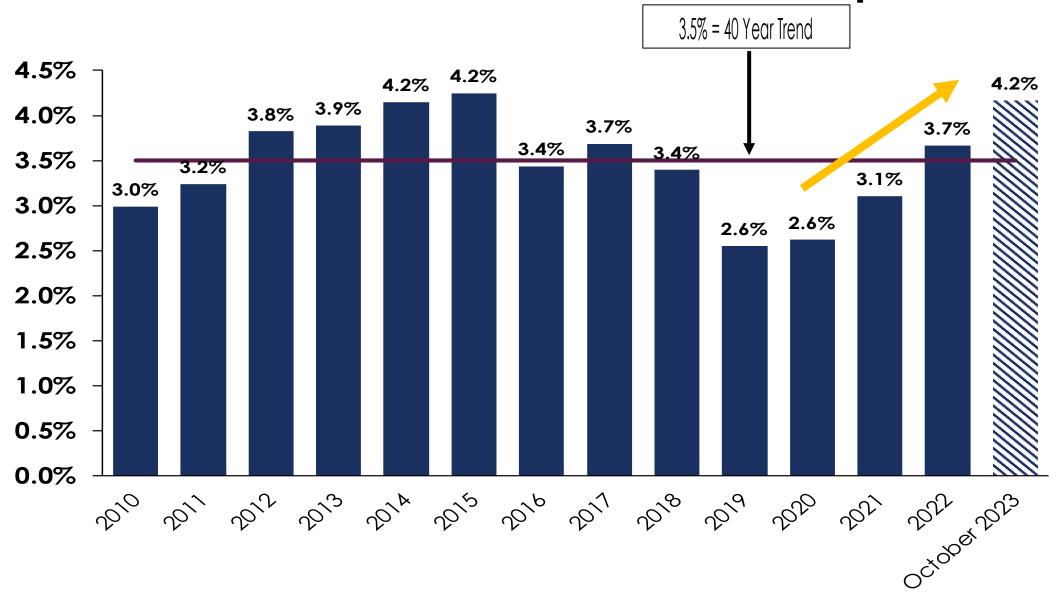


Economic and Credit Union Update

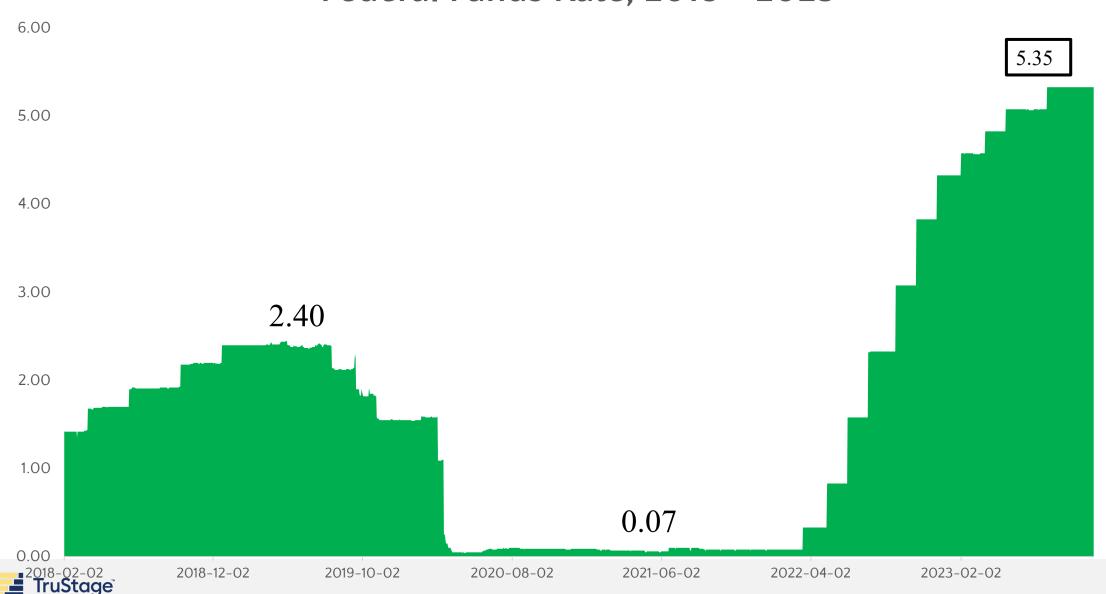
March 2024

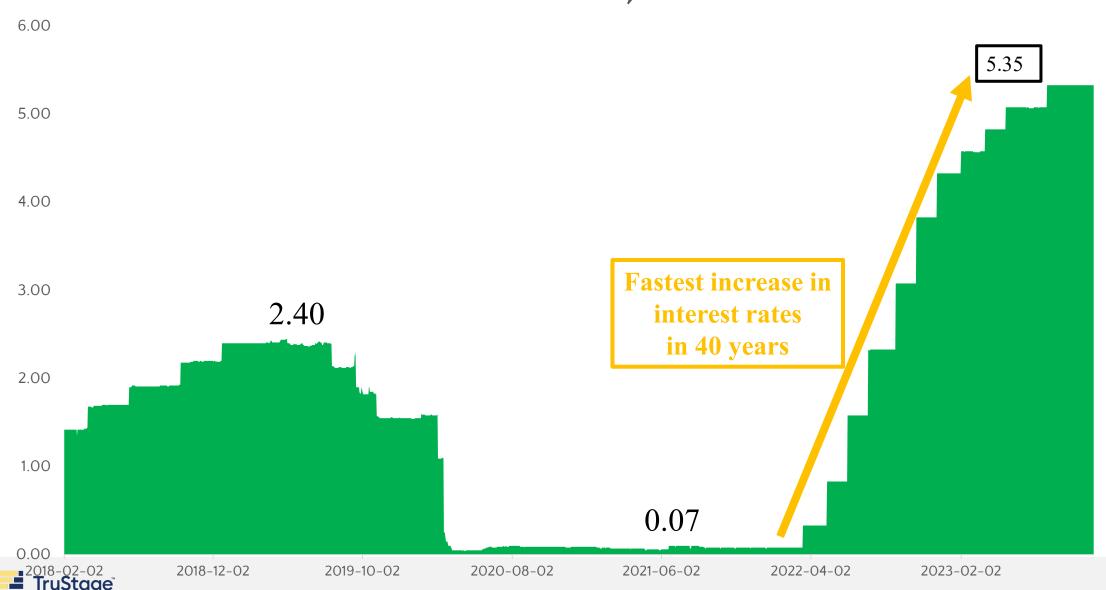
If you have any questions or comments, please contact: **Steven Rick, Chief Economist** TruStage - Economics 800.356.2644, Ext. 665.5454 Steve.rick@TruStage.com

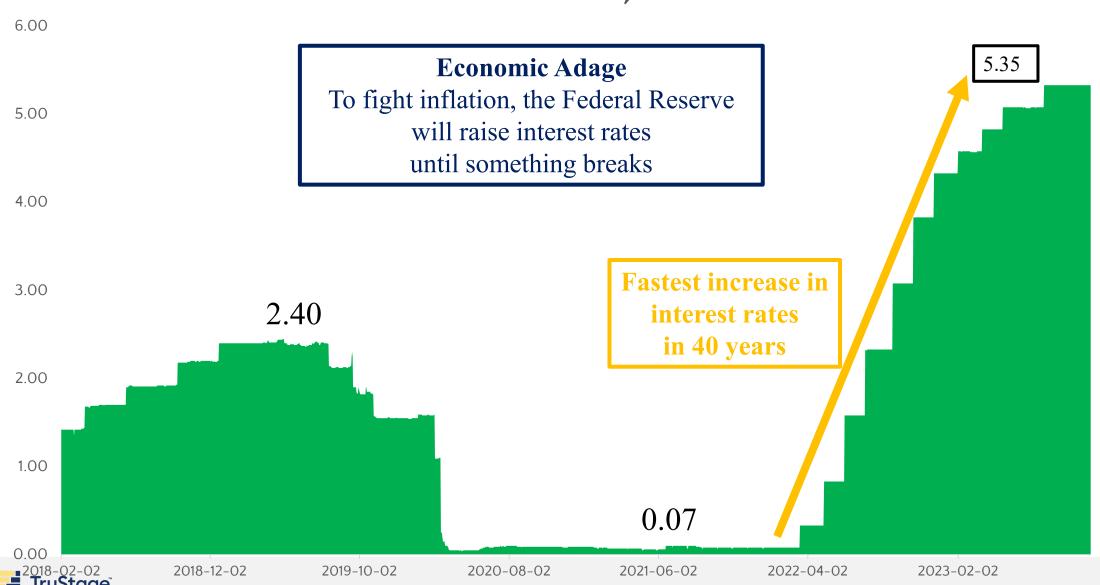
Annual Contraction Rate in CU Marketplace

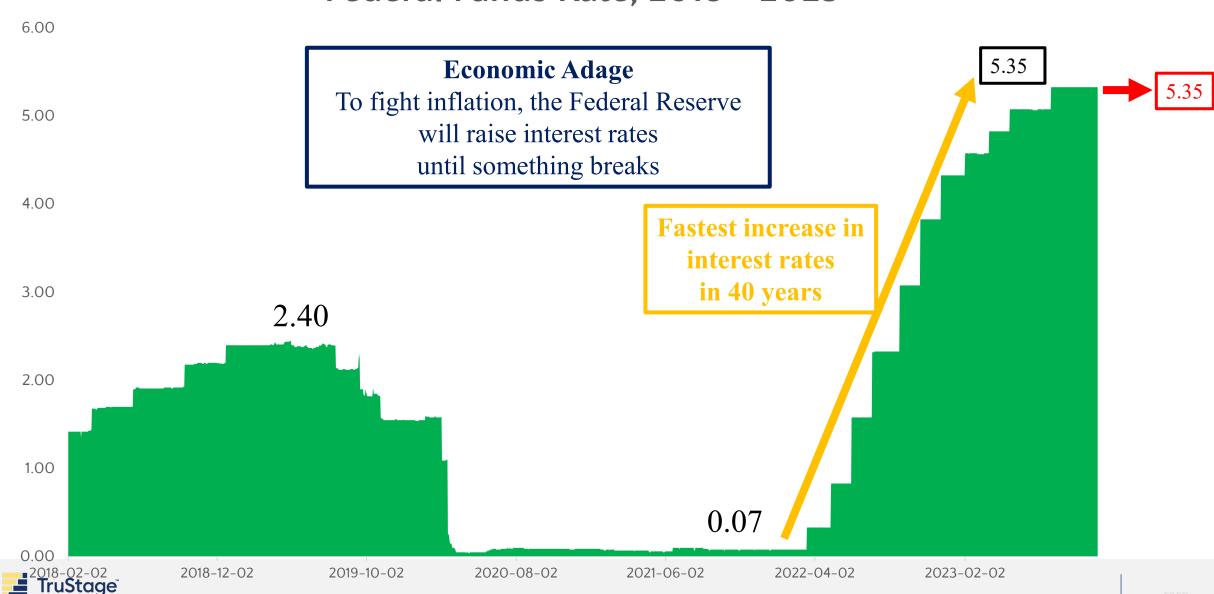


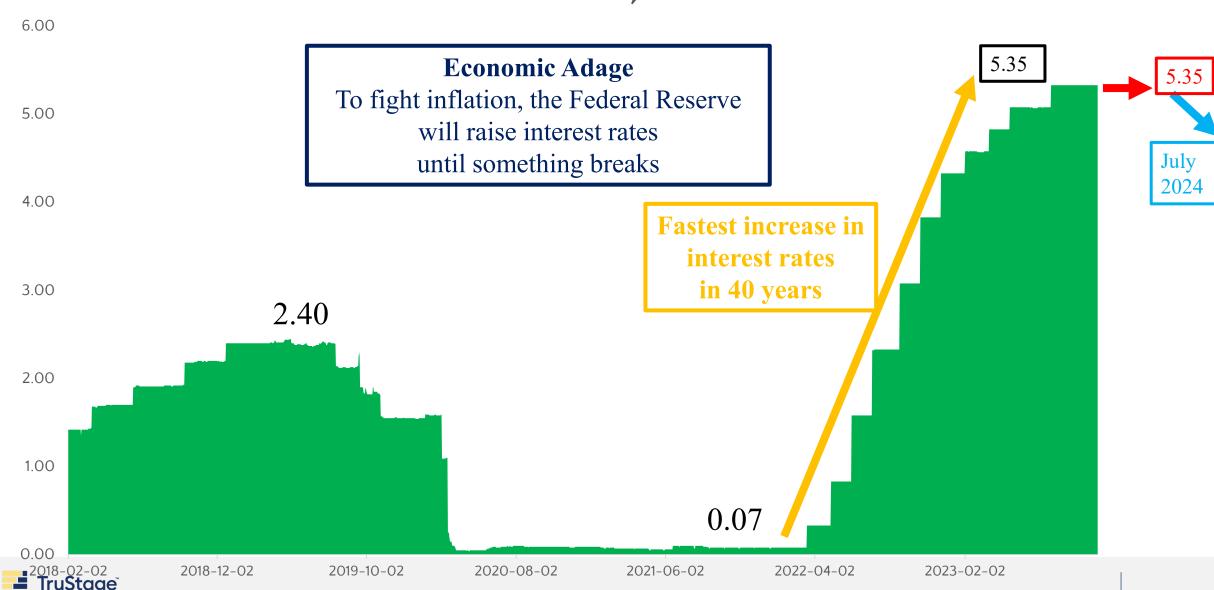


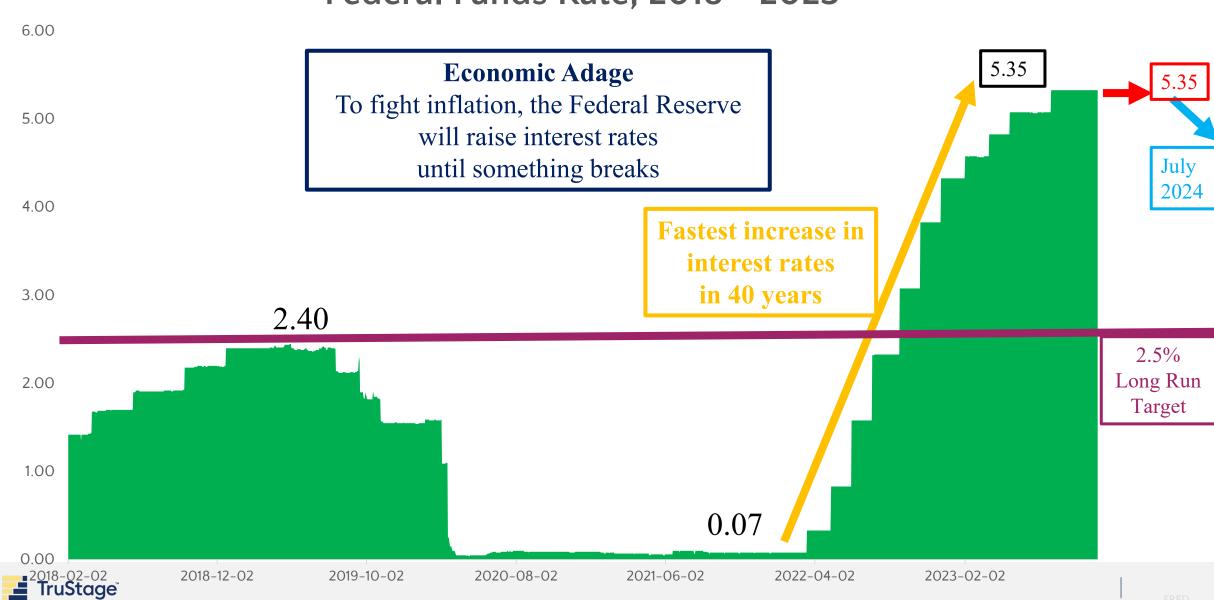


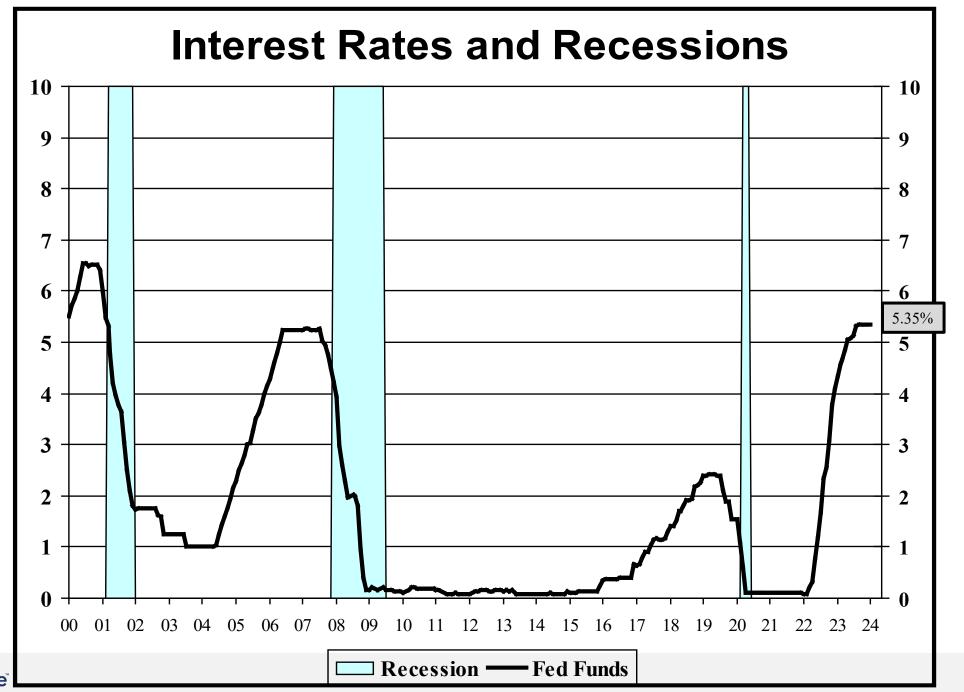




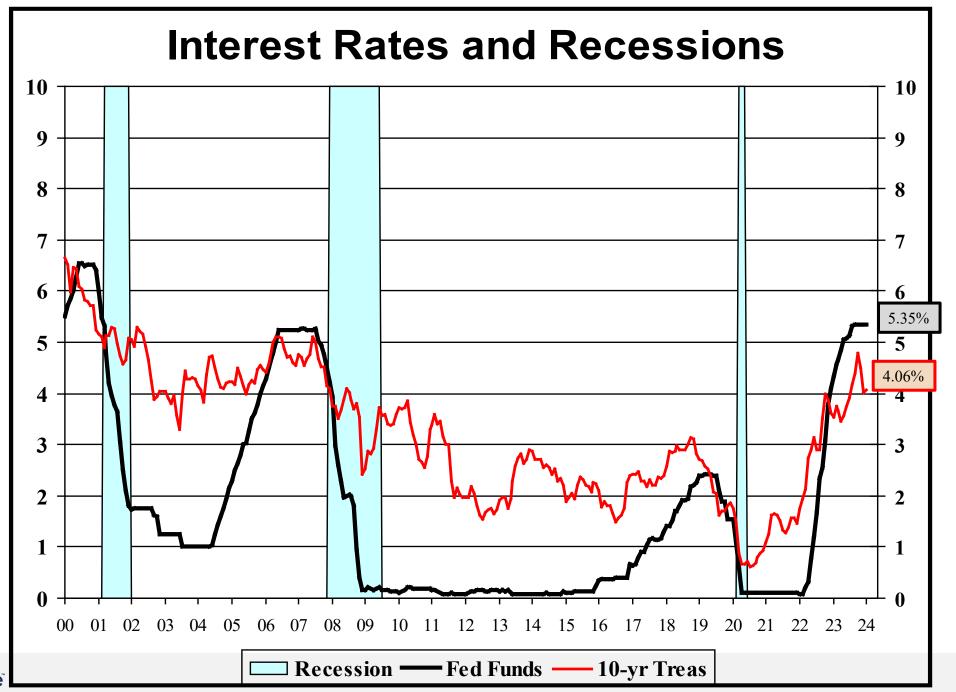




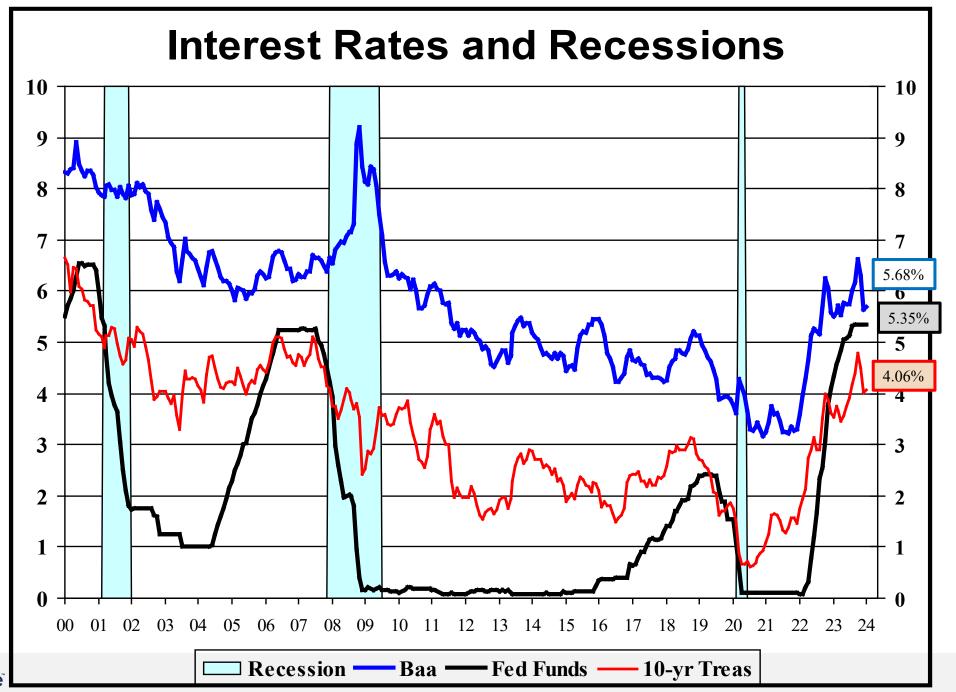




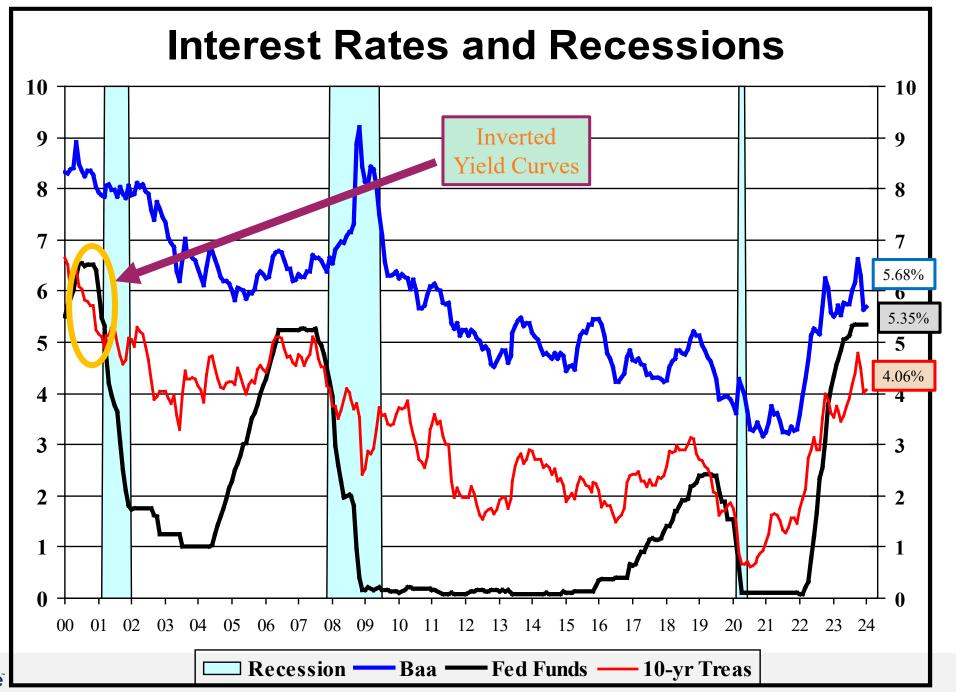




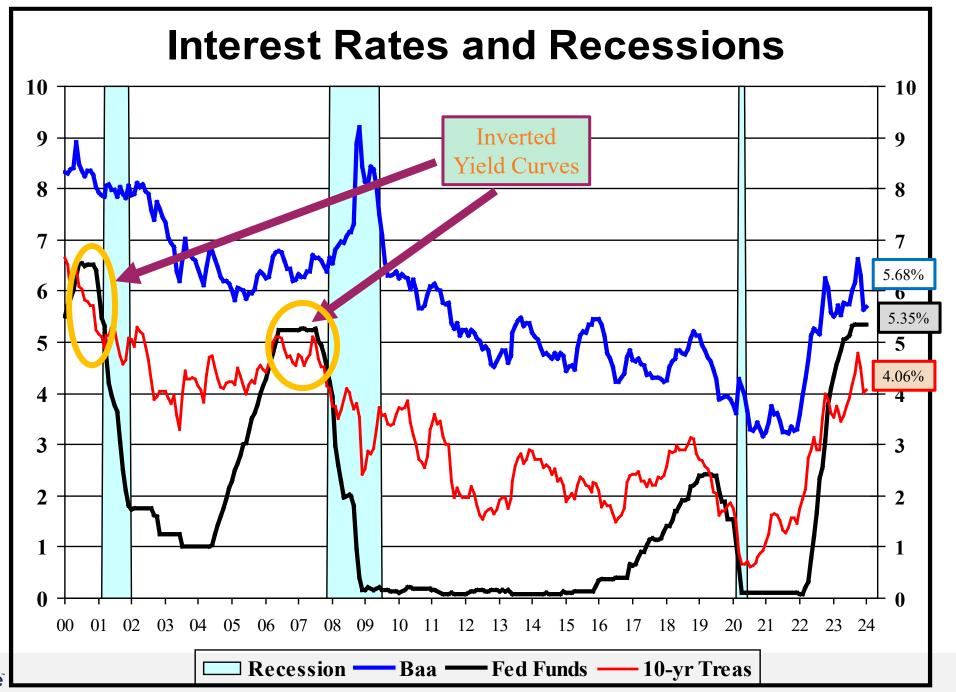




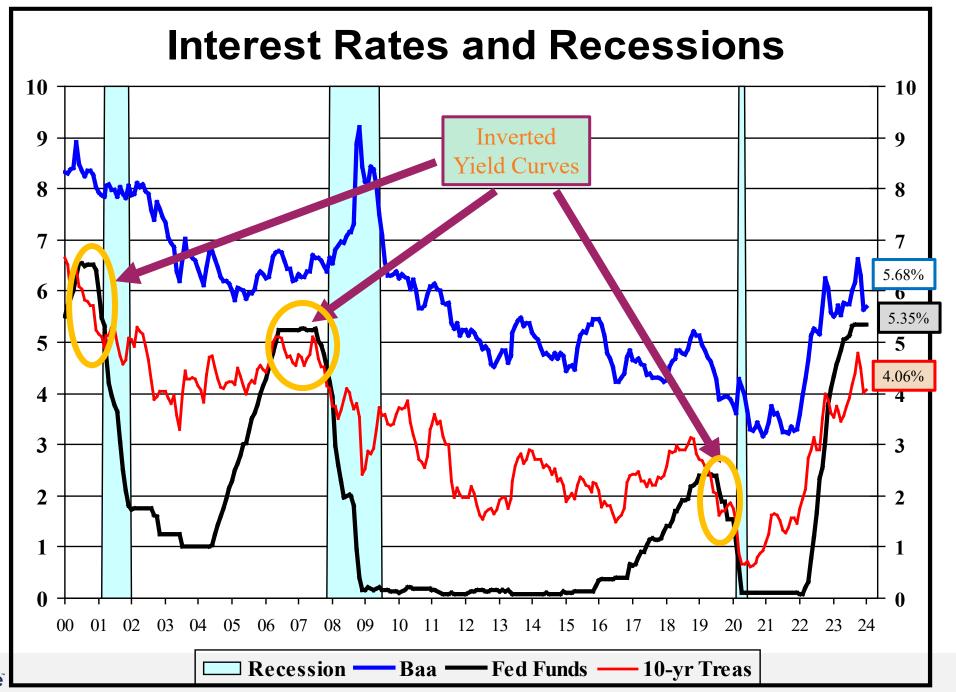




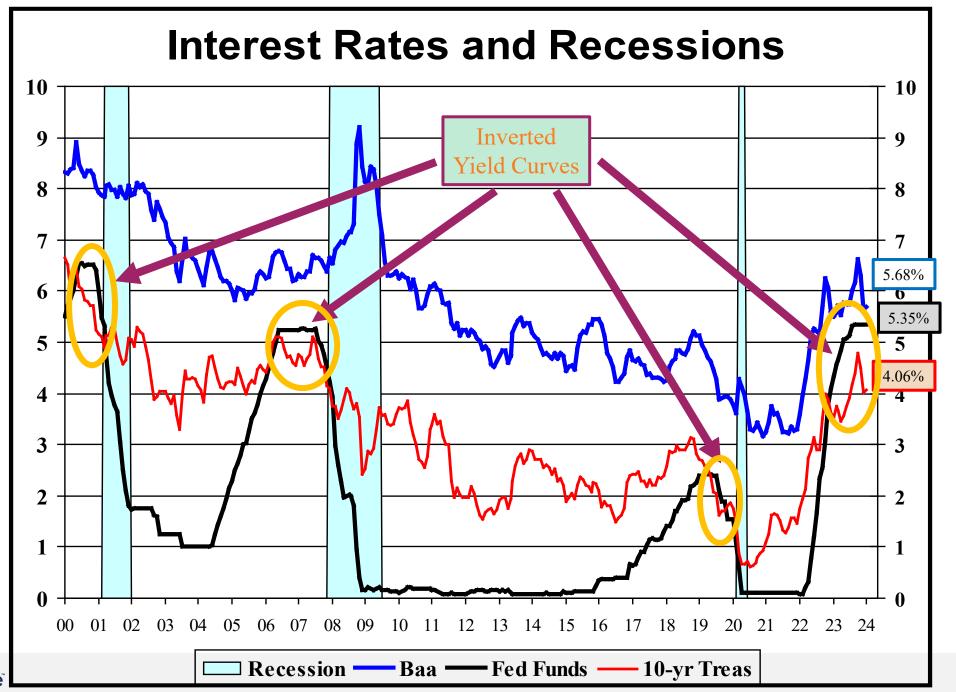




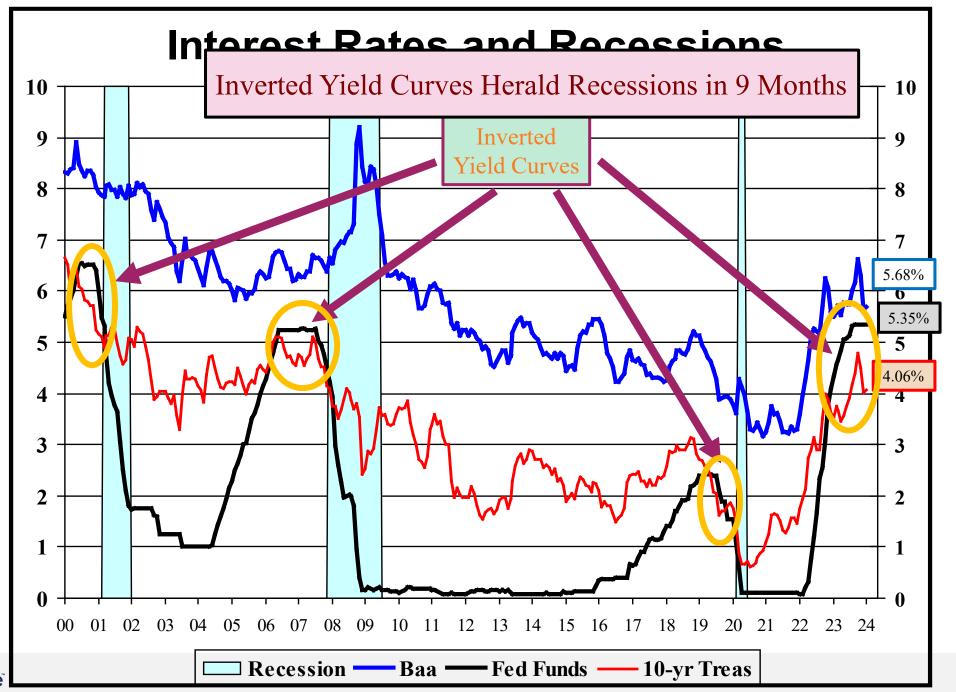






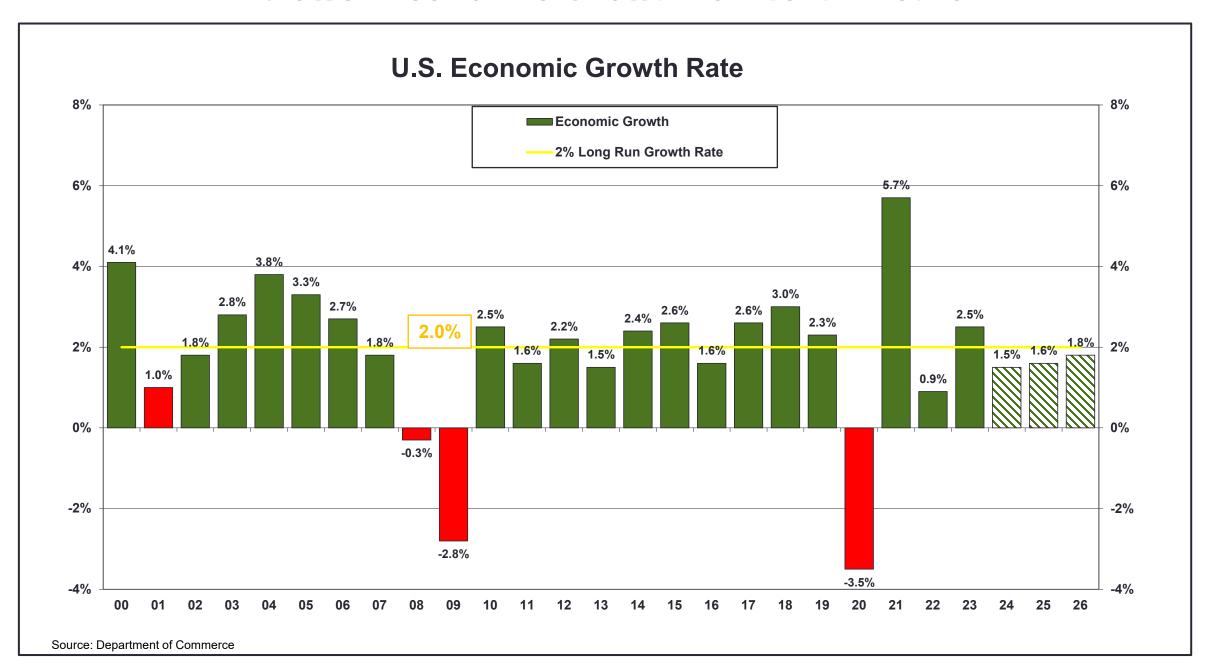




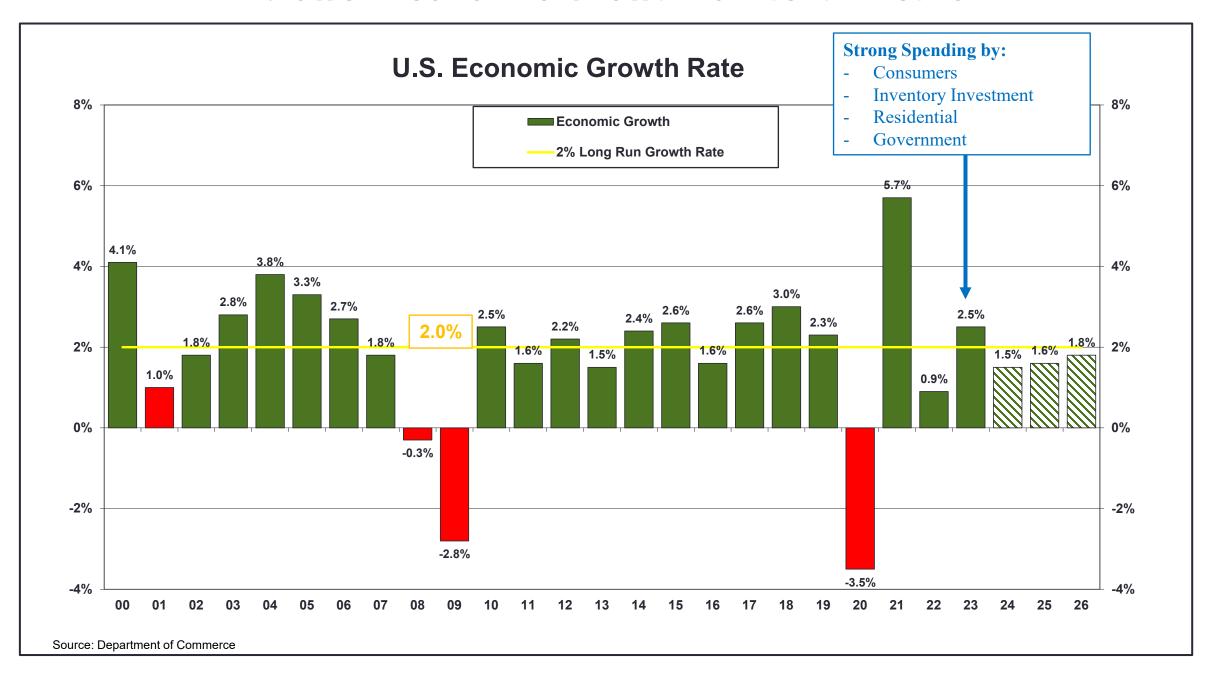




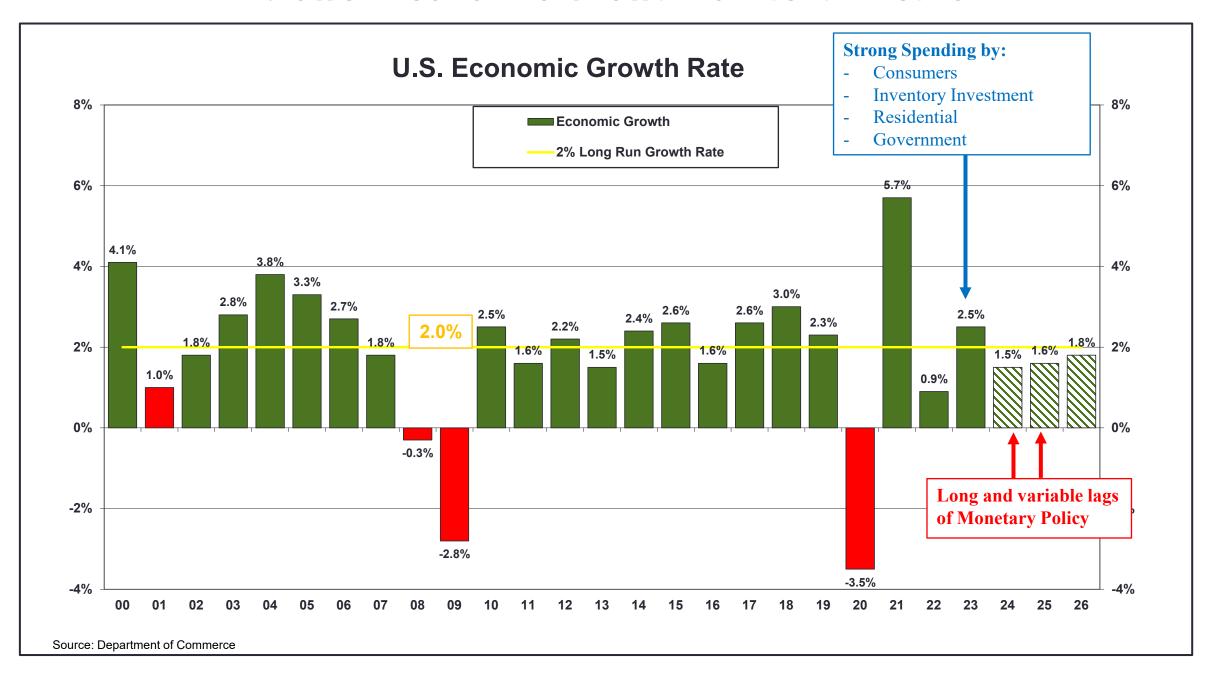
Slower Economic Growth for Next 2 Years

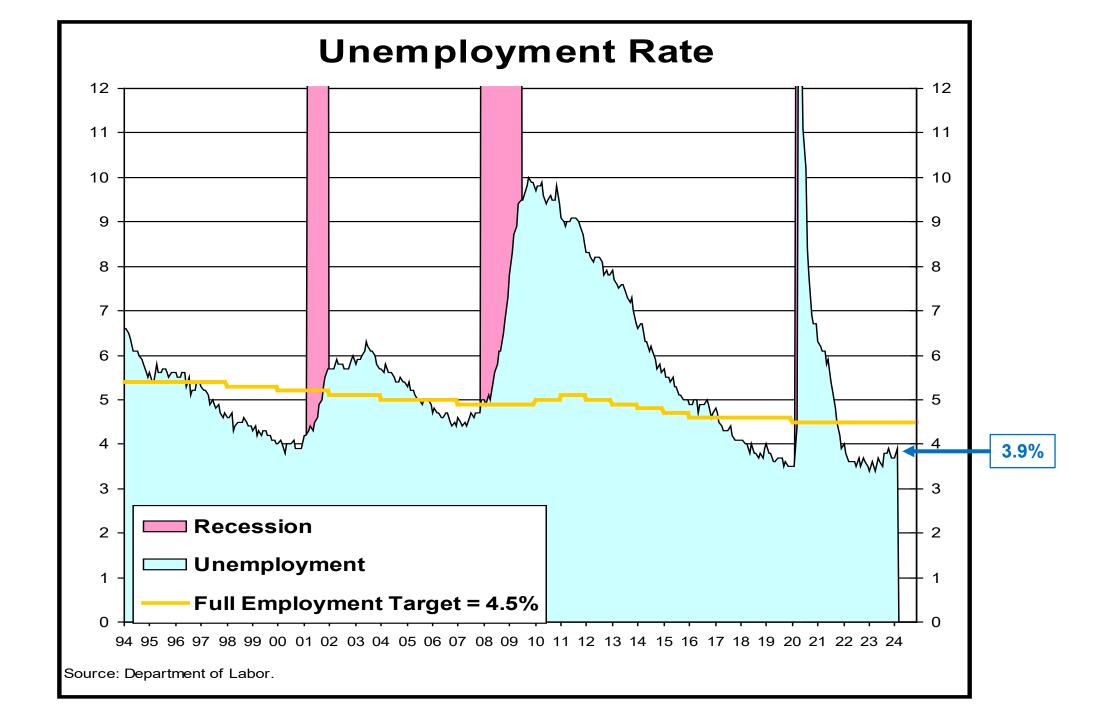


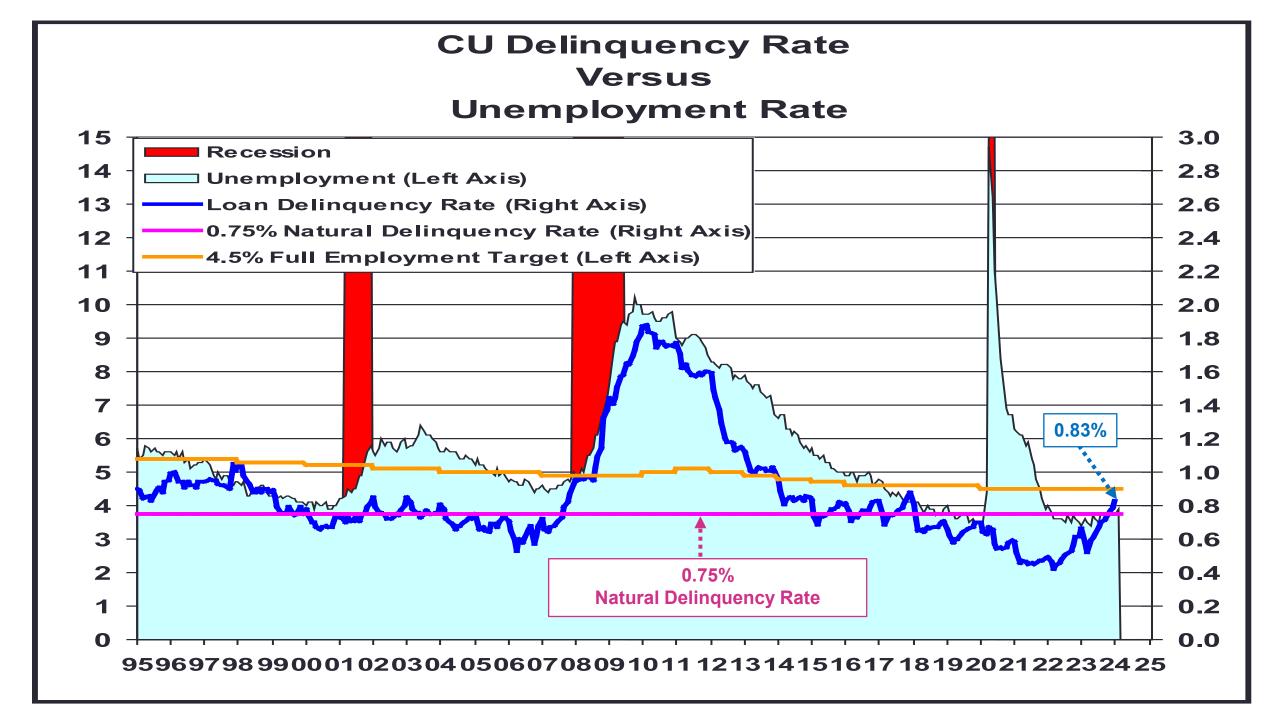
Slower Economic Growth for Next 2 Years



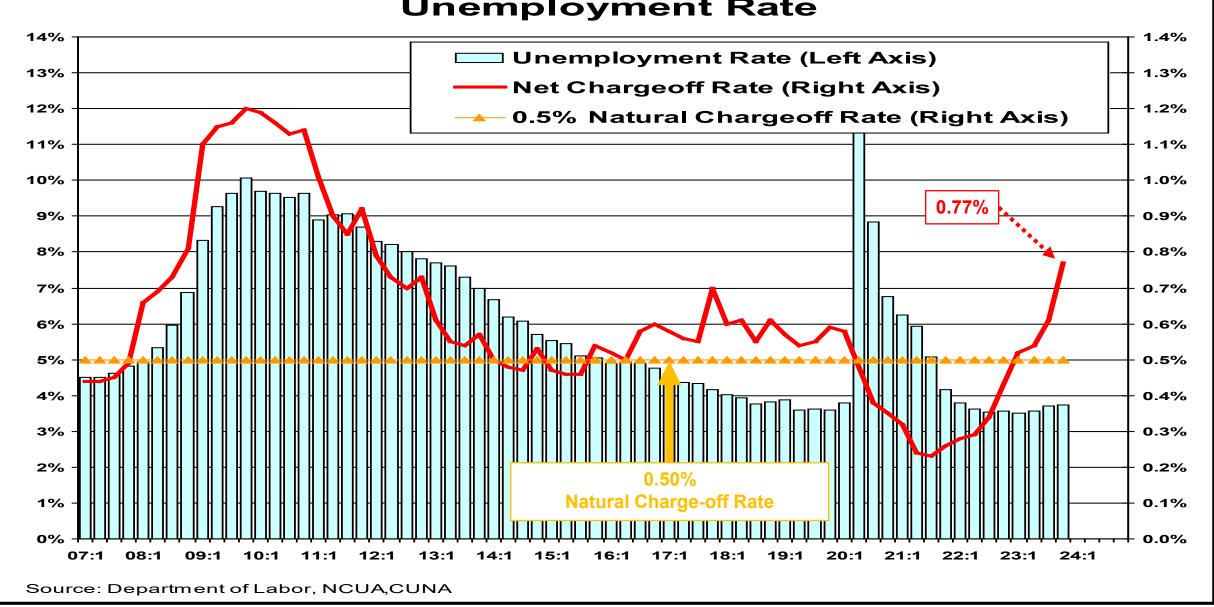
Slower Economic Growth for Next 2 Years

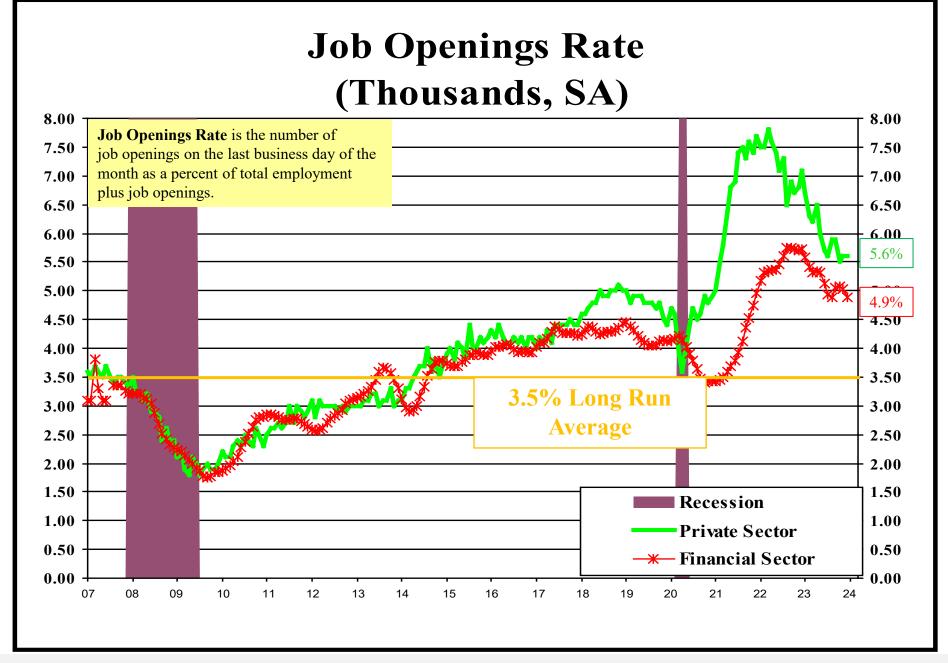




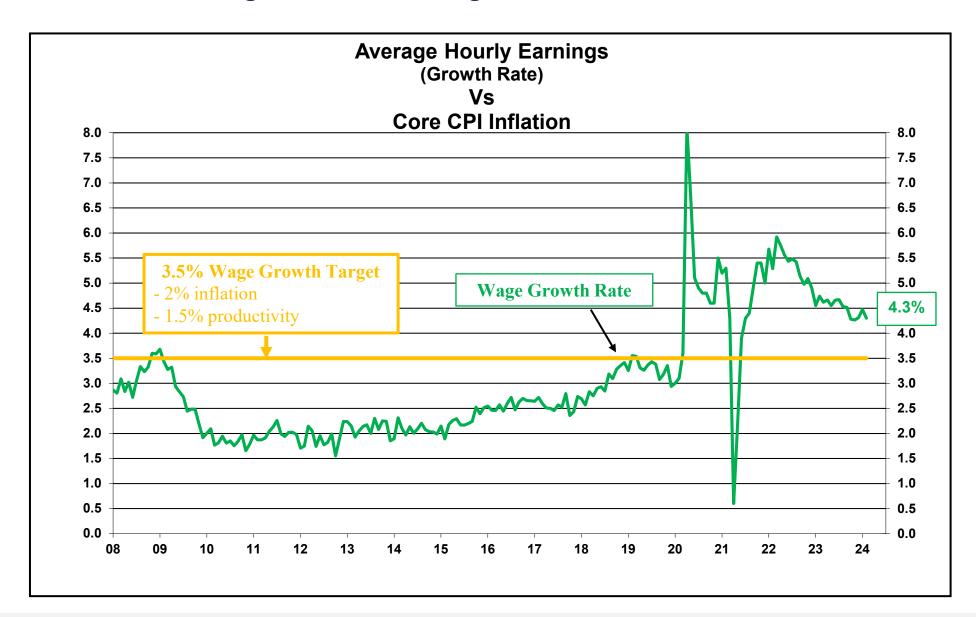




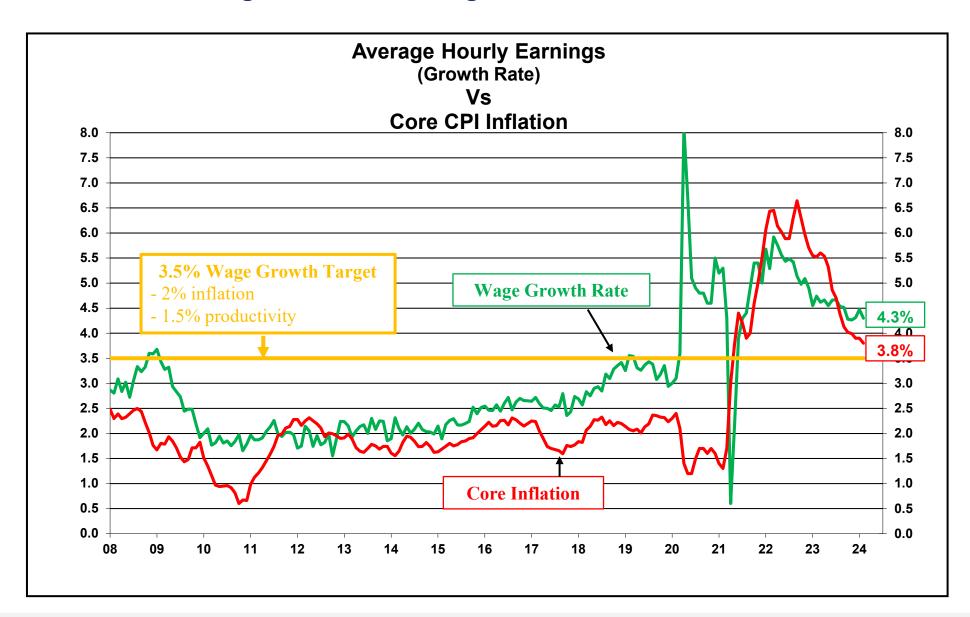


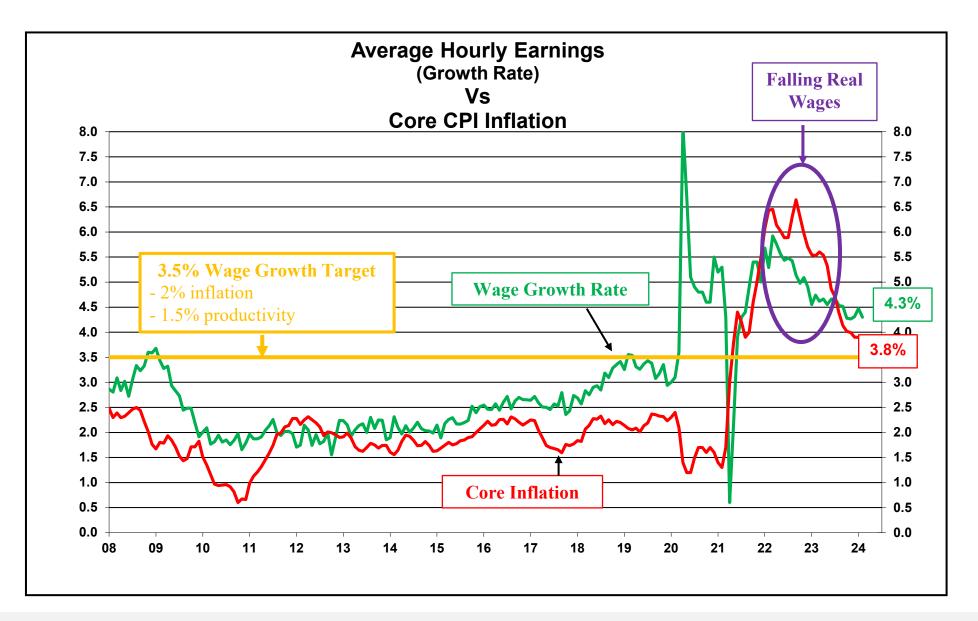




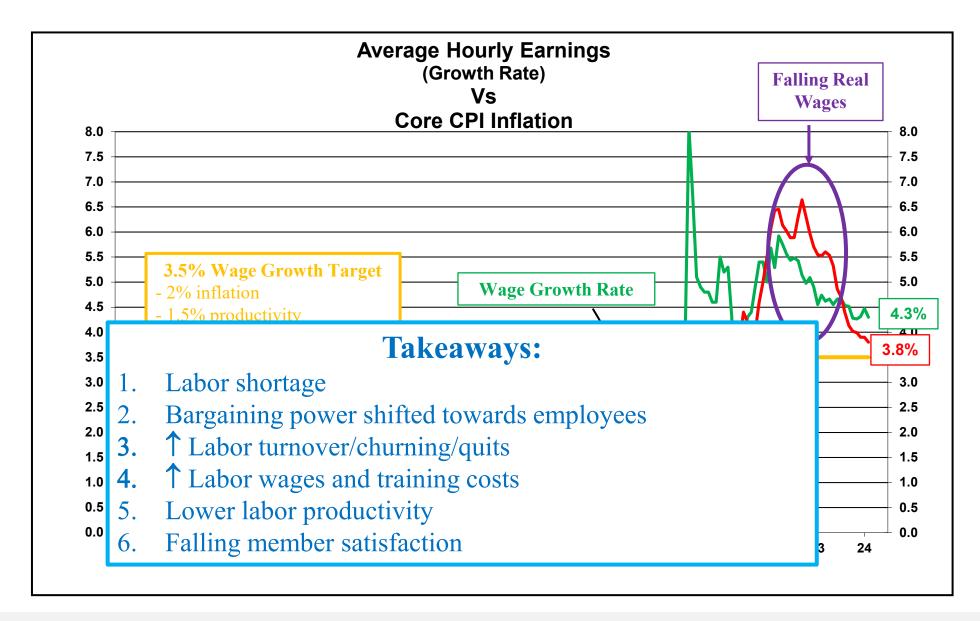




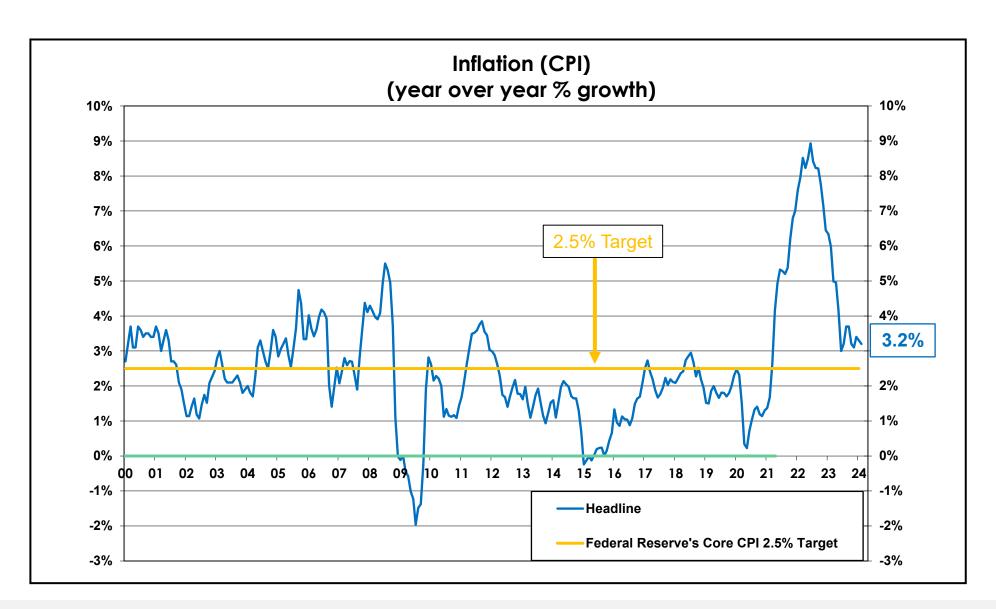




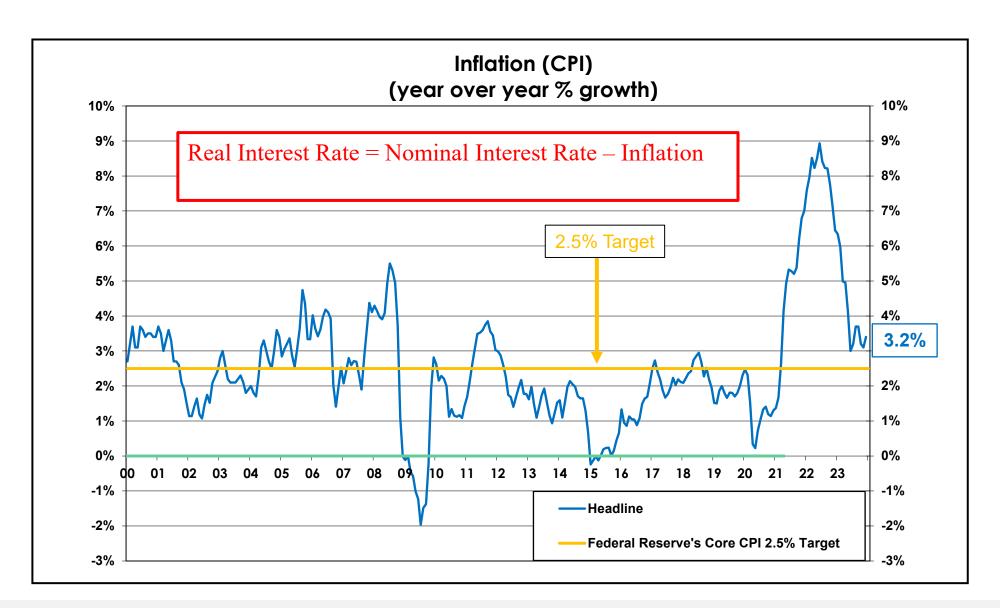




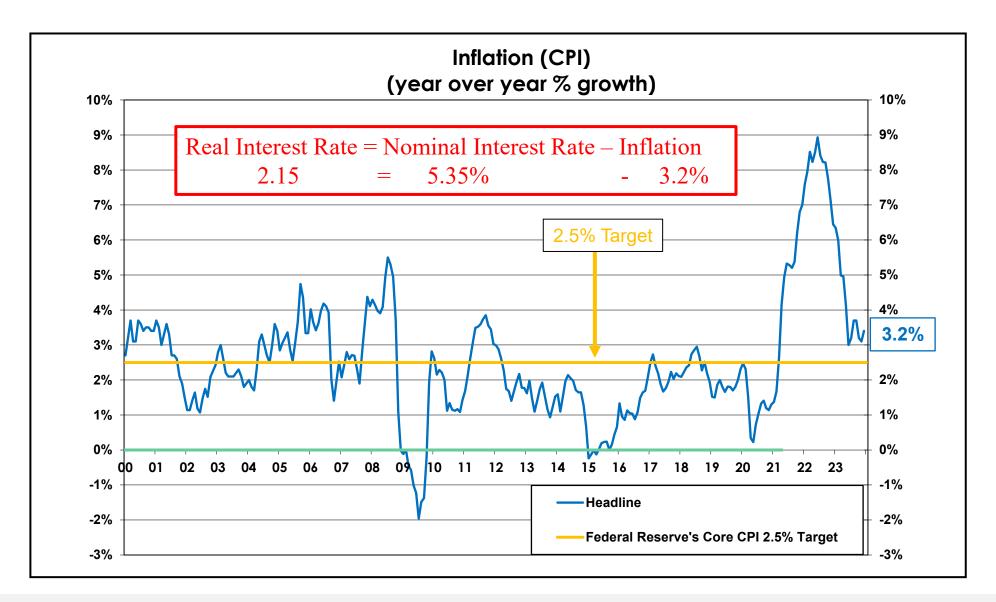




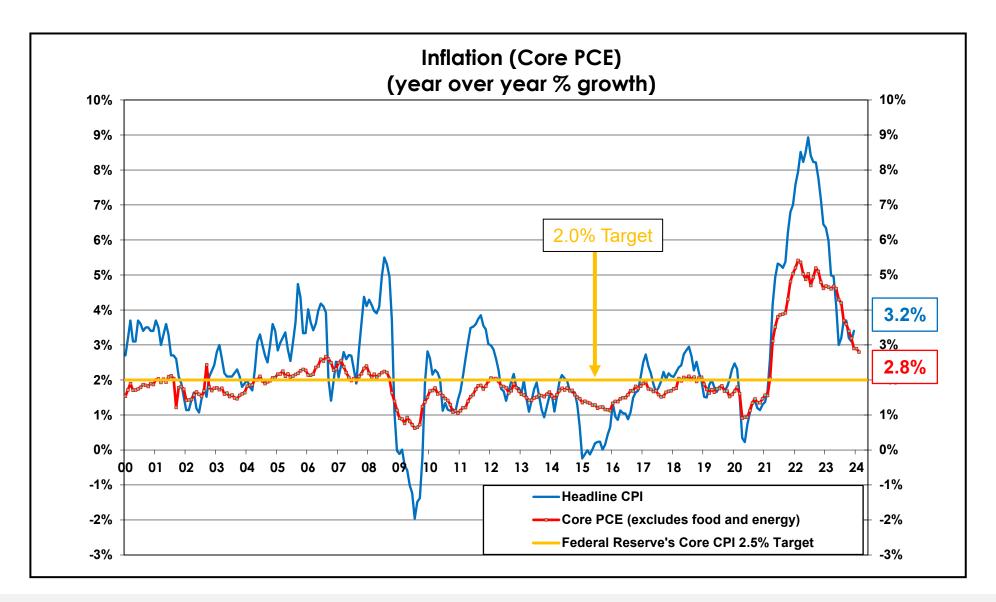




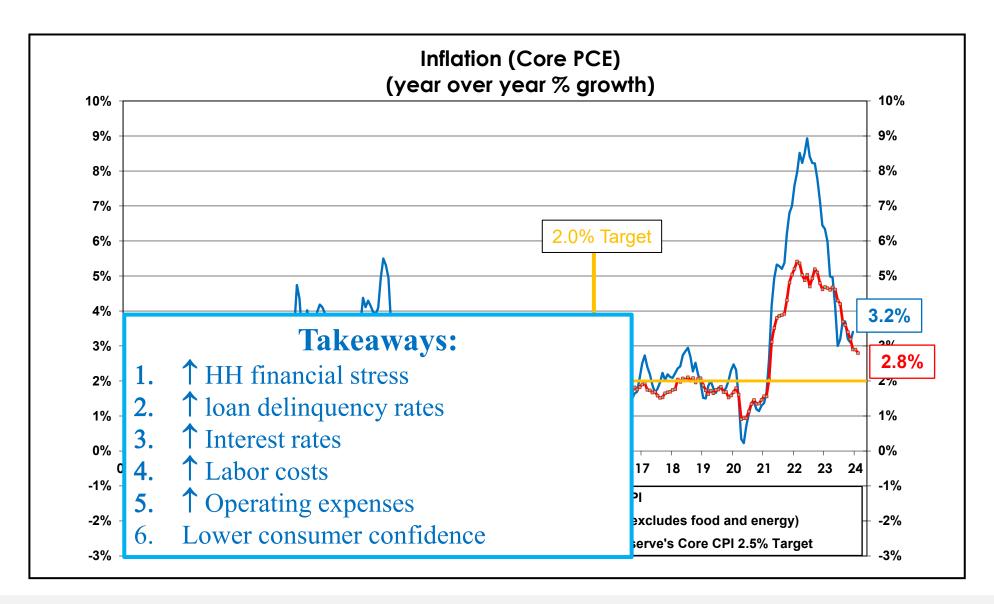




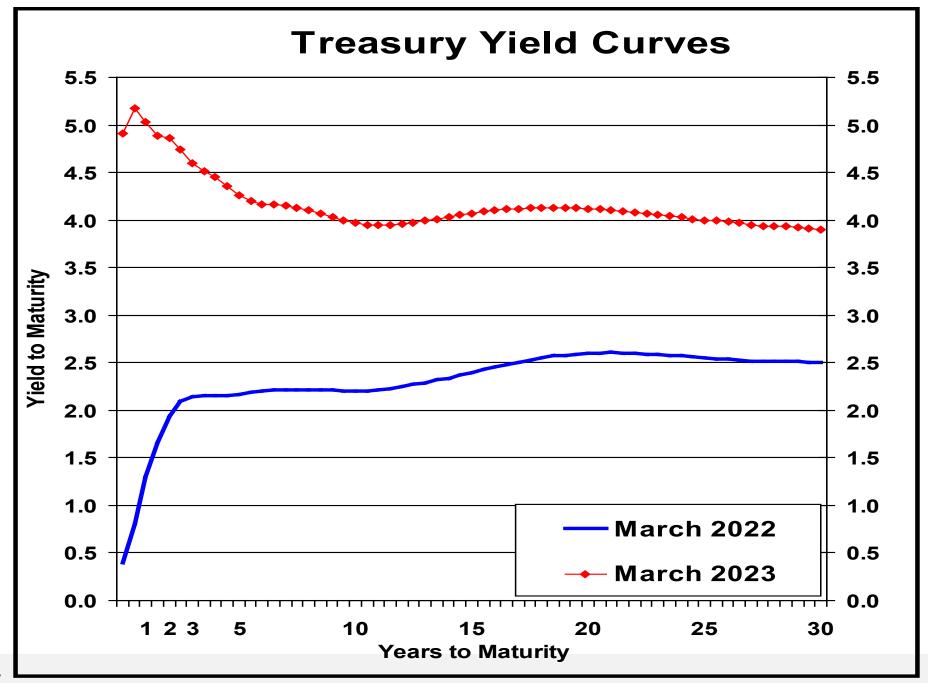




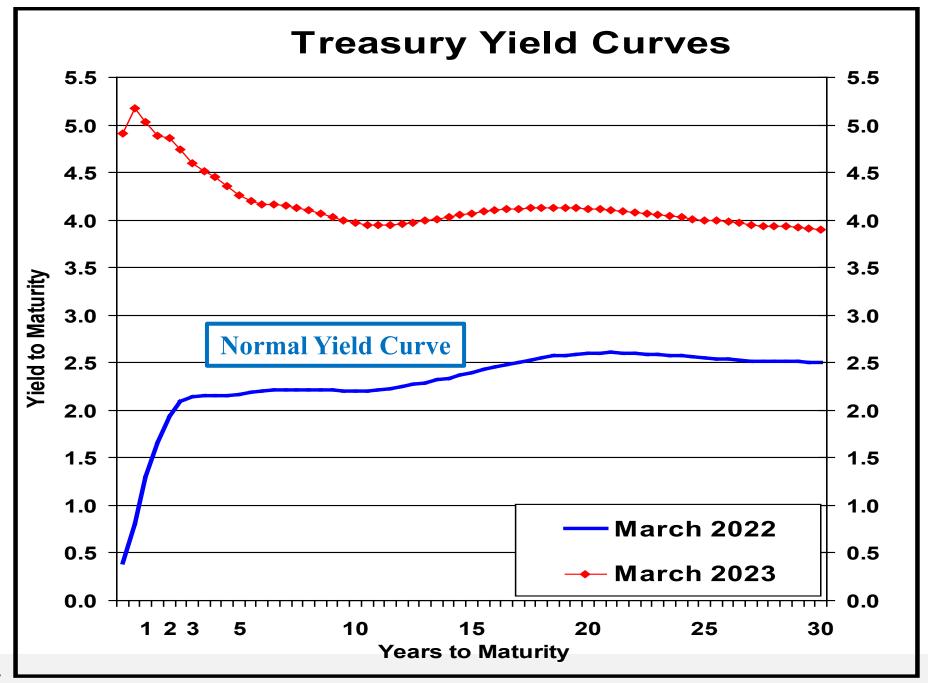




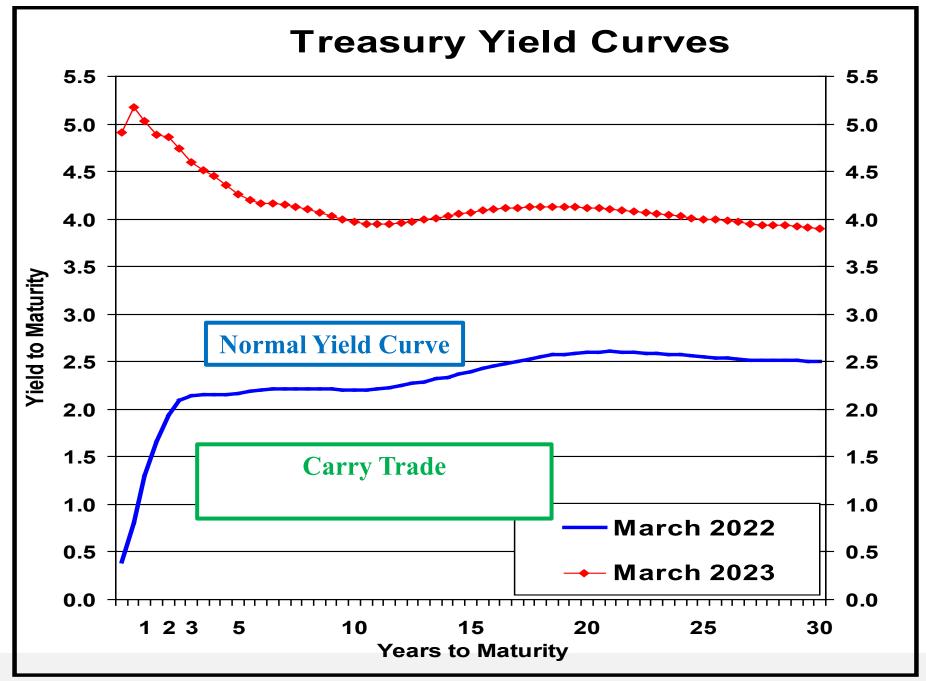




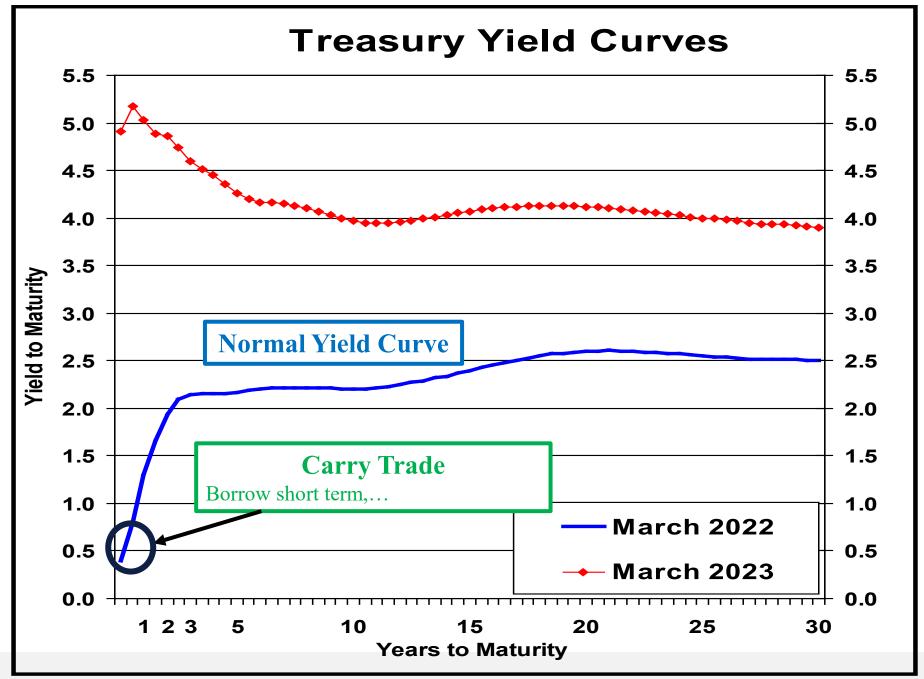




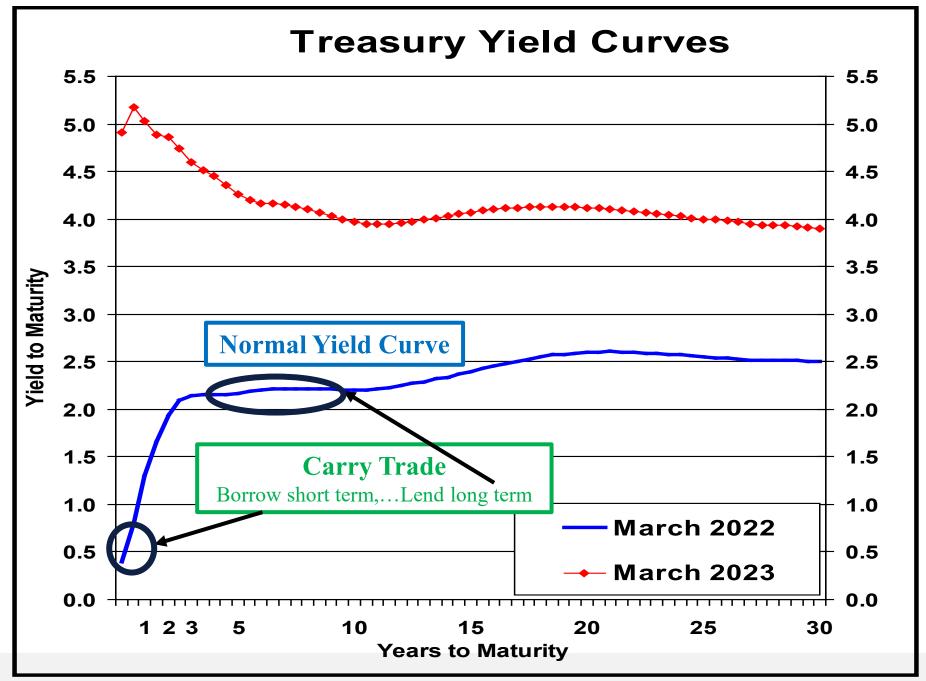




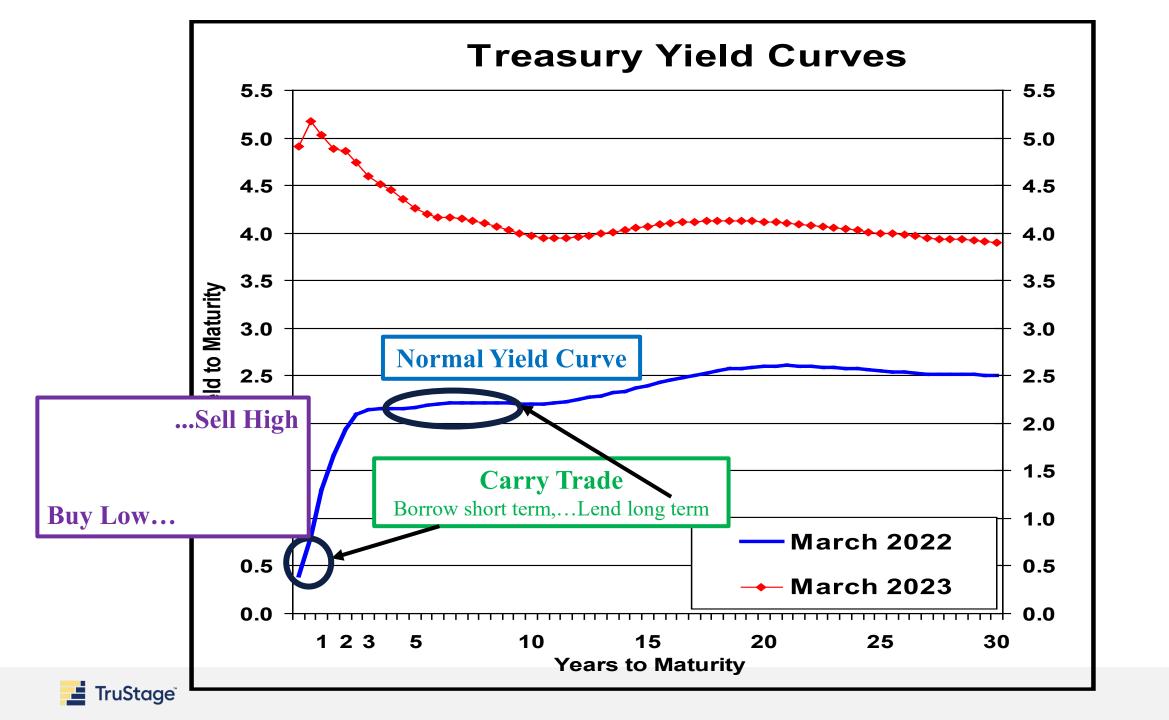


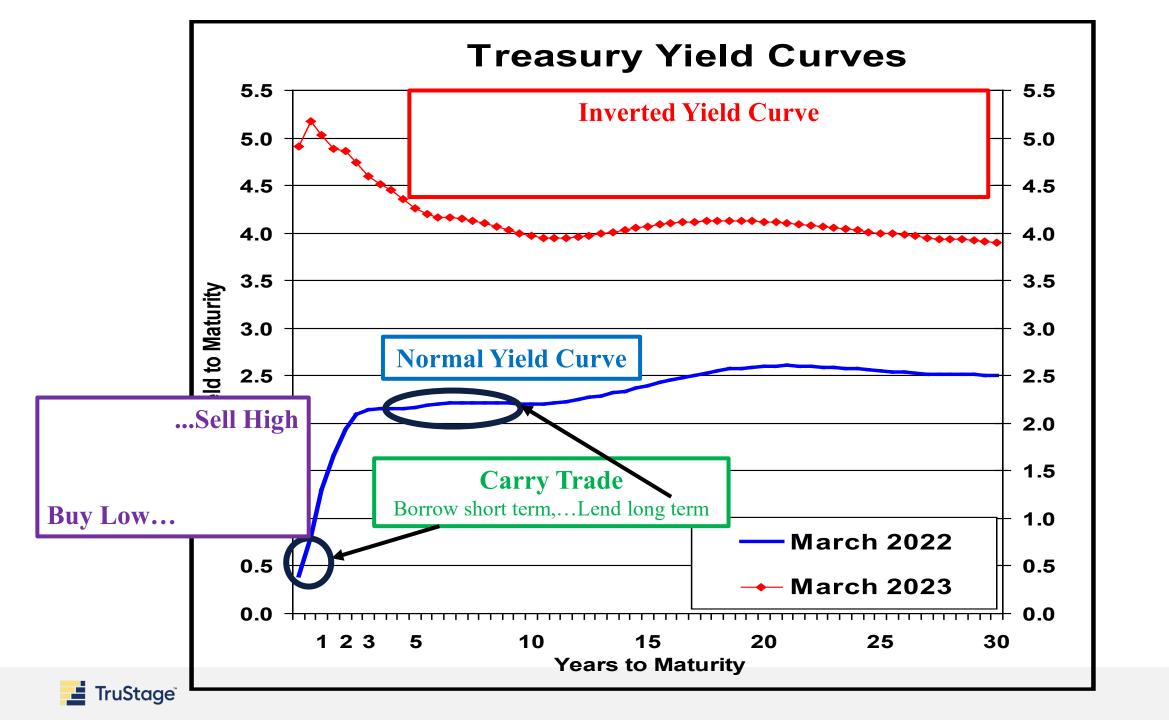


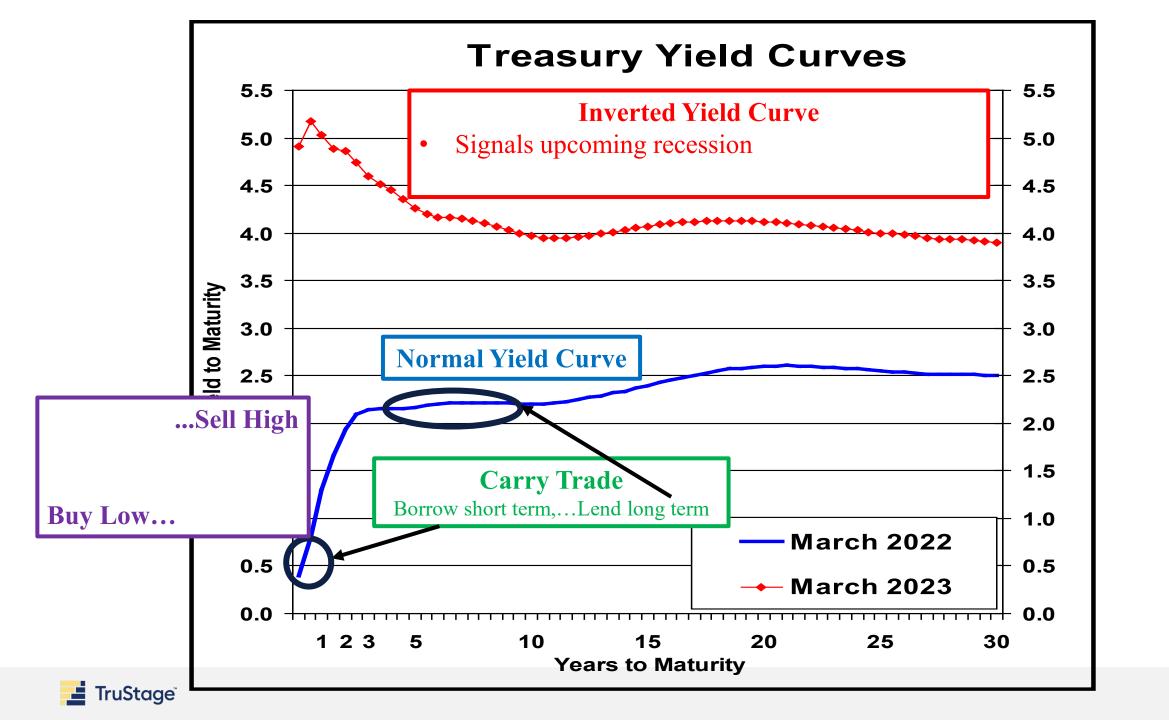


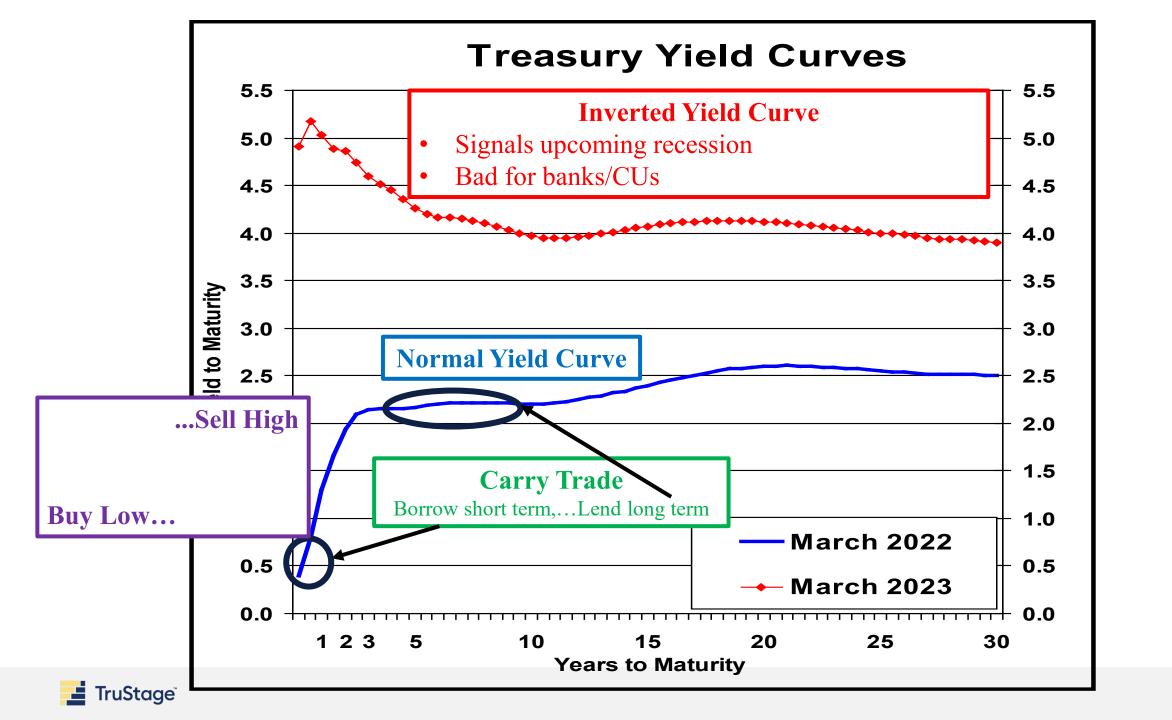


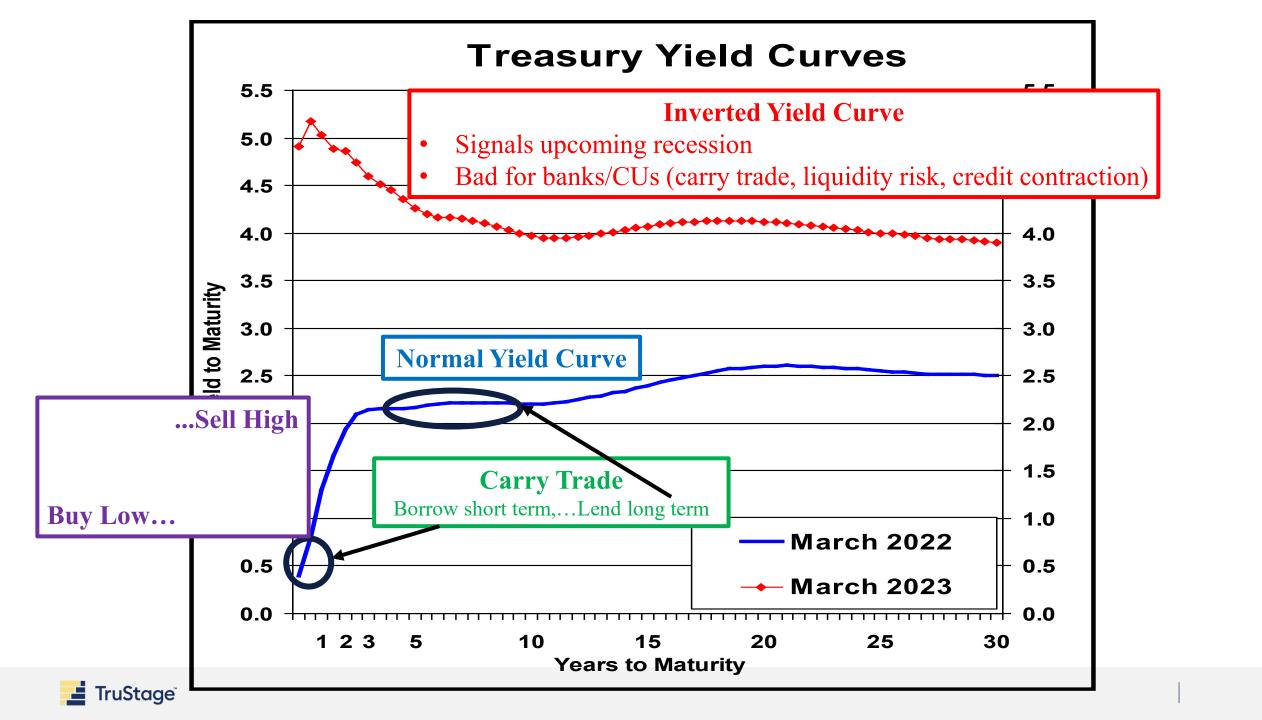


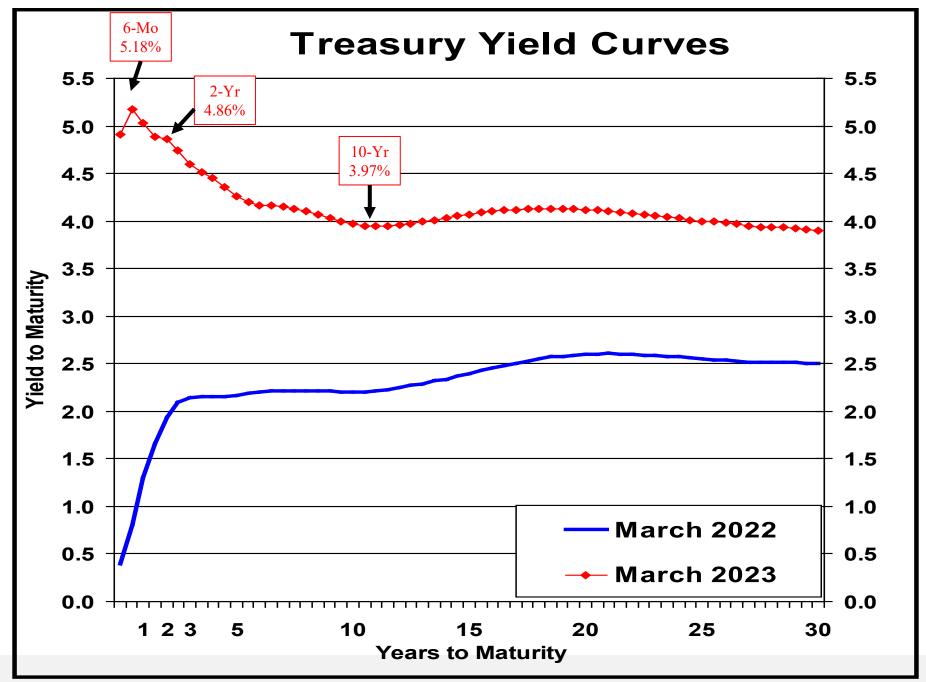




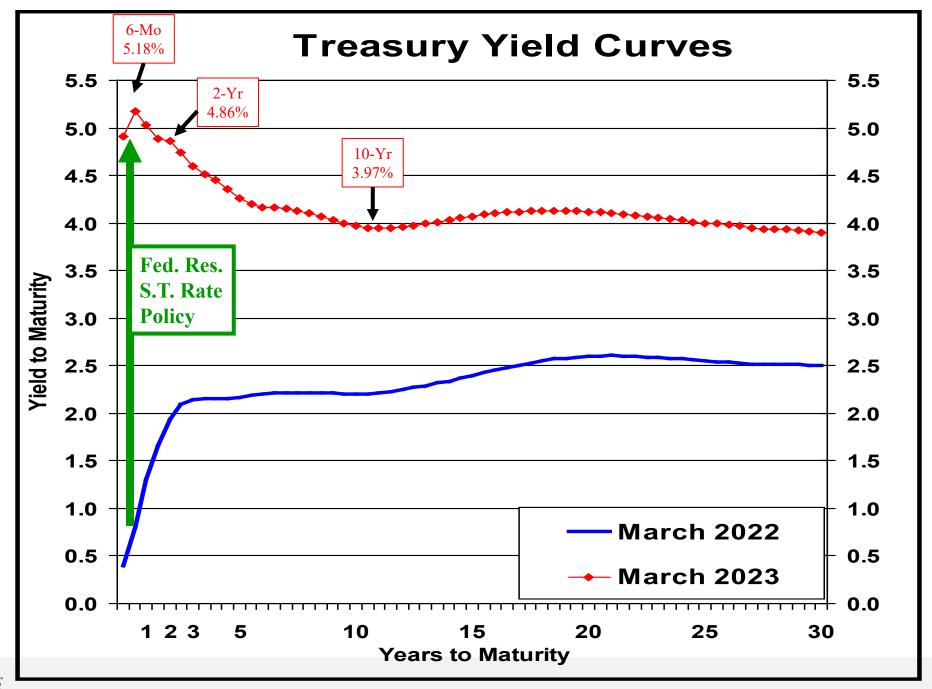




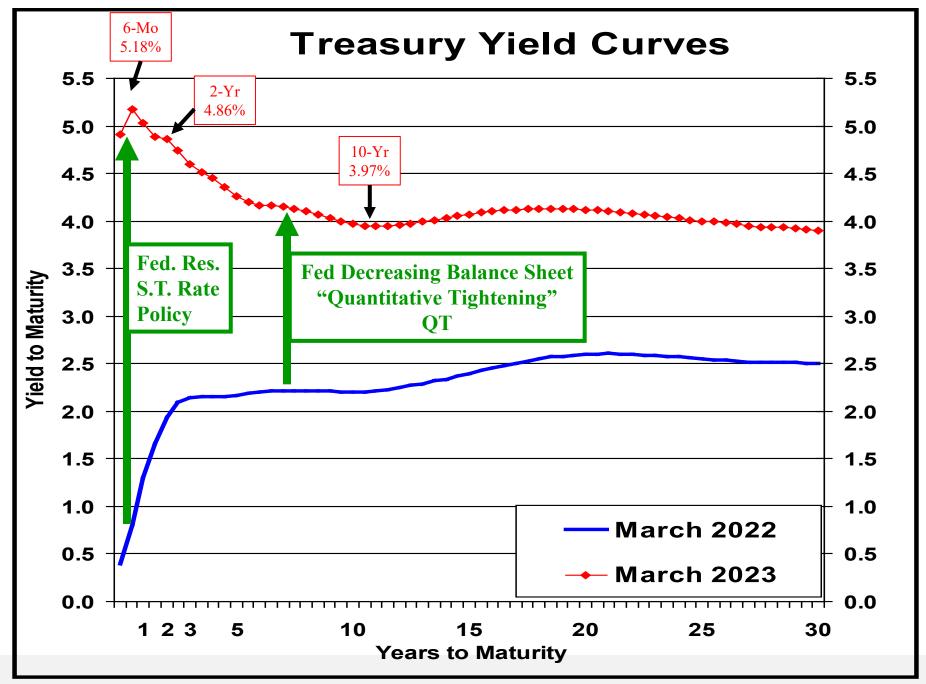




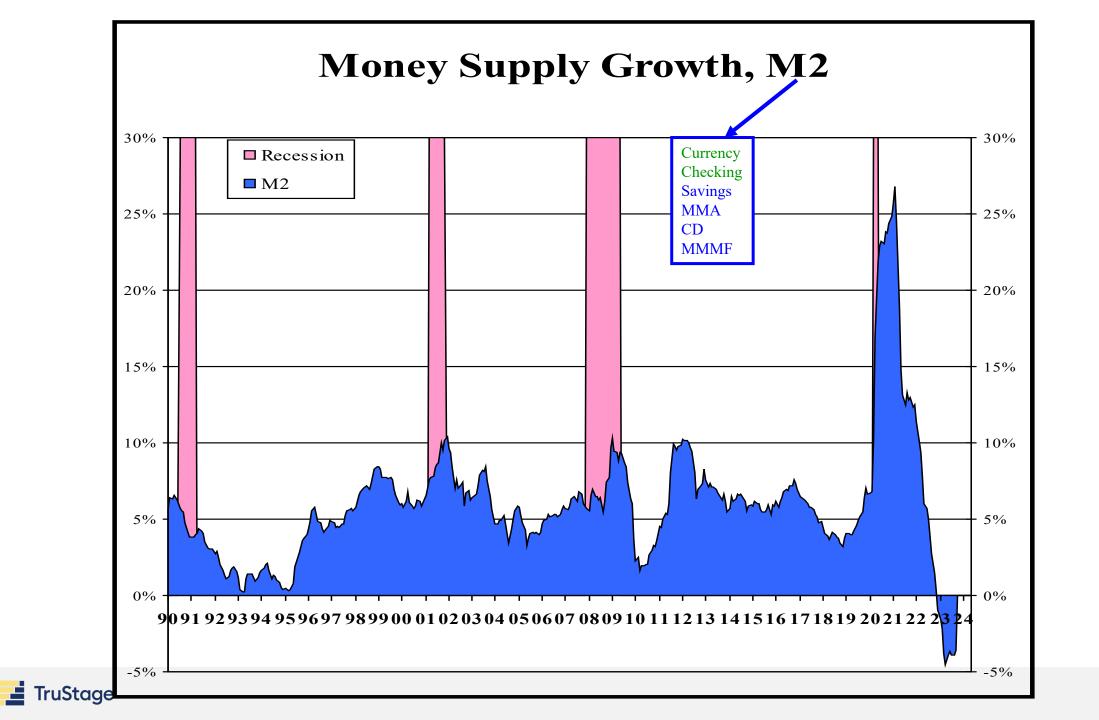


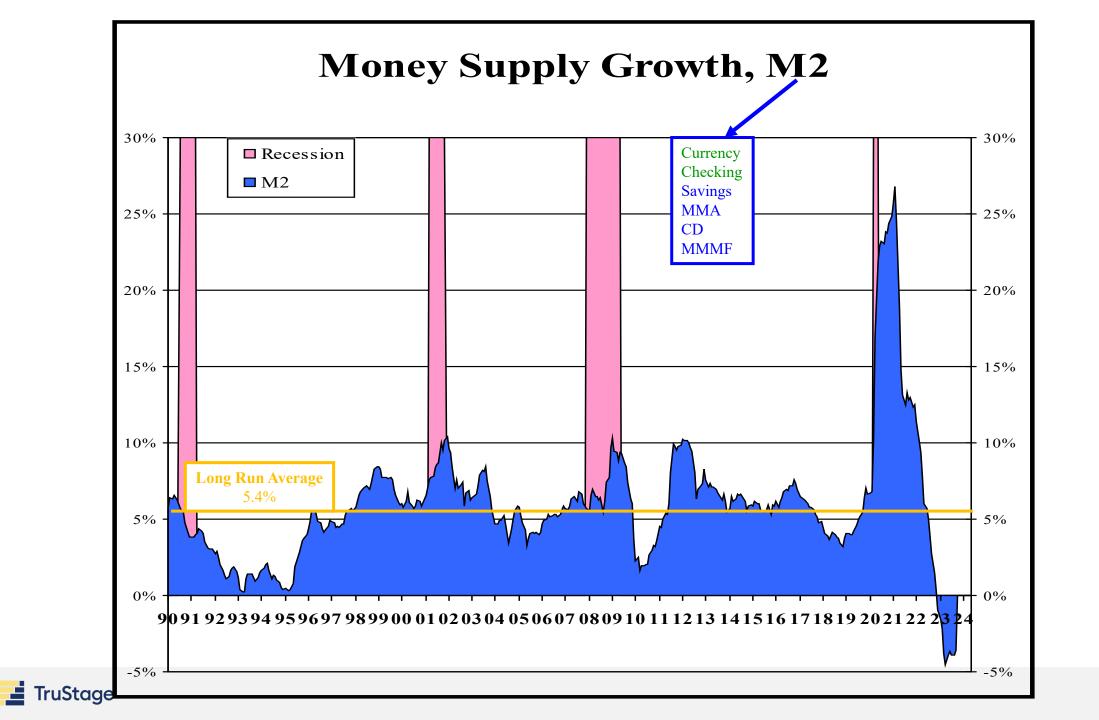


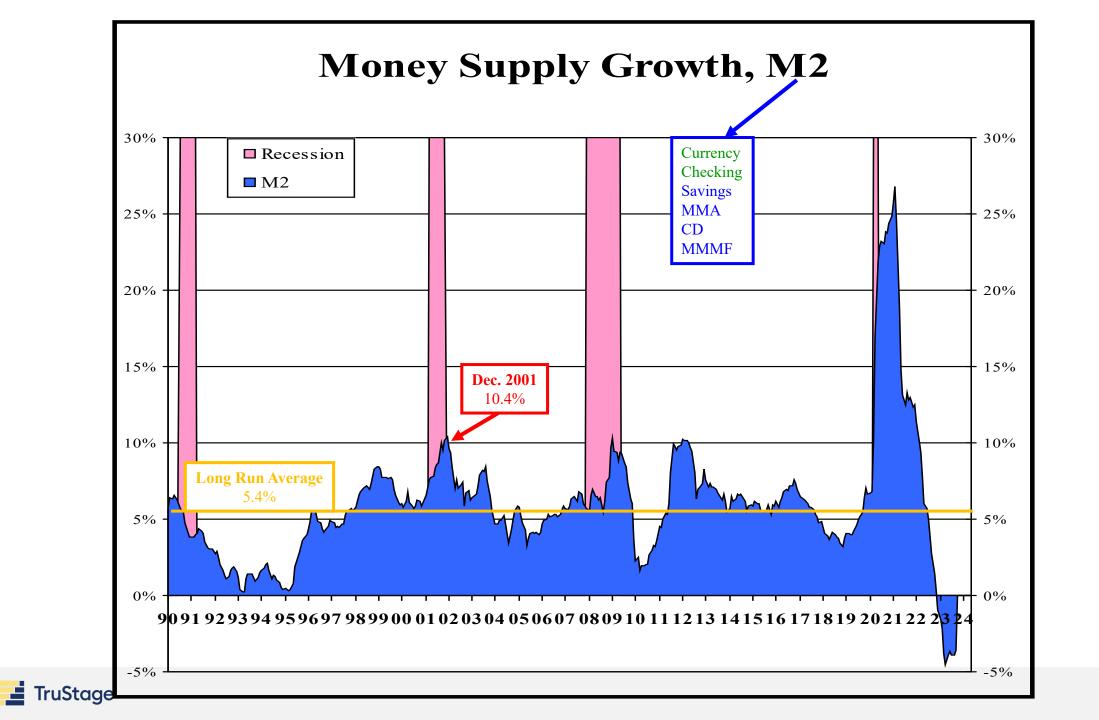


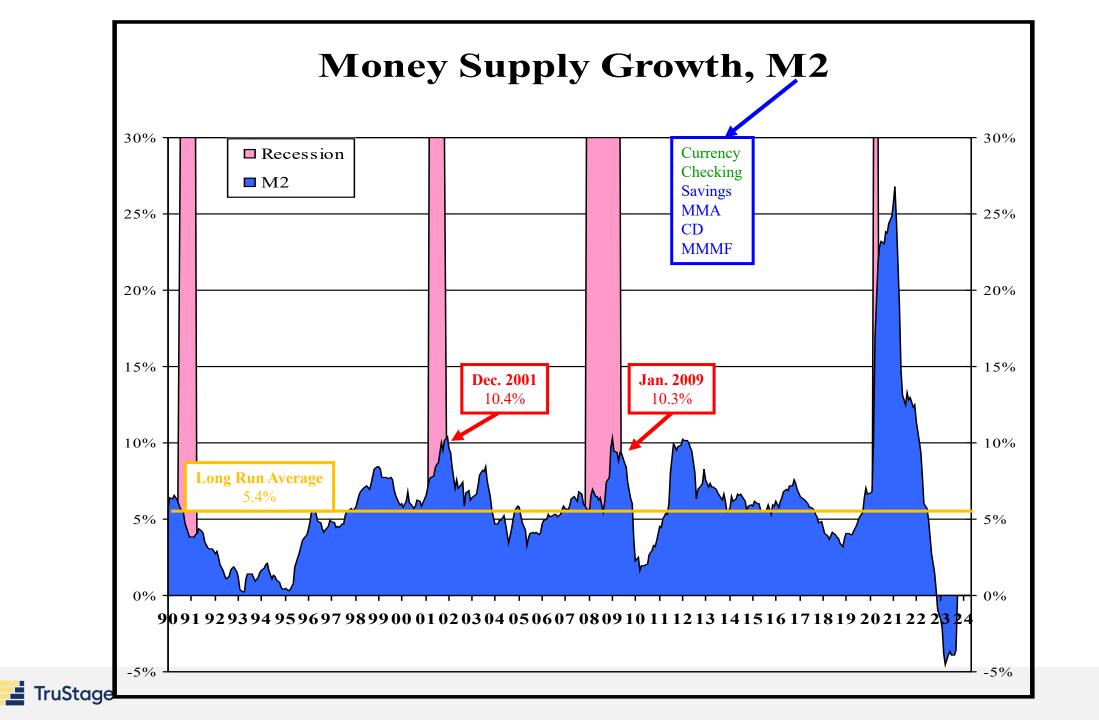


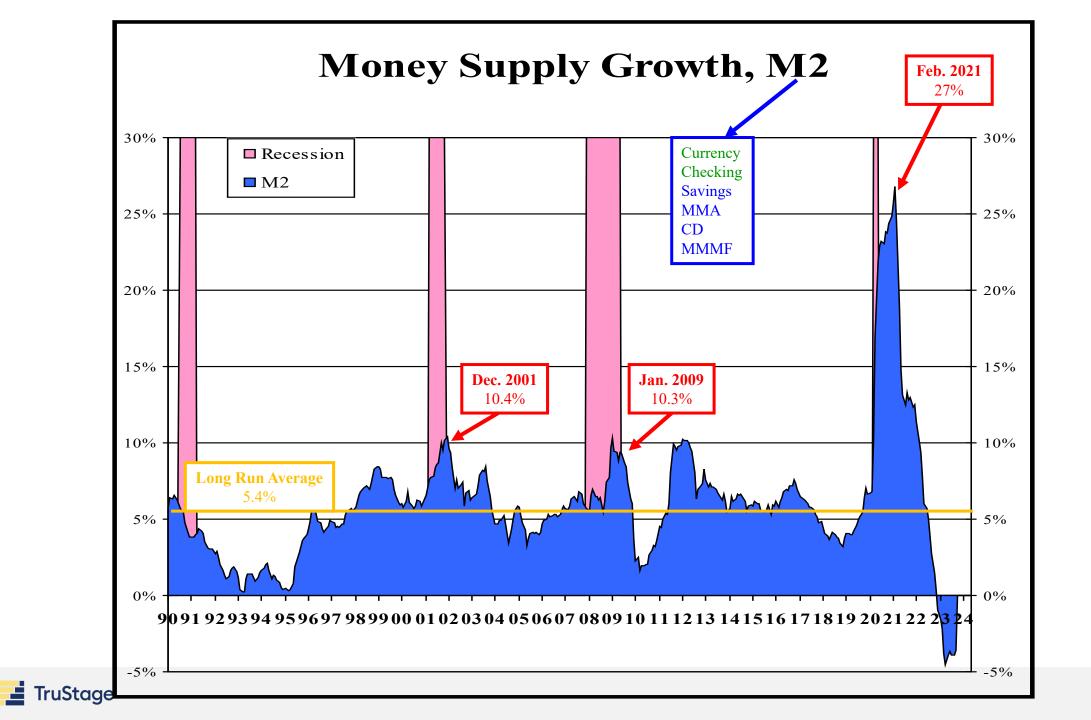


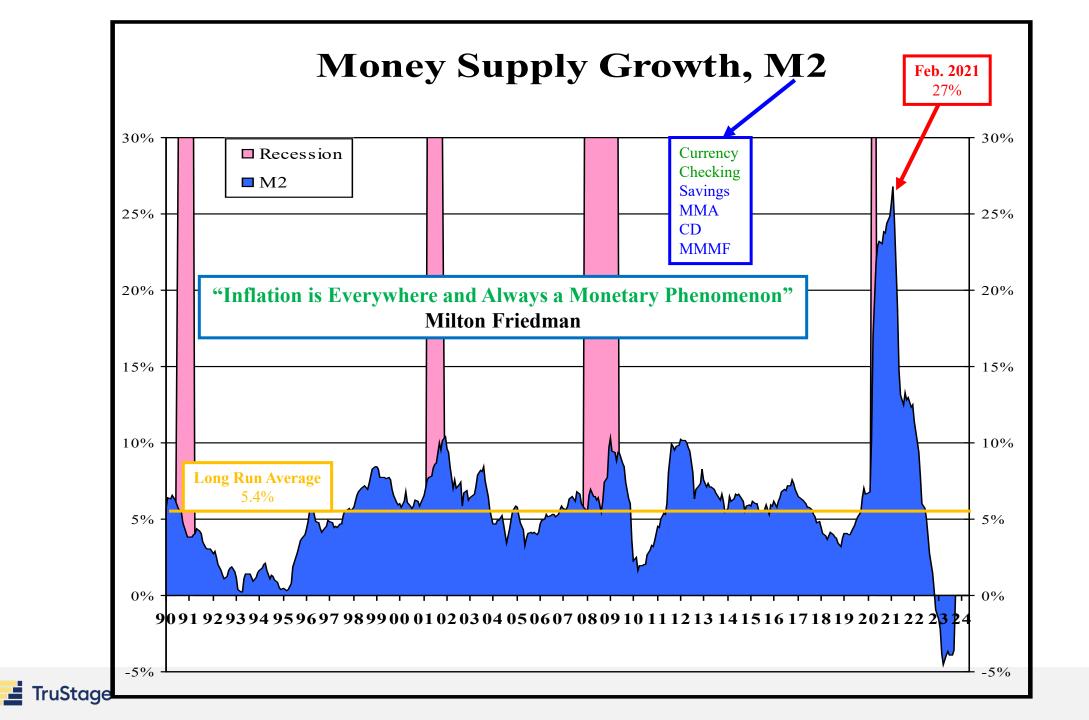


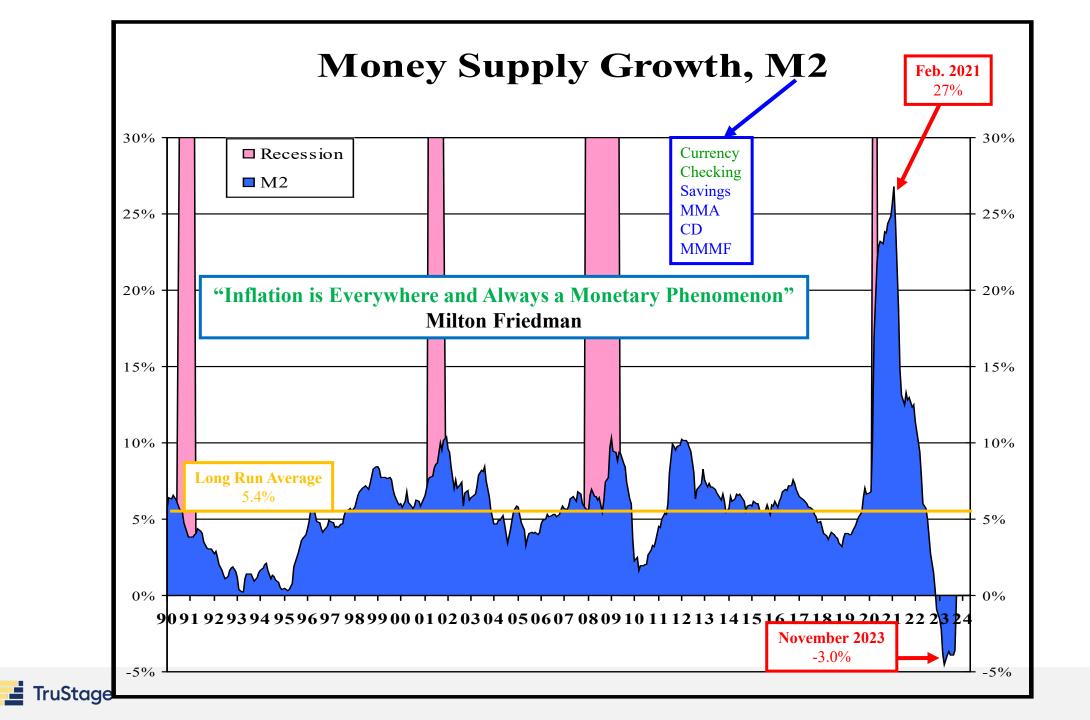


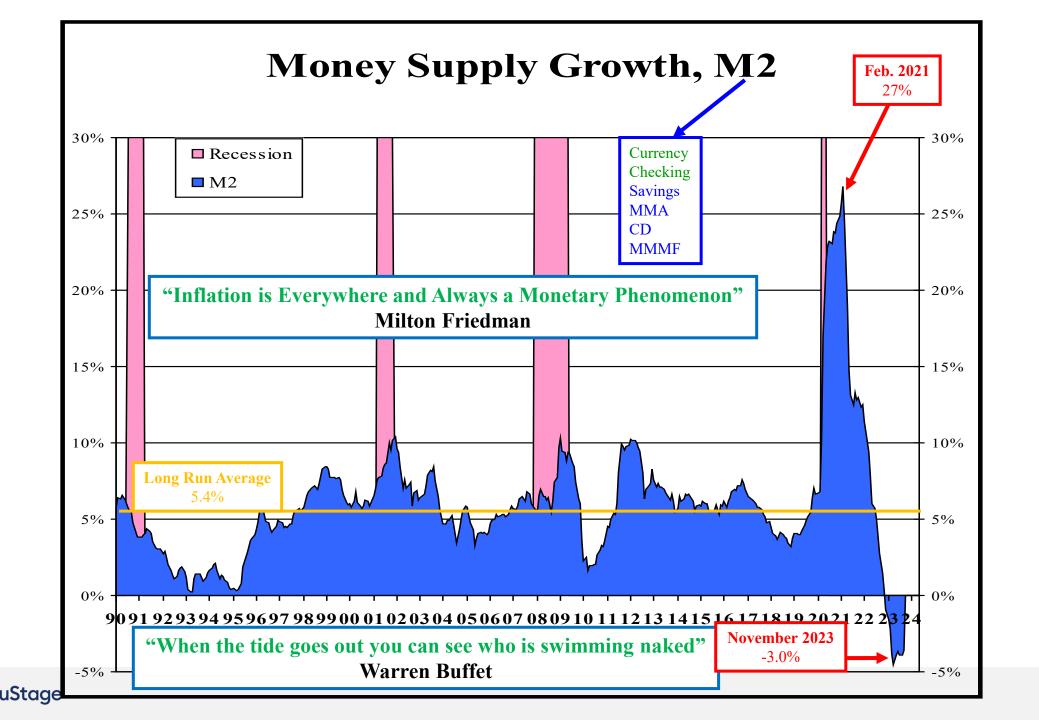


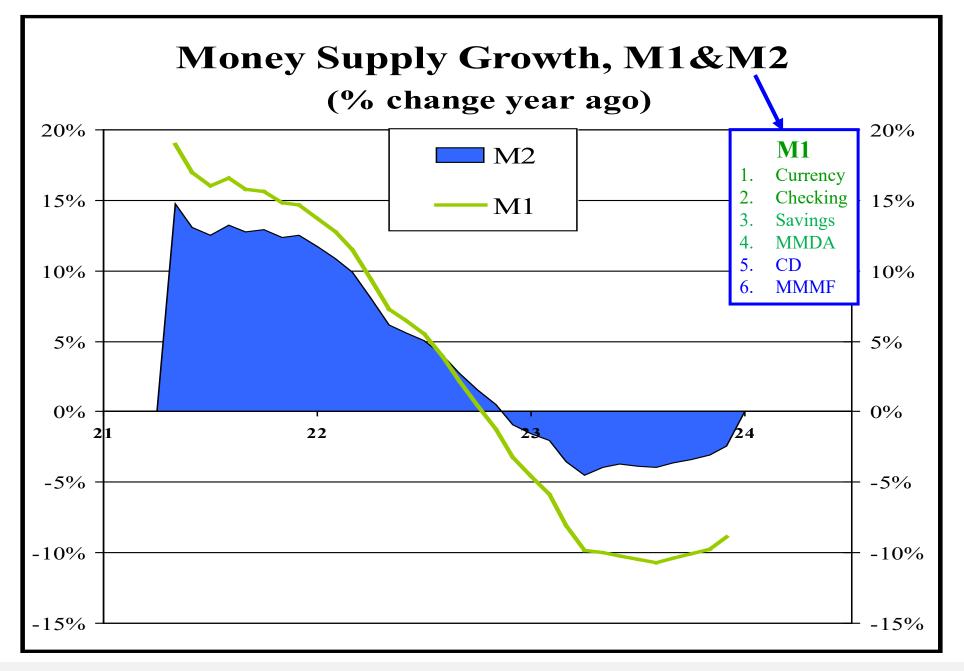




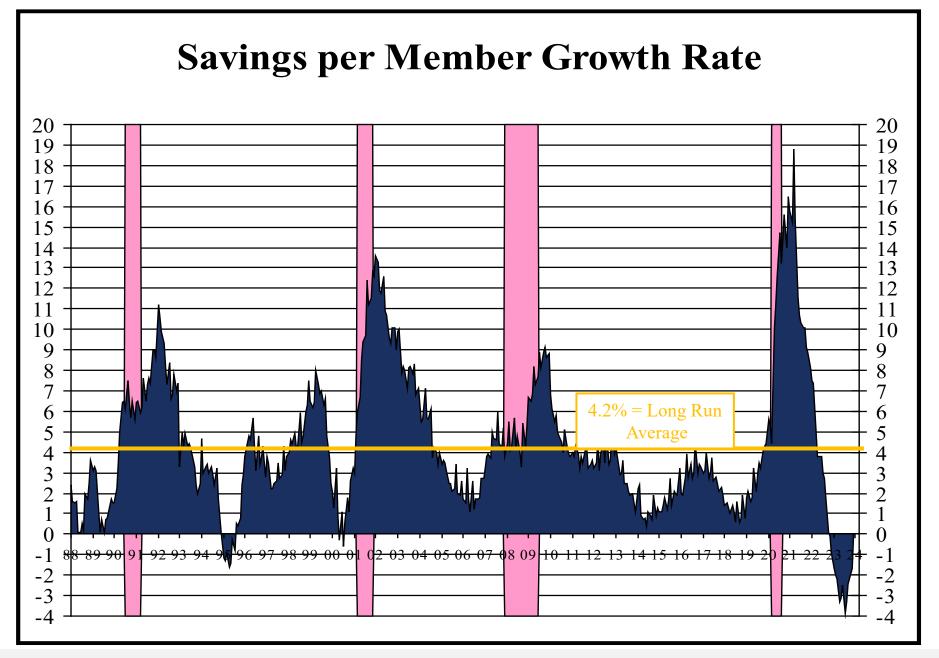




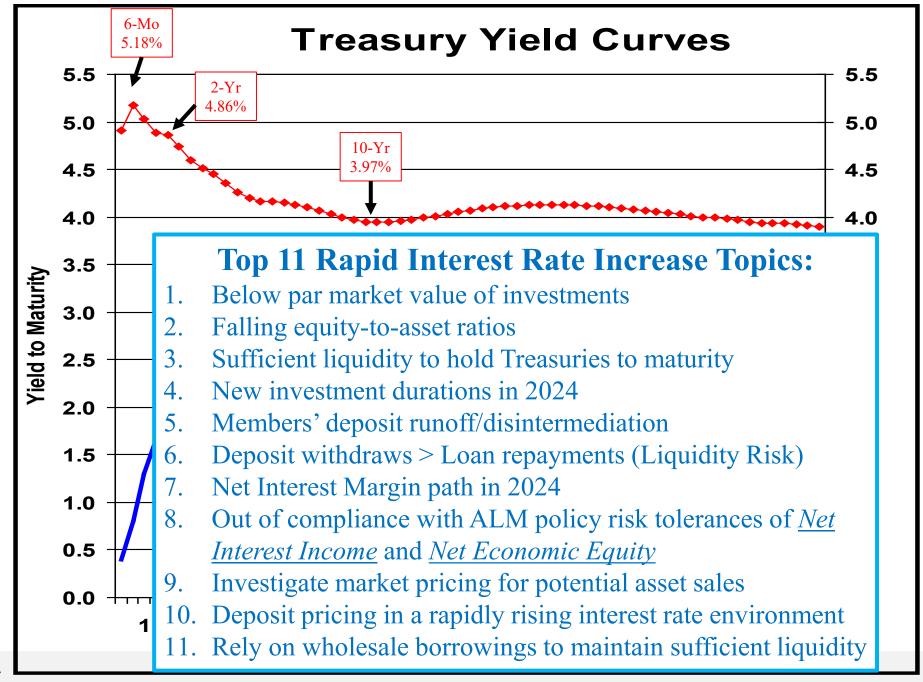
















Credit Union Balance Sheet Assets

Credit Union Balance Sheet Liabilities + Capital Assets



Ba

Assets

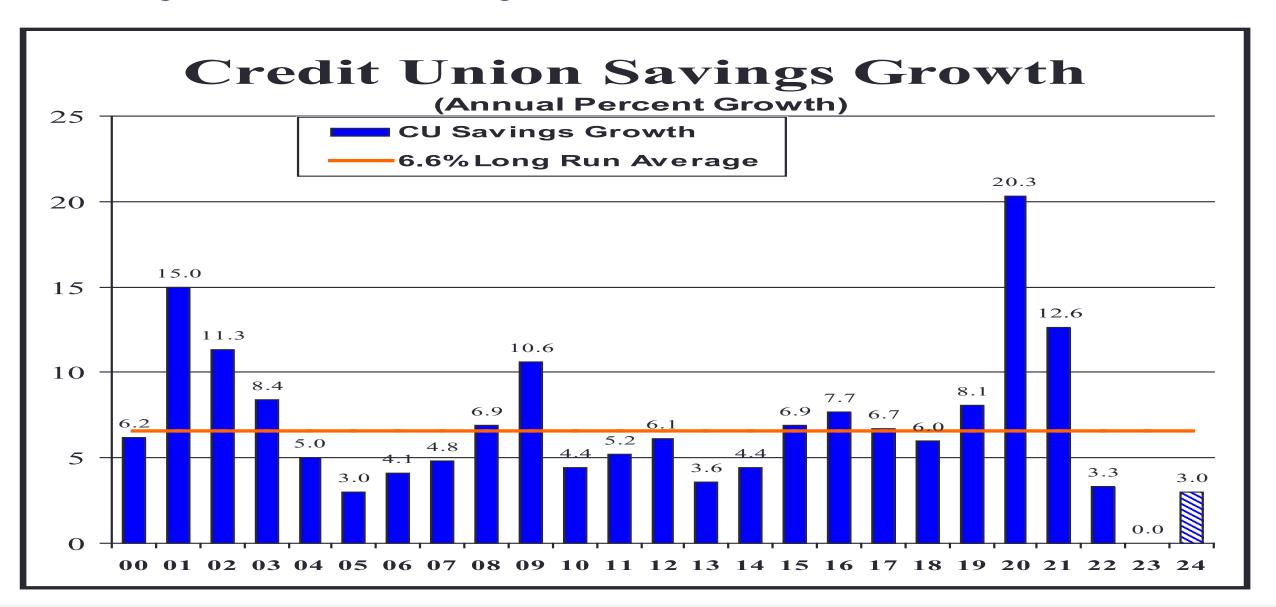
Credit Union Balance Sheet

Liabilities + Capital

Deposits

- Checking Accounts
- Savings
- Money Market Deposits
- Certificates of Deposits

Slowing Credit Union Savings Growth





Assets

Liabilities + Capital

Deposits

- Checking Accounts
- Savings
- Money Market Deposits
- Certificates of Deposits

Borrowings

- Federal Home Loan Bank
- Corporate Line of Credit
- Fed Funds Purchased
- Bank Term Funding Program



Assets

Liabilities + Capital

Deposits

- Checking Accounts
- Savings
- Money Market Deposits
- Certificates of Deposits

Borrowings

- Federal Home Loan Bank
- Corporate Line of Credit
- Fed Funds Purchased
- Bank Term Funding Program

- 1. Undivided Earnings
- 2. Regular Reserves
- 3. Gains (losses) on Available For Sale (AFS) Securities



Assets

Liabilities + Capital

Cash (Reserves)

Deposits

- Checking Accounts
- Savings
- Money Market Deposits
- Certificates of Deposits

Borrowings

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Assets

Liabilities + Capital

Cash (Reserves)

Fixed Assets

- Land
- Building
- Equipment

Deposits

- Checking Accounts
- Savings
- Money Market Deposits
- Certificates of Deposits

Borrowings

- Federal Home Loan Bank
- Corporate Line of Credit
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- 2. Regular Reserves
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Assets

Liabilities + Capital

Cash (Reserves)

Fixed Assets

- Land
- Building
- Equipment

Investments

- < 1 year maturity
- 1–3-year maturity
- > 3-year maturity

Deposits

- Checking Accounts
- Savings
- Money Market Deposits
- Certificates of Deposits

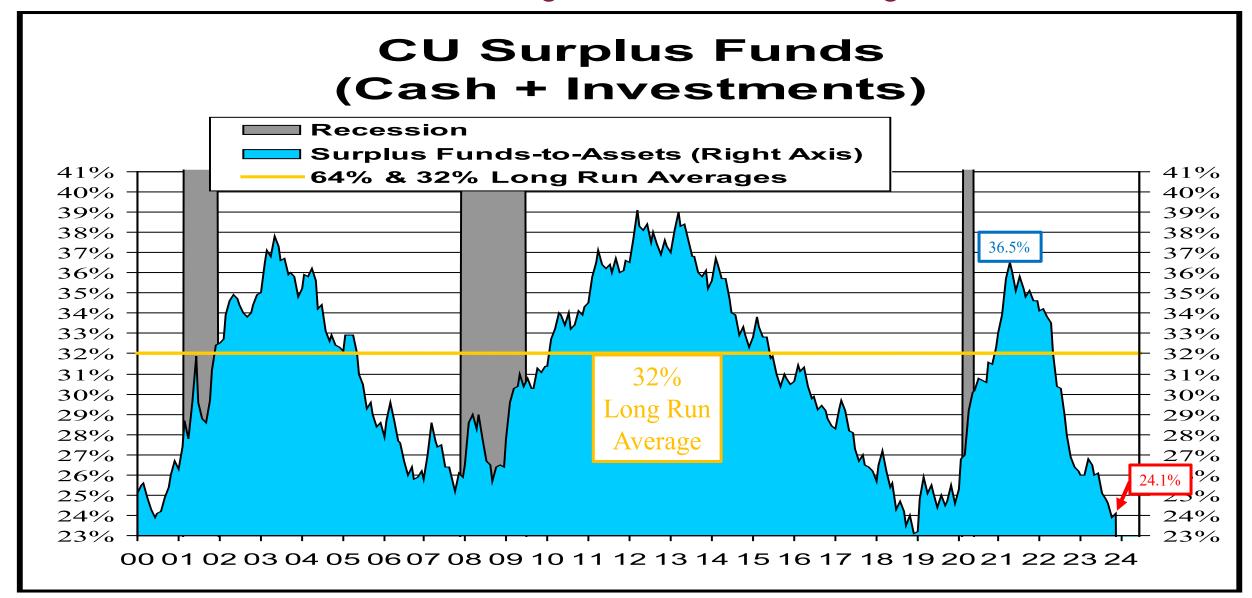
Borrowings

- Federal Home Loan Bank
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- Fed Funds Purchased
- Bank Term Funding Program

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Investments Are Falling and Yields Are Rising





Assets

Liabilities + Capital

Cash (Reserves)

Fixed Assets

- Land
- Building
- Equipment

Investments

- < 1 year maturity
- 1–3-year maturity
- > 3-year maturity

Loans

- Commercial
- Auto
- Home
- Credit Card

Deposits

- Checking Accounts
- Savings
- Money Market Deposits
- Certificates of Deposits

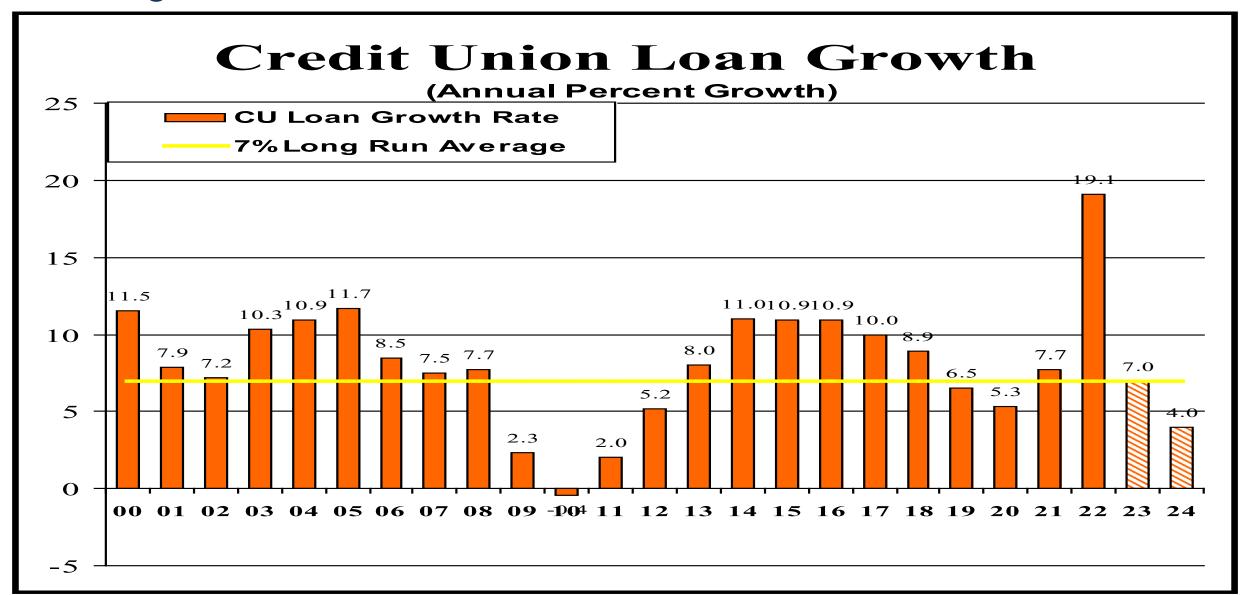
Borrowings

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- Corporate Line of Credit
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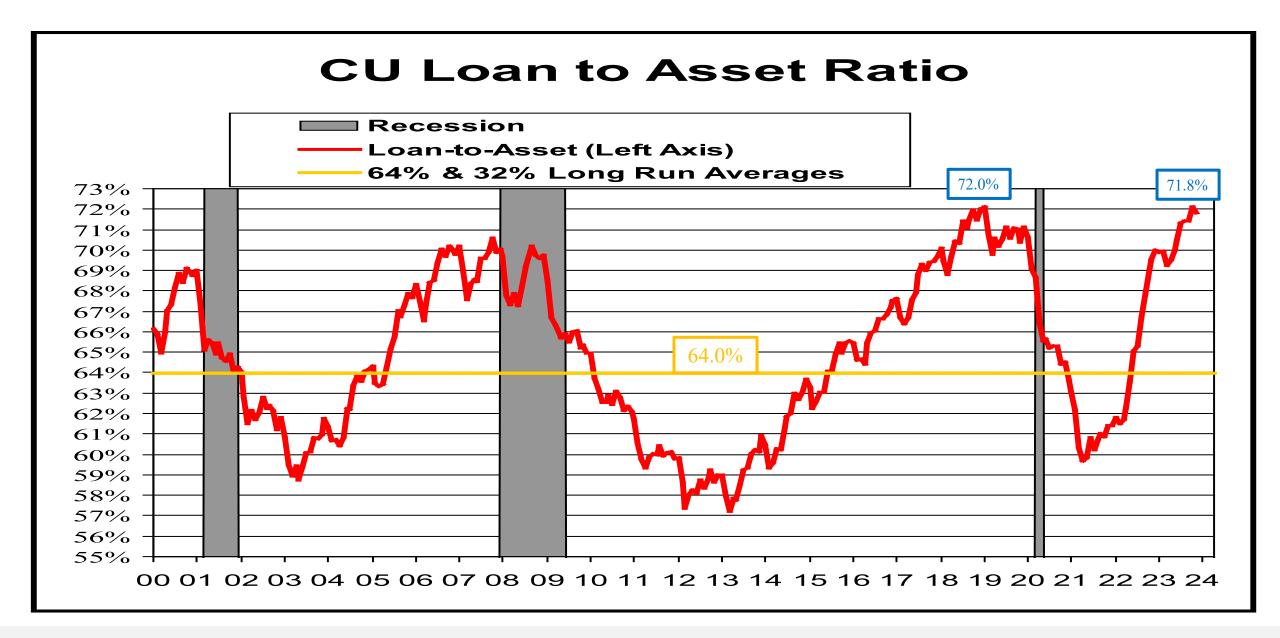
- 1. Undivided Earnings
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- 3. Gains (losses) on Available For Sale (AFS) Securities



Slowing Credit Union Loan Growth









Assets

Liabilities + Capital

Cash (Reserves)

Fixed Assets

- Land
- Building
- Equipment

Investments

- < 1 year maturity
- 1–3-year maturity
- > 3-year maturity

Loans

- Commercial
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- Home
- Credit Card

Deposits

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Assets

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Loans

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- Home
- Credit Card

Allowance for Loan Loss

Deposits

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Assets

Liabilities + Capital

Cash (Reserves)

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Allowance for Loan Loss

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Borrowings

- Federal Home Loan Bank
- Corporate Line of Credit
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Equity (Net Capital)

- 1. Undivided Earnings
- 2. Regular Reserves
- 3. Gains (losses) on Available For Sale (AFS) Securities



Assets

Liabilities + Capital

Cash (Reserves)

Fixed Assets

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Investments

- < 1 year maturity
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Allowance for Loan Loss

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Equity (Net Capital)

- 1. Undivided Earnings
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"Non progredi est regredi"

Assets

Liabilities + Capital

Cash (Reserves)

Fixed Assets

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Investments

- < 1 year maturity
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Allowance for Loan Loss

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Equity (Net Capital)

- 1. Undivided Earnings
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"Non progredi est regredi"

To not go forward is to go backward

\$



Assets

Liabilities + Capital

Cash (Reserves)

Fixed Assets

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Investments

- < 1 year maturity
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Allowance for Loan Loss

Deposits

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Borrowings

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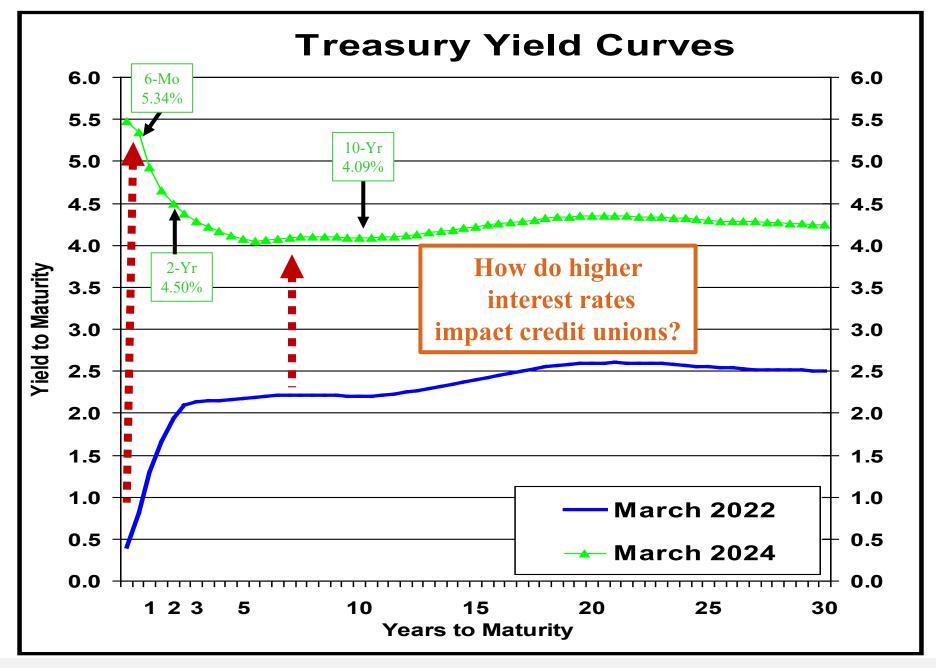
Equity (Net Capital)

- 1. Undivided Earnings
- 2. Regular Reserves
- 3. Gains (losses) on Available For Sale (AFS) Securities

"Non progredi est regredi"

To not go forward is to go backward

If you're not growing, you're dying





Assets

Liabilities + Capital

How do higher interest rates impact credit unions?

Cash (Reserves)

Fixed Assets

- Land
- Building
- Equipment

Investments

- < 1 year maturity
- 1–3-year maturity
- > 3-year maturity

Loans

- Commercial
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- Home
- Credit Card

Allowance for Loan Loss

Deposits

- Checking Accounts
- Savings
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- Certificates of Deposits

Borrowings

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- Corporate Line of Credit
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Equity (Net Capital)

- 1. Undivided Earnings
- 2. Regular Reserves
- 3. Gains (losses) on Available For Sale (AFS) Securities



Assets

Liabilities + Capital

↑ interest rates => ↓ Bond Prices



1. Below par market value of investments

Cash (Reserves)

Fixed Assets

- Land
- Building
- Equipment

Investments

- < 1 year maturity
- 1–3-year maturity
- > 3-year maturity

Loans

- Commercial
- Auto
- Home
- Credit Card

Allowance for Loan Loss

Deposits

- Checking Accounts
- Savings
- Money Market Deposits
- Certificates of Deposits

Borrowings

- Federal Home Loan Bank
- Corporate Line of Credit
- Fed Funds Purchased
- Bank Term Funding Program

Equity (Net Capital)

- 1. Undivided Earnings
- 2. Regular Reserves
- 3. Gains (losses) on Available For Sale (AFS) Securities



Assets

Liabilities + Capital

Cash (Reserves)

Fixed Assets

- Land
- Building
- Equipment

Investments

- < 1 year maturity
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Loans

- Commercial
- Auto
- Home
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Allowance for Loan Loss

Deposits

- Checking Accounts
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Borrowings

- Federal Home Loan Bank
- Corporate Line of Credit
- Fed Funds Purchased
- Bank Term Funding Program

Equity (Net Capital)

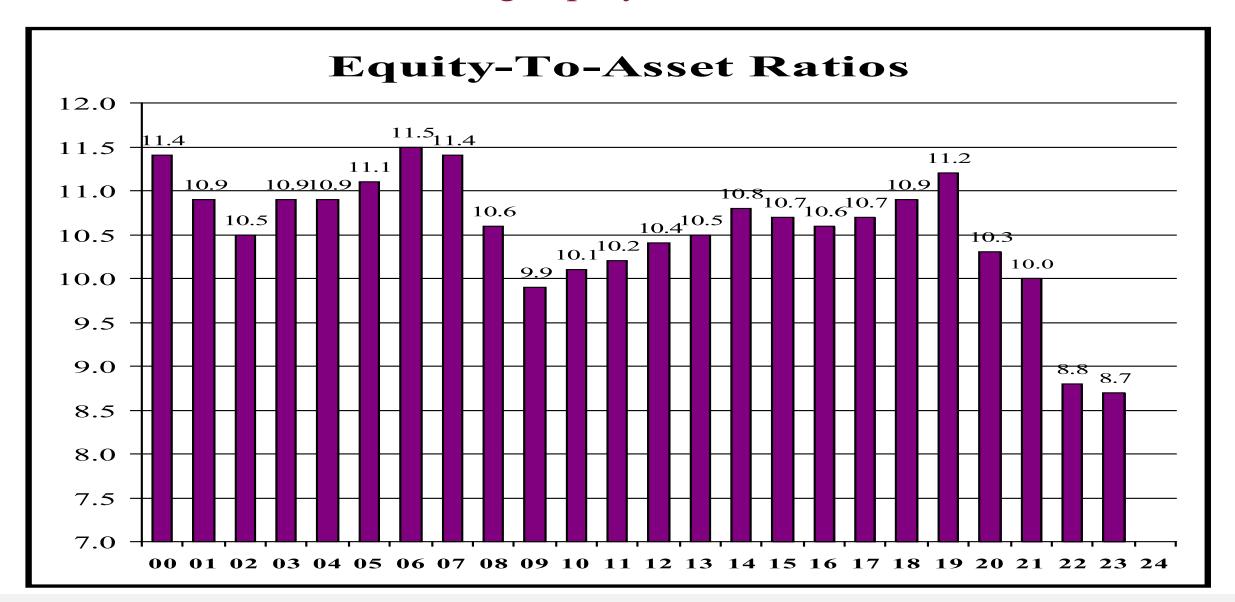
- **Undivided Earnings**
- Regular Reserves
- Gains (losses) on Available For Sale (AFS) Securities



2. Falling equity-to-asset ratios

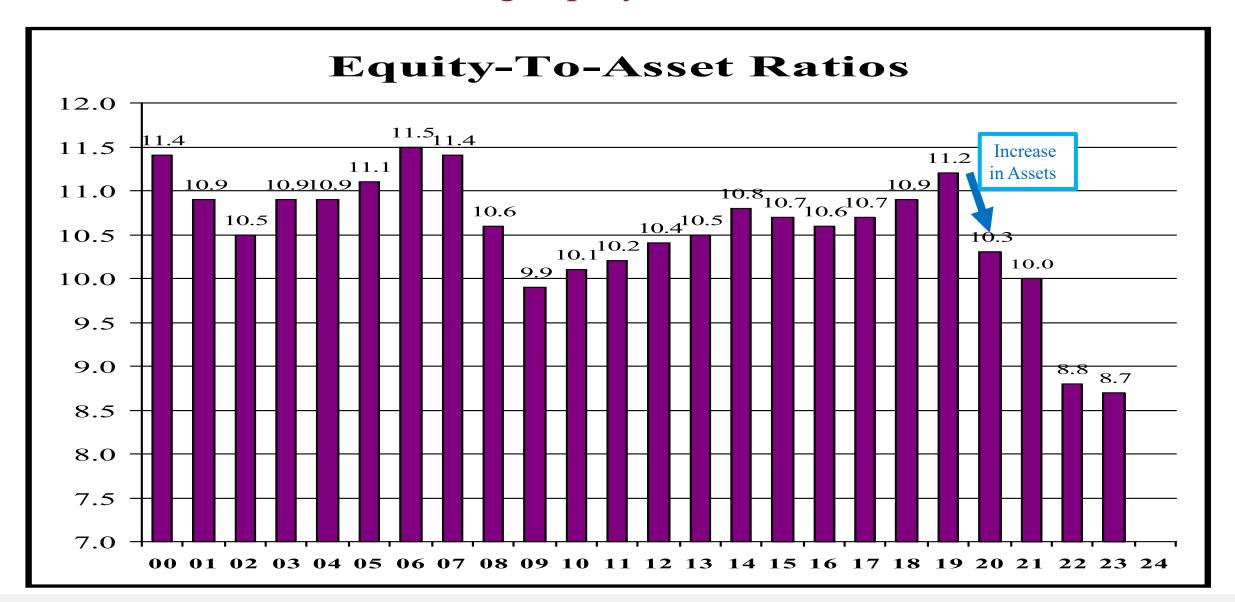
1. Below par market value of investments

Falling Equity Ratios



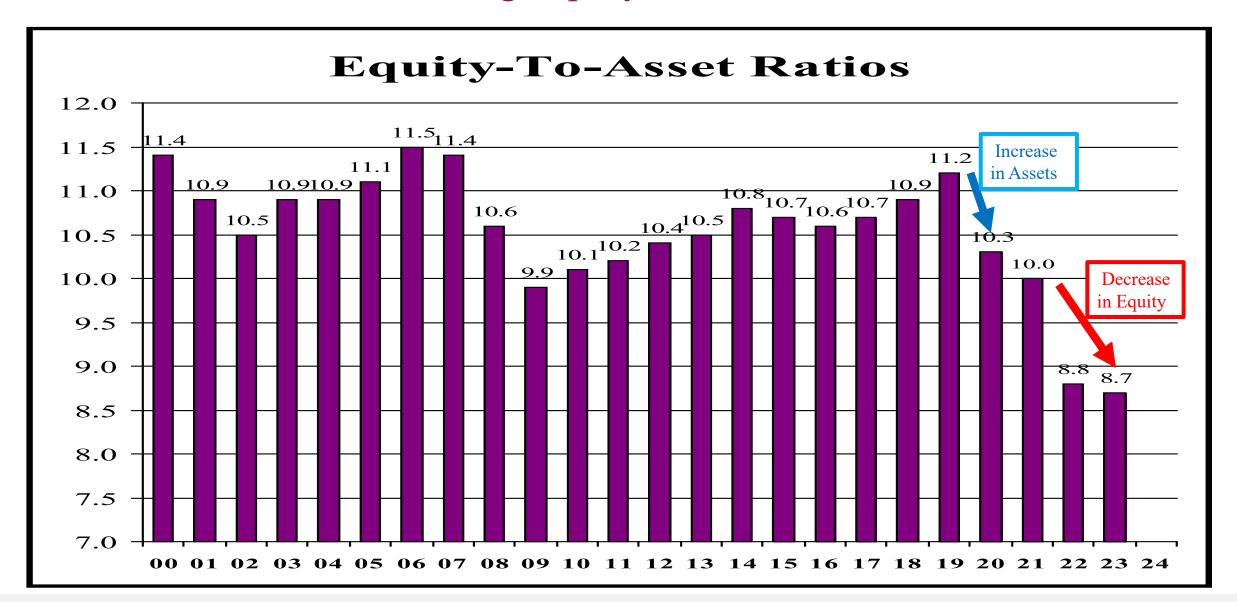


Falling Equity Ratios

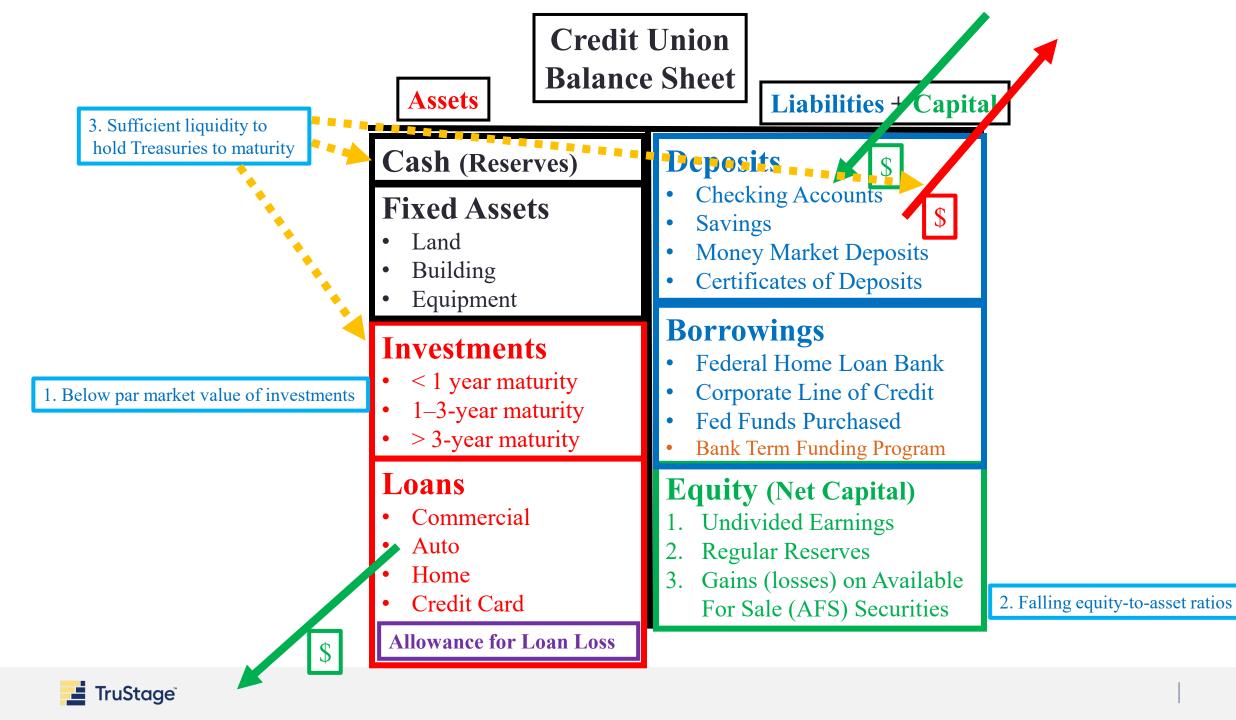




Falling Equity Ratios







Liabilities + Capital

3. Sufficient liquidity to hold Treasuries to maturity

1. Below par market value of investments

4. New investment maturities in 2024

Cash (Reserves)

Fixed Assets

- Land
- Building

Assets

• Equipment

Investments

- < 1 year maturity
- 1–3-year maturity
- > 3-year maturity

Loans

- Commercial
- Auto
- Home
- Credit Card

Allowance for Loan Loss

Deposits

- Checking Accounts
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- Money Market Deposits
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Borrowings

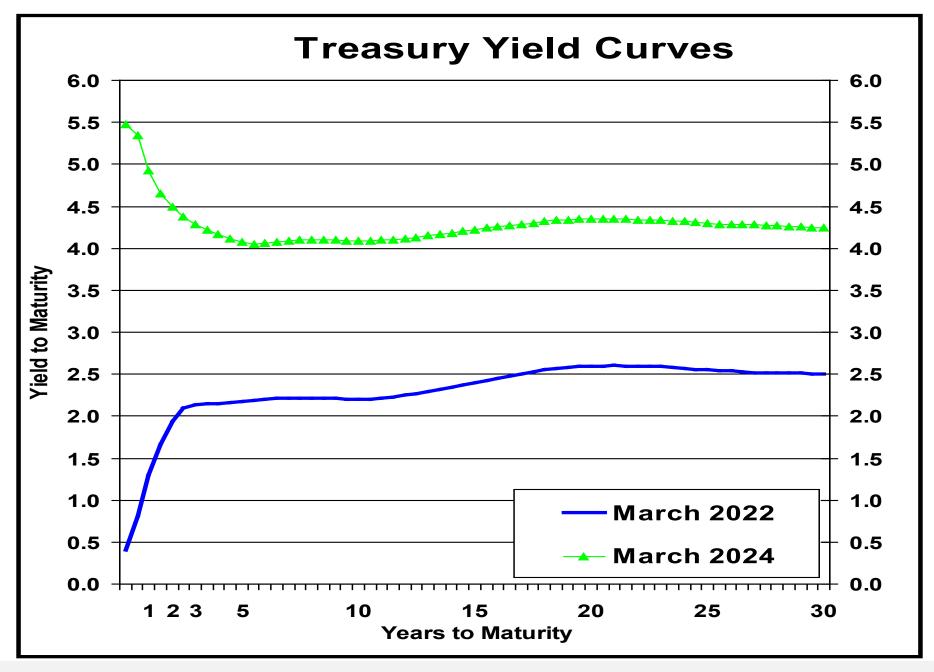
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Equity (Net Capital)

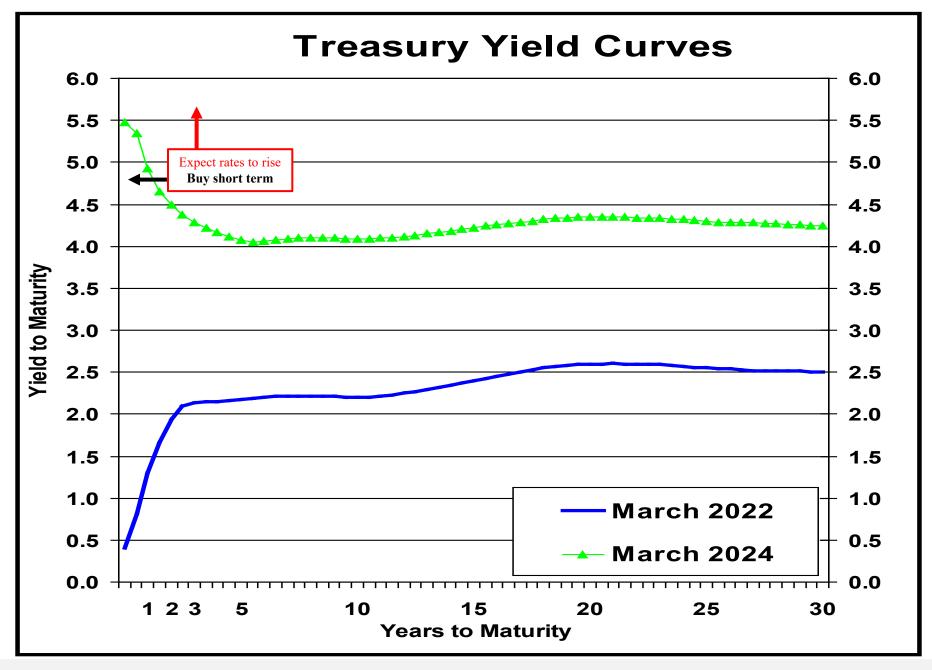
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2. Falling equity-to-asset ratios

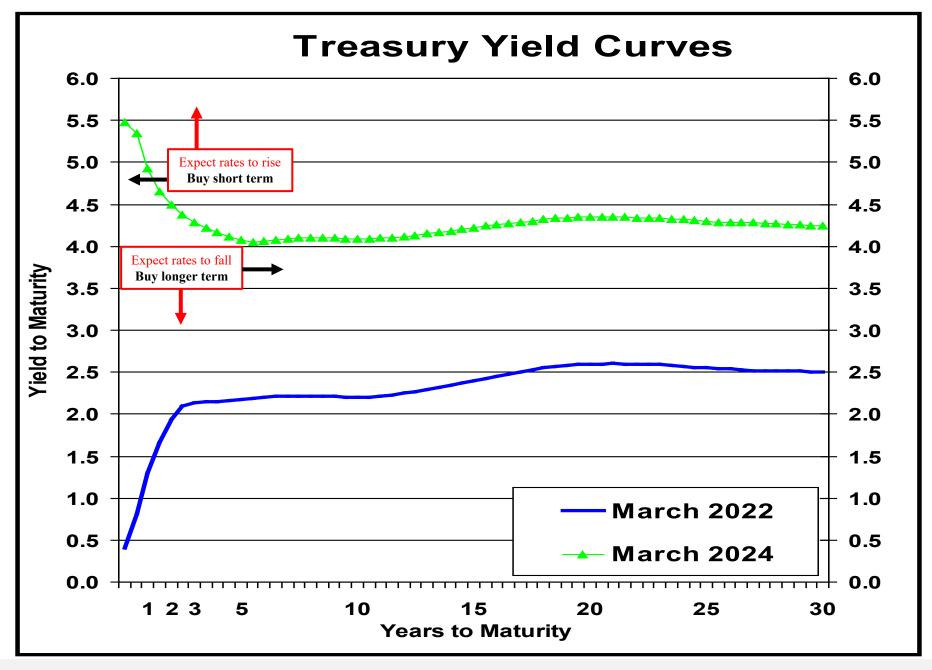
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Liabilities + Capital

3. Sufficient liquidity to hold Treasuries to maturity

1. Below par market value of investments

4. New investment maturities in 2024

Cash (Reserves)

Fixed Assets

- Land
- Building
- Equipment

Assets

Investments

- < 1 year maturity
- 1–3-year maturity
- > 3-year maturity

Loans

- Commercial
- Auto
- Home
- Credit Card

Allowance for Loan Loss

Deposits

- Checking Accounts
- Savings
- Money Market Deposits
- Certificates of Deposits

Borrowings

- Federal Home Loan Bank
- Corporate Line of Credit
- Fed Funds Purchased
- Bank Term Funding Program

Equity (Net Capital)

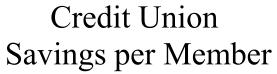
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- 2. Regular Reserves
- 3. Gains (losses) on Available For Sale (AFS) Securities

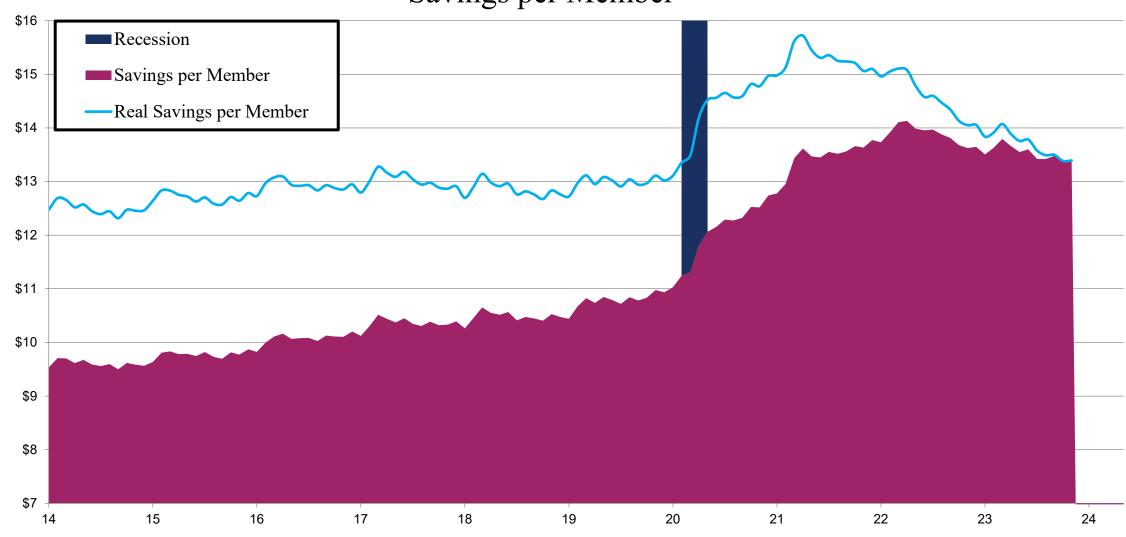
5. Members' deposit runoff/disintermediation



2. Falling equity-to-asset ratios

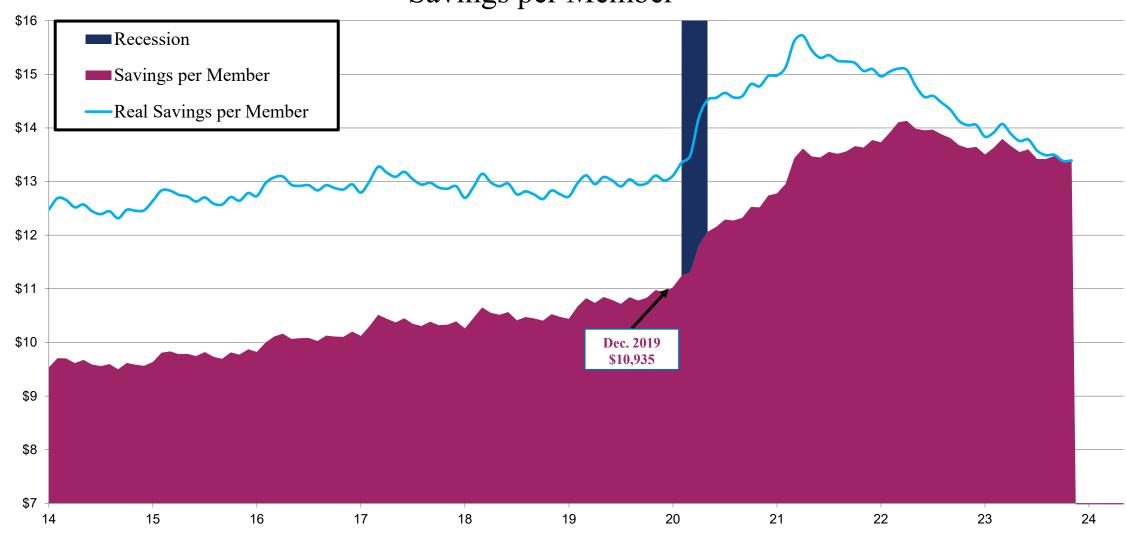






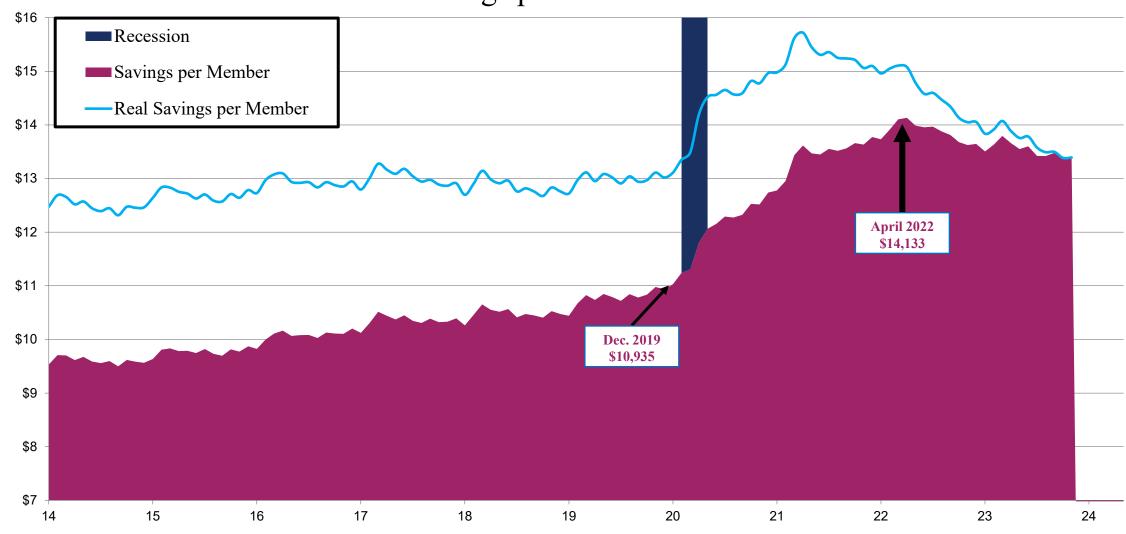


Credit Union Savings per Member



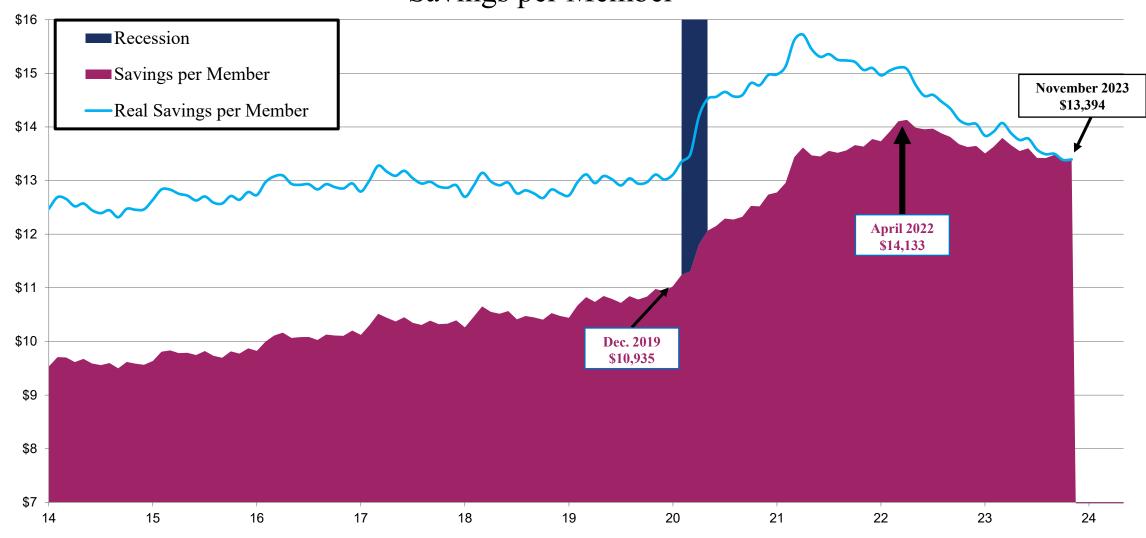


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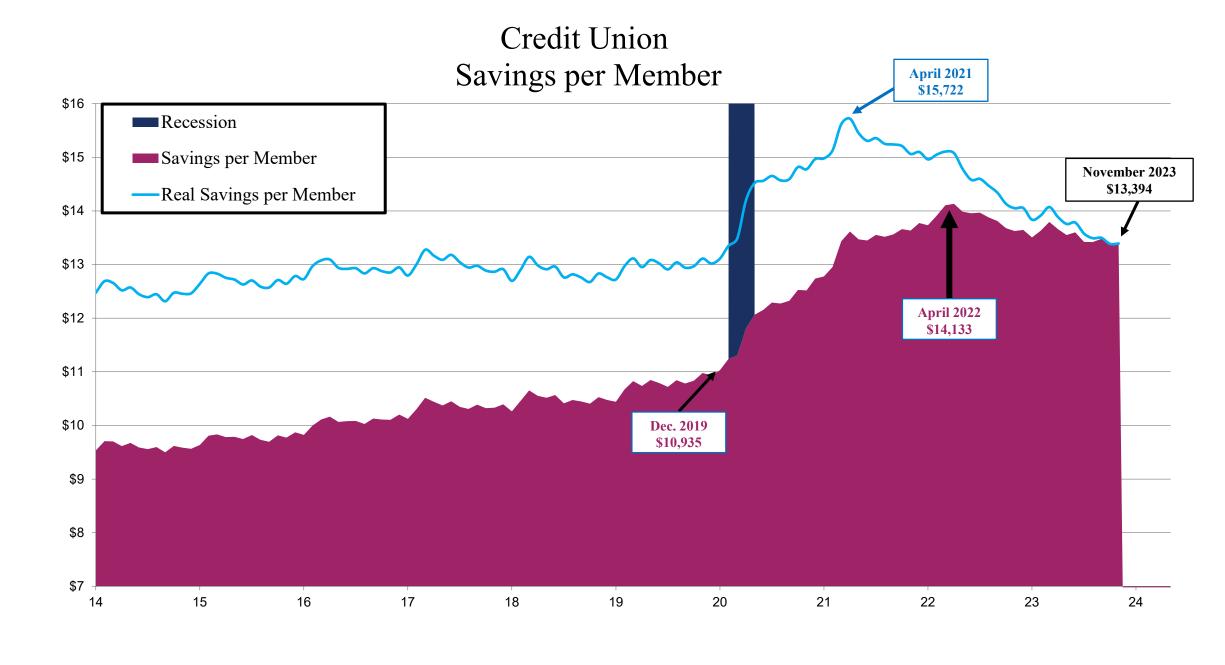




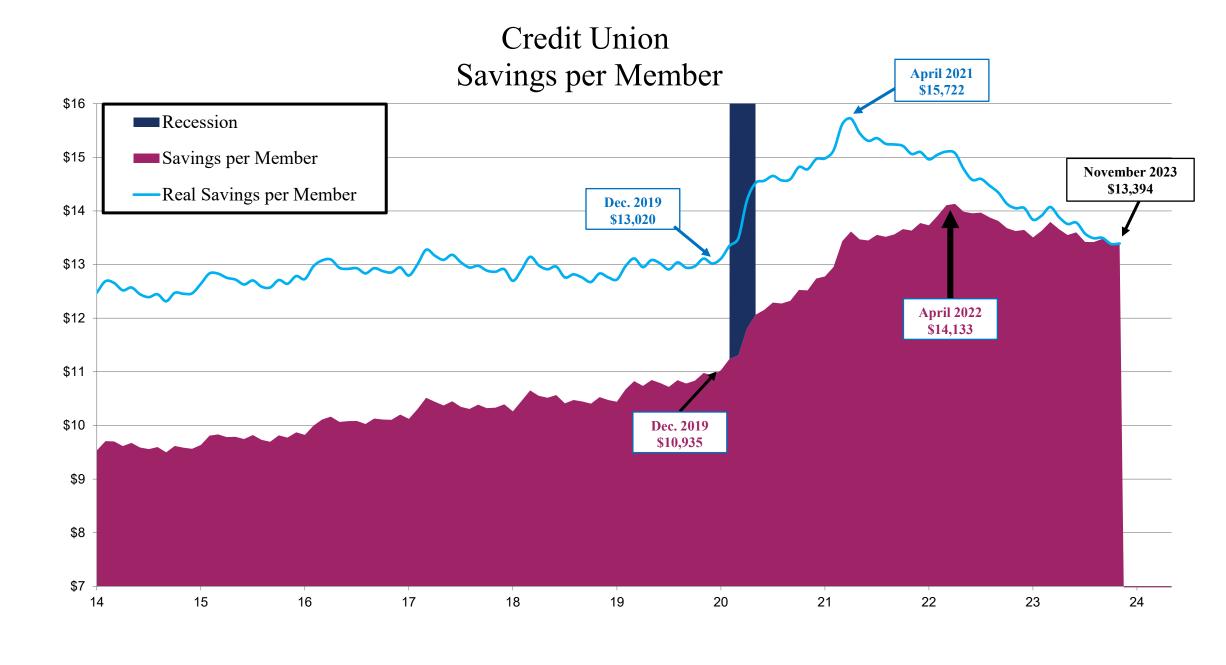
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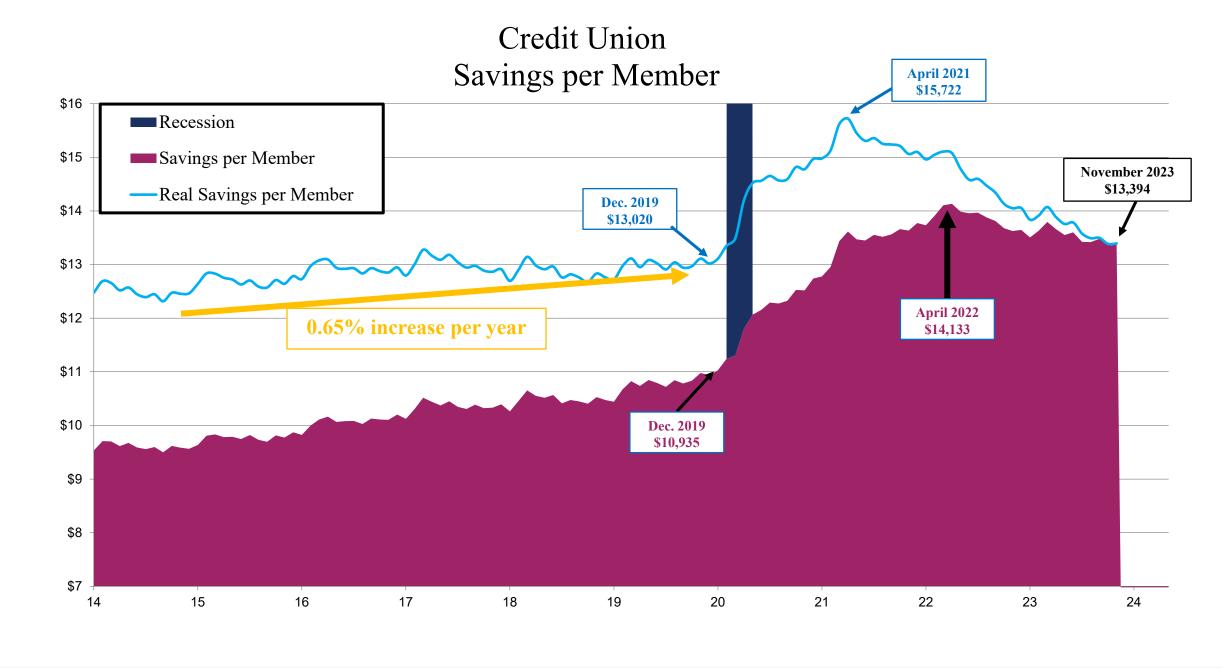




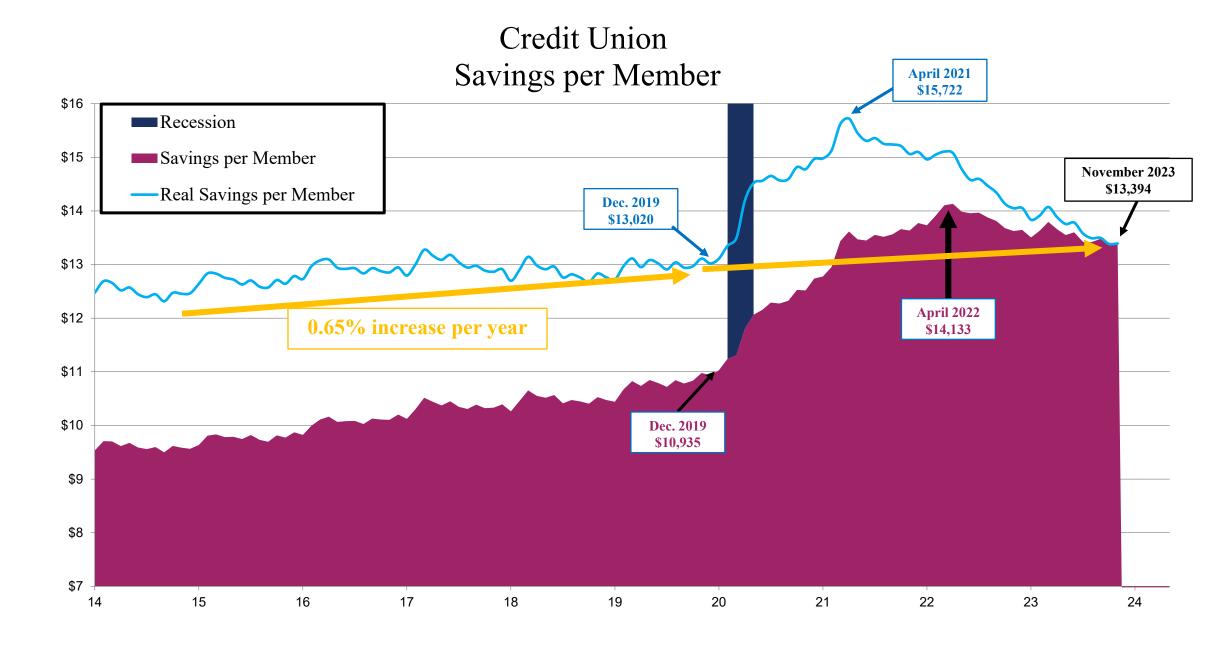
















Liabilities + Capica

3. Sufficient liquidity to hold Treasuries to maturity

. Below par market value of investments

6. Deposit withdraws > Loan repayments

(Liquidity Risk)

4. New investment Maturities in 2024

Cash (Reserves)

Fixed Assets

- Land
- Building

Assets

• Equipment

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TruStage

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Short Run vs Long Run

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Time

(the 4th dimension)

Short Run vs Long Run

How long it takes for financial instrument interest rates to reprice to current market rates

2. Falling equity-to-asset ratios

\$





Assets

Balance Sheet

Liabilities + Capital

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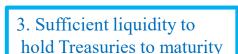
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■ TruStage



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9. Investigate market pricing

for potential asset sales



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8. Out of compliance with **ALM policy** risk tolerances of Net Interest Income and Net Economic Equity **Balance Sheet**

Liabilities + Capita

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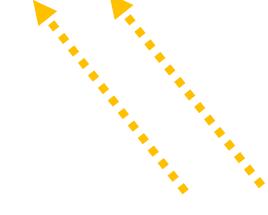
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- 5. Members' deposit runoff/disintermediation
- 10. Deposit pricing in a rapidly rising interest rate environment

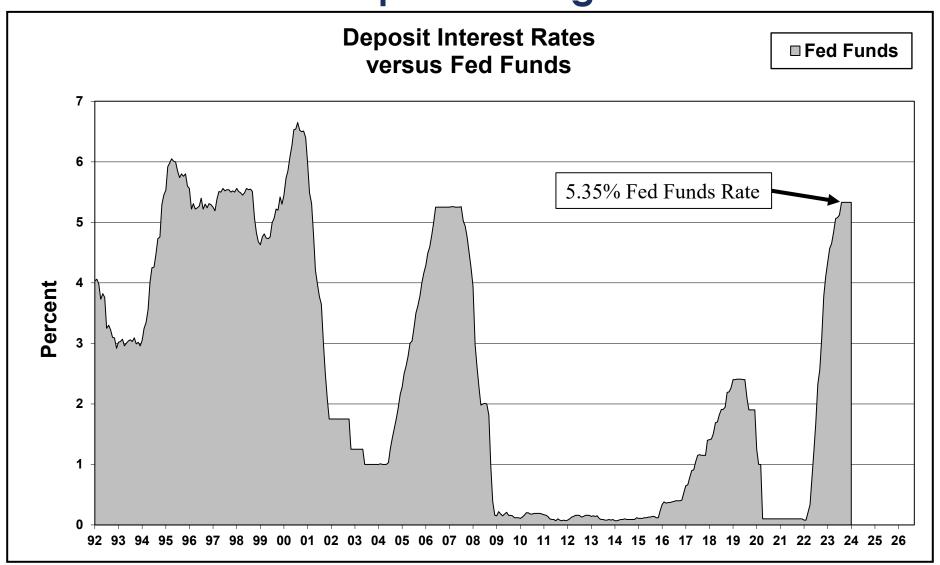


2. Falling equity-to-asset ratios



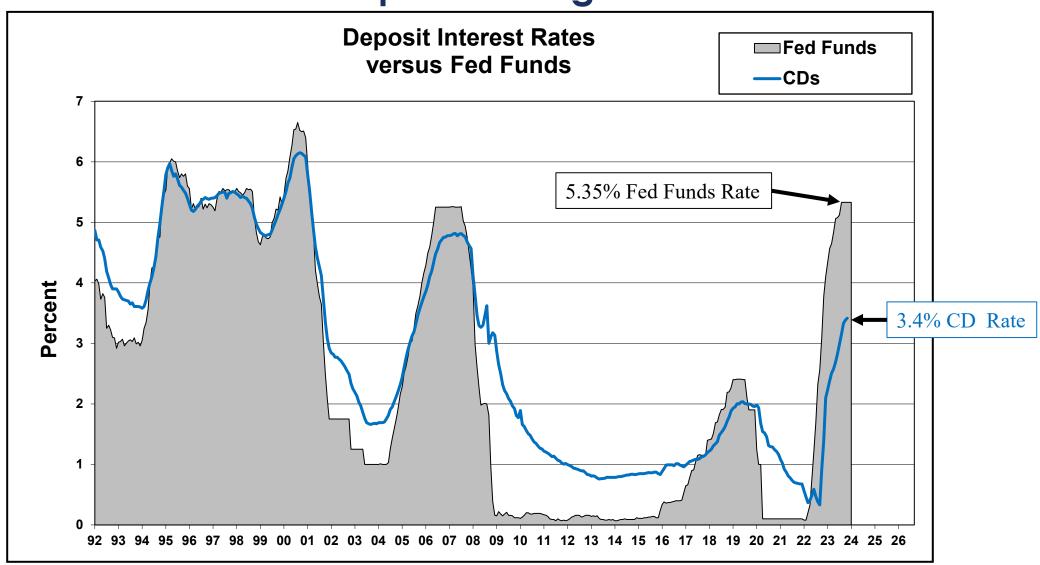


Rising Fed Funds Interest Rate and Deposit Pricing



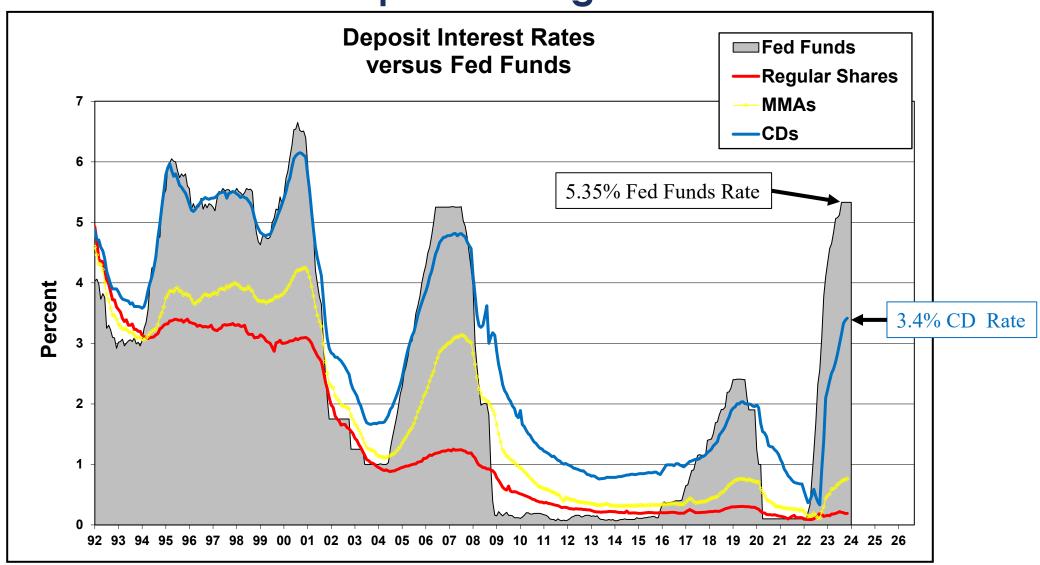


Rising Fed Funds Interest Rate and Deposit Pricing

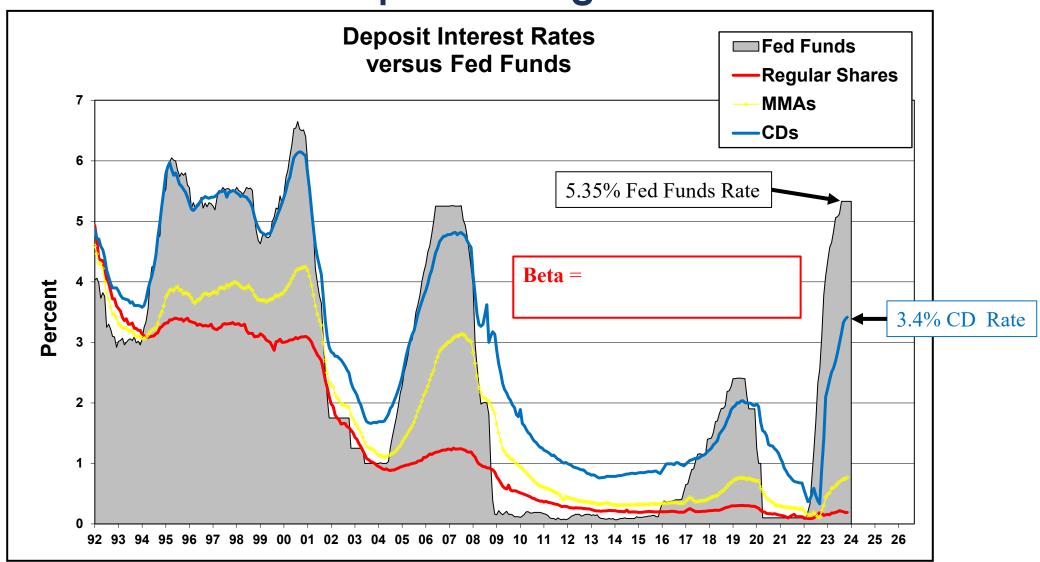




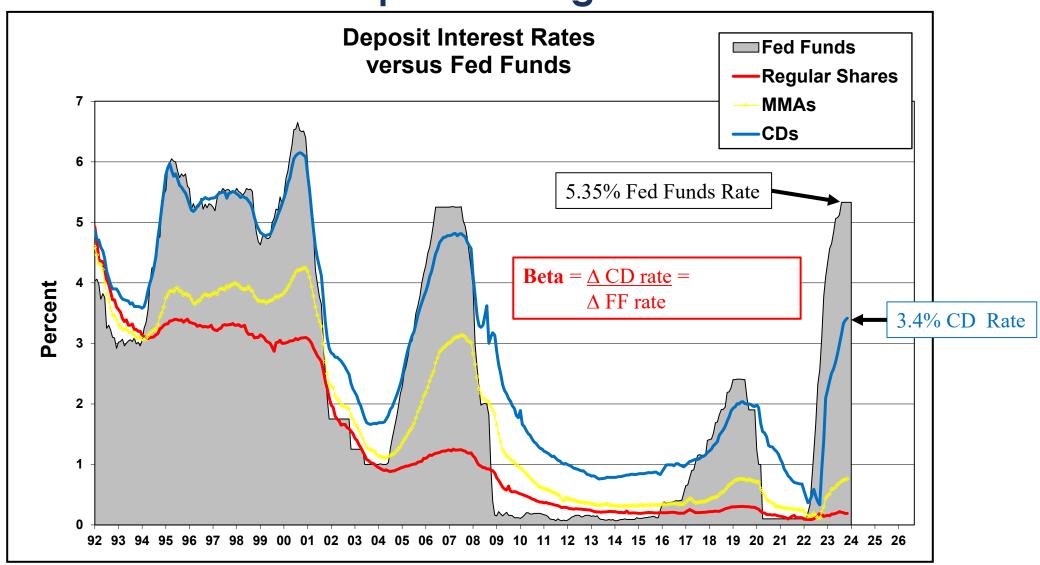
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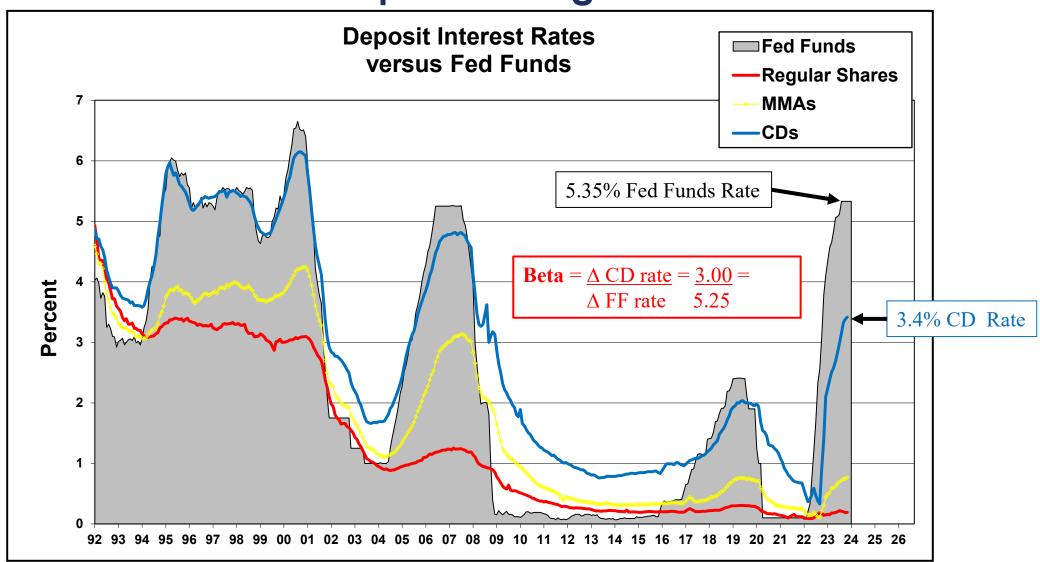




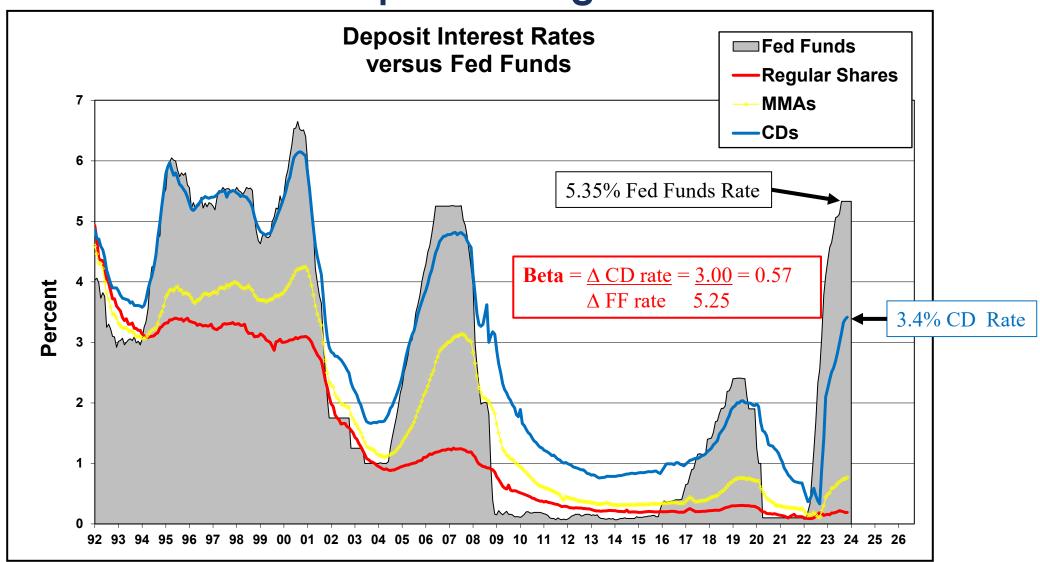














3. Sufficient liquidity to hold Treasuries to maturity

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(Liquidity Risk)

4. New investment Maturities in 2024

for potential asset sales

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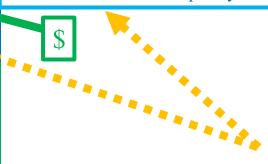
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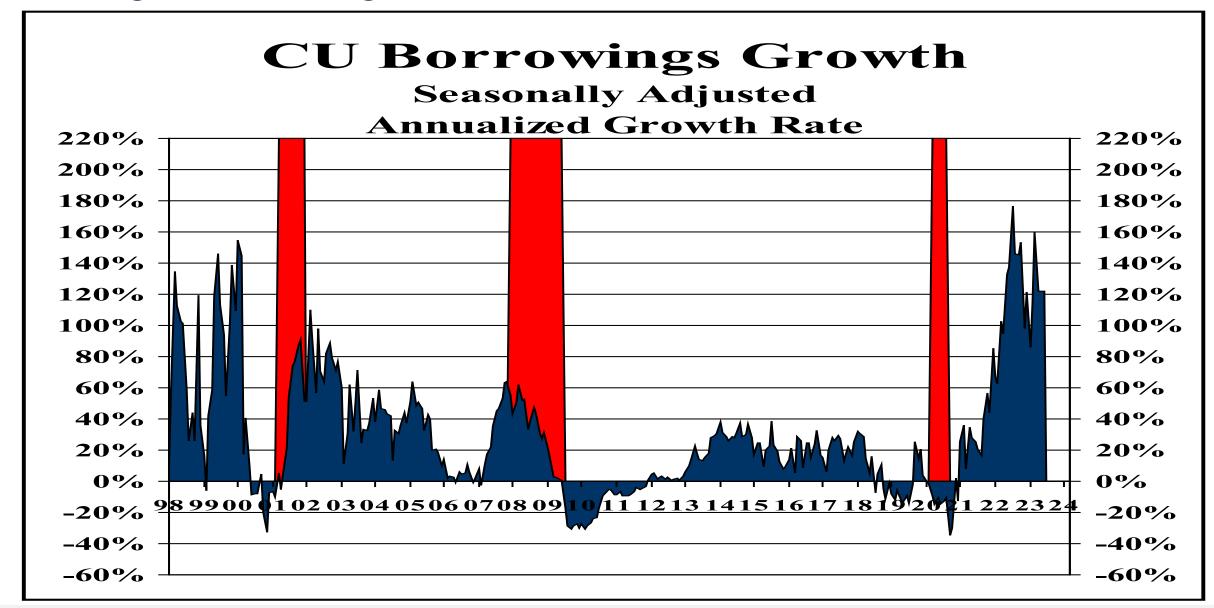
- 5. Members' deposit runoff/disintermediation
- 10. Deposit pricing in a rapidly rising interest rate environment
- 11. Rely on wholesale borrowings to maintain sufficient liquidity



2. Falling equity-to-asset ratios

\$

Resurgent Borrowings





There once was a credit union that had quite a scare



There once was a credit union that had quite a scare For their liquidity seemed quite rare



There once was a credit union that had quite a scare For their liquidity seemed quite rare But with some quick loans



There once was a credit union that had quite a scare For their liquidity seemed quite rare But with some quick loans And more cash in their bones



There once was a credit union that had quite a scare For their liquidity seemed quite rare But with some quick loans And more cash in their bones

They managed to keep their head above the despair.





1. Slow economic growth for the next year



- 1. Slow economic growth for the next year
- 2. Falling inflation rate during the next 2 years



- 1. Slow economic growth for the next year
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- 3. Unemployment rate rising to natural rate in 2024



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- 5. Credit union loan growth slowing in 2024



- 1. Slow economic growth for the next year
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- 3. Unemployment rate rising to natural rate in 2024
- 4. Short-term interest rates above long-term interest rates into 2024
- 5. Credit union loan growth slowing in 2024
- 6. Mortgage originations rising 15% as interest rates fall 1 percentage point

Economic Forecast January 2024

	Past results		Actual/Forecasts						
	Previous 10 Yr. Avg	2022	2023 Q1	2023 Q2	2023 Q3	2023Q4	2023	2024	
Growth rates:									
Economic Growth (% chg GDP)*	2.10%	2.10%	2.0%	2.4%	4.9%	2.0%	2.5%	1.5%	
Inflation (CPI, 12 mth % chg)	2.20%	6.50%	5.0%	3.1%	3.7%	3.4%	3.4%	2.5%	
Unemployment Rate (BLS)	6.00%	3.50%	3.5%	3.6%	3.8%	3.7%	3.7%	4.3%	
Federal Funds Rate (effective)	0.58%	4.33%	4.83%	5.08%	5.33%	5.33%	5.33%	4.50%	
10-Year Treasury Rate	2.11%	3.88%	3.48%	3.81%	4.59%	3.88%	3.88%	4.25%	
10-Year-Fed Funds Spread	1.53%	-0.45%	-1.35%	-1.27%	-0.77%	-1.45%	-1.45%	-0.25%	

^{*}Percent change, annual rate. All other numbers are end-of-period values.

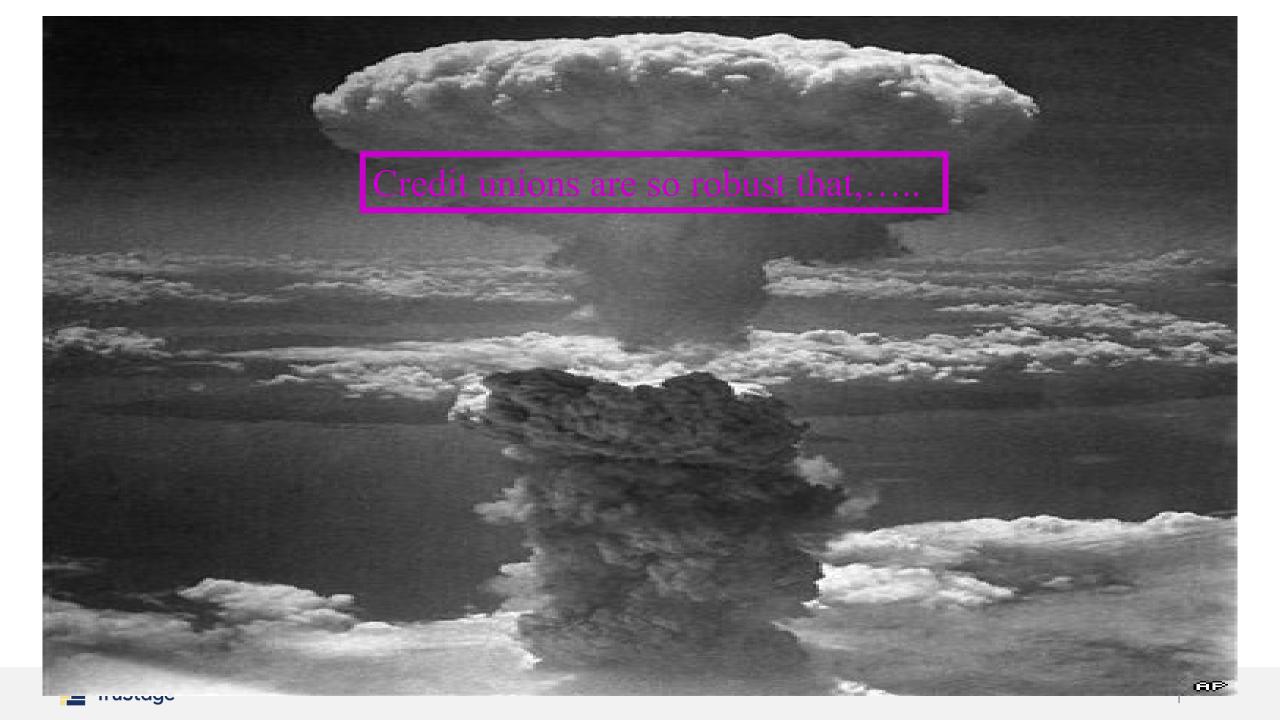


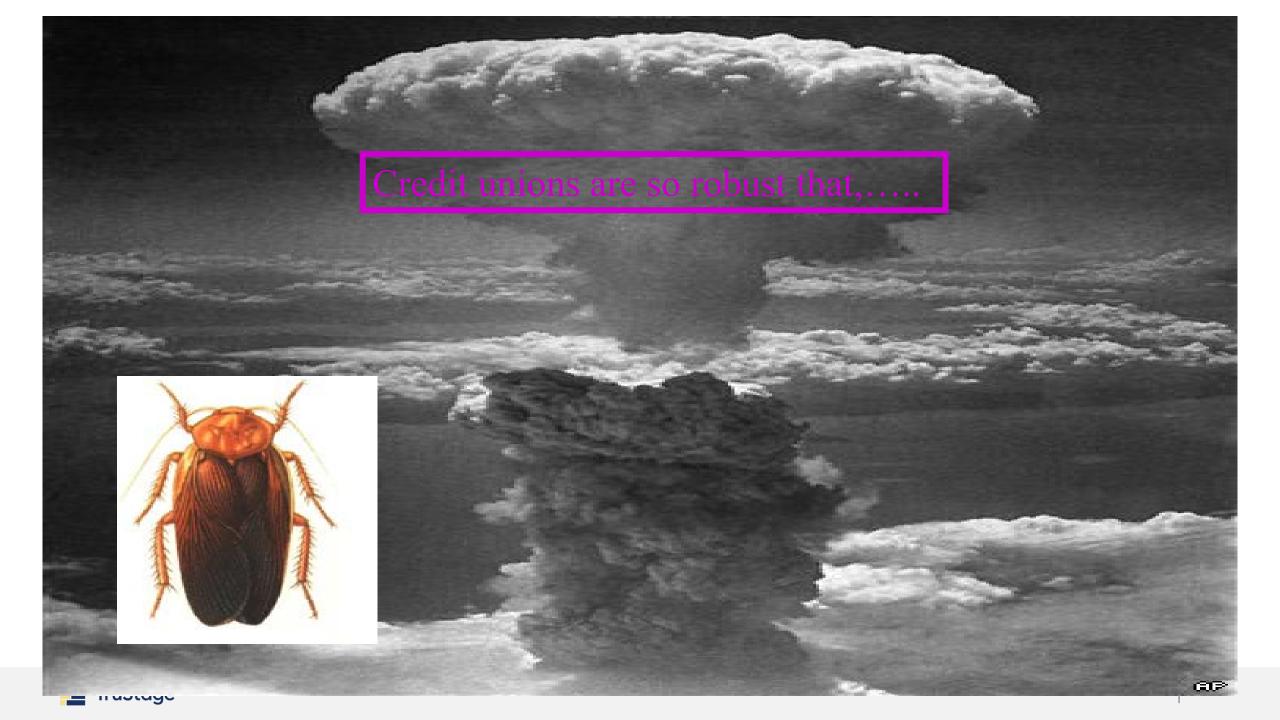
	Past Results			Actual/	Annual forecasts			
	10 Yr Average	2022	2023 Q1	2023 Q2	2023 Q4	2023 Q4	2023	2024
Growth rates:								
Savings growth	7.7%	3.3%	2.3%	-0.5%	-0.1%	-0.7%	1.0%	3.0%
Loan growth	9.2%	19.1%	1.7%	2.2%	1.8%	1.3%	7.0%	4.0%
Asset growth	7.7%	5.1%	2.0%	0.3%	0.5%	1.2%	4.0%	4.0%
Membership growth	3.55%	4.3%	1.2%	1.0%	0.8%	0.3%	3.3%	2.5%
Liquidity:								
Loan-to-share ratio**	79.5%	81.5%	80.9%	83.1%	84.9%	86.6%	86.6%	88.1%
Asset quality:								
Delinquency rate**	0.66%	0.61%	0.52%	0.63%	0.72%	0.80%	0.80%	0.90%
Net charge-off rate*	0.48%	0.34%	0.52%	0.54%	0.61%	0.55%	0.60%	0.65%
Earnings:								
Return on average assets (ROA)*	0.88%	0.88%	0.81%	0.77%	0.67%	0.65%	0.73%	0.50%
Capital adequacy:								
Net worth ratio**	10.9%	10.8%	10.8%	10.9%	11.0%	11.4%	11.1%	11.1%

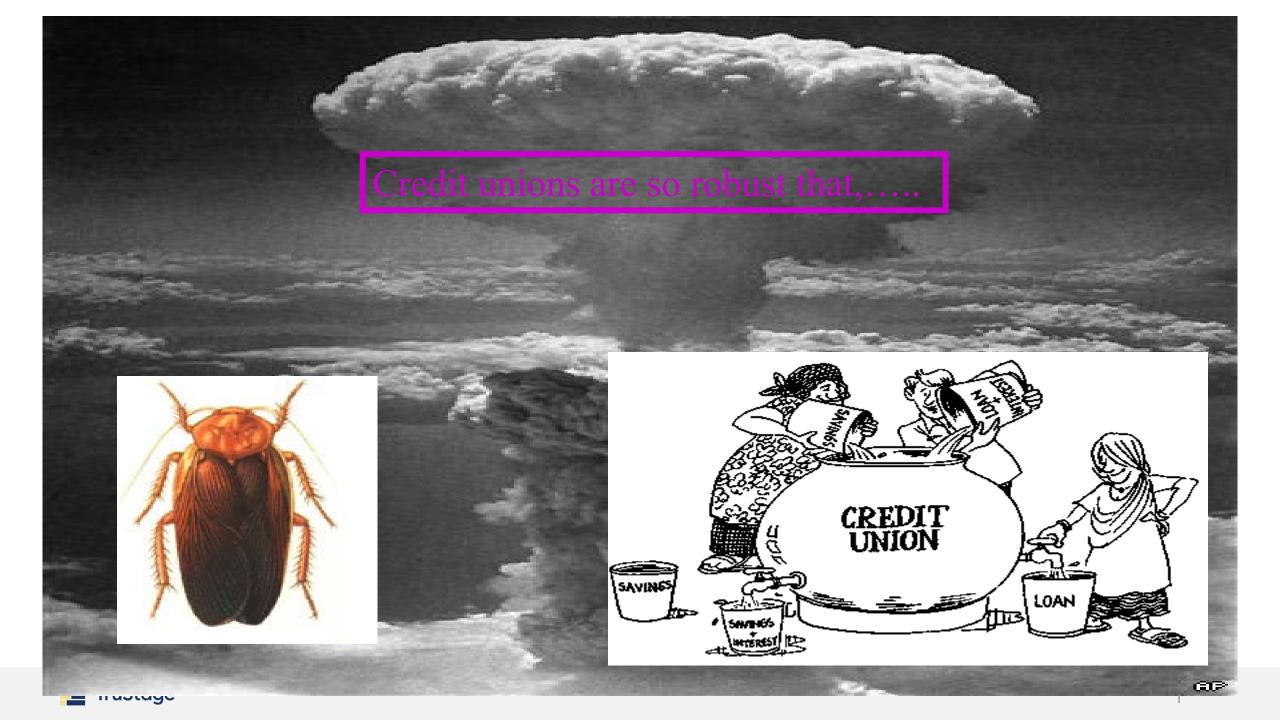
^{*}Quarterly data, annualized. **End of period ratio.

Questions?

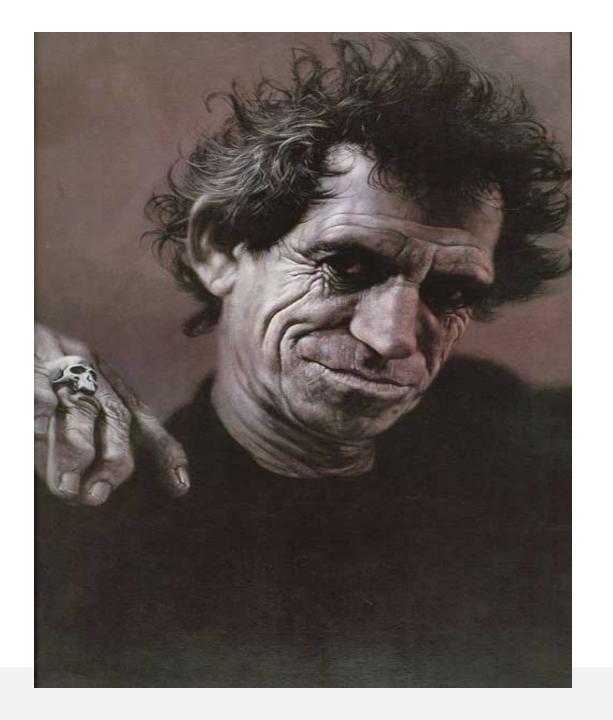
Credit unions are so robust that,....



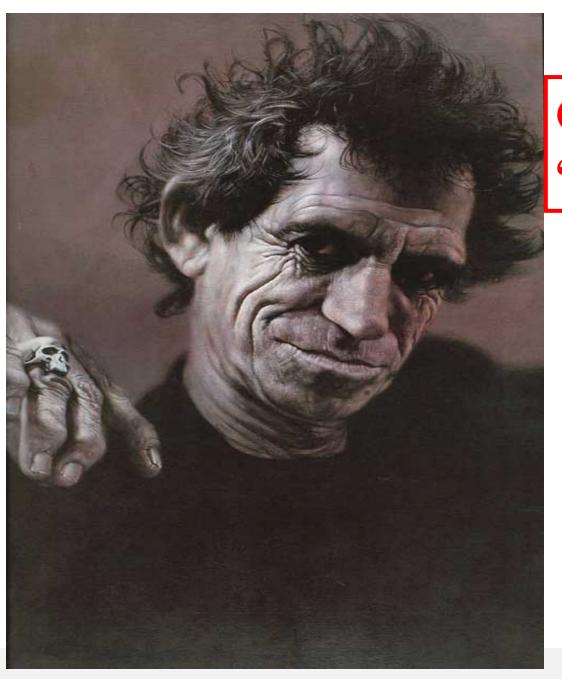












Carpe Diem "Seize the day"



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