Yes: | 0.0% | |
| Guaranteed Investment Contract | No sector limit, AA- (S&P)/Aa3 (Moody's), not to exceed \$5 mil annually | Yes: | 0.0% | |
| CD Placement Service | Sector limit 30% (combined w/ negotiable CDs) | Yes: | 0.0% | |
| Collateralized Bank Deposits | No sector limit, collateralized according to State Code | Yes: | 7.4% | |
| Supranationals | Sector limit 15%, Issuer limit 5%, Max maturity 5 years, AA or better by at least 1 of 3 rating agencies | Yes: | 0.0% | |



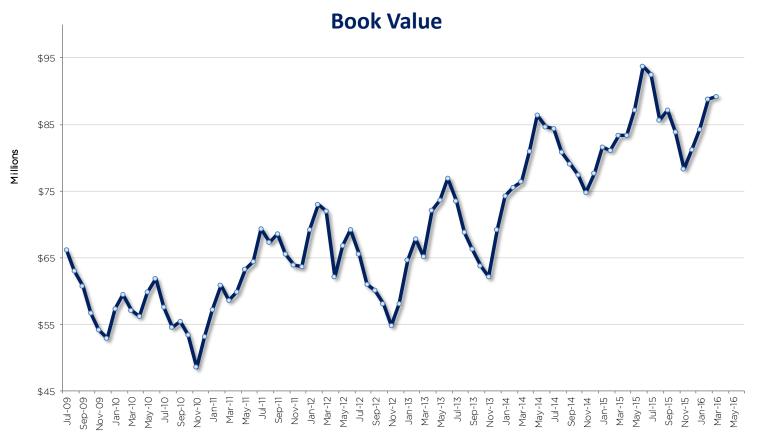
Recommended Additional Reports – Qtrly Comp

| Portfolio Metrics | 3/31/2016 | 12/31/2015 | Change |
|---------------------------|--------------|--------------|-------------|
| Market Value | \$88,184,282 | \$85,510,754 | \$2,673,528 |
| Book Value | \$87,997,453 | \$85,676,062 | \$2,321,391 |
| Par Value | \$87,968,183 | \$85,646,661 | \$2,321,522 |
| Net Asset Value | \$1.002 | \$0.998 | \$0.004 |
| Yield to Maturity | 1.019% | 0.861% | 0.158% |
| 2Yr Treasury Note Yield | 0.723% | 1.050% | -0.327% |
| LAIF Yield (monthly avg)* | 0.450% | 0.372% | 0.078% |
| Average Years to Maturity | 1.95 | 1.33 | 0.62 |
| Effective Duration | 1.21 | 0.98 | 0.23 |

^{*}LAIF rate is estimated for current month/quarter end

| Sectors (Book Value) | 3/31/2016 | 12/31/2015 | Change |
|-------------------------|--------------|--------------|--------------|
| Federal Agency | \$45,009,294 | \$35,005,960 | \$10,003,334 |
| LAIF | \$10,000,000 | \$13,500,000 | -\$3,500,000 |
| Corporate | \$16,037,175 | \$17,046,506 | -\$1,009,330 |
| Certificates of Deposit | \$4,471,847 | \$4,971,816 | -\$499,970 |
| U.S. Treasury | \$5,982,954 | \$3,977,119 | \$2,005,836 |
| Checking | \$6,496,183 | \$11,174,661 | -\$4,678,478 |
| Total | \$87,997,453 | \$85,676,062 | \$2,321,391 |



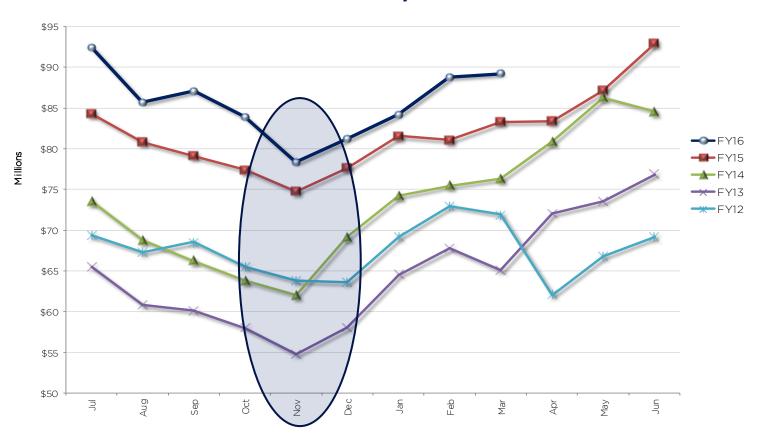


| | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fiscal Year 2010 | \$66.1 | \$63.0 | \$60.7 | \$56.6 | \$54.2 | \$52.9 | \$57.2 | \$59.5 | \$57.0 | \$56.2 | \$59.8 | \$61.9 |
| Fiscal Year 2011 | \$57.5 | \$54.6 | \$55.4 | \$53.3 | \$48.5 | \$53.1 | \$57.1 | \$60.9 | \$58.6 | \$59.8 | \$63.2 | \$64.3 |
| Fiscal Year 2012 | \$69.3 | \$67.3 | \$68.5 | \$65.5 | \$63.8 | \$63.6 | \$69.2 | \$73.0 | \$71.9 | \$62.1 | \$66.8 | \$69.2 |
| Fiscal Year 2013 | \$65.5 | \$60.9 | \$60.1 | \$58.0 | \$54.8 | \$58.1 | \$64.6 | \$67.8 | \$65.1 | \$72.1 | \$73.6 | \$76.9 |
| Fiscal Year 2014 | \$73.5 | \$68.8 | \$66.3 | \$63.8 | \$62.1 | \$69.2 | \$74.2 | \$75.5 | \$76.3 | \$80.9 | \$86.3 | \$84.6 |
| Fiscal Year 2015 | \$84.3 | \$80.8 | \$79.1 | \$77.4 | \$74.8 | \$77.6 | \$81.5 | \$81.0 | \$83.3 | \$83.3 | \$87.1 | \$92.9 |
| Fiscal Year 2016 | \$92.4 | \$85.6 | \$87.1 | \$83.8 | \$78.3 | \$81.2 | \$84.2 | \$88.7 | \$89.2 | | | |

Figures in Millions, Average Daily Balance



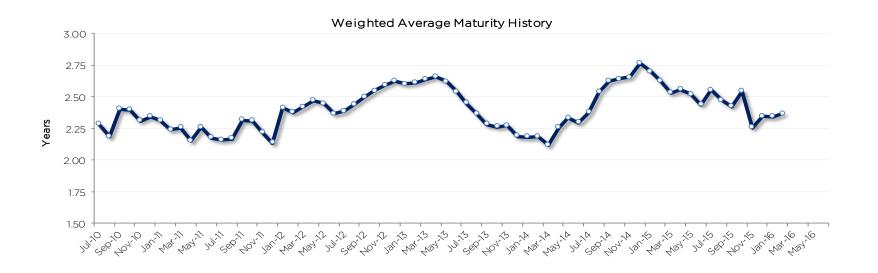
Book Value by Fiscal Year

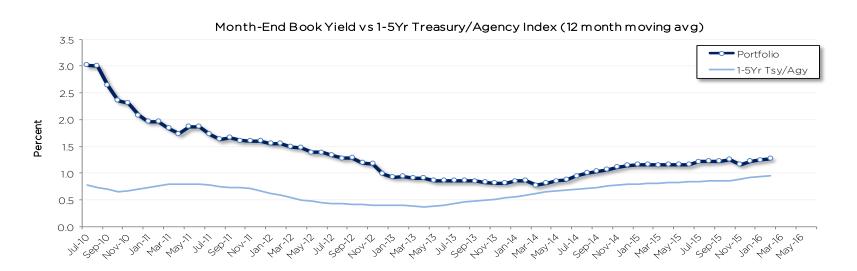


| | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fiscal Year 2012 | \$69.3 | \$67.3 | \$68.5 | \$65.5 | \$63.8 | \$63.6 | \$69.2 | \$73.0 | \$71.9 | \$62.1 | \$66.8 | \$69.2 |
| Fiscal Year 2013 | \$65.5 | \$60.9 | \$60.1 | \$58.0 | \$54.8 | \$58.1 | \$64.6 | \$67.8 | \$65.1 | \$72.1 | \$73.6 | \$76.9 |
| Fiscal Year 2014 | \$73.5 | \$68.8 | \$66.3 | \$63.8 | \$62.1 | \$69.2 | \$74.2 | \$75.5 | \$76.3 | \$80.9 | \$86.3 | \$84.6 |
| Fiscal Year 2015 | \$84.3 | \$80.8 | \$79.1 | \$77.4 | \$74.8 | \$77.6 | \$81.5 | \$81.0 | \$83.3 | \$83.3 | \$87.1 | \$92.9 |
| Fiscal Year 2016 | \$92.4 | \$85.6 | \$87.1 | \$83.8 | \$78.3 | \$81.2 | \$84.2 | \$88.7 | \$89.2 | | | |

Figures in Millions, Average Daily Balance

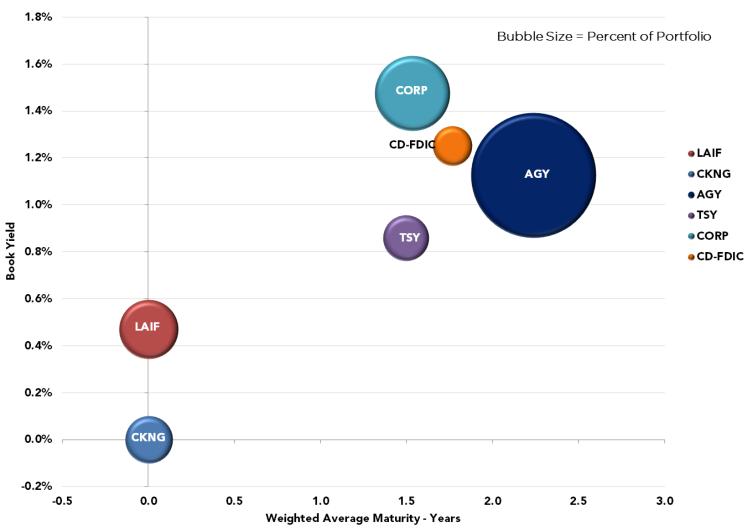










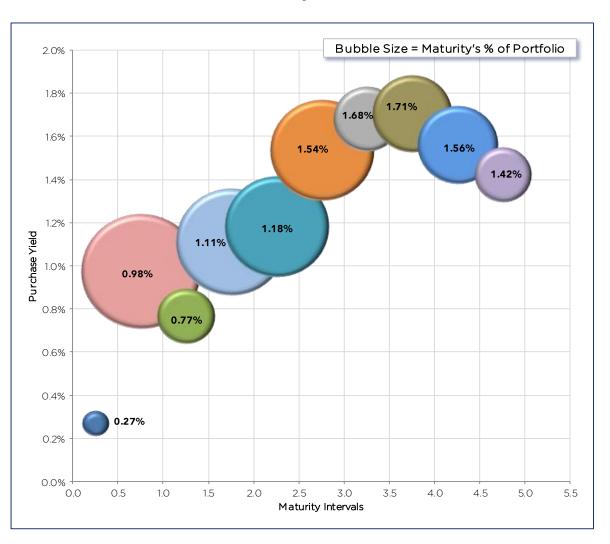




Purchase YTM Per 6-Month Maturity Intervals

| | Purchase | % of |
|------------|----------|------------|
| Years | Yield | Portfolio* |
| 0 to .5 | 0.27% | 0.93% |
| .5 to 1.0 | 0.98% | 19.51% |
| 1.0 to 1.5 | 0.77% | 4.44% |
| 1.5 to 2.0 | 1.11% | 16.81% |
| 2.0 to 2.5 | 1.18% | 15.02% |
| 2.5 to 3.0 | 1.54% | 15.05% |
| 3.0 to 3.5 | 1.68% | 6.17% |
| 3.5 to 4.0 | 1.71% | 8.79% |
| 4.0 to 4.5 | 1.56% | 8.86% |
| 4.5 to 5.0 | 0.00% | 0.00% |

^{*}Based on Book Value

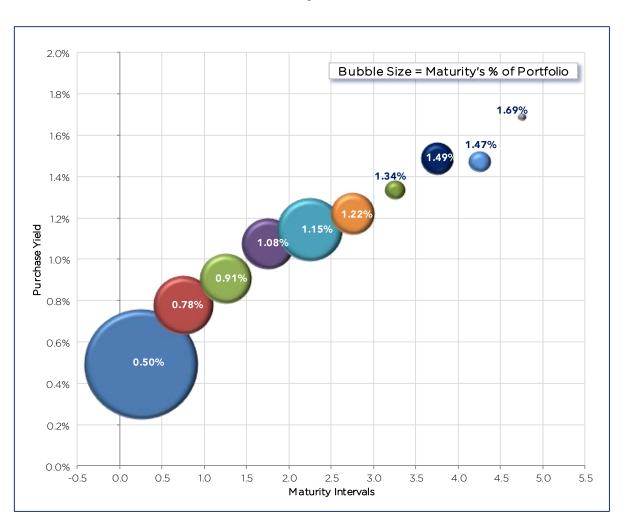




Purchase YTM Per 6-Month Maturity Intervals

| V | Purchase | % of |
|-------------|----------|------------|
| Years | Yield | Portfolio* |
| 0 to .5 | 0.50% | 43.00% |
| .5 to 1.0 | 0.78% | 12.13% |
| 1.0 to 1.5 | 0.91% | 8.76% |
| 1.5 to 2.0 | 1.08% | 9.24% |
| 2.0 to 2.5 | 1.15% | 14.19% |
| 2.5 to 3.0 | 1.22% | 6.22% |
| 3.0 to 3.5 | 1.34% | 1.26% |
| 3.5 to 4.0 | 1.49% | 3.49% |
| 4.0 to 4.5 | 1.47% | 1.52% |
| 4.5 to 5.0+ | 1.69% | 0.19% |

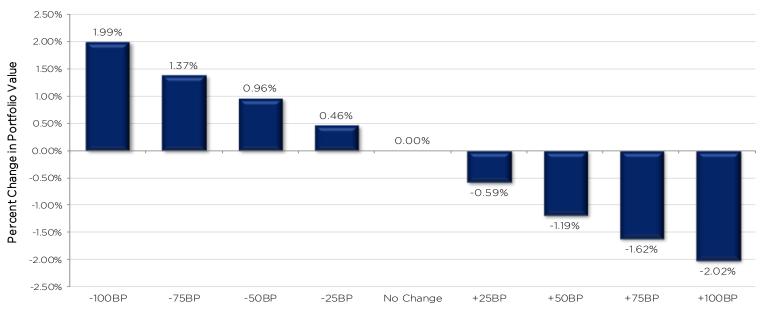
^{*}Based on Book value





Interest Rate Shock Analysis

Instantaneous Interest Rate Changes and Approximate Change in Portfolio's Market Value



Interest Rate Changes/Scenarios

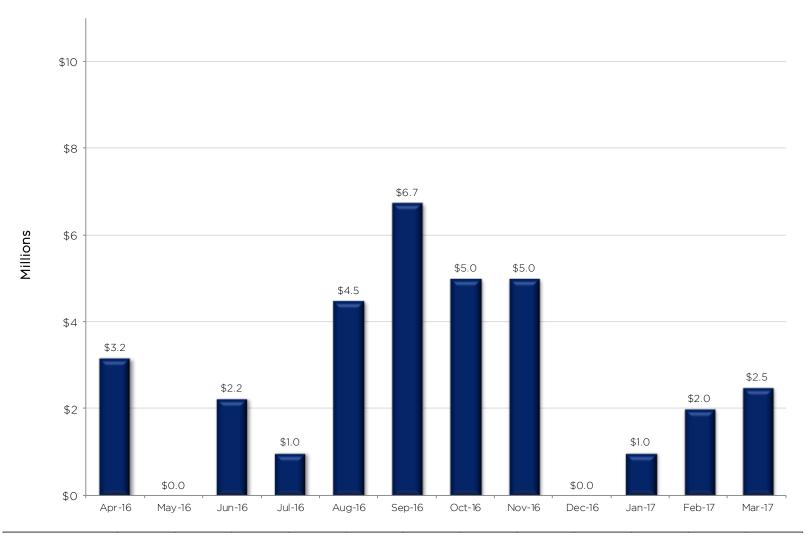
| nterest Rate Chang | Portfolio Value | Value Change | Percent Change |
|--------------------|-----------------|--------------|----------------|
| -100 Basis Points | \$101,990,000 | \$1,990,000 | 1.99% |
| -75 Basis Points | \$101,373,100 | \$1,373,100 | 1.37% |
| -50 Basis Points | \$100,955,200 | \$955,200 | 0.96% |
| -25 Basis Points | \$100,457,700 | \$457,700 | 0.46% |
| No Change | \$100,000,000 | \$0 | 0.00% |
| +25 Basis Points | \$99,414,200 | -\$585,800 | -0.59% |
| +50 Basis Points | \$98,808,200 | -\$1,191,800 | -1.19% |
| +75 Basis Points | \$98,384,000 | -\$1,616,000 | -1.62% |
| +100 Basis Points | \$97,980,000 | -\$2,020,000 | -2.02% |

What's the approximate duration of this portfolio?

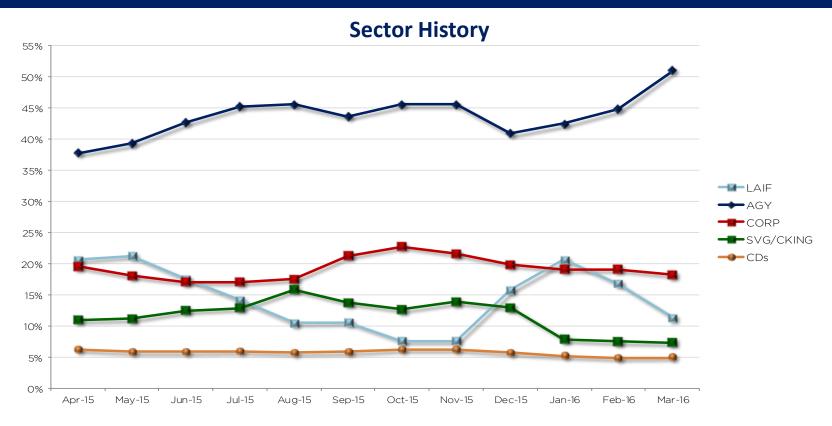


Recommended Additional Reports – Cash Flow

Next Twelve Month Maturities



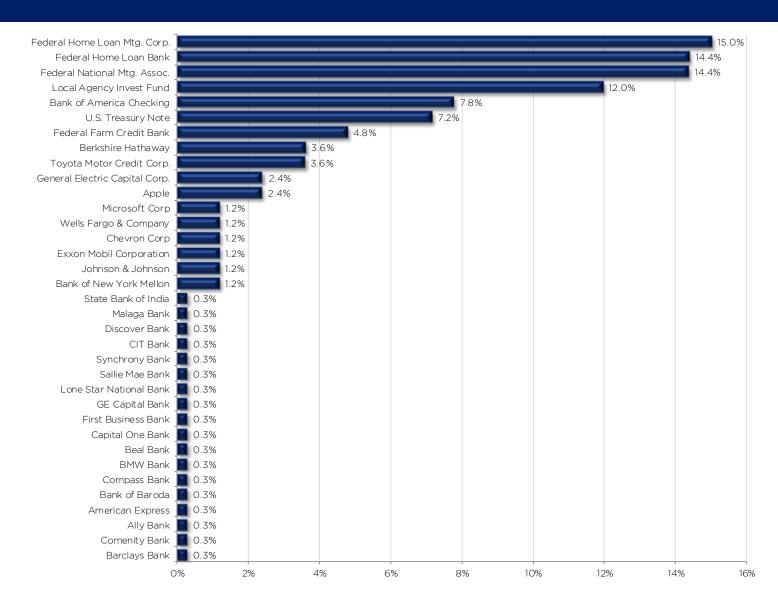




| Sector | Apr-15 | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Agency | 37.8% | 39.3% | 42.7% | 45.3% | 45.6% | 43.7% | 45.6% | 45.6% | 40.9% | 42.5% | 44.8% | 51.1% |
| Corporate | 19.6% | 18.1% | 17.1% | 17.1% | 17.6% | 21.3% | 22.8% | 21.6% | 19.9% | 19.1% | 19.1% | 18.2% |
| Treasury | 4.6% | 4.2% | 4.2% | 4.5% | 4.6% | 4.7% | 5.0% | 5.0% | 4.6% | 4.5% | 6.7% | 6.8% |
| Certificates of Deposit | 6.3% | 5.9% | 5.9% | 6.0% | 5.8% | 5.9% | 6.3% | 6.3% | 5.8% | 5.3% | 5.0% | 5.1% |
| Savings/Checking | 11.0% | 11.2% | 12.5% | 12.9% | 15.9% | 13.8% | 12.7% | 13.9% | 13.0% | 7.9% | 7.6% | 7.4% |
| LAIF | 20.7% | 21.3% | 17.6% | 14.2% | 10.5% | 10.6% | 7.6% | 7.6% | 15.8% | 20.7% | 16.8% | 11.4% |
| Total | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

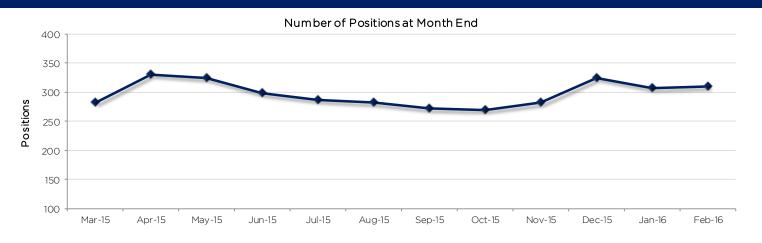


Recommended Additional Reports - Issuers

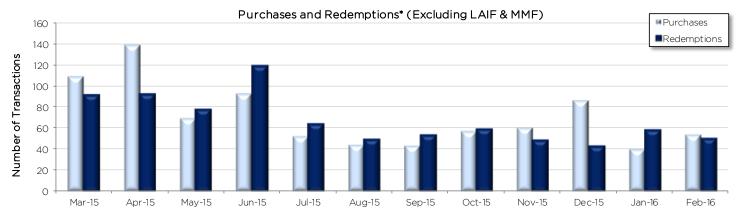




Recommended Additional Reports - Activity



| | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Number of Positions | 283 | 332 | 325 | 299 | 288 | 283 | 273 | 271 | 283 | 326 | 308 | 311 |



*Redemptions include maturities, calls, and sells (excluding paydowns)

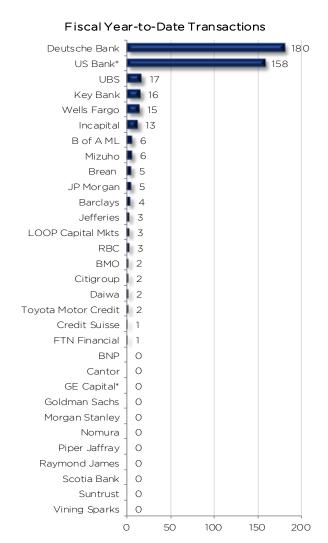
| | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Number of Purchases | 109 | 139 | 70 | 93 | 53 | 45 | 44 | 58 | 61 | 87 | 41 | 55 |
| Number of Redempti | 92 | 93 | 78 | 119 | 65 | 50 | 54 | 60 | 49 | 44 | 59 | 51 |
| Total Transactions | 201 | 232 | 148 | 212 | 118 | 95 | 98 | 118 | 110 | 131 | 100 | 106 |



Recommended Additional Reports - Activity

Transactions by Dealer

| Dealer | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Total |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Deutsche Bank | 22 | 23 | 20 | 23 | 23 | 28 | 20 | 21 | | | | | 180 |
| US Bank* | 22 | 18 | 21 | 19 | 19 | 21 | 18 | 20 | | | | | 158 |
| UBS | 2 | | | 1 | 1 | 13 | | | | | | | 17 |
| Key Bank | 1 | | 1 | 6 | 5 | 1 | | 2 | | | | | 16 |
| Wells Fargo | 2 | 1 | | 2 | 3 | 5 | | 2 | | | | | 15 |
| Incapital | 2 | | | 1 | 1 | 5 | | 4 | | | | | 13 |
| B of A ML | | | 1 | 1 | | 2 | | 2 | | | | | 6 |
| Mizuho | | 1 | | | 1 | 3 | 1 | | | | | | 6 |
| Brean | 1 | 1 | | | | 2 | 1 | | | | | | 5 |
| JP Morgan | | | | 1 | 2 | | | 2 | | | | | 5 |
| Barclays | 1 | | | 1 | 2 | | | | | | | | 4 |
| Jefferies | 1 | 1 | | | | | 1 | | | | | | 3 |
| LOOP Capital Mkts | | | | | | 3 | | | | | | | 3 |
| RBC | 1 | | 1 | | | 1 | | | | | | | 3 |
| вмо | | | | | 1 | 1 | | | | | | | 2 |
| Citigroup | | | | | 1 | | | 1 | | | | | 2 |
| Daiwa | | | | 1 | | 1 | | | | | | | 2 |
| Toyota Motor Credit | | | | | 2 | | | | | | | | 2 |
| Credit Suisse | | | | 1 | | | | | | | | | 1 |
| FTN Financial | | | | | | | | 1 | | | | | 1 |
| BNP | | | | | | | | | | | | | 0 |
| Cantor | | | | | | | | | | | | | 0 |
| GE Capital* | | | | | | | | | | | | | 0 |
| Goldman Sachs | | | | | | | | | | | | | 0 |
| Morgan Stanley | | | | | | | | | | | | | 0 |
| Nomura | | | | | | | | | | | | | 0 |
| Piper Jaffray | | | | | | | | | | | | | 0 |
| Raymond James | | | | | | | | | | | | | 0 |
| Scotia Bank | | | | | | | | | | | | | 0 |
| Suntrust | | | | | | | | | | | | | 0 |
| Vining Sparks | | | | | | | | | | | | | 0 |
| Total | 55 | 45 | 44 | 57 | 61 | 86 | 41 | 55 | 0 | 0 | 0 | 0 | 444 |

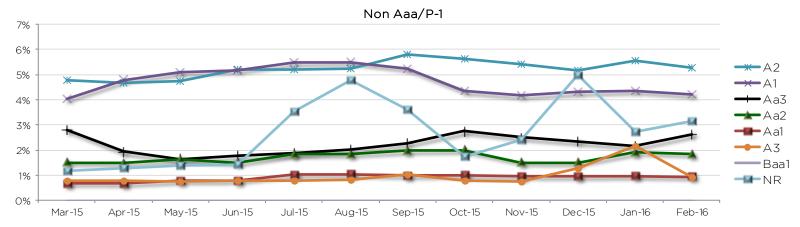






Recommended Additional Reports - Ratings





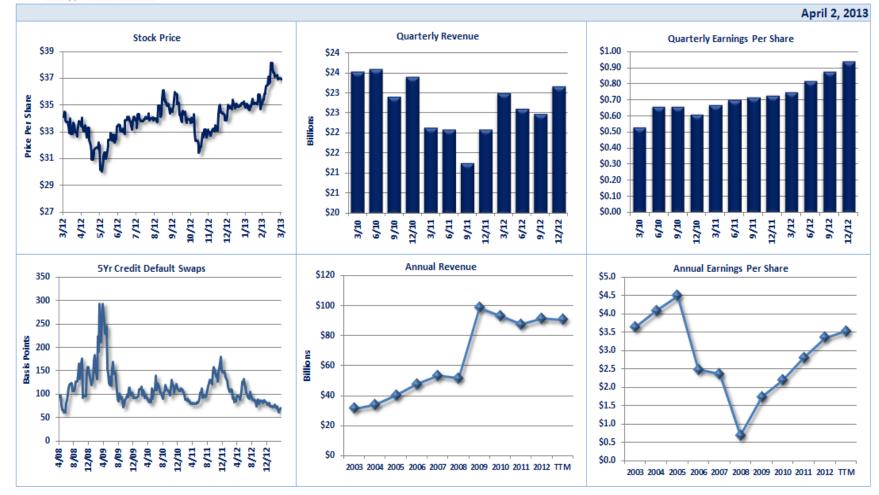
| Types | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Aaa/P-1 | 84.2% | 84.4% | 83.9% | 83.4% | 80.3% | 78.8% | 79.1% | 81.7% | 82.3% | 79.5% | 80.1% | 81.0% |
| Aa1 | 0.7% | 0.7% | 0.8% | 0.8% | 1.0% | 1.1% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 0.9% |
| Aa2 | 1.5% | 1.5% | 1.6% | 1.5% | 1.8% | 1.9% | 2.0% | 2.0% | 1.5% | 1.5% | 1.9% | 1.9% |
| Aa3 | 2.8% | 1.9% | 1.6% | 1.8% | 1.9% | 2.0% | 2.3% | 2.7% | 2.5% | 2.3% | 2.2% | 2.6% |
| A1 | 4.0% | 4.8% | 5.1% | 5.2% | 5.5% | 5.5% | 5.2% | 4.3% | 4.2% | 4.3% | 4.4% | 4.2% |
| A2 | 4.8% | 4.7% | 4.8% | 5.2% | 5.2% | 5.2% | 5.8% | 5.6% | 5.4% | 5.2% | 5.5% | 5.3% |
| A3 | 0.8% | 0.8% | 0.8% | 0.8% | 0.8% | 0.8% | 1.0% | 0.8% | 0.7% | 1.3% | 2.2% | 0.9% |
| NR-Not Rated | 1.2% | 1.3% | 1.4% | 1.4% | 3.5% | 4.8% | 3.6% | 1.7% | 2.4% | 5.0% | 2.7% | 3.2% |
| Baa1 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Total | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |





Wells Fargo & Co

Credit Review





Additional Reports - GASB

Quarterly GASB 31 Calculation

INVESTMENT POOL MARK-TO-MARKET FISCAL YEAR 2016 Y-T-D

| DESCRIPTION | AMOUNT |
|---|---------------|
| Invested Value at December 31, 2015 | 333,092,674 |
| Add: Proceeds of Investments Matured/Sold in FY16 | 172,338,733 |
| Less: Cost of Investments Purchased in FY16 | (159,417,821) |
| Add: Amortization Adjustment | 0 |
| Less: Invested Value at June 30, 2015 | (346,590,397) |
| Change in Market Value of Investments | (576,810) |



Standard of Prudence

53600.3:

"Except as provided in subdivision (a) of Section 27000.3, all governing bodies of local agencies or persons authorized to make investment decisions on behalf of those local agencies investing public funds pursuant to this chapter are trustees and therefore fiduciaries subject to the prudent investor standard. When investing, reinvesting, purchasing, acquiring, exchanging, selling, or managing public funds, a trustee shall act with care, skill, prudence, and diligence under the circumstances then prevailing, including, but not limited to, the general economic conditions and the anticipated needs of the agency, that a prudent person acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency. Within the limitations of this section and considering individual investments as part of an overall strategy, investments may be acquired as authorized by law."



Additional Reports - GASB

DECEMBER 2015

Governmental **Accounting Standards Series**

Statement No. 79 of the Governmental Accounting Standards Board

Certain External Investment Pools and Pool Participants



LAIF Performance Report

Quarter Ending 12/31/15

Apportionment Rate: 0.37%

> Earnings Ratio: 0.00001006140492611

Fair Value Factor: 0.999186963

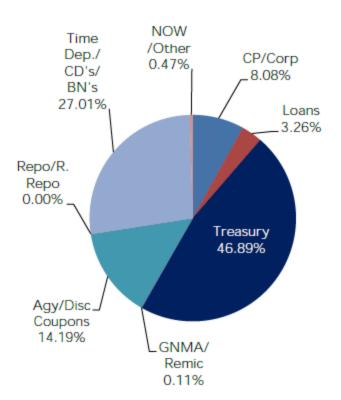
> 0.43% Daily:

Quarter to Date: 0.38%

Average Life: 179



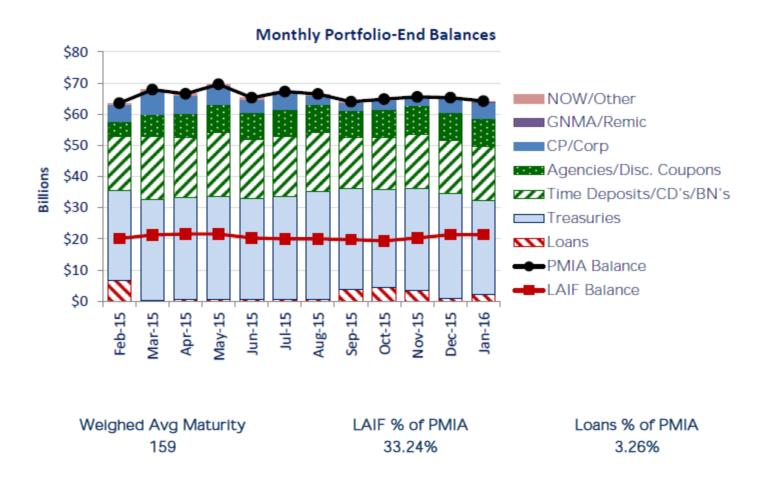
PMIA Avg. Monthly Yield 0.467%



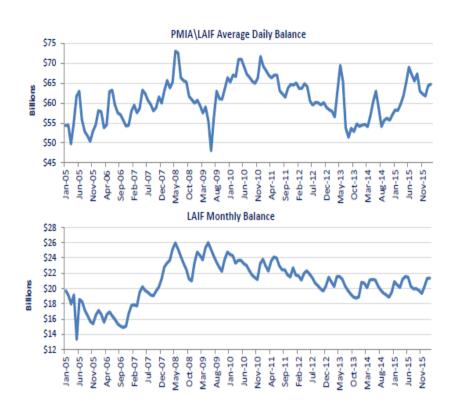
| Type of Security | Amount | % of Portfolio |
|-------------------------|--------------|----------------|
| Government | (000's) | |
| Bills | \$10,714,095 | 16.68% |
| Bonds | \$0 | 0.00% |
| Notes | \$19,398,447 | 30.21% |
| Strips | \$0 | 0.00% |
| Total Government | \$30,112,542 | 46.89% |
| Federal Agency Coupons | \$1,777,128 | 2.77% |
| Certificates of Deposit | \$11,450,007 | 17.83% |
| Bank Notes | \$300,000 | 0.47% |
| Bankers' Acceptances | \$0 | 0.00% |
| Repurchase Agreements | \$0 | 0.00% |
| Fed. Agency Disc. Notes | \$7,334,356 | 11.42% |
| Time Deposits | \$5,593,440 | 8.71% |
| GNMA's | \$0 | 0.00% |
| Commercial Paper | \$5,187,690 | 8.08% |
| FHLMC/Remics | \$70,048 | 0.11% |
| Corporate Bonds | \$0 | 0.00% |
| AB 55 Loans | \$415,567 | 0.65% |
| GF Loans | \$1,680,400 | 2.62% |
| NOW Accounts | \$0 | 0.00% |
| Other | \$299,976 | 0.47% |
| Reverse Repo | \$0 | 0.00% |
| Total | \$64,221,154 | 100.00% |

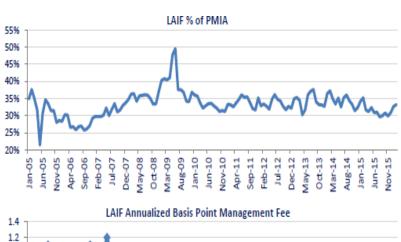








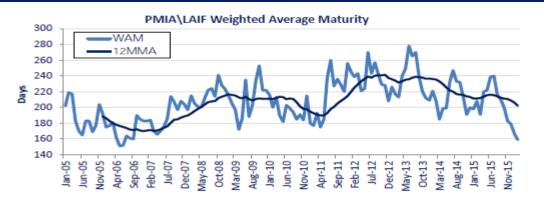


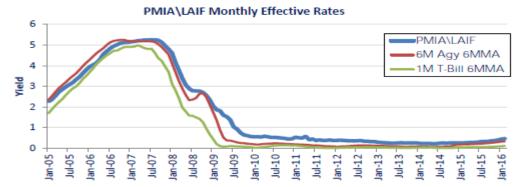


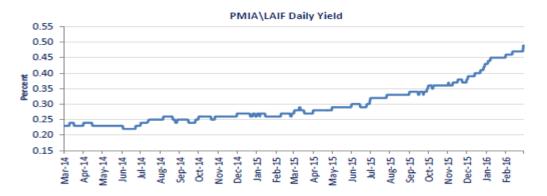








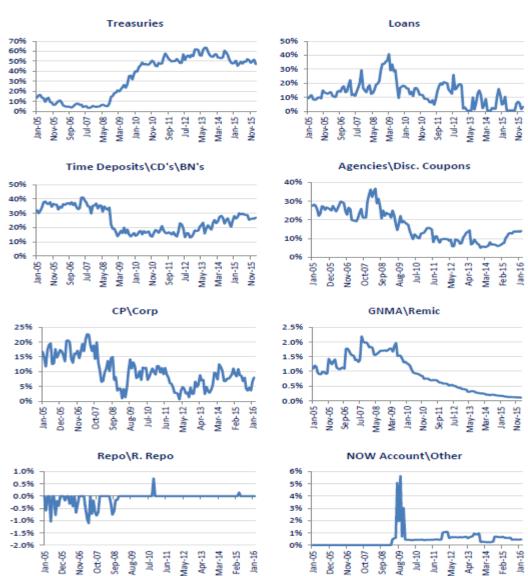






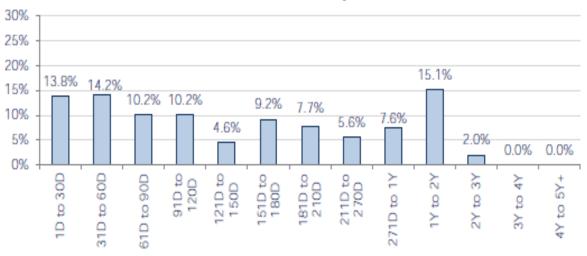


PMIA\LAIF Sector Allocations



Source: LAIF Website

PMIA/LAIF % of Par Value Maturities by Date--As of 12/31/2015*

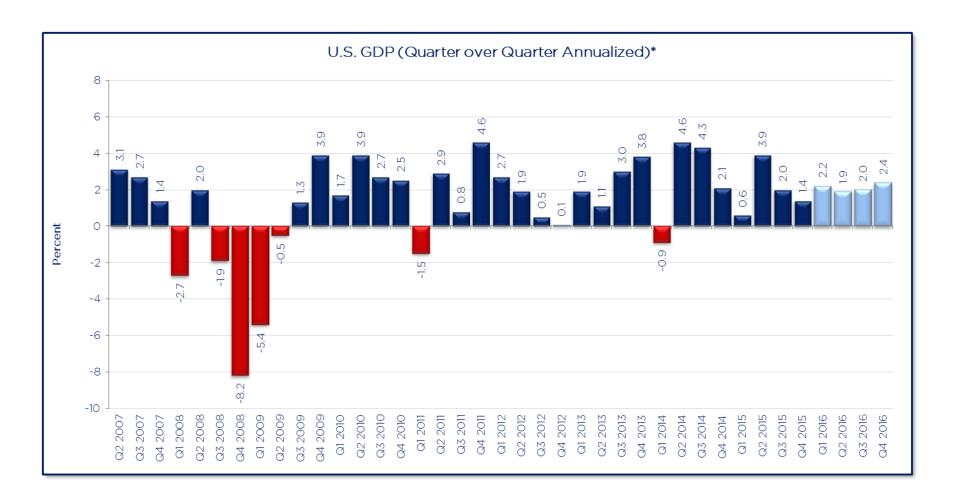


PMIA/LAIF Cumulative % of Par Value Maturities by Date--As of 12/31/2015*



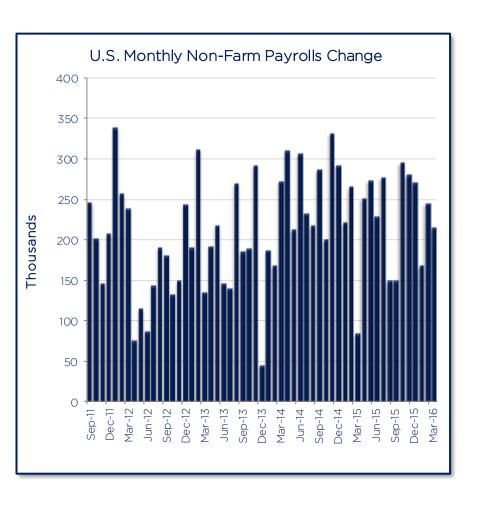


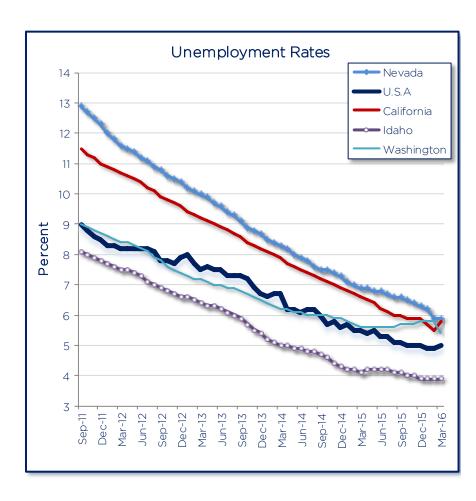
Additional Reports – Economic/Market





Additional Reports – Economic/Market

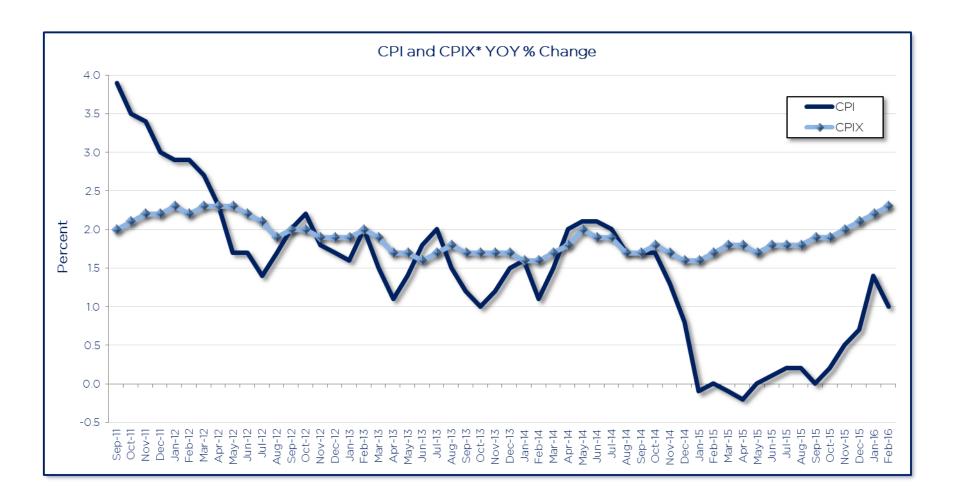






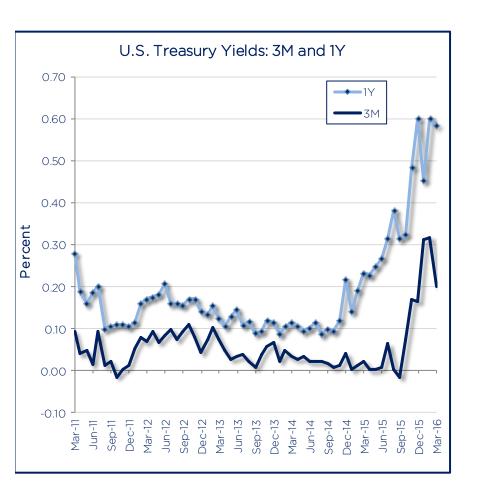


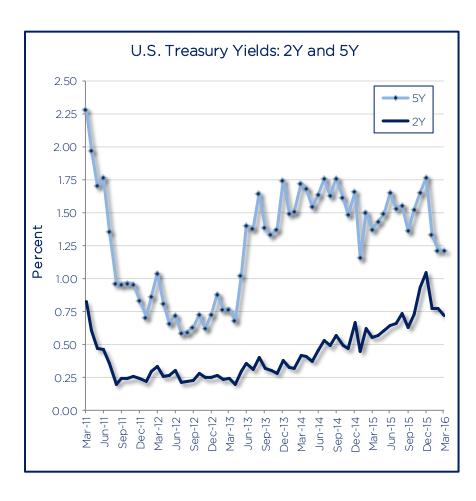
Additional Reports – Economic/Market





Additional Reports – Economic/Market

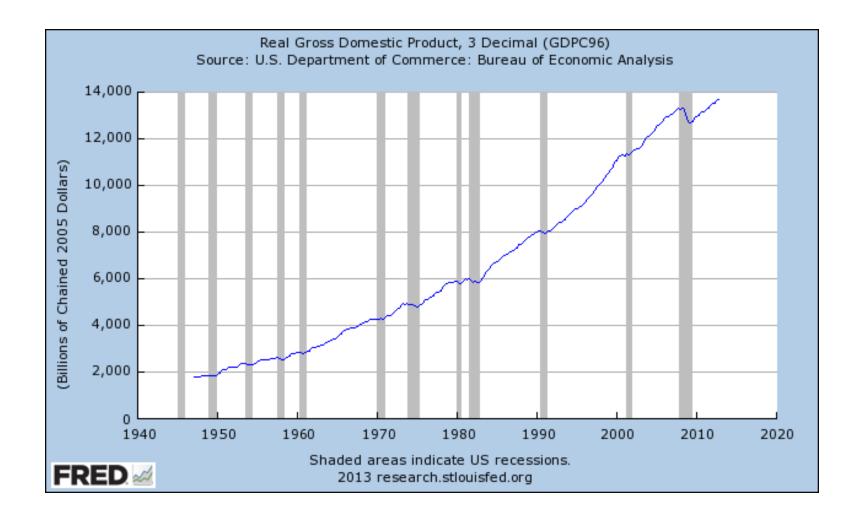








Resources: Federal Reserve Econ. Data Base





Resources: FreeLunch.com



Free Economic, Demographic & Financial Data

Finding and downloading economic data have never been this fast, simple or free!

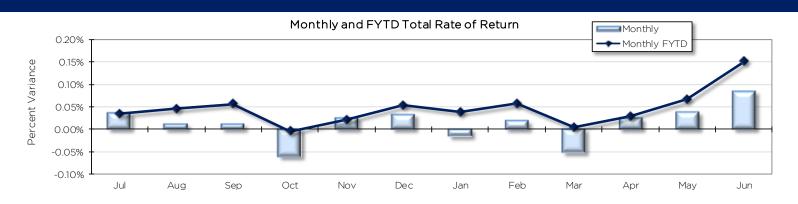
Interest Rates: Treasury Constant Maturities Nominal - 2 year, (% p.a., NSA)

Geography: United States

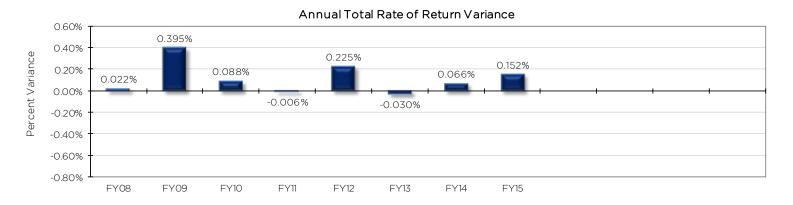
| View Data | As: Mor | nthly - | No Transformation Refresh Data Now |
|-----------|---------|---------|--|
| Date | Value | 46 | |
| 3Apr2013 | 0.24 | 16 - | , A. |
| 2Apr2013 | 0.25 | 14 - | |
| 1Apr2013 | 0.23 | 14 - | |
| 29Mar2013 | ND | 12 - | ₩ <i>\(\bar{V}\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i> |
| 28Mar2013 | 0.25 | | Ψ/ |
| 27Mar2013 | 0.25 | 10 - | |
| 26Mar2013 | 0.25 | | |
| 25Mar2013 | 0.24 | 8 - | |
| 22Mar2013 | 0.26 | | CF NOTE IN A COLUMN TO THE REPORT OF THE PARTY OF THE PAR |
| 21Mar2013 | 0.27 | 6 - | The state of the s |
| 20Mar2013 | 0.26 | | The state of the s |
| 19Mar2013 | 0.24 | 4 - | **** |
| 18Mar2013 | 0.26 | 2 - | The Market State of the State o |
| 15Mar2013 | 0.25 | 2 - | AM 1/4: |
| 14Mar2013 | 0.27 | 0 | Market and the second s |
| 13Mar2013 | 0.27 | • | 21Jul1982 9Sep1988 1Nov1994 21Dec2000 12Feb2007 3Apr. |
| 12Mar2013 | 0.27 | | |



Recommended Additional Reports - Performance



| | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
|------------------|---------|--------|---------|---------|--------|---------|---------|---------|---------|--------|--------|---------|
| Portfolio | -0.180% | 0.360% | -0.180% | 0.420% | 0.350% | -0.290% | 0.990% | -0.440% | 0.350% | 0.061% | 0.124% | -0.040% |
| Benchmark | -0.215% | 0.349% | -0.191% | 0.481% | 0.325% | -0.323% | 1.006% | -0.458% | 0.402% | 0.037% | 0.087% | -0.124% |
| Monthly Variance | 0.035% | 0.011% | 0.011% | -0.061% | 0.025% | 0.033% | -0.016% | 0.018% | -0.052% | 0.024% | 0.037% | 0.084% |
| FTYD Variance | 0.035% | 0.046% | 0.057% | -0.004% | 0.021% | 0.055% | 0.039% | 0.057% | 0.005% | 0.029% | 0.067% | 0.152% |



| | FY08 | FY09 | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 | | |
|-----------------|--------|--------|--------|---------|--------|---------|--------|--------|--|--|
| Portfolio | 7.181% | 5.240% | 2.834% | 1.373% | 1.062% | -0.052% | 0.354% | 1.527% | | |
| Benchmark | 7.159% | 4.845% | 2.746% | 1.379% | 0.837% | -0.022% | 0.288% | 1.375% | | |
| Yearly Variance | 0.022% | 0.395% | 0.088% | -0.006% | 0.225% | -0.030% | 0.066% | 0.152% | | |

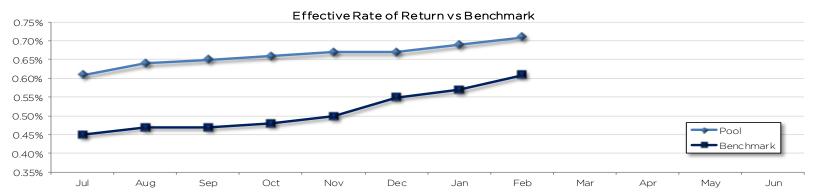
Index: FY 08-12 BofA Merrill Lynch 1-3Y Tsy/Agy (G1P0), FY 13 1-5Y Tsy/Agy (GVA0), FY 14 forward 1-5Y Govt/Corp A-AAA (BU10)



Recommended Additional Reports - Performance



| Fiscal YTD | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
|------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FY 2013 | \$2.4 | \$4.7 | \$6.8 | \$8.9 | \$10.8 | \$12.6 | \$15.8 | \$17.8 | \$19.6 | \$21.5 | \$23.4 | \$25.2 |
| FY 2014 | \$1.8 | \$3.5 | \$5.0 | \$6.8 | \$8.7 | \$10.5 | \$12.5 | \$14.2 | \$16.1 | \$18.0 | \$20.0 | \$21.9 |
| FY 2015 | \$1.8 | \$3.5 | \$5.2 | \$6.9 | \$8.5 | \$10.4 | \$12.6 | \$14.7 | \$17.8 | \$20.6 | \$23.7 | \$26.8 |
| FY 2016 | \$2.9 | \$5.8 | \$8.6 | \$11.3 | \$14.2 | \$17.8 | \$21.8 | \$25.7 | | | | |



| Fiscal YTD | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|
| Effective Rate of Rtn | 0.61% | 0.64% | 0.65% | 0.66% | 0.67% | 0.67% | 0.69% | 0.71% | | | | |
| Custom Benchmark* | 0.45% | 0.47% | 0.47% | 0.48% | 0.50% | 0.55% | 0.57% | 0.61% | | | | |
| Variance | 0.16% | 0.17% | 0.18% | 0.18% | 0.17% | 0.12% | 0.12% | 0.10% | | | | |

*Benchmark: 40% Agy 1-3Y, 30% Agy Discount Note 180D, 10% Corp AA-AAA 1-3Y, 10% CP 1D, 5% Repo 1D, 5% M M F



Why Do We Benchmark Performance?

Safety: Safety of principal is the foremost objective of the investment program. Investments shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. The objective will be to mitigate credit risk and interest rate risk.

Liquidity: The investment portfolio shall remain sufficiently liquid to meet all operating requirements that may be reasonably anticipated. This is accomplished by structuring the portfolio so that securities mature concurrent with cash needs to meet anticipated demands (static liquidity). Furthermore, since all possible cash demands cannot be anticipated, the portfolio should consist largely of securities with active secondary or resale markets (dynamic liquidity). A portion of the portfolio may be placed in money market mutual funds or local government investment pools, which offer sameday liquidity for short-term funds.

*Yield: The investment portfolio shall be designed with the objective of attaining a market rate of return throughout budgetary and economic cycles, taking into account the investment risk constraints and liquidity needs. Return on investment is of secondary importance compared to the safety and liquidity objectives described above. The core of investments are limited to relatively low risk securities in anticipation of earning a fair return, relative to the risk being assumed. Securities shall generally be held until maturity, with the following exceptions:

- A security with declining credit may be sold early to minimize loss of principal.
- Liquidity needs of the portfolio require that the security be sold.
- Liquidity a security swap would improve the quality, yield, or target duration in the portfolio.

Primary Benchmarking Factors to Consider

A benchmark is a collection of securities or risk factors and associated weights that represents the <u>persistent</u> and <u>prominent</u> investment characteristics of a manager's investment process. A benchmark should be:

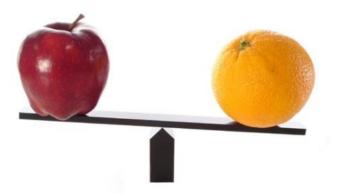
- <u>Unambiguous</u>: The identities and weights of securities constituting the benchmark are clearly defined.
- <u>Investable</u>: It is possible to forgo active management and simply hold the benchmark.
- **Measurable:** The benchmark's return is readily calculable on a reasonably frequent basis.
- **Appropriate**: The benchmark is consistent with the manager's investment style and sectors.
- <u>Specified in Advance</u>: The benchmark is specified prior to the start of an evaluation period and known to all interested parties.

"The failure of a benchmark to possess these properties compromises its utility as an effective investment management tool. The properties listed merely formalize intuitive notions of what constitutes a fair and relevant performance comparison. It is interesting to observe that a number of commonly used benchmarks fail to satisfy these properties." **CFA Institute**

Relevant General Characteristics

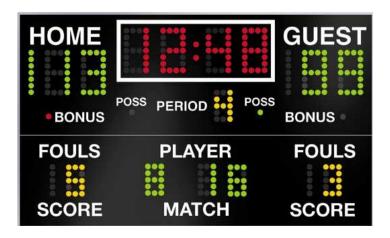
To Be Relevant, Benchmarks Should Reflect the General Characteristics of a Portfolio's:

- Sector Allocations
- Duration/Maturity
- Turnover



Three Types of Benchmarking

Keeping Score of Your Portfolio



- Yield Return
- Book Rate of Return
- Total Rate of Return

Calculation Methodology of Each Benchmark

```
Yield Return = Portfolio's Weighted Average Yield
                + Accrued/Received Interest
Book Return= +/- Amortization/Accretion of Premiums/Discounts
                +/- Realized Gains/Losses
                Average Daily Book Balance for the Period
                + Accrued/Received Interest
Total Return= +/- Realized Gains/Losses
                +/- Unrealized Gains/Losses
               Time Weighted Invested Market Value for the Period
```

Yield Return-Calculation Assumptions

Portfolio's Average Weighted Book Yield and Holding Period*

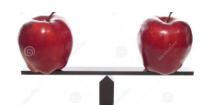
| | | Maturity in | Par Weighted | | % of | | Weighted | Purchase | Holding Period in | Weighted Holding Period |
|---------------|----------|-------------|-----------------|-------------|-----------|-------------------|----------|----------|----------------------|----------------------------|
| Security | Maturity | Years | Maturity | Par Value | Portfolio | Book Yield | Yield | Date | Years | In Years |
| MMF | 3/1/16 | 0.0 | 0.00 | 40,000,000 | 30.8% | 0.25% | 0.08% | 3/1/16 | 0.00 | 0.00 |
| Agency | 9/30/16 | 0.6 | 0.04 | 10,000,000 | 7.7% | 0.40% | 0.03% | 9/30/15 | 0.42 | 0.03 |
| Treasury | 3/31/17 | 1.1 | 0.08 | 10,000,000 | 7.7% | 0.50% | 0.04% | 6/30/15 | 0.67 | 0.05 |
| Agency | 9/30/17 | 1.6 | 0.12 | 10,000,000 | 7.7% | 0.70% | 0.05% | 12/31/14 | 1.17 | 0.09 |
| Treasury | 3/31/18 | 2.1 | 0.16 | 10,000,000 | 7.7% | 0.80% | 0.06% | 3/31/14 | 1.92 | 0.15 |
| Agency | 9/30/18 | 2.6 | 0.20 | 10,000,000 | 7.7% | 0.95% | 0.07% | 9/30/13 | 2.42 | 0.19 |
| Treasury | 3/31/19 | 3.1 | 0.24 | 10,000,000 | 7.7% | 1.10% | 0.08% | 12/31/13 | 2.17 | 0.17 |
| Agency | 9/30/19 | 3.6 | 0.28 | 10,000,000 | 7.7% | 1.25% | 0.10% | 12/31/12 | 3.17 | 0.24 |
| Treasury | 3/31/20 | 4.1 | 0.31 | 10,000,000 | 7.7% | 1.35% | 0.10% | 3/31/14 | 1.92 | 0.15 |
| Agency | 9/30/20 | 4.6 | 0.35 | 10,000,000 | 7.7% | 1.50% | 0.12% | 12/31/14 | 1.17 | 0.09 |
| Total/Average | | | 1.79 | 130,000,000 | 100.0% | | 0.73% | | | 1.16 |

^{*}May be calculated daily, weekly, monthly, quarterly, or annually

Yields and weights for illustration purposes only

Sector Allocations:

MMF 30.8%
Agency 38.5%
<u>Treasury 30.7%</u>
Total 100.0%



Weighted Average Maturity:

1.79 Years

Weighted Holding Period:

1.16 Years

Yield Return-Custom Benchmark

Yields

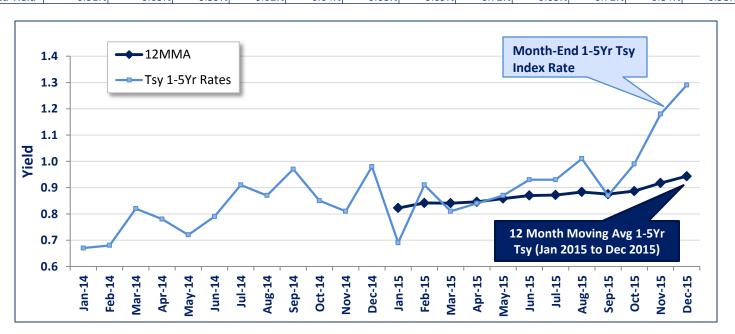
| Index | Jan-2015 | Feb-2015 | Mar-2015 | Apr-2015 | May-2015 | Jun-2015 | Jul-2015 | Aug-2015 | Sep-2015 | Oct-2015 | Nov-2015 | Dec-2015 |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| MMF | 0.03% | 0.04% | 0.05% | 0.06% | 0.06% | 0.07% | 0.08% | 0.08% | 0.10% | 0.10% | 0.11% | 0.24% |
| BAML 1-5Yr Agy | 0.75% | 0.92% | 0.84% | 0.88% | 0.89% | 0.96% | 0.96% | 0.99% | 0.86% | 0.98% | 1.13% | 1.30% |
| BAML 1-5Yr Tsy | 0.69% | 0.91% | 0.81% | 0.84% | 0.87% | 0.93% | 0.93% | 1.01% | 0.87% | 0.99% | 1.18% | 1.29% |

Weights

| Index | Jan-2015 | Feb-2015 | Mar-2015 | Apr-2015 | May-2015 | Jun-2015 | Jul-2015 | Aug-2015 | Sep-2015 | Oct-2015 | Nov-2015 | Dec-2015 |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| MMF | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% |
| BAML 1-5Yr Agy | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% |
| BAML 1-5Yr Tsy | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% |
| Total | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

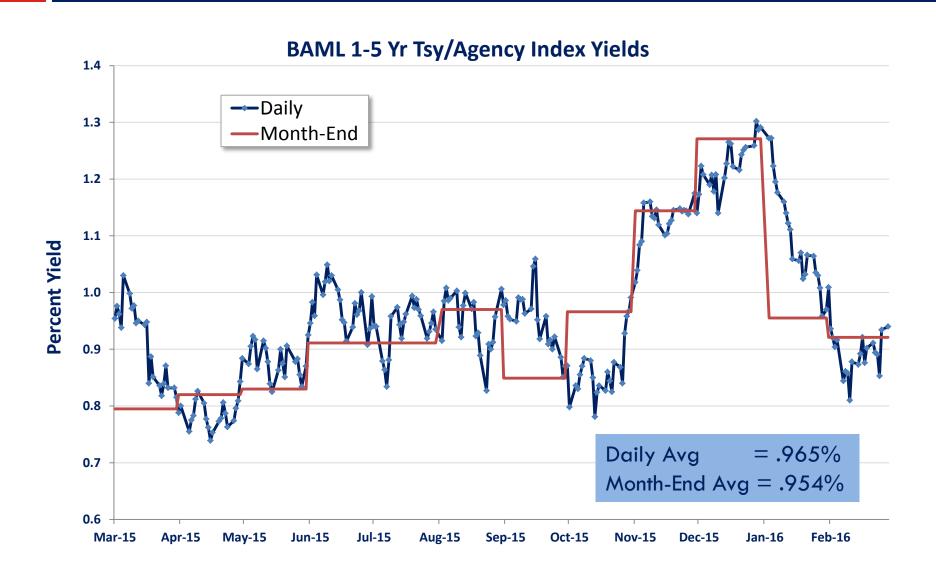
Weighted Yield

| Index | Jan-2015 | Feb-2015 | Mar-2015 | Apr-2015 | May-2015 | Jun-2015 | Jul-2015 | Aug-2015 | Sep-2015 | Oct-2015 | Nov-2015 | Dec-2015 | 12 Mon. Avg. |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|
| Weighted Yield | 0.51% | 0.65% | 0.59% | 0.62% | 0.64% | 0.68% | 0.69% | 0.72% | 0.63% | 0.72% | 0.84% | 0.98% | 0.69% |



Data Source: Bank of America Merrill Lynch (BAML)

Yield Return-Index Construction (Month-End vs Daily)



Yield to Maturity Assumptions

Future Coupons Payments are Reinvested at the Purchase Yield

Step-Up Example: 5 Year Maturity, Annual 1% Steps,
Purchased at Par

Coupons:

Year 2 - 2%

Year 3 - 3%

Year 4 - 4%

<u>Year 5 - 5%</u>

Avg = 3%

What is the Yield to Maturity?

1% or 3% or ?%

Yield Return-Pros and Cons

Pros:

- Ease of Calculation
- Ease of Understanding (presenting to governing boards)
- Helpful for Budgeting Interest Income

Cons:

- Does Not Account for Realized Capital Gains or Losses
- Does Not Accurately Account for Accrued Interest
- Subject to Yield To Maturity Assumptions

Book Rate of Return-Calculation Assumptions

```
+ Accrued/Received Interest

Book Return= +/- Amortization/Accretion of Premiums/Discounts
+/- Realized Gains/Losses

Average Daily Book Balance for the Period
```

Amortization: The accumulation of value until maturity (premiums)

Accretion: The accumulation of value until maturity (discounts)

Realized Gains/Losses: Liquidation Principal minus Book Value Principal

Book Rate of Return-Calculation Details

Purchase a \$100,000 principal at \$112 price with a 18% coupon paid at maturity

| Date | Amortized Book Value | Monthly Amortization | Held at Cost Book Value | Monthly Interest Accrual | Cumulative Interest Accrual | Coupon Payments |
|------------|-------------------------|-------------------------|----------------------------|-----------------------------|--------------------------------|--------------------|
| 9/30/2015 | 112,000 | 7 III OI CIZACION | 112,000 | | The reservices during | Tayments |
| 10/31/2015 | 111,000 | 1,000 | 112,000 | | 1,500 | |
| 11/30/2015 | 110,000 | 1,000 | 112,000 | 1,500 | 3,000 | |
| 12/31/2015 | 109,000 | 1,000 | 112,000 | 1,500 | 4,500 | |
| 1/31/2016 | 108,000 | 1,000 | 112,000 | 1,500 | 6,000 | |
| 2/29/2016 | 107,000 | 1,000 | 112,000 | 1,500 | 7,500 | |
| 3/31/2016 | 106,000 | 1,000 | 112,000 | 1,500 | 9,000 | |
| 4/30/2016 | 105,000 | 1,000 | 112,000 | 1,500 | 10,500 | |
| 5/31/2016 | 104,000 | 1,000 | 112,000 | 1,500 | 12,000 | |
| 6/30/2016 | 103,000 | 1,000 | 112,000 | 1,500 | 13,500 | |
| 7/31/2016 | 102,000 | 1,000 | 112,000 | 1,500 | 15,000 | |
| 8/31/2016 | 101,000 | 1,000 | 112,000 | 1,500 | 16,500 | |
| 9/30/2016 | 100,000 | 1,000 | 112,000 | 1,500 | 18,000 | 18,000 |
| Totals | | 12,000 | | 18,000 | | 18,000 |

Gain/Loss: Amortized vs. Held at Cost (Sold Early)

Amortized Method

| Sale Proceeds | 106,000 |
|------------------|----------|
| Book Value | -106,000 |
| Gain/Loss | 0 |
| Gain/Loss | 0 |
| Accrued Interest | 0.000 |
| Accided interest | 9,000 |
| Amortization | -6,000 |
| Net Earnings | 3,000 |

| Holding Period Return | 2.68% |
|------------------------------|---------|
| Cost | 112,000 |
| Net Earnings/ | 3,000 |

Held at Cost Method

| Sale Proceeds | 106,000 |
|---------------|----------|
| Book Value | -112,000 |
| Gain/Loss | -6,000 |

| Gain/Loss | -6,000 |
|------------------|--------|
| Accrued Interest | 9,000 |
| Amortization | 0 |
| Net Earnings | 3,000 |

| Holding Period Return | 2.68% |
|------------------------------|---------|
| Cost | 112,000 |
| Net Earnings/ | 3,000 |

Gain/Loss: Amortized vs. Held at Cost (at Maturity)

Amortized Method

| Maturity Proceeds | 100,000 |
|-------------------|----------|
| Book Value | -100,000 |
| Gain/Loss | 0 |
| Gain/Loss | 0 |
| Accrued Interest | 18,000 |
| Amortization | -12,000 |
| Net Earnings | 6,000 |

| Holding Period Return | 5.36% |
|------------------------------|---------|
| Cost | 112,000 |
| Net Earnings/ | 6,000 |

Held at Cost Method

| Maturity Proceeds | 100,000 |
|-------------------|----------|
| Book Value | -112,000 |
| Gain/Loss | -12,000 |

| Gain/Loss | -12,000 |
|------------------|---------|
| Accrued Interest | 18,000 |
| Amortization | 0 |
| Net Earnings | 6,000 |

| Holding Period Return | 5.36% |
|------------------------------|---------|
| Cost | 112,000 |
| Net Earnings/ | 6,000 |

Book Rate of Return-Pros and Cons

Pros:

- Matches Budgeting Process
- Closely Matches Actual Cash Flows

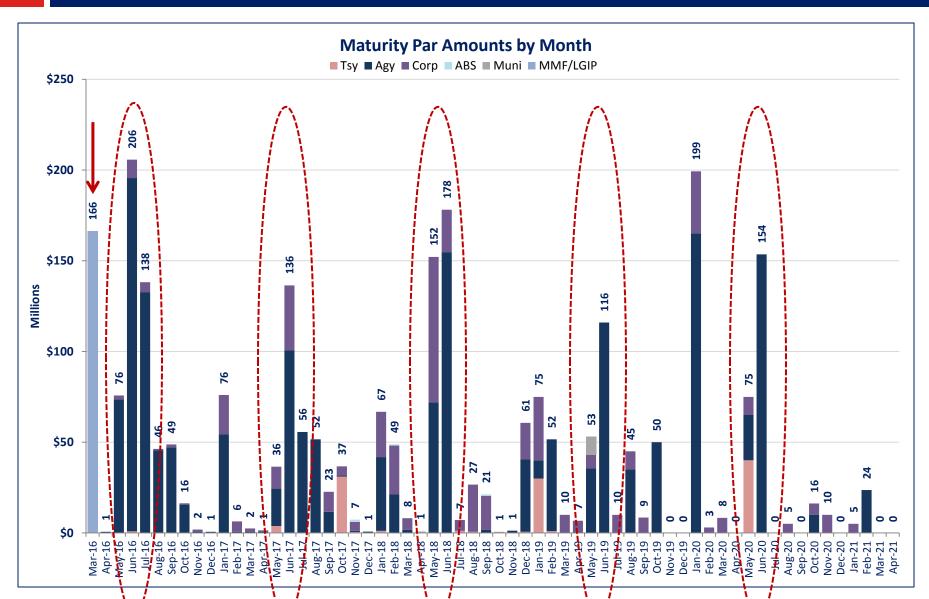
Cons:

- Subject to Manipulation of Realized Gains/Losses
- May Not Reflect Portfolio's Market Volatility Changes
- Calculation is More Complex

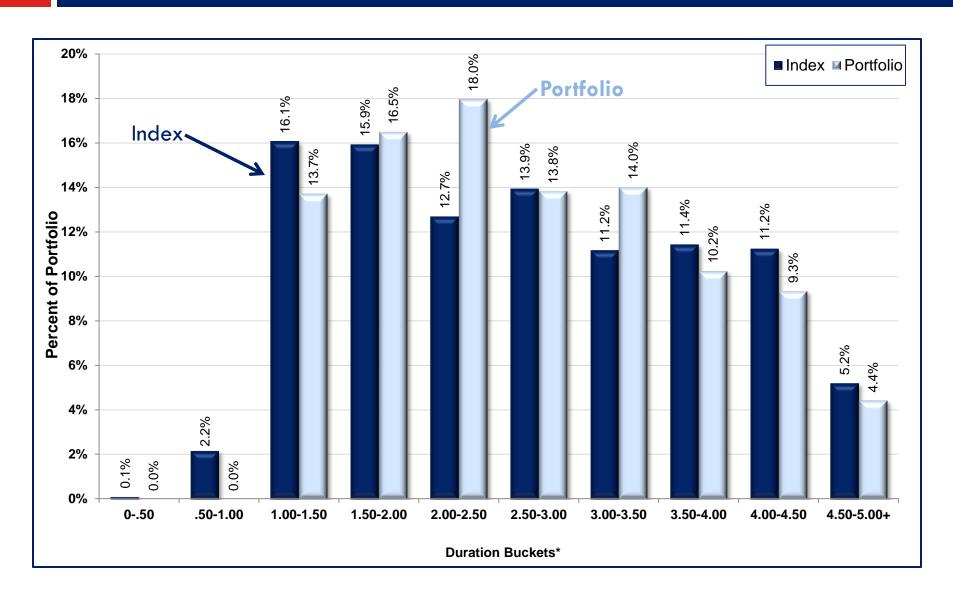
Note: Benchmark Development is Similar to Yield Return Methodology

When Should You Change Your Benchmark?

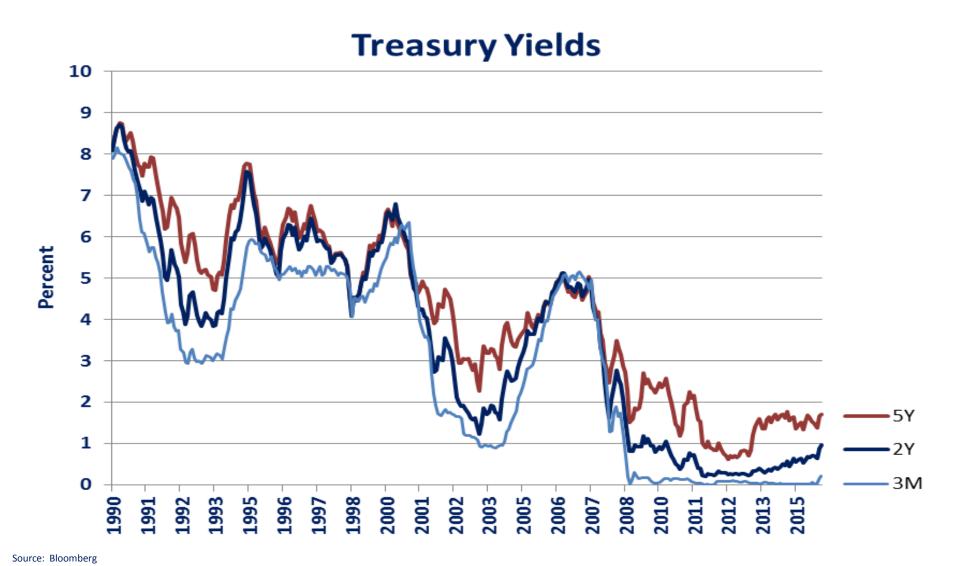
0-5 Year Cash Flow Matched Portfolio



1-5 Year Index Matched Portfolio



Duration Sweet Spot





Duration Sweet Spot (Risk Adjusted Return)

Benchmark Treasury Modified Sharp Ratio Analysis

1/31/1990 to 12/31/2015

| | | | | 1 | | | |
|------------|--------------|-----------|--------------|-------------------------|------|-----------------|------|
| | Maturity | Avg Yield | Avg Duration | Modified Sharp Ratio | | n of : Yr Ri | • |
| | 3 Mon T-Bill | 3.00 | 0.24 | | 56% | / | 2% |
| | 6 Mon T-Bill | 3.13 | 0.48 | 0.283 | 58% | / | 3% |
| | 1 Yr T-Bill | 3.27 | 0.97 | 0.279 | 61% | / | 6% |
| Sweet Spot | 2 Yr T-Note | 3.60 | 1.90 | 0.316 | 67% | / | 12% |
| | 3 Yr T-Note | 3.84 | 2.85 | 0.294 | 72% | / | 19% |
| | 5 Yr T-Note | 4.27 | 4.45 | 0.285 | 80% | / | 29% |
| | 10 Yr T-Note | 4.85 | 7.96 | 0.233 | 90% | / | 52% |
| | 30 Yr T-Bond | 5.36 | 15.35 | 0.154 | 100% | / | 100% |
| | | | · / | | | | |

(3.60 - 3.00) / 1.90 = .316

3.60/5.36 = 67%

1.90/15.35 = 12%



Total Rate of Return -- GIPS Methodology

+ Accrued/Received Interest

Total Return= +/- Realized Gains/Losses

+/- Unrealized Gains/Losses

Time Weighted Invested Market Value for the Period



Total Rate of Return Complexities

Bond Index Almanac

Bond Indices

Bond Indices | Global 28 January 2013

Calculation methodologies

Bank of America Merrill Lynch

Total return calculations

Calculating index values

The daily closing Index value is a function of the prior month-end index value and the current month-to-date return:

$$IV_n = IV_0 \times (1 + TRR_n)$$

where:

 IV_n = closing index value on day n

 IV_0 = closing index value on prior month-end

 TRR_n = month-to-date index total return on day n

The month-to-date return of an index (TRR_n) is equal to the sum of the individual constituent returns times their respective beginning of month weights:

$$TRR_n = \sum_{i=1}^k B_i TRR_n \times B_i Wgt_0$$

where:

 TRR_n = Index month-to-date total return on day n

 $BiTRR_n$ = month-to-date total return on day n of bond i

 $BiWgt_0$ = beginning of month weight of bond i

Periodic returns between any two dates can be derived from the beginning and end of period index values. Since index values represent closing levels, period returns will include market movement on the end of period date but exclude market movement on the beginning of period date. Therefore, to capture returns for the month of June, divide the June 30 Index value by the May 31 Index value:

$$TRR = \frac{IV_n}{IV_0} - 1$$

where:

TRR = periodic total return

 IV_n = closing index value on the end of period date

 IV_0 = closing index value on the beginning of period date

Annualized returns are derived from period total returns:

$$AnnTRR_n = (1 + TRR_n)^{365/d} - 1$$

where:

 $AnnTRR_n$ = annualized total return for period n

 TRR_n = periodic total return for period n

d = number of actual days in period n

Total Return Index Parameters/Rules

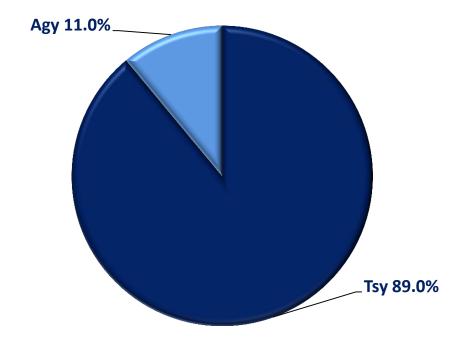
Bank of America/Merrill Lynch 1-3 Year Treasury and Agency Index (Ticker: G1A0 -- Fixed Coupon)

- Issue Size: \$250 Million and Up (Agency), \$1 Billion and Up (Treasury)
- Monthly Rebalanced
- Index "Buys" all Treasuries and Agency (non-subordinated) Fixed Rate Securities Between 1-3 Yrs
- Index "Sells" all Treasury and Agency Fixed Rate Securities Less Than 1 Yr
- "Buys" Newly Added Securities at the Bid

Source: BAM

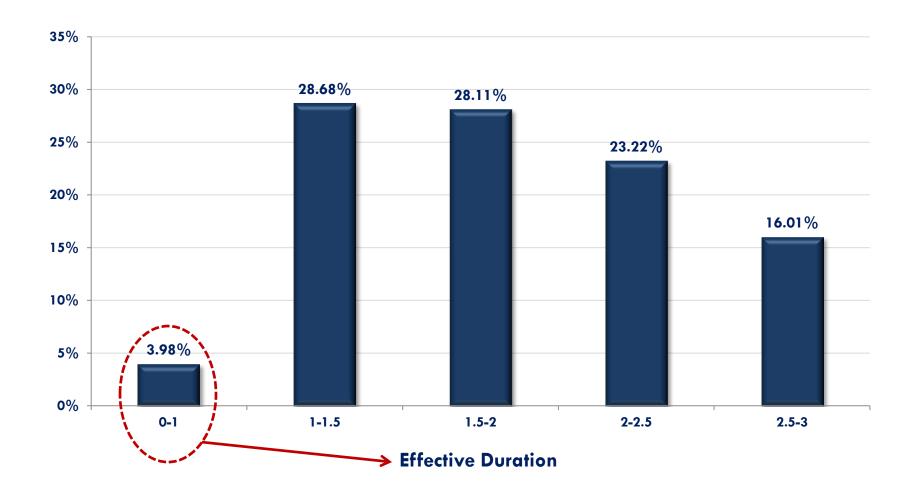
BofA Merrill 1-3 Year Treasury & Agency Index (1/31/16)

| Issuer | Percent |
|--------|---------|
| TSY | 88.98% |
| FNMA | 3.15% |
| FHLMC | 3.13% |
| FHLB | 2.39% |
| NCUA | 1.66% |
| FFCB | 0.39% |
| FICO | 0.14% |
| TVA | 0.11% |
| PEFCO | 0.06% |
| TOTAL | 100.00% |



Source: BAML 64

BofA Merrill 1-3 Year Treasury & Agency Index (1/31/16)



BofA Merrill 1-3 Year Treasury & Agency Index

| 200 5 | | | 5 5 1 1 1 5 | | - 1 | |
|-------------------------------|--------------------------|-----------|---------------|-------------|--------------|------------|
| | ownload | | BofAML Boi | nd Indices: | Index Charac | cteristics |
| The BofA Merrill Lynch 1-3 Ye | | | | Inception | Date 09/ | 30/1982 |
| 01/31/2016 | y <u>USD</u> Calculation | | | | | |
| | | 1/ | 31 Rebalancin | g | Jan Market | Change 🚣 |
| | | Feb Index | Jan Index | | | MTD Chg |
| | | 1/31/2016 | 1/31/2016 | 1/31/2016 | 12/31/2015 | 1/31/2016 |
| Returns | | | | | | |
| | Total Return Value | 652.172 | | | 648.234 | |
| Valuations (Scale MM) | | | | | | |
| † | # of Issues | 398 | 396 | 2 | 396 | 0 |
| | Face Value | 3,103,588 | 3,146,688 | -43,100 | 3,146,688 | 0 |
| | Accrued Interest | 13,174 | 13,230 | -56 | 11,725 | 1,505 |
| | Cash | 0 | 3,029 | -3,029 | 0 | 3,029 |
| | Full Market Value | 3,168,148 | 3,214,287 | -46,140 | 3,194,879 | 19,408 |
| ! | % of G0A0 | 32.59 | 33.01 | -0.43 | 33.52 | -0.51 |
| Yield | | | · | • | | |
| | Effective Yield | 0.81 | 0.79 | 0.01 | 1.07 | -0.28 |
| , | Yield to Worst | 0.81 | 0.79 | 0.01 | 1.07 | -0.28 |
| | Yield to Maturity | 0.81 | 0.80 | 0.01 | 1.07 | -0.27 |
| Spread (in Semi-Annual Tern | ns) | | | | | |
| | To Worst (vs Govt) | 1 | 2 | -1 | 1 | 1 |
| | OAS (vs Govt) | 1 | 1 | 0 | 1 | 0 |
| | Libor OAS | -2 | -3 | 1 | -7 | 4 |
| | Asset Swap | -2 | -2 | 0 | -6 | 4 |
| Duration | | | | | | |
| | Effective Duration | 1.84 | 1.77 | 0.07 | 1.86 | -0.09 |
| | Spread Duration | 1.84 | 1.76 | 0.07 | 1.86 | -0.09 |

30 Bonds Left the Index and 32 Bonds Were Added to the Index

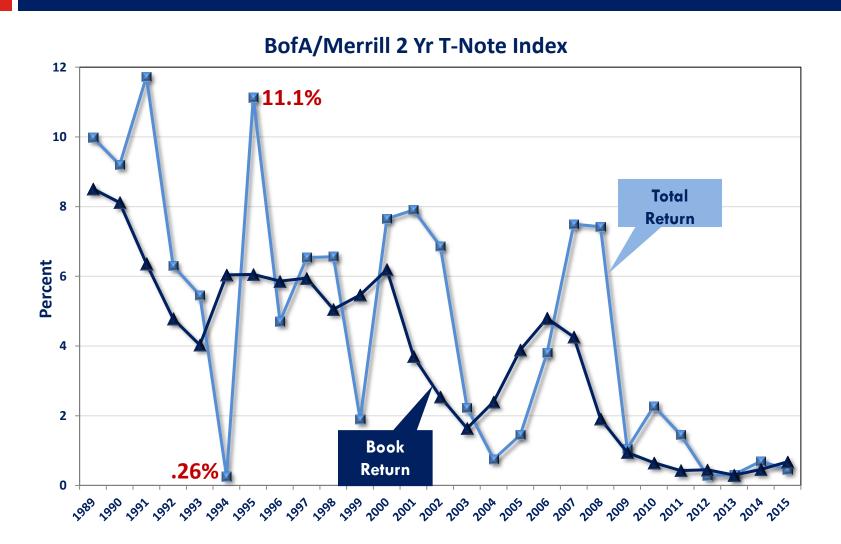
BofA Merrill 1-3 Year Treasury & Agency Index



BofA Merrill 1-5 Year Agency Callable Index

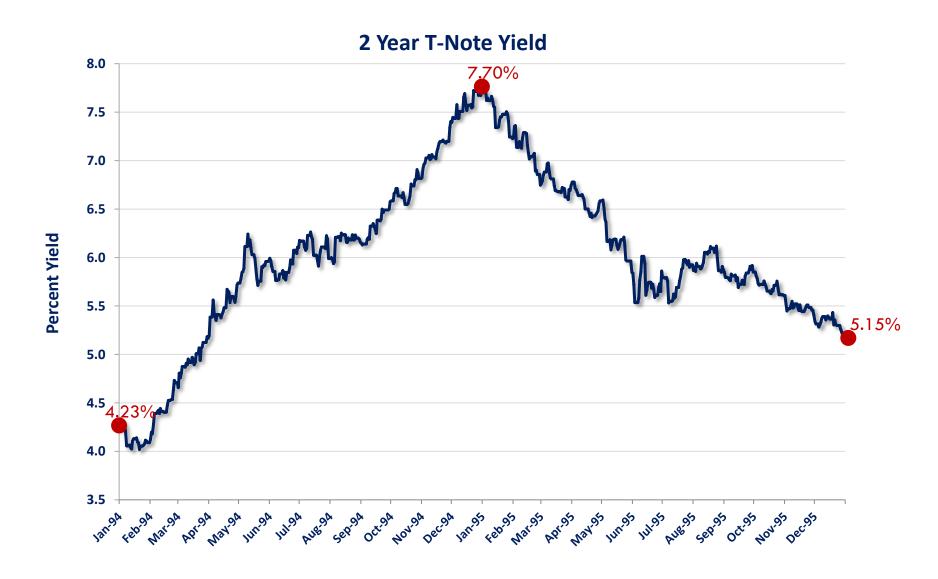


Book Return vs. Total Return

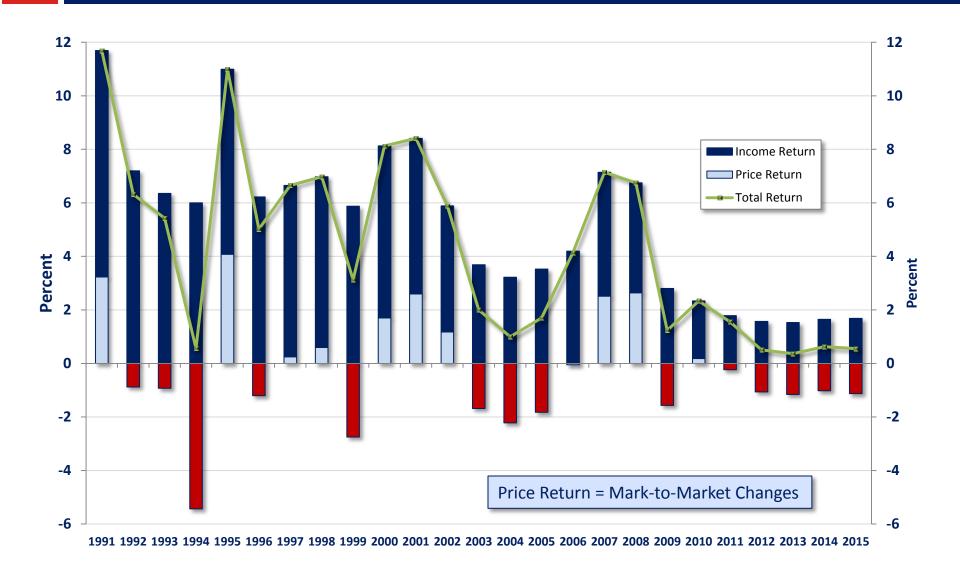


*Book Return = 12 Month Moving Average of Index's Month-End Yield

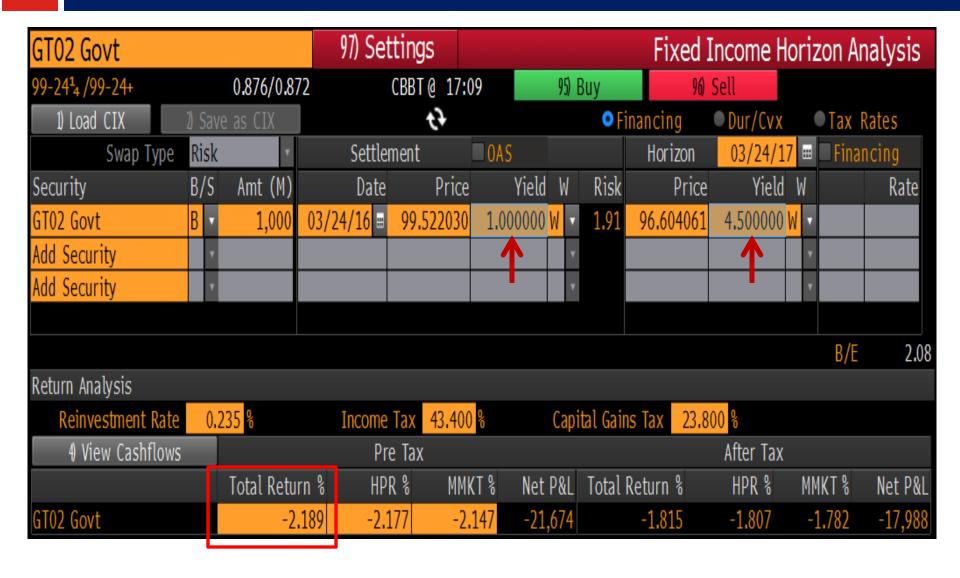
Yield vs. Price



1-3Yr Tsy/Agy Index Components of Total Return



2Yr T-Note: Yield vs. Price



1-3Yr Tsy/Agy Index Components of Total Return

Price Return vs Coupon Return 1991 to 2015

| Component | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Price | 3.2 | -0.9 | -0.9 | -5.4 | 4.1 | -1.2 | 0.2 | 0.6 | -2.8 | 1.7 | 2.6 | 1.2 | -1.7 |
| Income | 8.5 | 7.2 | 6.4 | 6.0 | 6.9 | 6.2 | 6.4 | 6.4 | 5.9 | 6.4 | 5.8 | 4.7 | 3.7 |
| Total | 11.7 | 6.3 | 5.4 | 0.6 | 11.0 | 5.0 | 6.7 | 7.0 | 3.1 | 8.1 | 8.4 | 5.9 | 2.0 |

| Component | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|
| Price | -2.2 | -1.8 | 0.0 | 2.5 | 2.6 | -1.6 | 0.2 | -0.2 | -1.1 | -1.2 | -1.0 | -1.1 |
| Income | 3.2 | 3.5 | 4.2 | 4.6 | 4.1 | 2.8 | 2.2 | 1.8 | 1.6 | 1.5 | 1.6 | 1.7 |
| Total | 1.0 | 1.7 | 4.1 | 7.1 | 6.7 | 1.2 | 2.3 | 1.6 | 0.5 | 0.4 | 0.6 | 0.6 |

| Component | % of Total | Avg Return |
|---------------|------------|------------|
| Coupon Return | 102.3% | 4.5% |
| Price Return | -2.3% | -0.1% |
| Total Return | 100.0% | 4.4% |

Book Return and Total Return are basically the same over the long run for short-term fixed income indexes and portfolios.

Book Return vs. Total Return

Interest Rates Decline 50 Basis Points for the Month Calculation of Return

Book Return

VS

Total Return

| Interest Collected | 300,000 |
|--|------------|
| Plus Accrued Interest at End of Period | 150,000 |
| Less Accrued Interest at Beginning of Period | (100,000) |
| Less Accrued Interest at Purchase During Period | (50,000) |
| Interest Earned During Period | 300,000 |
| | |
| Adjusted by Premiums and Discounts | 50,000 |
| Adjusted by Realized Capital Gains or Losses | 100,000 |
| Adjusted by Mark-to-Market | N/A |
| Earnings During Period | 450,000 |
| | |
| Daily Weighted Balance for Period | 100,000,00 |
| | |
| Book Rate of Return - Period | 0.45% |
| Book Rate of Return - Annualized | 5.40% |
| | |

| iotal Retuili | | |
|--|------------|---|
| Interest Collected | 300,000 | |
| Plus Accrued Interest at End of Period | 150,000 | |
| Less Accrued Interest at Beginning of Period | (100,000) | |
| Less Accrued Interest at Purchase During Period | (50,000) | |
| Interest Earned During Period | 300,000 | |
| | | |
| Adjusted by Premiums and Discounts | N/A | |
| Adjusted by Realized Capital Gains or Losses | 100,000 | |
| Adjusted by Mark-to-Market | 750,000 | + |
| Earnings During Period | 1,050,000 | |
| | | |
| Daily Weighted Balance for Period | 100,000,00 | |
| | | |
| Total Rate of Return - Period | 1.05% | |
| Total Rate of Return - Annualized | 12.60% | |

Mark-to-Market: \$100,000,000 x 1.5 duration x .50%= \$750,000



Standard of Care - Prudent Person

"Investments shall be made with judgment and care, under circumstances then prevailing, which persons of prudence, discretion and intelligence exercise in the management of their own affairs, not for speculation but for investment, considering the probable safety of their capital as well as the probable income to be derived."

GFOA Sample Investment Policy



Government Finance Officers Association

GFOA Best Practice

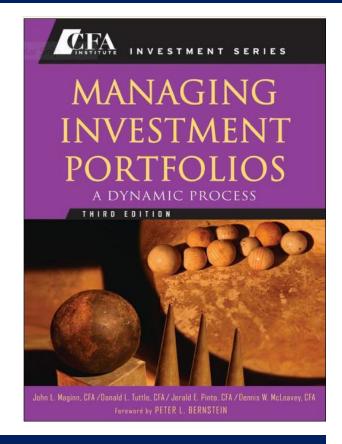
Using Benchmarks to Assess Portfolio Risk and Return

Background. Measuring portfolio risk and return results against appropriate market benchmarks¹ is a technique to verify that all the investment objectives are being met and that portfolio investment returns are appropriate for the risk incurred. Comparing total return to a proper benchmark or index is the preferred means for assessing performance relative to risk and investment objectives.

Investment yield alone is not sufficient for assessing risk and performance. Investment yield measures the percentage increase or decrease that a portfolio generates during a given period and is useful for budgeting purposes but overall, is unreliable for decision making and assessing the risk and return characteristics of the portfolio.

Total Return Implications

"Total rate of return measures the increase in the investor's wealth due to both investment income (for example, dividends and interest) and capital gains (both realized and unrealized). The total rate of return implies that a dollar of wealth is equally meaningful to the investor whether that wealth is generated by the secure income from a 90-day Treasury bill or by the unrealized appreciation in the price of a share of common stock." (emphasis added)



Does your benchmarking methodology represent "the <u>persistent</u> and <u>prominent</u> investment characteristics" of your investment process and your investment objectives?

Source: (2010-03-18). Managing Investment Portfolios: A Dynamic Process (CFA Institute Investment Series) (Kindle Locations 18222-18225). Wiley. Kindle Edition.

Total Rate of Return-Pros and Cons

Pros:

- Provides a GASB 31 Type of Risk Assessment
- Reflects Portfolio's Market Volatility Changes
- Provides a standardized approach (GIPS) of returns

Cons:

- May not match objective in investment policy (principal preservation)
- May not match interest income budget objectives
- Complex calculations

Conclusions

- To Adhere To the Third Object of Your Investment Policy-One Needs to Benchmark the Portfolio to See If It's Earning a "Market Rate of Return"
- Change the Benchmark Only When There Are Material Changes to the Portfolio
- It's Okay to Use All Three Measures
- Book Return and Total Return Are More Sophisticated Measures
- Book Return Is Generally More Congruent With Most Municipalities'
 Budgeting Process and Investment Process and Should Be the Primary
 Method to Benchmark the Portfolio
- Total Return Shows a Portfolios' Risk Similar to GASB 31 and is Helpful in Assessing Market Risks