







# The Economy Now

- Where are we now?
- What does that mean?
- Fed tightened 525 bps (5.25%) but is in holding pattern last 4meetings
- Inflation remains fell from 9.1% but still 3.9% not at 2% target level
- Confidence slowing but consumers spend and dig themselves in debt
- Growth is modest globally but challenges by geo-politics
- Debt becomes a political game a serious one next stop January

•Why cut with a strong economy and lowering inflation?

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	Inflation
	Employment
Key Issues for You to Watch	Central Bank Accommodation
	Liquidity
	Debt and Politics







Bui	lding	a Ca	sh Flo	W		
	Mo1	Mo2	Mo3	Mo4	Mo5	Mo6
REVENUES	8,000,000	9,000,000	3,000,000	2,000,000	7,000,000	5,000,000
EXPENSES	4,500,000	5,000,000	4,000,000	5,500,000	5,000,000	6,000,000
			$\frown$			
NET	3,500,000	4,000,000	1,000,000	-3,500,000	2,000,000	-1,000,000
L	ook month-te	o-month focu	ising NET to i	nvest to nega	ative months	
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## Everyone has a CORE Portfolio Measuring and Using the Core









S	Μ	Т	W	TH	F	S
1	2	2	4 Payables \$250,000	5	<sup>6</sup> Payroll \$1mm	7
8	9	10	11 Payables \$250,000	12	13	14
15	16	17	18 Payables \$250,000	19	20	21
22	23	24	25Payables	26	<sup>27</sup> Payroll	28













# The Policy

- Who are you writing it for? • Keep it clear and concise
- Some policy sections can be backed up by procedures
- Strategies are broad in scope and usually in the policy

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• Keep the policy and strategy in sync

Key Policy Elements	Scope			
	<ul> <li>Objectives</li> </ul>			
	Responsibilities			
	Authorized Investments			
	<ul> <li>Maximum maturity</li> </ul>			
	Maximum weighted average maturity			
	Controls and Procedures			
	Collateral Policy			
	■Safekeeping			
	Reporting requirements			
	Annual adoption			
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## PFIA Specific Policy Requirements

Write and adopt a policy annually which must: (2256.005) Must be adopted by resolution

The resolution must show any changes made

### Be written

- Primarily emphasize safety and liquidity
- State the maximum stated maturity authorized
- Address diversification, yield, maturity & capability of officers
- List your authorized investments
- Include a procedure to monitor credit rating changes
- Set a maximum weighted average maturity (WAM) Method to monitor market prices
- Require delivery versus payment (DVP)
- Policy may 'un-authorize' any type investment



# **Policy Elements**

### Delegation of Responsibilities

- Investment Officer duties and training
- Governing body duties
- Broker/dealers requirements (separate section)
- Auditors
- Advisers (if applicable)
- The City Council holds ultimate fiduciary responsibility for the portfolio. It will designate investment officer(s), receive and review quarterly reporting, approve and provide for investment officer training, annually approve broker/dealers, and annually review and adopt the Investment Policy and Strategy.











# **Policy Elements**

### oReporting

• PFIA requirements – can just be referenced but...

<u>Quarterly Reporting</u> The Investment Officers shall <u>prepare and present</u> a signed quarterly investment report to the City Manager and Council in accordance with the Act giving detail information on each portfolio and bank position and summary information to permit an informed outside reader to evaluate the performance of the investment program. The report will include the following at a minimum as of the end of the reporting period:

- A full description of each individual security or bank/pool position held
- the amortized book value and market value at the beginning and end of the period, Unrealized gains or losses (book value minus market value),
- Weighted average yield of the portfolio (and its applicable benchmarks,)
- Earnings for the period (accrued interest plus accretion minus amortization) Asset allocation analysis of the total portfolio by market sector and maturity, and Statement of compliance of the investment portfolio with the Act and the Investment Policy

Market prices for the calculation of market value will be obtained from independent sources.













## Macro Written Strategies

Dependent on your cash flow and fund type

Dependent on your risk tolerance

Dependent on your policy limits

Require some analysis

Partially dependent on <u>your economic view</u>
Will rates go up?
When will it go up?
How far will it go?





	The primary objective is <u>liquidity</u> and reasonable <u>yield</u> .
Sample	Authorized securities or the pool used will be of the <u>highest credit</u> quality. When not matched to a liability it will be short term and liquid.
Strategy for a Short Conservative	The portfolio will be <u>diversified</u> to avoid market and credit risk.
Portfolio	Diversification requirements can be met through a pool.
	Maximum <u>WAM</u> is one year.

Sample Strategy for a Short Conservative <u>Pro-active</u> Portfolio	The primary objective is to invest in accordance with cash flow needs to produce a market <u>yield</u> . All securities will be of the <u>highest credit</u> quality to manage risk. The portfolio will be structured as a <u>ladder</u> to match known liabilities and providing for a reasonable liquidity buffer for unexpected needs. The portfolio will be <u>diversified</u> <u>to avoid</u> <u>market and credit risk</u> . The maximum weighted average maturity will be one year.
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## Common Macro Strategies

## 100% Cash

- (pools, bank deposits, money markets) - opportunity cost

### Ladder

- Matching known liabilities with a liquidity buffer

## Barbell

- Split maturities add capture yield liquidity risk possibility
- Could be used in a commingled portfolio effectively



## A Ladder Strategy

- In a laddered portfolio securities are positioned to match liabilities so maturities occur in regular intervals to provide a known stream of cash.
- The laddered portfolio may, or may not, correspond with expected future expenditures.
- Regardless of interest rates move, you will be reinvesting at the prevailing market yield.











 Keys for Collateral

 FDIC insurance cover by tax id and type of account

 Collateral is pledged not owned

 Set the margin at 102% to protect from price volatility

 Establish independent custody

 Require independent monthly reporting

 PFCA requires you request the monthly report

# Your Pledged Collateral Policy

### Sample Collateral Policy:

The City requires pledged collateral with a market value of 102% market value of all time and demand deposits above the FDIC limit at all times.

Authorized collateral includes only:

- Obligations of the US Government, its agencies and instruments including mortgage-backed securities,
- Obligations of any US state or subdivision with a rating of A or equivalent,
- Irrevocable letters of credit of a FHLB.

Collateral shall be held by an independent custodian. Monthly reporting is required, preferably provided by the custodian. Substitution must be approved by the City.






























## Specific Additional Investment Authorizations









PFIA Investment Officers' Duties	<ul> <li>Investment officers</li> <li>Must disclose any personal blood/money conflicts</li> <li>Must prepare and sign quarterly reports</li> <li>Must attend to training every 2 fiscal years</li> <li>Must comply with the Policy</li> <li>Must suggest and monitor broker/dealers and certification</li> <li>Must monitor credit ratings</li> <li>Must advise the Council</li> <li>Must do or arrange for an annual compliance review</li> <li>Must provide for documented competitive transactions</li> </ul>







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Cut	e your checkinst for compr	IUI	ICC	
TEXAS PUBLIC FUN	NDS INVESTMENT ACT COMPLIANCE ITEMS FOR LOCAL GOVERNMENTS	2022		
Act Ref.	Compliance Point	Are you	in compliance	2
	Applicability does not apply to solicoment funds, state funds, bishes ad and supports was \$150 million, VID. County society.	Yes	No	N/A
2256 004	Applicability does not apply to retirement runus, state runus, ingre ed endowments over \$150 million, v.b, county registry funds, deferred compensation funds or specially donated funds			
2256.005(a)	Governing body shall adopt a written policy at least annually	<u> </u>	<u> </u>	
2256.005(b)	Investment policy must:			
	-be written			
	- primarily emphasize safety of principal and liquidity			
	- address diversification, yield, maturity			
	<ul> <li>address quality and capability of investment management (the IO's training)</li> </ul>			
2256.005((b)	Investment policy must include:			
	- a list of authorized investments			
2	<ul> <li>maximum allowable stated maturity of any investment (overall or by security type)</li> </ul>			
	<ul> <li>maximum dollar-weighted average maturity authorized - based on stated maturity dates</li> </ul>			
	<ul> <li>method to monitor market price ('independent pricing' required)</li> </ul>			
	<ul> <li>requirement to settle all transaction (except pools/funds) delivery versus payment</li> </ul>			
	- include a procedure to monitor credit rating changes	-		
2256.005(c)	Palicy may provide for CD bids to be solicited orally, in writing, or electronically	<u> </u>		
2256.005(d)	Governing body must adopt a strategy for each portfolio (called poled jund group in Act)			
	Strategy must include a maximum warw for each portrollo (poole juna group)			
	Strategy must describe the objectives and now they will be met in the rollowing priority order:	<u> </u>	<u> </u>	
	<ul> <li>understanding the suitability of the investments to manifold requirements of the entity</li> <li>processorition of priorital</li> </ul>	<u> </u>	++	
	<ul> <li>preservation or principal</li> <li>limitative</li> </ul>	<u> </u>	<u> </u>	
	- marketability of the investment if liquidity needs arise	<u> </u>	+ +	
	- diversification of the portfolio	<u> </u>	<u>├</u>	
	- vield	<u> </u>	<u> </u>	
2256.005(e)	Governing body shall review and adopt by resolution policy and strategies not less than annually	<u> </u>		
	Resolution adopting policy/strategy must show changes made to documents			



























The Rates Say It All				
	Comp Balance	Fee Basis	Fee Basis	
ECR	0.40 %	0.40 %	0.40 %	
Bal. Required	\$ 5,000,000	00	00	
ECR Earnings	\$ 1,667	00	00	
Sweep %	00	1.75 %	1.75 %	
Sweep Amount	00	\$ 5,000,000	\$ 1,500,000	
Sweep Earnings	00	\$ 7,292	\$ 2,188	4
Pool %	2.20 %	2.20 %	2.20 %	
Pool Amount	00	00	\$ 3,500,000	
Pool Earnings	00	00	\$ 6,416	
Net to Bank (fee)	\$ 1,667	\$ 1,667	\$ 1,667	
Net to You	00	\$ 5,625	\$ 8,604	
Net Annual Earnings	00	\$ 67,500	\$ 103,248	
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# Then Add in a Balance Based Fee

	Comp Balance	Fee Basis	Fee Basis
ECR	0.40 %	0.40 %	0.40 %
Bal. Required	\$ 5,000,000	00	00
ECR Earnings	\$ 1,667	00	00
Balance Based fee	\$500	0	0
Sweep %	00	1.75 %	1.75 %
Sweep Amount	00	\$ 5,000,000	\$ 1,500,000
Sweep Earnings	00	\$ 7,292	\$ 2,188
Pool %	2.20 %	2.20 %	2.20 %
Pool Amount	00	00	\$ 3,500,000
Pool Earnings	00	00	\$ 6,416
Net to Bank (fee)	\$ 2,167	\$ 1,667	\$ 1,667
Net to You	00	\$ 5,625	\$ 8,604
Net Annual Earnings	00	\$ 67,500	\$ 103,248
			95

BALANCE INFORMATION				
	\$15,781,757.58 \$47,131.01			
Average Collected Balance Average Negative Collected Balance	\$15,734,626.57 \$0.00			The All-important
Average Positive Collected Balance	\$15,734,626.56			Account Analysis
Positive Collected Balance Less Legal Reserve Investable Balance for Earnings Allowance	\$15,734,626.56 \$1,573,462.66 \$14,161,163.90			Your invoice for service
EARNINGS ALLOWANCE INFORMATI	ON			
Exmings Allowance on Positive Balance Expenses on Negative Collected Balance Net Earnings Allowance ACCOLINE POSITION	Average Balances \$14,161,163.90 \$0.00	Rate 0.3400% 3.2500%	Amount \$4,078.13 \$0.00 \$4,078.13	City earned \$4,078 but needed only \$ 2,569
Recountrosmon	Q. 10			Left \$1 509 behind
Less Price of Services Used Equalization Factor			\$2,569.42 \$0.00	
Amouni Live			30.00	You can use ' <u>carry-over</u> ' to cure this – it's in your RFP



		-1		
CURRENT MONTH'S EARNINGS CREDIT RATE	= 0.35%	CURRENT MONTH'S	MULTIPLE = \$3,476	. 19
	NUMBER OF	UNIT	SERVICE	BALANCE
SERVICE	UNITS	PRICE	LHARGE	REQUIRED
BALANCE DELATED CEDUTCES				
FDIC ASSESSMENT	531,494		57.70	200,576.19
DEPOSITORY SERVICES		1 1		
ACCOUNT MAINTENANCE	. 6	7.0000	42.00	146,000.00
VAULT DEPOSIT	178	. 2500	44.50	154,690.47
ITEM PROCESSING DEPOSIT	3	.2500	12 00	2,607.14
CENEDAL CHECKS DATE TRINCATED	172	0700	12.04	41,853,33
DIRECT DDA STMT PER ACCT	10	.0000	.00	0.00
ZBA MASTER ACCOUNT MAINT	1	.0000	.00	0.00
ZBA SUBSIDIARY ACCOUNT MAINT	2	10.0000	20.00	69,523.81
RETURNS-CHARGEBACK	14	1.0000	14.00	48,666.66
RETURNS-RECLEAR	22	1.0000	22.00	/0,4/0.19
CKS DED IN-ENCODED TTEMS	1.047	.0700	73.29	254,770.00
STOP PAY AUTOMATED<=12 MONTHS	1	3.0000	3.00	10,428.57
DEBITS POSTED-ELECTRONIC	79	.0500	3.95	13,730.95
CREDITS POSTED-ELECTRONIC	330	.0500	16.50	57,357.15
DEPOSIT ACCOUNT STATEMENTS	7	.0000	.00	0.00
GEN DISB CKS PD-IS FRONT ING	50	1 0000	44.00	152,952,38
TPD DEPOSITED TTEMS-POSO		.0867	.78	2,711.43
IMAGE DEPOSITED ITEMS-RDSO	9,704	.0450	436.68	1,517,982.85
DIRECT ACCOUNT TRANSFER	5	.0000	.00	0.00
COMMERCIAL DEPS-CASH VAULT				
CURR/COIN DEP/\$100-VLT	2,366	.0500	118.30	411,233.34
COIN DEPOSIT-NON STD BAG-VLT	2	5.0000	10.00	34,761.91
DEPOSIT CORRECTION-CASH	1	3.0000	3.00	10,428.57
MALE NOTIFICATION-DON-VET	-	.0000		0.00
GENERAL ACH SERVICES		1 0000	7.00	26 777 77
ACH OPTIONAL RPTS-ELECTRONIC	7	1.0000	37.00	24,555.55
ACH RECLEARS	31	1.0000	31.00	107,761.90
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### Technology's Risks

Employee controls

Pin numbers and separation
Limited access to applications
Stand alone computer access

PCI control

Bank fraud controls Filters/blocks on ACH Payee positive pay



## Safekeeping and Custody Risk

#### Custody Risk

- Accompanied by high fiduciary responsibility
- Custody of pledged securities
- Risk to proof of the pledge
- Risk to control of the pledge

### Safekeeping Risk

- Lower fiduciary responsibility
- Safekeeping of securities you own
- Risk to your proof of ownership
   Proving your ownership





Sample Safekeeping Fees				
Account maintenance		\$10.00/month/acco	sunt i	
Safekeening Online		\$50.00/month - 3	services	
(Safekeeping Docs, Messenger, Safekeeping Extract)		\$10.00/month - ba	asic service	
Per Item Charges	and the second s			
Fixed income book entry per receipt		\$0.60		
Equity book entry per receipt		\$1.50		
Physical per receipt		\$2.00		
Book entry per \$10,000 at par at month-end		\$0.01/month		
Physical entry per \$10,000 of par at month-end		\$0.10/month		
Receipt Fees				
Security receipt and clearance fees	On-us	Transactions	Not On-US Transactions	
FRB non-ABS/MBS		-	<u></u> ≱∠∪.00	
FRB ABS/MBS		-	\$25.00	
Non-FRB, non-ABS/MBS		-	\$30.00	
Non-FRB, ABS/MBS		-	\$35.00	
Physical items		-	\$75.00	
ate delivery instructions		-	\$25.00	
Change delivery instructions		- \$25.00		
Transactional Fees				
Interest payment – credit to account		\$1.00		
Principal payment – credit to account		\$8.00		
Called bond redemptions – credit to account		\$10.00		
Maturities – credit to account		\$10.00		
Wire fee		\$11.00		
Cashiaría shask		¢10.00		















































	Accuracy
	Timeliness
Keys in	Compliance
Investment Reporting	Risk Identification
	Pricing and Value Representation
	Information at multiple levels
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#### Two types of securities

Discount securities Fixed income securities (with a coupon)

#### Two values

Market value = price of you sell it Book value = your value net of amortization Each change daily

#### Three computations

Interest accrual (coupons) Accretion (from a discount is earnings) Amortization (from a premium is an expense)

## Accounting and Reporting

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Market Yields Change –	<ul> <li>Bonds are issued or auctioned at price of 100</li> <li>Bonds have a coupon "fixed" for life at issuance</li> </ul>
Your Purchase Yield Does Not	<ul> <li>As markets change the market yield moves</li> <li>That move shows your unrealized gain/loss</li> <li>The rates reflect the market yield</li> <li>yields are going up now what did that do to your portfolio? To your securities?</li> </ul>
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<u>Weighting</u> Informa	ation is k	Key
To make stats into information	Book Value	Days Remaining
	50,000	70
	1,000,000	14
Different positions are	250,000	360
weighted by book value	3,000,000	1
	500,000	400
Weighting recognizes impact of	2,500,000	180
• size of position	2,000,000	80
<ul> <li>different maturities</li> </ul>	Weighted Avg	99 days
<ul> <li>different yields</li> </ul>		

Weight Multiply book value by	ed Average	Maturity
Book Value	Days Remaining	Book x Days
50,000	70	3,500,000
1,000,000	14	14,000,000
250,000	360	90,000,000
3,000,000	1	3,000,000
500,000	400	200,000,000
2,500,000	180	450,000,000
<u>2,000,000</u>	<u>80</u>	<u>160,000,000</u>
9,300,000		920,500,000
	=920,500,000/9,300,000	
Weighted Avg	99 days	
		161

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Weighted Av	verage Yield	t
Multiply	book value by purchase y	ield
Book Value	Purchase Yield	Book x Yield
6,568,777	0.70%	45,981
3,211,222	1.40%	44,957
5,999,158	0.99%	59,392
1,425,654	1.25%	17,821
12,513,588	2.50%	312,840
2,000,000	1.50%	30,000
1,598523	0.90%	14,387
Weighted Avg Yield	1.58%	
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# Specific PFIA Report Requirements

#### **Compliance statement and signatures**

• Reports prepared in compliance with the PFIA and Investment Policy.

Every Investment Officer is to sign report

#### Detail

- Each investment position (including bank accounts) with maturity date
- Book and market values of each position at end of period
- Portfolio/fund investment belongs to

#### Summary

- Beginning and ending book and market value of portfolio
- Earnings for the period (accrued + accretion amortization)
- Market sector summaries



[	Deta	ailin	g a	Pos	itior	٦			
Purchase Date	Security Type	Par	Coupon	Yield	Maturity Date	Call Date	Book Value	Market Value	Gain or <loss></loss>
xx/xx/xx	T-Note	500,000	0.50 %	0.45 %	xx/xx/xx	-	501,123	502,100	977
xx/xx/xx	CD-Frost	245,000	0.60 %	0.60 %	xx/xx/xx	-	245,000	245,000	00
xx/xx/xx	T-Bill	750,000	0.00 %	0.35 %	xx/xx/xx	-	723,500	720,000	<3,500>
xx/xx/xx	FNMA	750,000	0.75 %	0.90 %	xx/xx/xx	xx/xx/xx	743,200	755,100	11,900
		2,245,000		0.58 %			2,212,823	2,222,200	9,377
	Fror	n this info	ormation	you can o	calculate	the WAM	and WAY	,	
									168

Purchase Date	Security	Coupon	Maturity Date	Yield	Par Value	Beginning Book	Beginning Market	Ending Book	Ending Market
xx/xx/xx	T-Bill		xx/xx/xx	1.00 %	500,000	490,000	480,000	492,000	488,000
xx/xx/xx	T-Note	1.50 %	xx/xx/xx	1.45 %	500,000			501,000	505,000
xx/xx/xx	T-Note	0.90 %	xx/xx/xx	1.00 %	500,000	499,999	500,000		
	Subtotal				1,500,000	989,999	980,000	993,000	993,000
xx/xx/xx	FNDN		xx/xx/xx	1.15 %	650,000	640,000	643,000	642,000	643,000
xx/xx/xx	FHLB	1.25 %	xx/xx/xx	1.25 %	500,000	500,000	500,000	500,000	501,000
	Subtotal				1,150,000	1,140,000	1,143,000	1,142,000	1,144,000
xx/xx/xx	CD - Bank A	1.20 %	xx/xx/xx	1.20 %	750,000	750,000	750,000	750,000	750,000
xx/xx/xx	CD – Bank B	1.15 %	xx/xx/xx	1.15 %	500,000	500,000	500,000	500,000	500,000
	Subtotal				1,250,000	1,250,000	1,250,000	1,250,000	1,250,000
xx/xx/xx	TexPool	0.20 %	хх/хх/хх	0.20 %	1,234,567	1,234,567	1,234,567	1,444,567	1,444,567
xx/xx/xx	Logic	0.20 %	xx/xx/xx	0.20 %	1,765,432	1,765,432	1,765,432		
	Subtotal				3,199,999	3,199,999	3,199,999	1,444,567,	1,444,567
xx/xx/xx	Int. Bearing	0.15 %	xx/xx/xx	0.15 %	450,000	450,000	450,000	410,111	410,111
xx/xx/xx	Comp Balance	0.50 %	xx/xx/xx	0.50 %	2,121,111	2,121,111	2,121,111	2,121,111	2,121,111
	Subtotal				2,571,111	2,571,111	2,571,111	2,531,222	2,531,222
TOTAL				<u>0.74 %</u>		8,951,109	<u>8,944,110</u>	7,360,789	7,362,789































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DETAILED ACCOUNT	OVERVIEW				
Account Title: Samol	a School District				
	o beneve bistinet				
Account Summary -	Savings				
Statement Period		1/1-1/31/2021	Average Daily Ba	lance	\$4,726,371,48
Previous Period Ending	g Balance	\$4,726,287.32	Interest Rate at	End of Statement Period	0.15%
Total Program Deposit	5	74,33	Statement Peric	d Yield	0,15%
Total Program Withdra	wats	(0.00)	YTD Interest Pai	d	602,04
Interest Capitalized		602.04	YTD Taxes Withit	veld	0.00
Taxes Withheld		(0,00)			
Current Period Ending	Balance	\$4,726,963,69			
Account Transaction De	etail			100	
Date	Activity Typ	e		Amount	Balance
01/05/2021	Deposit			\$74.33	\$4,726,361,65
01/29/2021	Interest Cap	sitalization		602.04	4,726,963.69
Summary of Balances	as of Jacuary 31 20	121			
FDIC-Insured Institution	as of Million y ou. 20	City/St	ate	FDIC Cert No.	Balance
Innerst Savings Bank		Tutsa, /	OK	**010	248.373.72
First Eagleville Bank		Syracu	se, NY	**011	248.381.64
Lockland Bank		San De	ego, CA	**012	248.378.59
Southstreet Community Ba	ank	Boston	, MA	**013	248,381,64
Winchester County Bank		Pasade	ina, CA	**014	248,381,64
Southeast Regional Bank		Atlanta	, GA	**015	248,381.64
Loring Savings Bank		Lansin	E PA	**016	248,366,78
Calera Bank		Clarks	ville, TN	**017	7,745,56
Dest Addison Deals		Uniond	iale, MT	**018	248,381.64
Port Addison Bank			TH	**010	249 291 64
Alpine National Bank and	Trust	Dallas,	1A	019	240,301,04













### Two Types of Money Market Mutual Funds

#### Know and define what you authorize:

MMMF which strive to maintain a \$1 NAV (net asset value – share price)

- Treasury funds only invest in US Treasuries
- Government funds invest in US treasuries and agencies
- Enhanced government (prime) also invest in commercial paper

#### Short Duration Money Market Funds

- These are *mutual funds* not built for liquidity
- The share value will fluctuate with market rates
- These represent considerable risk
- Also known as short duration money market funds

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Ultra Short Term Bond Funds What Role Could/Should They Play?	<ul> <li>No bond proceeds allowed in these</li> <li>These are NOT money market funds as you know them <ul> <li>They are mutual funds (volatility)</li> <li>They are not built for liquidity</li> </ul> </li> <li>PFIA requirements <ul> <li>With a WAM of <u>1 year or more invested in only Act authorized investments, or</u></li> <li>With a WAM of <u>1 year or less and limited to investment grade securities</u></li> <li>Must exclude asset-backed securities</li> </ul> </li> <li>You can lose principal dependent on:</li> </ul>
	<ul> <li>You can lose principal dependent on:</li> <li>Credit quality</li> <li>Maturity dates</li> <li>Sensitivity to rates</li> </ul>
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			e Print
TEXPOOL			
Our / w Profession Characteristics	Designed		
- Overview Performance Characteristics	Documents		
Performance			🖶 Print Section
DAILY PERFORMANCE			
AS OF 02-01-2024 View Historical Daily Perf	ormance		
Daily Net Yield	5.3322%	NAV	\$1.00000
Dividend Factor	0.000146089	Daily Assets	\$36,671,069,323.27
7 Day Net Yield	5.35%		
MONTHLY AVERAGE PERFORMANCE			
AS OF 01-31-2024 View Historical Monthly A	werage Performance		
Average Daily Net Yield	5.3455%	Average WAM	35 Days
Average Dividend Factor	0.000146451	Average WAL	88 Days

			e Print
TEXPOOL			
Overview Performance Characteristics Documents			
ASSETS		PORTFOLIO PROFILE	
MONTHLY as of 01-31-2024 DAILY		MONTHLY as of 01-31-2024	
Portfolio \$35,746,685,549 Portfolio \$36,67	1,069,323	Weighted Average Maturity	30 Days
		Weighted Average Life	85 Days
		DAILY	
PORTFOLIO COMPOSITION		Weighted Average Maturity	30 Dave
MONTHLY as of 12-31-2023		Weighted Average Life	81 Days
Τ	24.0		
Agencies	30.0		
Renurchase Agreements	25.3		
Money Market Funds	7.3	LIQUIDITY	View 6-Month History
Other	0.0		
Total % of Portfolio:	100.0	Daily	62.77%
		Weekly	74.49%

Can You us	o th	ic	"F	2ററി″	2 V	Vh	at i	c it	2	
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These are brokered	CDs bo	uał	nt and	d held by a	a brok	er/po	ol			
These are proteited	000 00	ugi	it and	a neia by t		enpo	<b>.</b>			
Your policy should a	uthoriz	e b	roke	red CDs if	used					
							-			
Bid#: Date: 07/30/2012 12:	40PM				and the second second					
Bank Name(City.State.FDIC#)	Principal Amount	# of Days	Gross Rate	Net Settlement	Maturity	Advisory Fee(\$)	Advisory Fee(Bps)	Gross Int.@mat.	Gross Maturity Value	Status
Bank Of East Asia Ltd. , (The), New York, NY-	\$248,000.00	182	0.600%	0.450% 07/30/2012	01/28/2013	\$185.49	0.15%	\$741.96	\$248,741.96	
(33646) Bank Of The Ozarks, Little Rock, AR- (110)	\$248,000.00	182	0.450%	0.300% 07/30/2012	01/28/2013	\$185.49	0.15%	\$556.47	\$248,556.47	1232
Onewest Bank, Fsb, Pasadena, CA- (58978)	\$248,000.00	182	0.450%	0.300% 07/30/2012	01/28/2013	\$185.49	0.15%	\$556.47	\$248,556.47	
Bank Of The West, San Francisco, CA- (3514)	\$248,000.00	182	0.450%	0.300% 07/30/2012	01/28/2013	\$185.49	0.15%	\$556.47	\$248,556.47	
Bank Of China, New York, NY- (33653)	\$248,000.00	182	0.450%	0.300% 07/30/2012	01/28/2013	\$185.49	0.15%	\$556.47	\$248,556.47	
Privatebank & Trust Co. (The) (Acqd Privatebank, Bloomfield Hills, Mi), Chicago,IL- (22206)	\$248,000.00	182	0.400%	0.250% 07/30/2012	01/28/2013	\$185.49	0.15%	\$494.64	\$248,494.64	
Sterling National Bank, New York,NY- (7220)	\$248,000.00	182	0.380%	0.230% 07/30/2012	01/28/2013	\$185.49	0.15%	\$469.91	\$248,469.91	
Israel Discount Bank Of New York, New York, NY-	\$248,000.00	182	0.350%	0.200% 07/30/2012	01/28/2013	\$185.49	0.15%	\$432.81	\$248,432.81	
(19977) Merchants Bank Of Indiana, Lynn, IN- (8056)	\$248,000.00	182	0.350%	0.200% 07/30/2012	01/28/2013	\$185.49	0.15%	\$432.81	\$248,432.81	
TOTAL S.	\$2,232,000,00					\$1,669,41		\$4,798.01	\$2,236,798.01	
Gross Weighted Avg.Rate(182 Days) 0.43 Net Weighted Avg.Rate(182 Days) 0.28	% %					• •				
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## Spread Analysis



Spread means difference

 Difference in rates between securities or whole market sectors

### Spreads are dynamic

• Anticipated spreads on credit

- Current spreads
- Historical spreads
- Volume spreads

Spread analysis basically means comparing rates

You must check the rates at that maturity in various sectors – everytime!














### Choosing Investments





US Treasuries US Agencies Commercial Paper Bankers Acceptances Repurchase Agreements Investment Pools Certificates of Deposit Brokered CD Securities **Money Market Funds** Mutual Funds GICs State of Israel bonds **Municipal Obligations** Corporate bonds (limited ISDs)

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## Authorized PFIA Securities



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LDAF	rs N	lont	hly I	Report		
Best Deale B 123 Main Str Anytown, US	ank eet 12345		000000	BestI Ban	Deale	
SAMPLE CITY 456 Main St Anytown, US	eet 56789			Contact Us 1-565-123-4567 contact@bestdealebank.com Account SAMPLE CITY Date 01/29/2021 Page 1 of 4	Jan Stranger	
CDARS® Custom	er Statement					
The following inform of the date indicate	nation is a summary o d. These deposits hav	f activity in your CD ac e been placed by us, a	count(s) and the list of as your agent and custo	FDIC-insured institution(s) that ho idian, in deposit accounts through	ld your deposits as CDARS	
Custom text may be	e added here.					
Summary of Ac	counts					
Account ID	Effective Date	Maturity Date	Interest Rate	Opening Balance	Ending Balance	
	08/20/2020	02/18/2021	0.25%	\$5 270 609 65	\$5 271 728 75	

	Monthl	v De	tail	
	Monthl	V De	tail	
DARS	Monthl	V De	tail	
JAKS I	vionthi	$V \square P$	тан	
		y DC	cun	
DETAILED ACCOUNT OVERV	IEW			
Account ID: ******234	•			
Account Title: SAMPLE CITY				
Account Summary - CD				
Product Term	26 Week Public Fund 365 (0)	Effective Date		08/20/2020
Interest Pate	0.25%	Maturity Date		02/18/2021
Account Ralance	\$5 071 709 75	Maturity Date		02/10/2021
Account balance		VIII I INTERNET LODIEL		\$1 110 10
Annual Percentage field	0.25%	Interest Earned Since	Last Statement	\$1,119.10 1,119.10
Annual Percentage Tield	0.25%	Interest Earned Since	Last Statement	\$1,119.10 1,119.10
CD Issued by	0.25%	Interest Faind	e Last Statement	\$1.119.10 1.119.10
CD Issued by America West Regional Unite	0.25% d Savings Bank FDIC Cert. **001 552.28	10 Interest Famed Since	e Last Statement	\$1.119.10 1.119.10 \$246.225.87
CD Issued by America West Regional Unite YTD Interest Paid Int Earned Since Last Statement	0.25% d Savings Bank FDIC Cert. **001 \$52.28 552.28	01/01/2021 Ope 01/29/2021 Inte	e Last Statement ning Balance rest Payment.	\$1.119.10 1.119.10 \$246.225.87 52.28
CD Issued by America West Regional Unite 'YTD Interest Paid Int Earned Since Last Statement	0.25% 0.25% d Savings Bank FDIC Cert. **001 \$52.28 52.28	01/01/2021 Ope 01/29/2021 Inter 01/29/2021 Inter	e Last Statement ning Balance rest Payment ing Balance	\$1.119.10 1,119.10 \$246,225.87 52.28 246,278.15
CD Issued by America West Regional Unite YTD Interest Paid Int Earned Since Last Statement	0.25% 0.25% d Savings Bank FDIC Cert. **001 \$52.28 52.28	Oliverest Paid           Interest Earned Since           01/01/2021         Ope           01/29/2021         Interest Earned Since	e Last Statement ning Balance rest Payment ing Balance	\$1.119.10 1,119.10 \$246,225.87 52.28 246,278.15
Annual Percentage Tield CD Issued by America West Regional Unite 'TD Interest Paid 'Int Earned Since Last Statement Bank of Hudsonville FDIC Cert	0.25% 0.25% d Savings Bank FDIC Cert. **001 \$52.28 : 52.28 :**002	Old         Old <td>e Last Statement ning Balance rest Payment ing Balance</td> <td>\$1.119.10 1,119.10 \$246,225.87 52.28 246,278.15</td>	e Last Statement ning Balance rest Payment ing Balance	\$1.119.10 1,119.10 \$246,225.87 52.28 246,278.15
CD Issued by Amnual Vercenzage Heid CD Issued by America West Regional Unite YTO Interest Paid Int Earned Since Last Statemen Bank of Hudsonville FDIC Cer YTD Interest Paid	d Savings Bank FDIC Cert **001 \$52.28 **002 \$18.73	01/01/2021         Ope           01/29/2021         Interest Earned Sinci           01/29/2021         Interest           01/29/2021         Interest           01/29/2021         Interest           01/2021         Ope           01/2021         Interest	e Last Statement ning Balance rest Payment ing Balance ning Balance	\$1.119.10 1.119.10 \$246.225.87 52.28 246.278.15 \$88,230.29 \$88,230.29
Annual vercentage read	d Savings Bank FDIC Cert. **001 \$52.28 **002 \$18.73 18.73	Old         Old <td>e Last Statement ning Balance rest Poyment ing Balance rest Poyment rest Poyment rest Poyment rest Poyment</td> <td>\$1.119.10 1.119.10 \$246.225.87 52.28 246.278.15 \$98.230.29 1.873 \$98.230.29 1.873 \$98.249.02</td>	e Last Statement ning Balance rest Poyment ing Balance rest Poyment rest Poyment rest Poyment rest Poyment	\$1.119.10 1.119.10 \$246.225.87 52.28 246.278.15 \$98.230.29 1.873 \$98.230.29 1.873 \$98.249.02
CD Issued by America West Regional Unite 'YTD Interest Red Int Earned Since Last Statement Bank of Hudsonville FDIC Cer YTD Interest Paid Int Earned Since Last Statement	d Savings Bank FDIC Cert *1001 \$52.28 \$52.28 \$52.8\$ \$52.8\$ \$53.8	Oliverest Paid           Interest Earned Sinci           01/01/2021         Ope           01/29/2021         Inter           01/01/2021         Ope           01/29/2021         Inter           01/29/2021         Inter           01/29/2021         Inter           01/29/2021         Inter           01/29/2021         Inter	e Last Statement ning Balance rest Payment ing Balance rest Payment ing Balance rest Payment ing Balance	\$1.119.10 1.119.10 \$246,225.87 52.28 246,278.15 \$48,230.79 \$48,230.79 \$48,240.02
CD Issued by America West Regional Unite YID Interest Paid Int Earned Since Last Statement Bank of Hudsonville FDIC Cer YID Interest Paid Int Earned Since Last Statement Bear County Community Ban	d Savings Bank FDIC Cert. **001 \$52.28 **002 \$18.73 \$510 Cert. **003	Old         Old <td>e Last Statement</td> <td>\$1.119.10 1.119.10 \$246.225.87 52.28 246.278.15 \$88.230.29 18.73 88.249.02</td>	e Last Statement	\$1.119.10 1.119.10 \$246.225.87 52.28 246.278.15 \$88.230.29 18.73 88.249.02
Annual vercentage read CD Issued by America West Regional Unite 'TD Interest Paid Int Earned Since Last Statement Bank of Hudsonville FDIC Cer 'TD Interest Paid Int Earned Since Last Statement Bear County Community Ban 'TD Interest Paid	d Savings Bank FDIC Cert **001 \$52.28	110 interest Paid           interest Eamed Since           01/01/2021           01/02/2021           01/01/2021           01/01/2021           01/02/2021           01/29/2021           01/29/2021           01/29/2021           01/29/2021           01/29/2021           01/29/2021           01/29/2021           01/29/2021           01/29/2021           01/29/2021           01/29/2021           01/2021           01/2021           01/2021           01/2021           01/2021           01/2021           01/2021           01/2021           01/01/2021           01/01/2021           01/01/2021           01/01/2021           01/01/2021           01/01/2021	e Last Statement	\$1.119.10 1.119.10 \$246,225.87 52.28 246,278.15 \$88,249.02 \$88,249.02 \$242,108.29
Annual vercentage read CD Issued by America West Regional Unite YTD Interest Paid Int Earned Since Last Statement Bank of Hudsonville FDIC Cer YTD Interest Paid Int Earned Since Last Statement Bear County Community Ban YTD Interest Paid Int Earned Since Last Statement	d Savings Bank FDIC Cert **001 \$52.28 **002 \$18.73 FDIC Cert **003 \$51.42 \$51.42 \$51.42	110 interest Paid interest Earned Since 01/01/2021 Opp 01/29/2021 End 01/01/2021 End 01/01/2021 End 01/01/2021 End 01/02/2021 End	e Last Statement	\$1.119.10 1.119.10 \$246.225.87 52.28 246.278.15 \$88.230.29 18.73 88.249.02 \$242,168.29 51.42
Annual vercentage Heid CD Issued by America West Regional Unite 'YTD Interest Paid Int Earned Since Last Statement Bank of Hudsonville FDIC Cer 'YTD Interest Paid Int Earned Since Last Statement Bear County Community Ban 'YTD Interest Paid Int Earned Since Last Statement	d Savings Bank         FDIC Cert         *:001           d Savings Bank         FDIC Cert         *:001           5228         5228           t         5228           t         18.73           c         FDIC Cert         *:003           55142         51.42	110 interest Paul           interest Earned Since           01/01/2021 Ope           01/20/2021 Ope           01/20/2021 End           01/20/2021 End           01/20/2021 End           01/20/2021 End           01/01/2021 Ope           01/20/2021 End           01/01/2021 Ope           01/02/2021 End           01/01/2021 Ope           01/20/2021 End	e Last Statement	\$1.119.10 1.119.10 \$246,225.87 52.28 246,278.15 \$88,280.79 \$88,249.02 \$242,168.29 5242,168.29 5142,219.71
Annual Percentage Heid CD Issued by America West Regional Unite YTD Interest Paid Int Earned Since Last Statement Int Earned Since Last Statement PTD Interest Paid Int Earned Since Last Statement Int Earned Since Last Statement	d Savings Bank FDIC Cert **001 \$52.28 **002 \$18.73 C FDIC Cert **003 \$51.42 \$51.42	110 interest Paid           interest Earned Since           01/01/2021           01/01/2021           01/01/2021           01/01/2021           01/01/2021           01/01/2021           01/01/2021           01/01/2021           01/01/2021           01/01/2021           01/01/2021           01/01/2021           01/20/2021      <	e Last Statement	\$1.119.10 1.119.10 \$246.225.87 52.28 246.278.15 \$88.230.29 18.73 88.249.02 \$242.168.29 \$242.168.29 242.219.71
Annual vercentage read CD Issued by America West Regional Unite 'TD Interest Paid Int Earned Since Last Statement Bank of Hudsonville FDIC Cert 'TD Interest Paid Int Earned Since Last Statement Bear County Community Bani 'ITD Interest Paid Int Earned Since Last Statement Calera Bank, FDIC Cert **000	d Savings Bank         FDIC Cent **001           4 Savings Bank         FDIC Cent **002           1         52.28           1         52.28           1         52.28           1         52.28           1         52.28           1         52.28           1         52.28           52.28         52.28           1         52.28           52.28         52.28           52.28         52.28           52.28         52.28           52.28         52.28           51.42         51.42	110 interest Paral           interest Earned Since           01/01/2021 Ope           01/20/2021 Ope           01/20/2021 End           01/01/2021 Ope           01/20/2021 End           01/01/2021 Ope           01/20/2021 End           01/01/2021 Ope           01/01/2021 Ope           01/01/2021 Ope           01/01/2021 Ope           01/01/2021 Ope           01/20/2021 End           01/20/2021 Ope	e Last Statement	\$1.119.10 1.119.10 \$246,225.87 52.28 246,278.15 \$98,230.79 \$88,249.02 \$88,249.02 \$242,168.29 51.42 \$242,219.71 242,219.71
Annual Percentage Heid CD Issued by America West Regional Unite 'TD Interest Paid Int Earned Since Last Statement Bank of Hudsonville FDIC Cert 'TD Interest Paid Int Earned Since Last Statement Bear County Community Ban 'TD Interest Paid	d Savings Bank FDIC Cert **001 \$52 28 **002 \$18.73 \$51.42 \$51.42 \$52.28	110 interest Paid           interest Earned Since           01/01/2021 Ope           01/29/2021 End           01/01/2021 Ope	e Last Statement	\$1.119.10 1.119.10 \$246.225.87 52.28 246.278.15 \$88.230.29 1.873 88.249.02 \$242.168.29 \$242.219.71 \$244.219.71 \$246.255.87 \$25.77
Annual vercentage read CD Issued by America West Regional Unite 'TD Interest Paid Int Earned Since Last Statement Bank of Hudsonville FDIC Cert 'TD Interest Paid Int Earned Since Last Statement Bear County Community Ban 'TD Interest Paid Int Earned Since Last Statement Calera Bank FDIC Cert **004 'TD Interest Paid Int Earned Since Last Statement Last Bank FDIC Cert **004 'TD Interest Paid	d Savings Bank FDIC Cert **001 5228 ± 5228 ± 5288 ± 5288 ± 5288 ± 5288 ± 5288 ± 5288 ± 5288 ± 5288	110 interest Paul           interest Famel Since           01/01/2021 Ope           01/20/2021 Ope           01/20/2021 End           01/01/2021 Ope           01/20/2021 End           01/01/2021 Ope           01/20/2021 End           01/01/2021 Ope           01/01/2021 Ope           01/01/2021 Ope           01/01/2021 Ope           01/01/2021 Ope           01/02/2021 End           01/01/2021 Ope           01/02/2021 End           01/02/2021 Ope           01/02/2021 Inte	e Last Statement	\$1.119.10 1.119.10 \$246,225.87 52.28 246,278.15 \$88,280.02 \$88,240.02 \$242,168.29 51.42 2422,197.11 \$246,225.87 52.42 242,219.71 \$246,225.87 52.42 242,219.71





















# Sometimes Mostly Premium Bonds

Simply put you might have too – rates have risen

If coupons are set by current yields

When rates have been high – coupons will be high

When rates have been low – coupons will be low





	Description		Settlement
Market Sector	T-Note	Par	1,000,000.00
Maturity Date	11/30/xx	Discount	5,000.00
CUSIP	912828TT3	Principal	995,000.00
Price	@ 99.5	Accrued Interest	138.88
Call?	Non-call	Net Settlement	995,138.88
Trade Date	12/10/xx		
Settlement Date	12/11/xx		



























Floating-Rate	<ul> <li>"Floaters" reset rates periodically</li> <li>Treasuries and agencies issue floaters</li> <li>Tied to an Index (like T-Bill auction)</li> <li>Often priced on a specific spread</li> <li>Advantages</li> <li>Good when rates are increasing</li> <li>You get paid for the risk you are taking</li> </ul>	
Notes	<ul> <li>Disadvantages</li> <li>Bad when rates are dropping</li> <li>Consider: <ul> <li>Reset Periods</li> <li>Day Count Periods</li> <li>Payment Periods</li> <li>Maturity</li> <li>Valuation</li> </ul> </li> </ul>	258





















	<ul> <li>GIC</li> <li>Guaranteed Investment Contracts</li> <li>Basically insurance contracts</li> <li>Sold on a GIC platform and carries a hefty fee by brokers</li> </ul>
	<ul> <li>Specialized funds [IRS Code Sec 501(f)]</li> <li>Like a national investment pool for institutions of higher education</li> </ul>
Limited-Use Securities in the Act	<ul> <li>Municipal Utilities Hedging Contracts</li> <li>Distributors of electricity or natural gas only</li> <li>Hedging contracts traded on unique exchange under CFTC</li> </ul>
	<ul> <li>City Mineral Rights Funds</li> <li>Funds received for mineral rights (primarily oil and gas)</li> <li>Directed for reserves and open for investment under the <i>Trust Code</i></li> </ul>
	269

C C	
Need:	\$500,000 payroll out 9 months
Choices:	Treasuries, CD, Agency, Pool
Curve:	Stable and normal upward slope No big news or change anticipated
Yields:	
CD	4.70 %
T-Bill	5.40 %
FNMA DN	5.45 %
Pool	5.45 %
<ul><li>T-Bill</li><li>FNMA DN</li><li>Pool</li></ul>	5.40 % 5.45 % 5.45 %















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	ue Be	eauty	/ 01	YIEL	J	
•Yie	ld is the <u>commo</u> With yield we o	on denomina can compare	<u>tor</u> of all s <u>any</u> secur	ecurities ities		
•Usi	e the yield to de Yield captures : <u>Never look at t</u> r offers:	the effect of <u>he coupon</u> –	nignest re coupons a it is affect	eturn and price ed by price		
■Ou	offers.				NG 11	
■Ou	i onero.	Maturity	Price	Coupon	Yield	















# Selecting a Broker

- Determined by portfolio needs and types of securities
- Institutional versus retail
- Institutional will rarely be local
- Primary versus secondary
- Banks are used only for CDs (they may have a brokerage)
- How many brokers do you need for competition?
- •What is my initial due diligence?

### NEVER use broker safekeeping

move securities to your bank safekeeping/custodian






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Chec	k Brokers on FINRA finra.org
$\begin{array}{c c} \hline {\bf 6} & {\bf 6} \\ \hline {\bf 6}$	ore - Indiaci 1899Bgmal.c: X   🕎 20 Best Summer Salads   The   X   Calendars - About ESC 20 - E: X   G Images for thanks - Google S: X 😵 BrokerCheck - Find a broker, I X + ( (@) 🖄 🔆 💹 🖈 🔘 :
	FEEDEMAX   & BrokerCheck Help Line (800) 289-9999   # FINRA Home
	BrokerCheck
	INDIVIDUAL     Important     By clicking the SEARCH button or otherwise using BrokerCheck, I agree to BrokerCheck Terms of Use
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	BrokerCheck is a free tool to research the background and experience of financial brokers, advisers and firms.
	Why Use BrokerCheck?
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## Your job as an investment officer

Meet known asset/liability requirements.
Prepare for unexpected liabilities with buffer.
Balance yield with liquidity and flexibility.
Read major market trends for applicability.
Read the curve and markets for rate direction.
Enhance yield.

Protect principalHave a strategy and act on it.

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REMEMBER INVESTING IS RISK MANAGEMENT!
MANAGE THE RISKS AND GET STARTED.
LINDA PATTERSON
MEEDER INVESTMENT
LPATTERSON@MEEDERINVESTMENT.COM
512-230-1336
512-415-0945
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