Understanding Fixed Income Investments

FGFOA Nature Coast Chapter

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Meet the Presenter



Sean Gannon
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Sean is based in the Atlanta, GA office and works with cities, counties, authorities, utilities and other public and non-profit organizations throughout the Southeast, providing a "high touch, high value" experience for whatever the client's needs may be. His focus is on helping clients build out their investment program by utilizing national best practice policies. Sean's responsibilities include performing portfolio structuring and analysis, reviewing portfolio performance, cash flow modeling, asset allocation analysis and economic research, and reporting.

Back to Basics: Key Investment Concepts



Fixed Income Securities

Definition: A debt obligation of a corporate, governmental entity, or trust.

- May provide periodic coupon payments based on a fixed or floating interest rate.
- Upon maturity, the face value or principal of the security is redeemed to the investor.

Advantages

- Competitive rates of return
- Opportunity to realize capital gains if interest rates decline
- Fixed maturity value if held to maturity
- Set coupons create predictable cash flow

Disadvantages

- Fixed coupon rate creates inflation risk
- Loss of value possible if interest rates increase
- Rating agency downgrade can negatively effect value



Key Players

Issuers

- The organizations offering or proposing to offer securities for sale to investors
- Agree to pay back the proceeds from a security sale and make the required coupon, principal and/or dividend payments
- Examples:
 - Federal Government and Agencies
 - Municipal Governments
 - Corporations

Investors

- Entities who commit money to investment products with the expectation of financial returns
- Examples:
 - Municipal Governments
 - Insurance Companies
 - Pension/Retirement Funds
 - Mutual Funds
 - You & Me



Types of Fixed Income Securities by Maturity

"Money Market Instruments"

- U.S. Treasury Bills
- Federal Agency Discount Notes
- Commercial Paper
- Bankers' Acceptances
- Repurchase Agreements
- Certificates of Deposit
- Money Market Mutual Funds

Mature in less than 1 Year

"Notes and Bonds"

- U.S. Treasury Notes/Bonds
- Federal Agency Notes/Bonds
- Mortgage-Backed Securities
- Corporate Notes
- Mutual Funds

 (aka Bond Funds)

Mature in over 1 Year



Pop Quiz

A fixed income security is a debt obligation of a corporation, governmental entity or trust.

A. True

B. False



Pop Quiz

A fixed income security is a debt obligation of a corporation, governmental entity or trust.

A. True

B. False



Basis Points

- Basis Points (bps) are a unit of measure in finance and economics
- One basis point is equivalent 1/100th of a percent

Basis Points	Percentage	Decimal
1 Basis Point	0.01%	0.0001
100 Basis Points	1.00%	0.0100
50 Basis Points	0.50%	0.0050
10 Basis Points	0.10%	0.0010

The difference between 4.90% and 4.95% is 5 basis points



Investing in Fixed Income Securities



Interest Rates



Compensation to the investor

Averages
2 – 3% over long
historical
periods

Expectations of inflation over the investment term

Preserves the purchasing power of the investor

Compensation for current or possible risks



The "Income" in Fixed Income

Par Value (Face Value) – principal amount of the bonds

- Amount that will be repaid by issuer
- Price may be above (premium) or below (discount) the face amount

Coupon Rate (Nominal Yield) – stated interest rate

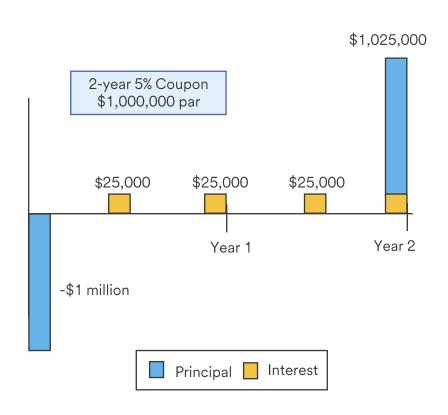
• Expressed as a fixed percentage of par

Coupon Payment – dollar value of interest payment

- Multiply the coupon rate by par value
- Typically paid semi-annually
- Last interest payment is made when the bond matures
- (Coupon ÷ Market Price) = Current Yield

Maturity – end of investment period

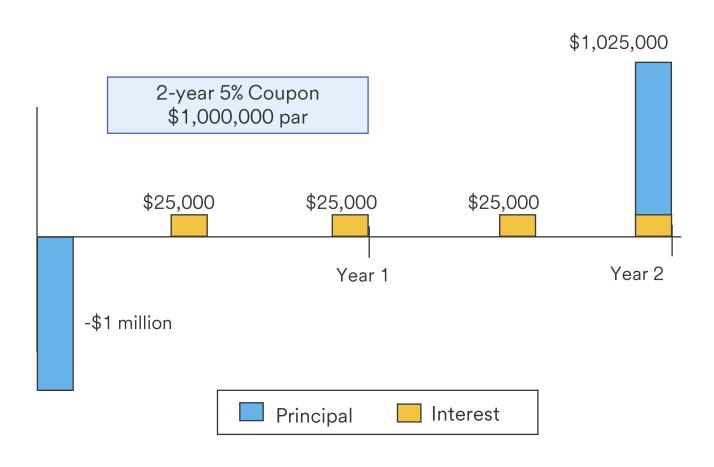
 The length of time until the principal is scheduled to be repaid





For illustrative purposes only.

A Closer Look: Typical Coupon Security Periodic Interest Payments



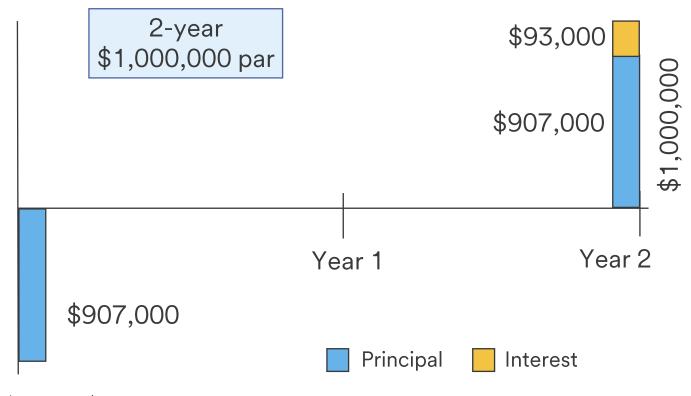
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For illustrative purposes only.

Zero Coupon Bonds

- No periodic interest is paid
- All income is paid at maturity
- Income is the difference between the purchase price amount and the par/face (maturity)
 amount
- Therefore, all are purchased at a discount (assuming interest rates are positive)



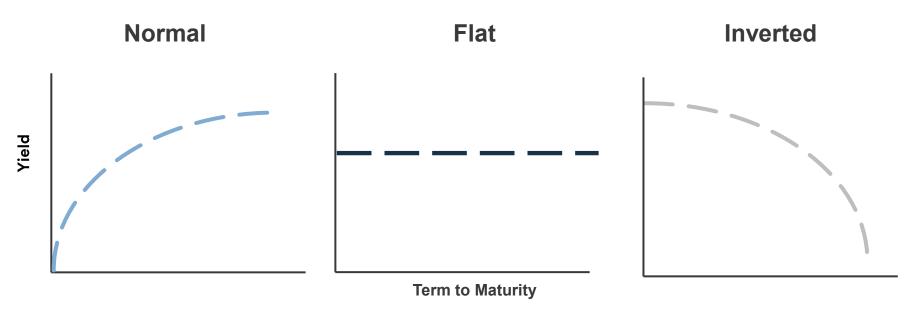


Term to Maturity

- Number of years remaining in the life of the bond
- Maturity = Term = Term to Maturity = Final Maturity
- Term Bonds (Bullets) have a single, fixed maturity date
- Call Date the date on which the issuer may redeem bonds early
- Relative Terms
 - Short Term 1 to 5 years
 - Intermediate Term 5 to 12 years
 - Long Term More than 12 years

Yield Curves

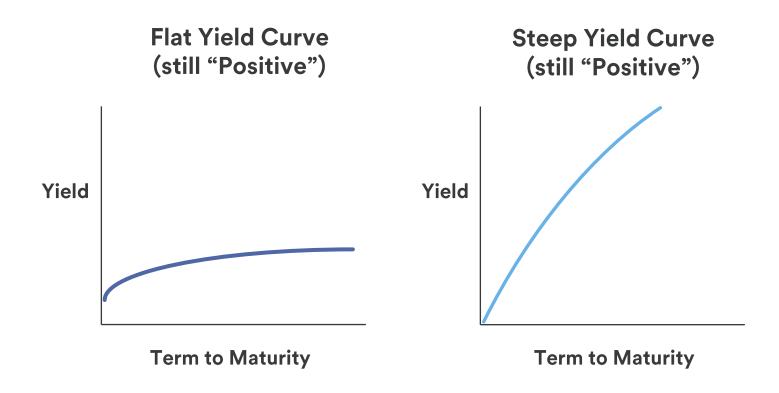
- Shows the relationship between yield and maturity.
- Rates at the short end of the curve (under 1 year) are directly correlated to the federal funds rate established by the Federal Open Market Committee.
- The longer end of the curve typically reflects investor expectations.
- There are several types of curves:





For illustrative purposes only.

Yield Curves



Steepness of a positively slopped curve is a result of how much greater longer-term yields are versus short term yields.



Risks Commonly Associated with Fixed Income Securities



Investment Risks



Interest Rate Risk

Risk that the value of securities changes with different interest rate environments



Liquidity Risk

Risk that portfolio holdings will not be able to be sold at a competitive price



Credit Risk

Risk of default or decline in security value due to changes in creditworthiness of issuer



Inflation (Purchasing Power) Risk

Risk that rising inflation causes the loss of purchasing power over time



Call / Prepayment Risk

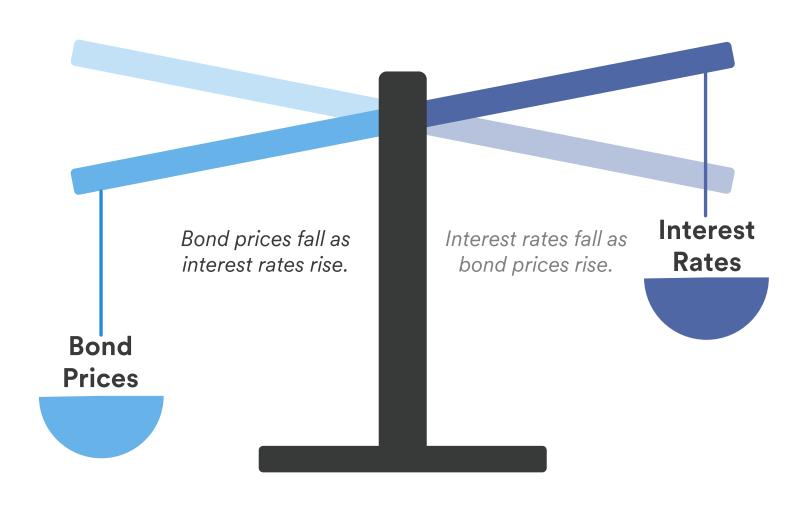
Risk that an investor receives their principal prematurely, losing future interest payments



Sources: PFMAM; Investopedia.

Interest Rate Risk

Risk that the value of securities changes with different interest rate environments

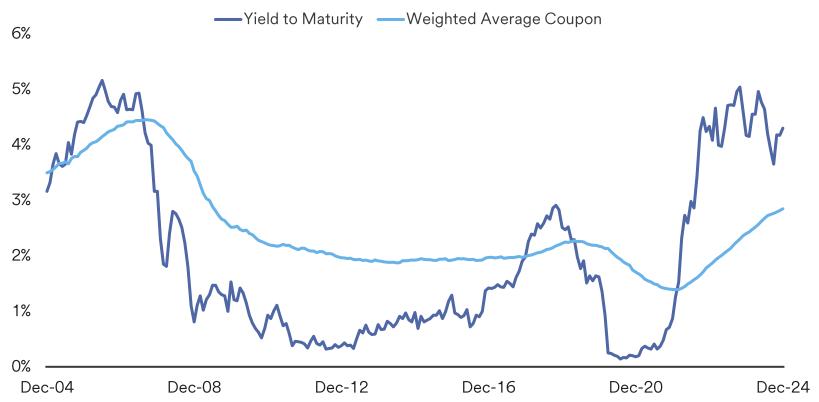




Yield to Maturity vs. Weighted Average Coupon Comparison

1-5 Treasury Index YTM vs. Weighted Average Coupon¹

December 31, 2004 - December 31, 2024



Sources: Bloomberg and ICE BofA Indexes.

¹The Yield to Maturity at Market (YTM) represents the current market yield of all securities in the index. The Weighted Average Coupon (WAC) is the average original coupon rate on all securities in the index. As securities in the 1-5 Year Treasury index tend to be issued at or near par (with the coupon rate approximately equal to the original yield), the WAC can be viewed as a proxy for the yield at cost of the securities in the index. The WAC tends to exceed the YTM in a falling interest rate environment and trail in a rising interest rate environment.





Pop Quiz

Bond prices and interest rates move in the same direction.

A. True

B. False



Pop Quiz

Bond prices and interest rates move in the same direction.

A. True

B. False



Liquidity Risk

Risk that portfolio holdings will not be able to be sold at a competitive price

- Substantial penalty for earlier withdrawal
- Capital losses if interest rates have increased

Liquidity Spectrum

More Liquid Less Liquid

- Local Government Investment Pools
- Money Market Funds
- U.S. Treasury Bills Agency Discount Notes
- Commercial Paper
- Federal Agencies
- U.S. Treasuries

- Supranationals
- Corporate Bonds
- Asset-Backed Securities
- Federal Agency Mortgage-Backed Securities

- Municipal Bonds
- FDIC-Insured CDs



For illustrative purposes only.

Credit Risk

Risk of default or decline in security value due to changes in creditworthiness of issuer

- Bankruptcy
- Rating agency downgrades
- Regulatory changes



Explanation of Credit Ratings

S&P	Moody's	Explanation of Rating
AAA	Aaa	High quality – smallest degree of investment risk
AA	Aa	High quality – differs only slightly from highest-rated issues
А	А	Adequate capacity to pay interest and repay principal
BBB	Baa	More susceptible to adverse effects of changes in economic conditions
ВВ	Ва	Has speculative elements – future not considered to be well-assured
В	В	Generally lacks characteristics of desirable investment
CCC	Caa	Poor standing – vulnerability to default
С	С	Extremely poor prospect
D	D	In default

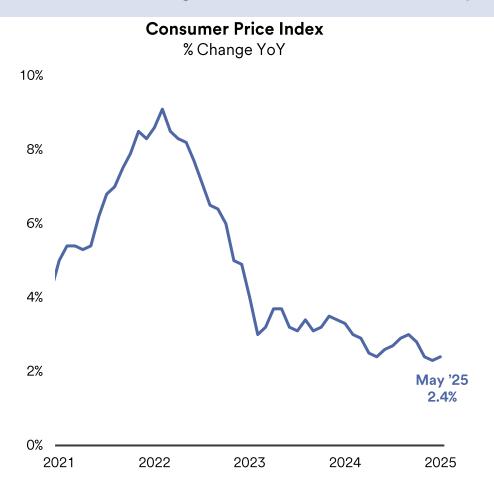
Differences in Rating Actions

Jargon	Definition
Credit Rating	 Reflection of the probability of default and loss to investors Long-term and short-term ratings; local and foreign
Rating Watch	 Indication that a rating agency is reassessing the rating of an entity in response to a change in the credit quality of the issuer Potential upgrade or downgrade may occur within 3 months
Rating Outlook	 Longer-term projection of a possible ratings change Potential upgrade or downgrade may occur in 6 months to 2 years



Inflation (Purchasing Power) Risk

Risk that rising inflation causes the loss of purchasing power over time



\$1 in May 2015

has the same purchasing power as

\$1.35 in May 2025



Careful planning and wellinformed stewardship can help minimize inflation's adverse effects on entity finances



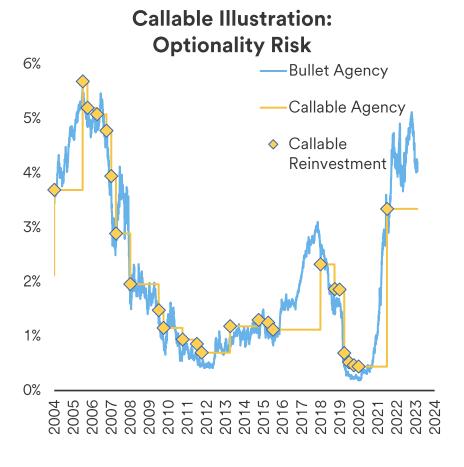
Differences Between Inflation Indicators

	Import Prices	PPI	CPI	PCE
Definition	Price of goods or services purchased from abroad by U.S. residents	Selling prices received by domestic producers of goods and services	Prices paid by urban consumers for a market basket of goods and services	Prices paid for goods and services purchased by or on behalf of persons
Timing	 Monthly Before the 15th of the month 1-month lag 	 Monthly Before the 15th of the month 1-month lag 	 Monthly Before the 15th of the month 1-month lag 	MonthlyEnd of month1-month lag
Composition Goods Food Energy Services				



Call / Prepayment Risk

Risk that a security is called away/repaid earlier than the original maturity date,
 which may result in investing in a lower interest rate environment



Total Returns
Callable vs. Bullet Agencies

Year	Callable	Bullet	Difference
2004	1.26%	1.15%	0.11%
2005	1.87%	1.72%	0.15%
2006	4.63%	4.46%	0.17%
2007	5.77%	7.12%	-1.36%
2008	4.68%	7.78%	-3.10%
2009	1.83%	2.23%	-0.40%
2010	1.08%	2.68%	-1.59%
2011	1.21%	1.60%	-0.39%
2012	0.69%	0.89%	-0.20%
2013	0.40%	0.43%	-0.03%
2014	0.58%	0.73%	-0.15%
2015	0.92%	0.64%	0.28%
2016	1.00%	0.95%	0.05%
2017	0.86%	0.59%	0.27%
2018	1.82%	1.77%	0.06%
2019	3.04%	3.59%	-0.55%
2020	1.07%	3.12%	-2.05%
2021	-0.35%	-0.46%	0.10%
2022	-4.40%	-3.49%	-0.91%
2023	4.87%	4.55%	0.32%
2024	4.44%	4.20%	0.32%
Annualized Return	1.75%	2.17%	0.42%

Potential Areas of Policy Uncertainty



Taxes

Lower generally taxes viewed as positive for growth but negative for the deficit



Tariffs

Uncertainty surrounding the scope and scale of tariff policy



Immigration

Tighter border policy may have adverse impacts on the labor market



Regulation

Easing regulation is generally viewed as positive for growth



Pop Quiz

What type of risk is risk of default or decline in security value due to changes in creditworthiness of an issuer?

A. Credit risk

B. Inflation power

C. Liquidity risk

D. Interest rate risk



Pop Quiz

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Fixed Income Sectors





Government

Treasuries

Federal Agencies

Supranationals

Municipals



Securitized

Agency Mortgage-Backed
Asset-Backed



Credit

Corporate Notes
Commercial Paper
Certificates of Deposit



Cash Alternatives

Money Market Funds
Local Government
Investment Pools

What are Treasuries?

- Securities issued directly by and backed by the full faith and credit of the U.S. Government
- Maturities range from short-term to 30 years
- Types: Treasury Bills, Notes, Bonds, floating rate notes, STRIPS, TIPS and SLGS

- Largest segment of the U.S. bond market
- · Considered "risk-free"

- Highest liquidity
- Available in large segments

Sector Focus: Federal Agencies



Treasuries

Federal Agencies

Supranationals

Municipals



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Cash Alternatives

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What are Federal Agencies?

- Securities issued by agencies of the U.S. Government and U.S. Government-Sponsored Enterprises (GSEs), most of which are not explicitly backed by the full faith and credit of the U.S.
- Frequent issuers: Fannie Mae, Freddie Mac, Federal Home Loan Banks, Federal Farm Credit Bank
- Types: discount notes, coupon notes/bonds, callables and floating rate notes

- Incremental yield over Treasury securities
- High liquidity

- Diversification
- High credit quality



Sector Focus: Supranationals



Treasuries
Federal Agencies

Supranationals

Municipals



Securitized

Agency Mortgage-Backed
Asset-Backed



Credit

Corporate Notes
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Cash Alternatives

Money Market Funds Local Government Investment Pools

What are Supranationals?

- Securities issued by a supranational entity, formed by two or more central governments with the purpose of promoting economic development for the member countries
- Examples include the World Bank and the International Finance Corporation

- Incremental spread over Treasury securities
- High credit quality



Sector Focus: Municipal Securities



Treasuries
Federal Agencies
Supranationals
Municipals



Securitized

Agency Mortgage-Backed
Asset-Backed



Credit

Corporate Notes
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Certificates of Deposit



Cash Alternatives

Money Market Funds Local Government Investment Pools

What are Municipal Securities?

- Securities issued by state and local governments or their agencies
- General Obligation ("GO") Bonds are backed by the full faith and credit of the taxing authority
- Revenue Bonds are secured by a stream of income typically from the projects funded by the bonds, such as the revenue generated from a toll bridge or sewer system

- Typically high credit quality
- Diversification

- More than 50,000 distinct issuers
- Taxable issues provide alternative to corporates; tax-exempt issues may provide tax advantages to investors

Sector Focus: Mortgage-Backed



Government

Treasuries
Federal Agencies
Supranationals
Municipals



Securitized

Agency Mortgage-Backed

Asset-Backed



Credit

Corporate Notes
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Certificates of Deposit



Cash Alternatives

Money Market Funds
Local Government
Investment Pools

What are Mortgage-Backed Securities?

- Securitized investments created from pools of residential or commercial mortgages
- Securities represent ownership rights to the future principal and interest payments

- Incremental spread over Treasury securities
- High credit quality

- Diversification
- Good liquidity





Government

Treasuries
Federal Agencies
Supranationals
Municipals



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Cash Alternatives

Money Market Funds Local Government Investment Pools

What are Asset-Backed Securities?

- Securitized investments backed by assets such as automobile loans, credit card receivables, student loans or corporate loans
- Securities represent ownership rights to the cash flows from these assets

- Attractive risk-adjusted returns
- Incremental spread over government securities
- Diversification
- High credit quality

Sector Focus: Corporate Notes



Government

Treasuries
Federal Agencies
Supranationals
Municipals



Securitized

Agency Mortgage-Backed
Asset-Backed



Credit

Corporate Notes

Commercial Paper
Certificates of Deposit



Cash Alternatives

Money Market Funds
Local Government
Investment Pools

What are Corporate Notes?

- Longer-term, unsecured debt securities issued by corporations and financial institutions
- Investment grade credit quality ranges from AAA (prime) to BBB (lower medium grade)

- Incremental yield over government securities
- Good liquidity

- Diversification
- Periodic issuance from a wide range of issuers



Sector Focus: Corporate Notes



Government

Treasuries
Federal Agencies
Supranationals
Municipals



Securitized

Agency Mortgage-Backed
Asset-Backed



Credit

Corporate Notes

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Certificates of Deposit



Cash Alternatives

Money Market Funds
Local Government
Investment Pools

What is Commercial Paper?

- Short-term, unsecured debt securities issued by corporations and financial institutions, generally for working capital purposes
- Maturities typically range from 1 to 270 days

- Incremental yield over government securities
- Relatively high liquidity

- Diversification
- Available daily from a wide range of issuers and in a wide range of maturities



Sector Focus: Corporate Notes



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Municipals



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Cash Alternatives

Money Market Funds Local Government Investment Pools

What are Negotiable CDs?

- Certificates of deposit that are issued by banks and can be bought and sold in a liquid secondary market, unlike typical CDs
- Maturities typically are approximately 1 year and under at issuance; occasionally can be found out to 3 years

Potential Benefits:

- Incremental yield vs. governmental securities
- Relatively high liquidity

Diversification

Thank you! Questions?

Disclosures

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