

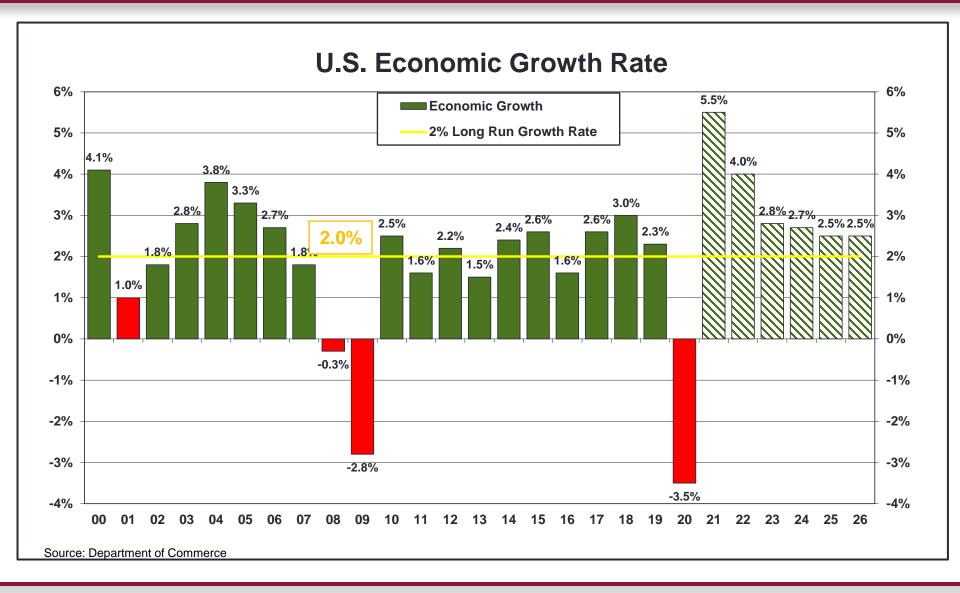
## **Economic Update**

December 2021

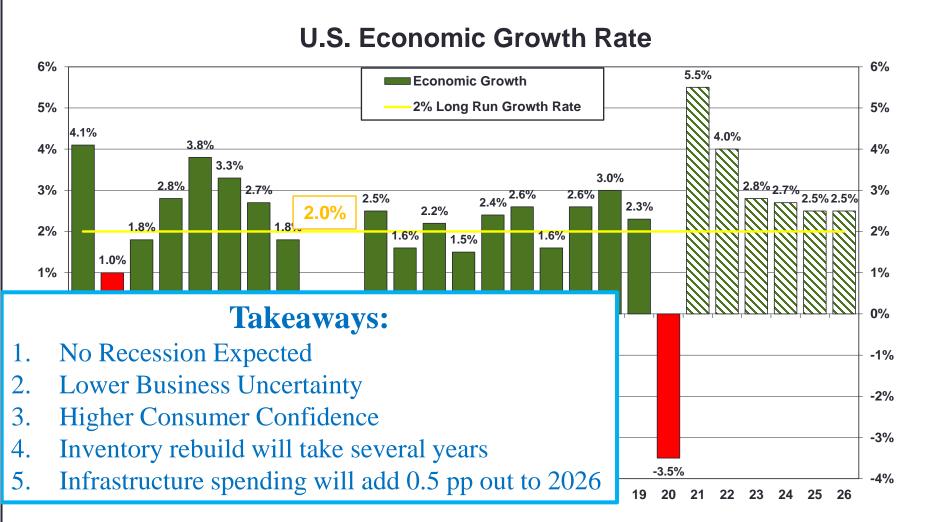
If you have any questions or comments, please contact: **Steven Rick, Chief Economist** CUNA Mutual Group – Economics 800.356.2644, Ext. 665.5454 **Steve.rick@cunamutual.com** 

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### **Above Trend Economic Growth for Next 5 Years**



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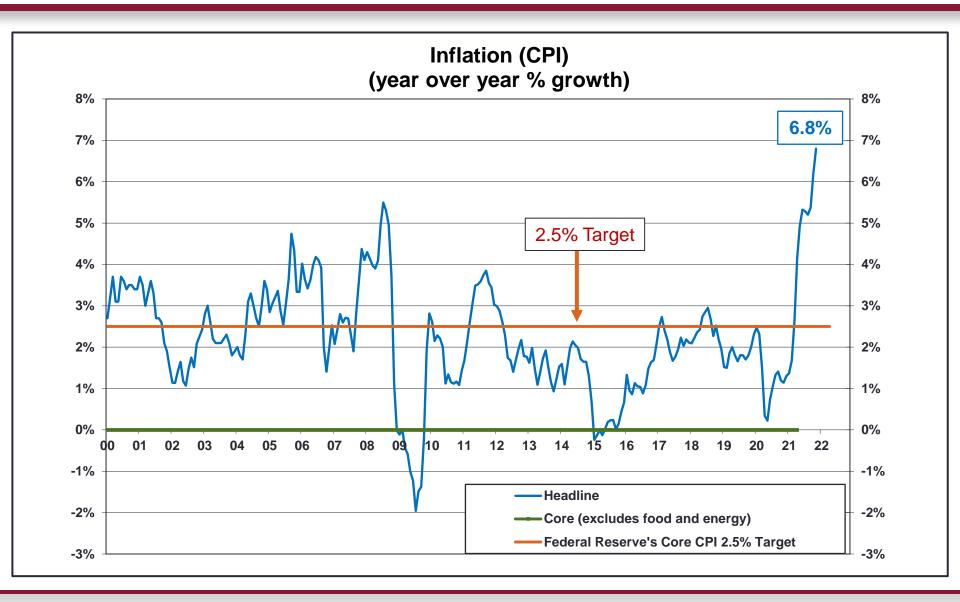
Source: Department of Commerce

# **The Big Question**

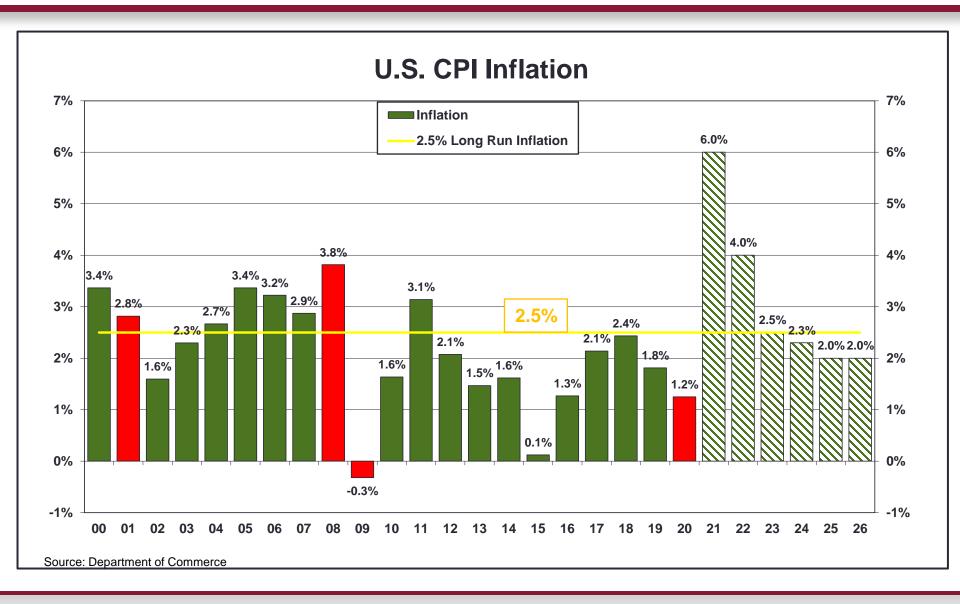
# **The Big Question**

Inflation or Deflation tell me if you can will we be Zimbabwe or will we be Japan?

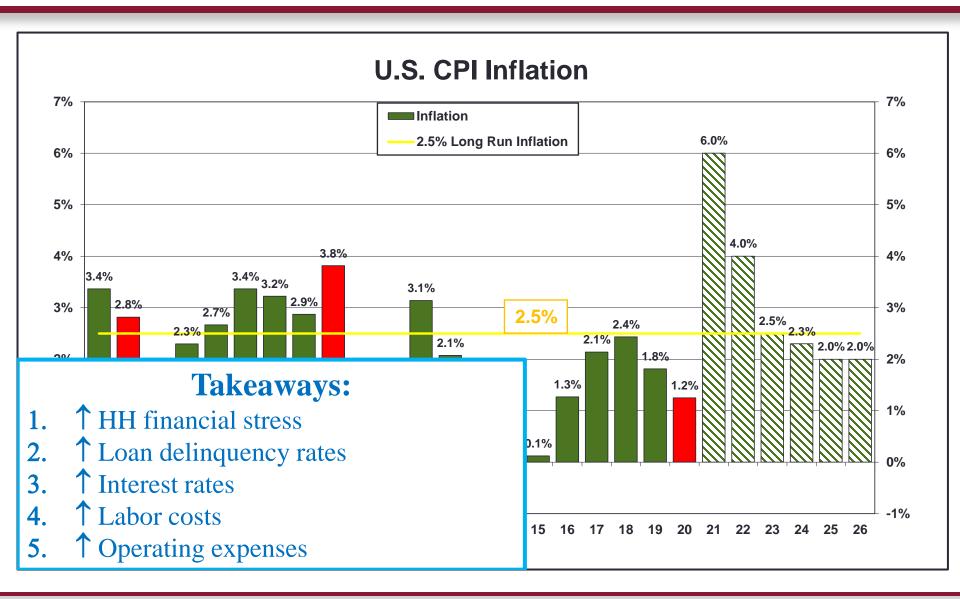
### **High Inflation for the Next Year**

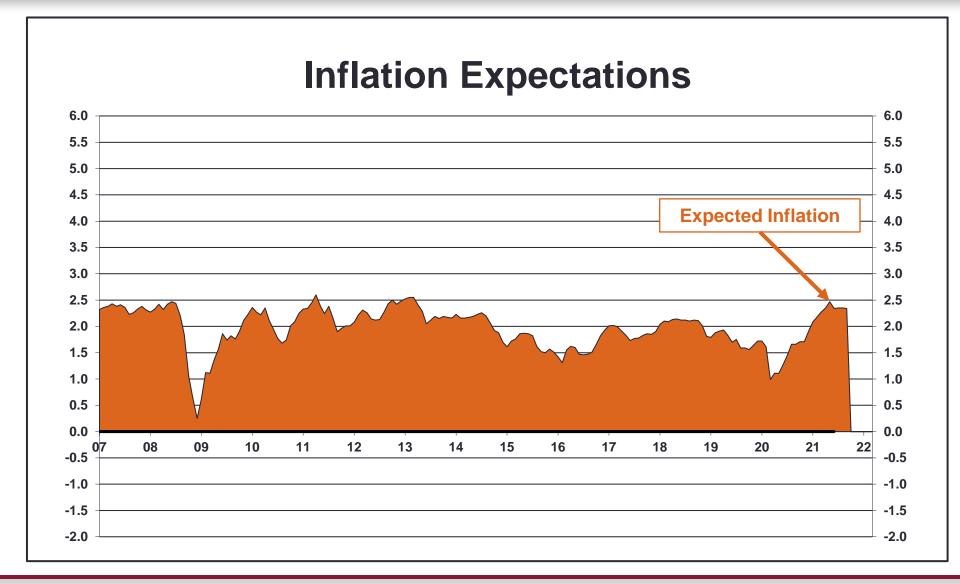


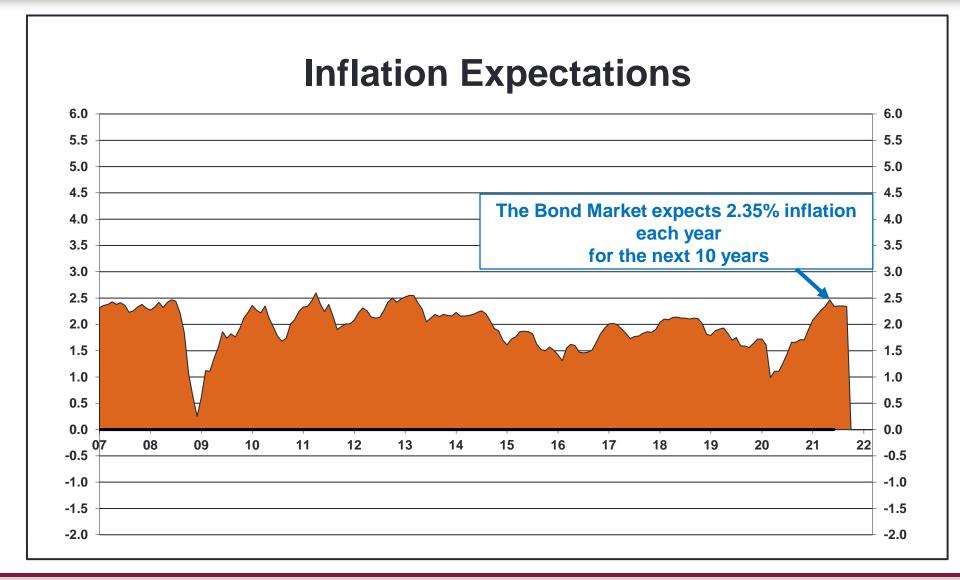
### **Inflation Above Target Until 2024**

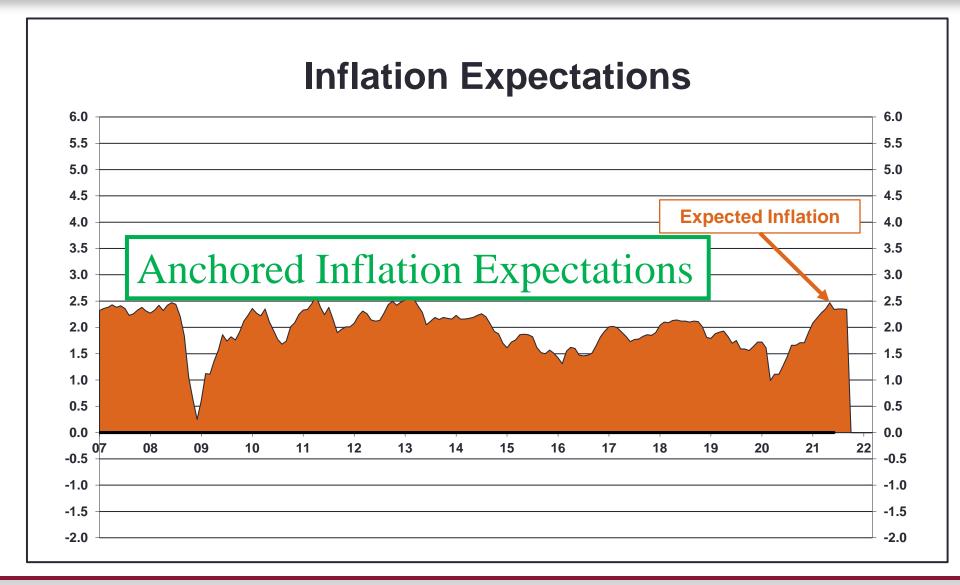


### **Inflation Above Target Until 2024**









### **The Inflation Debate:**

#### **Higher Inflation Factors:**

- 1. Pent up demand for goods and services
- 2. Rising energy & commodity prices
- 3. Massive monetary and fiscal stimulus
- 4. Lower dollar exchange rate => import prices
- 5. Rising housing and medical care costs
- 6. Rising Inflation Expectations

### **The Inflation Debate:**

#### **Higher Inflation Factors:**

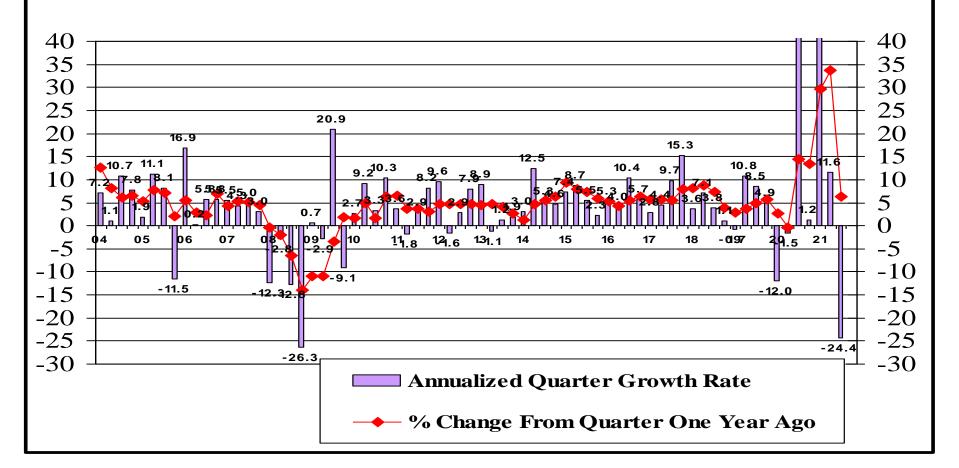
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#### **Lower Inflation Factors:**

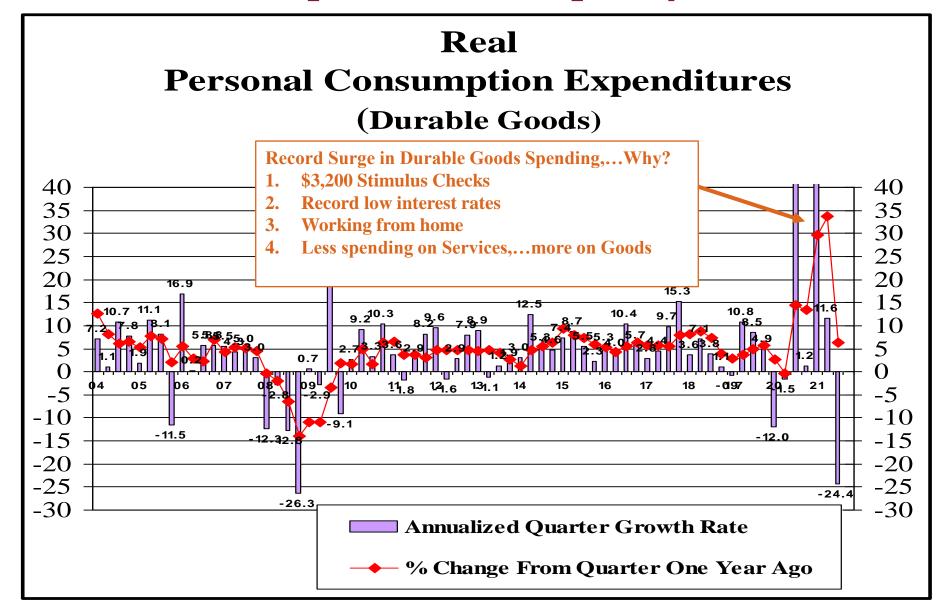
- 1. eCommerce is a powerful deflationary force
- 2. Rising competition from globalization
- 3. Rising productivity => falling costs per unit
- 4. Low population growth
- 5. Negative output gap and excess production capacity
- 6. Excess supply of labor

### **Record Surge in Goods Spending Created Supply Chain Disruptions and Temporary Inflation**

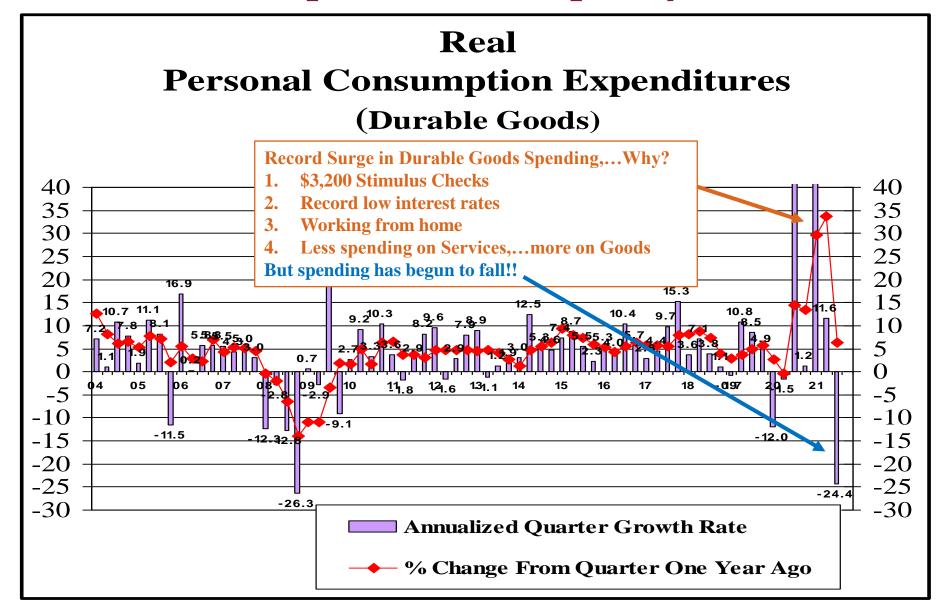
### Real Personal Consumption Expenditures (Durable Goods)

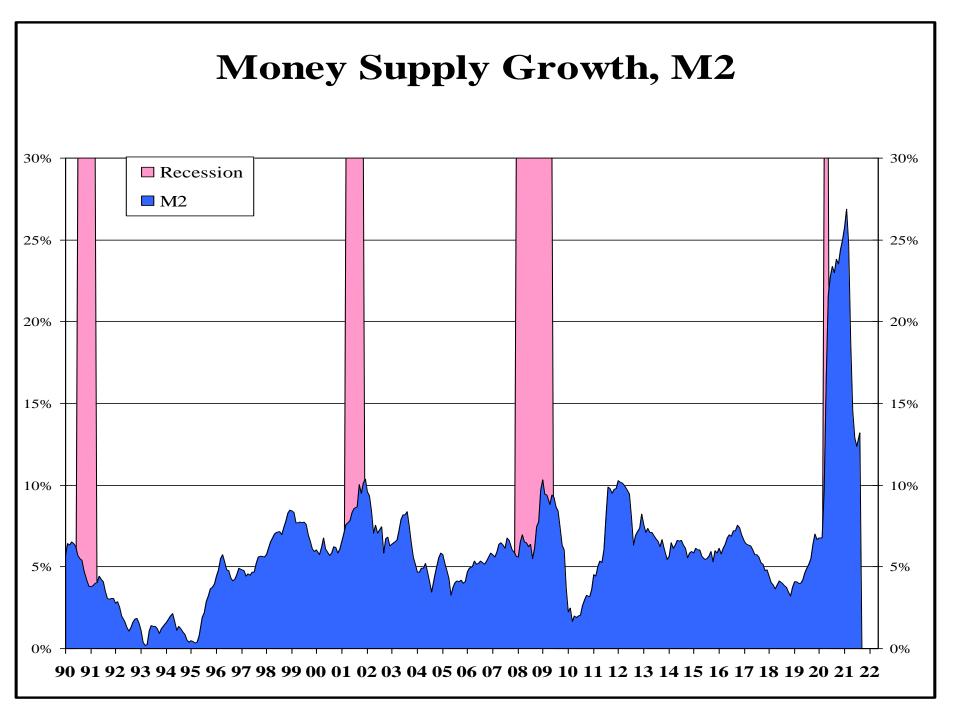


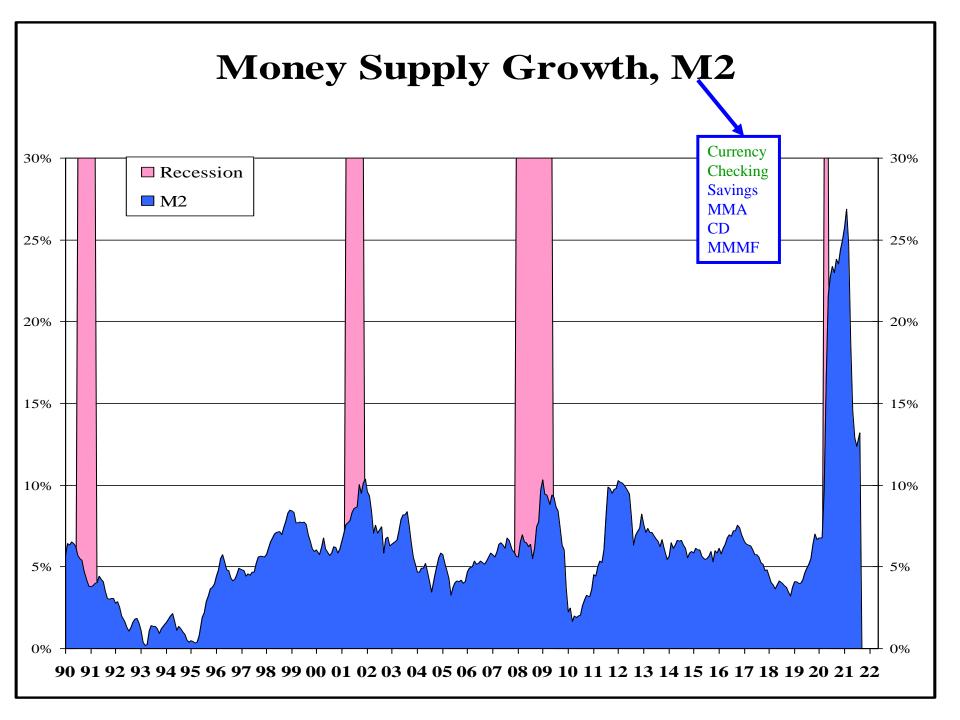
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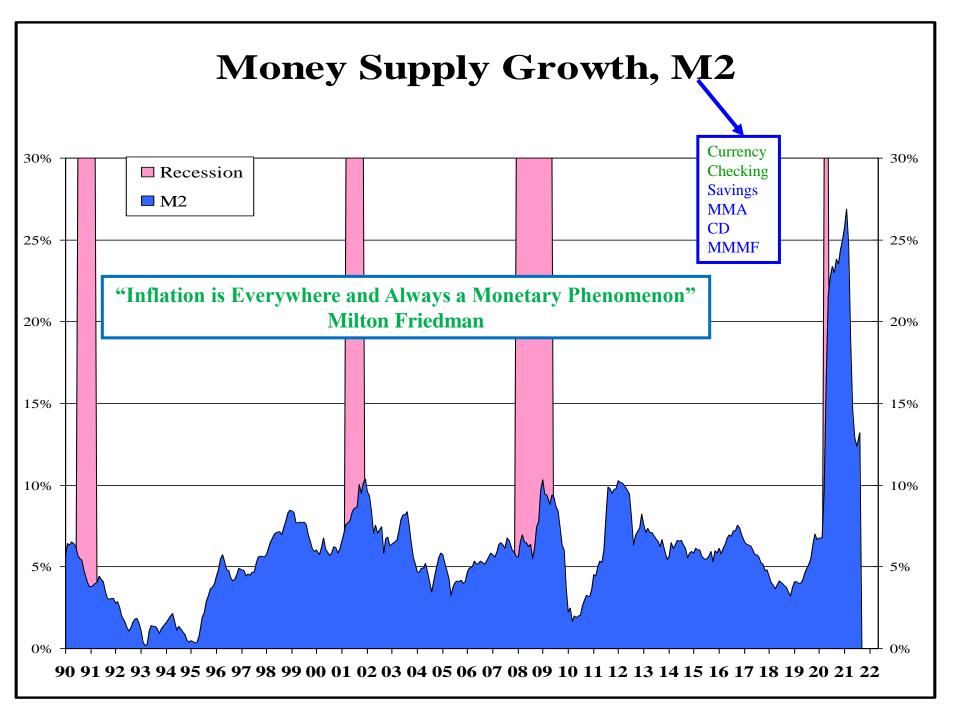


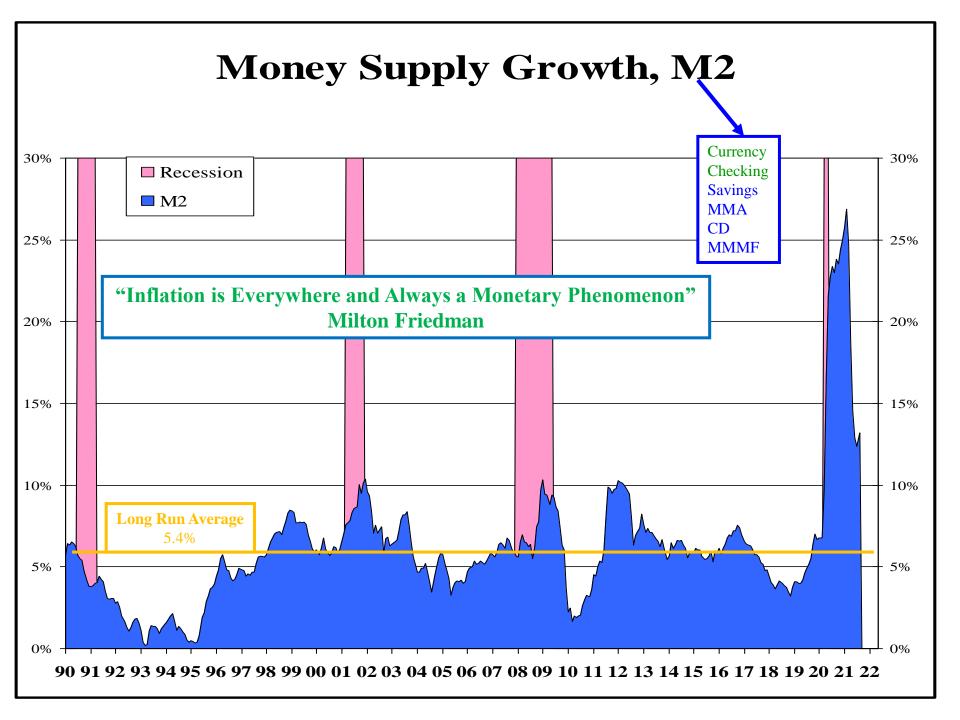
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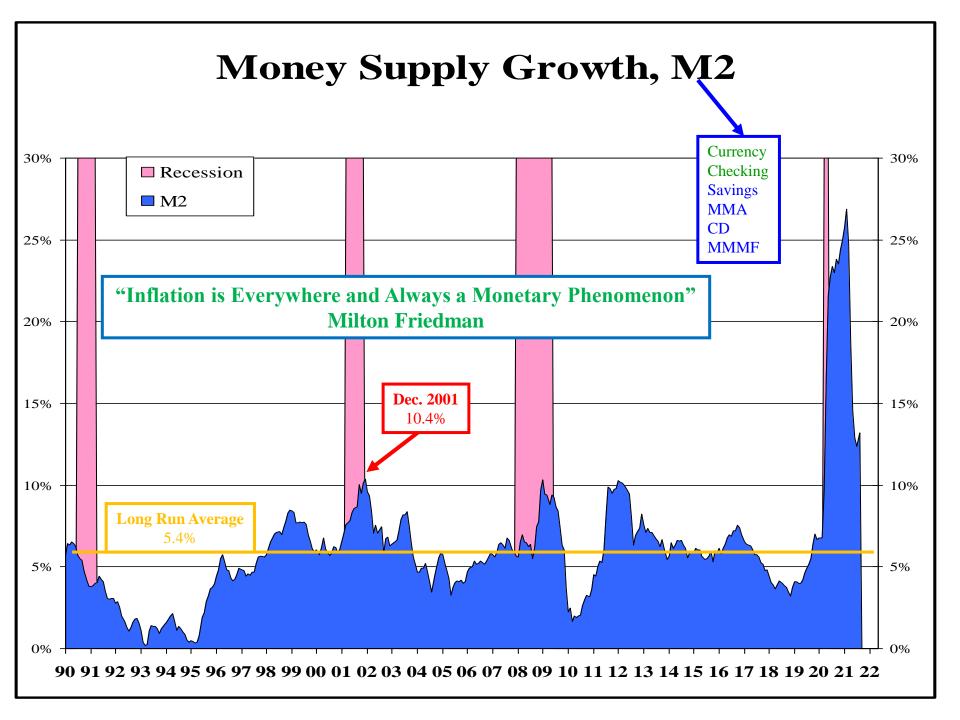


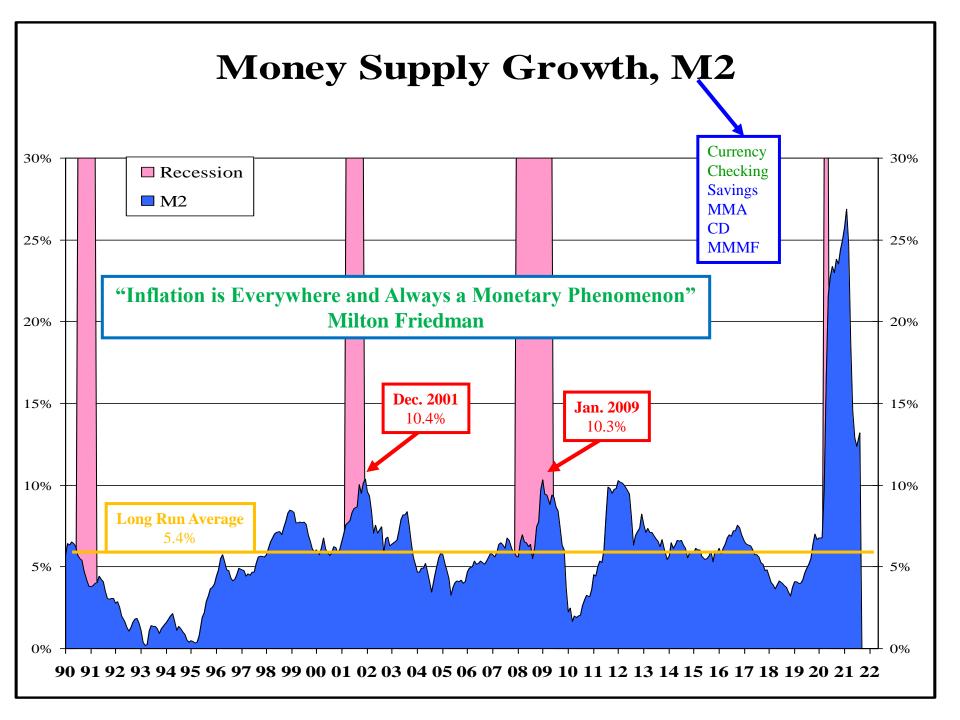


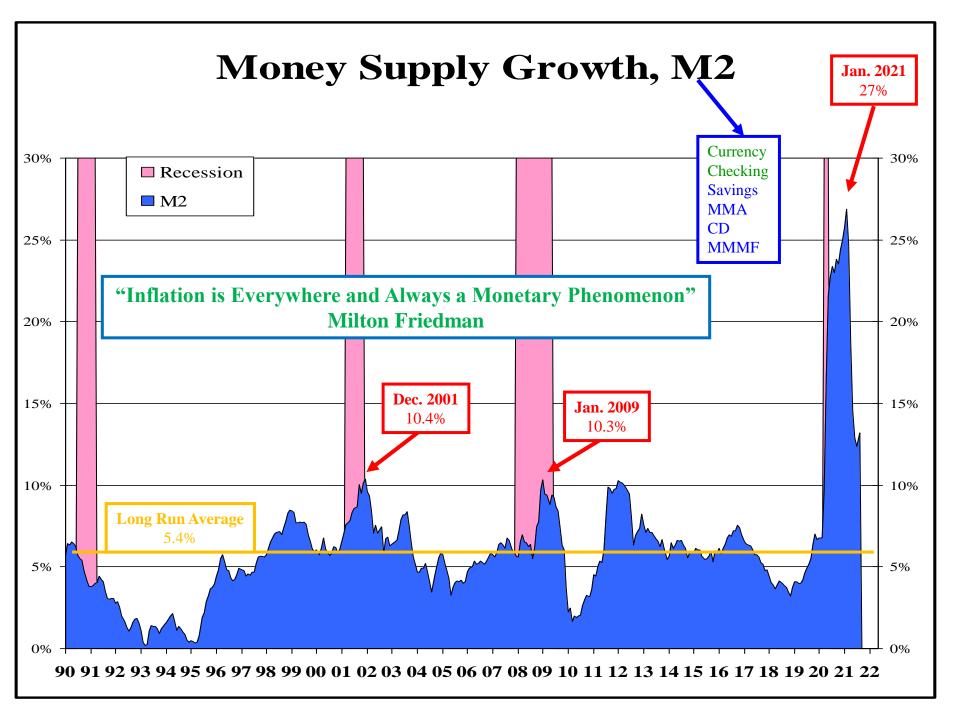


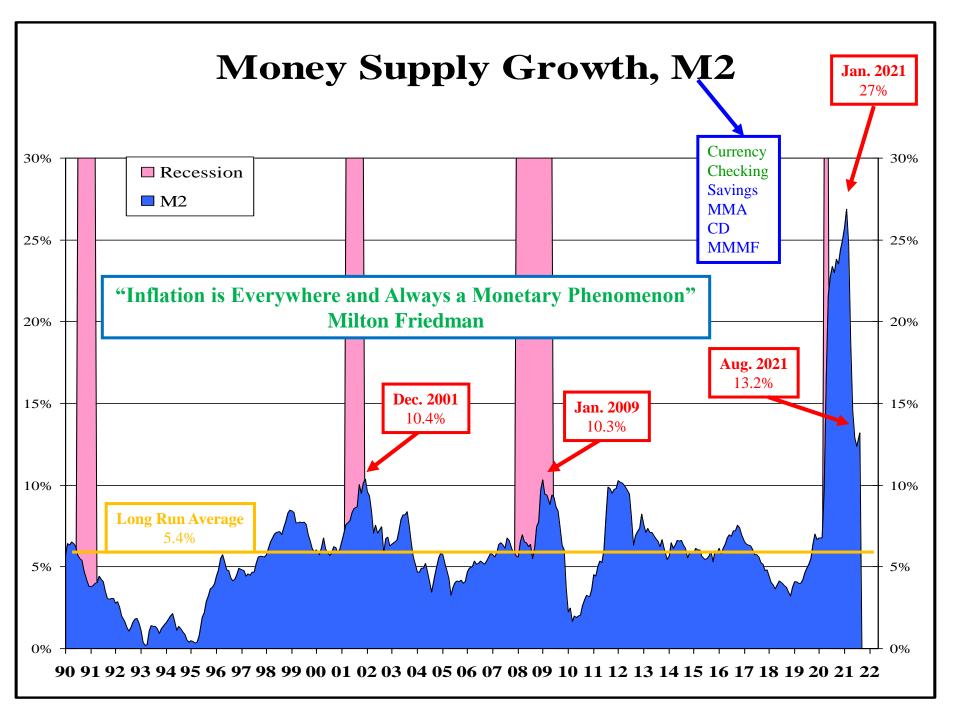












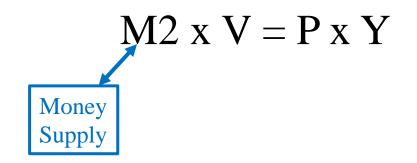
## Equation of Exchange

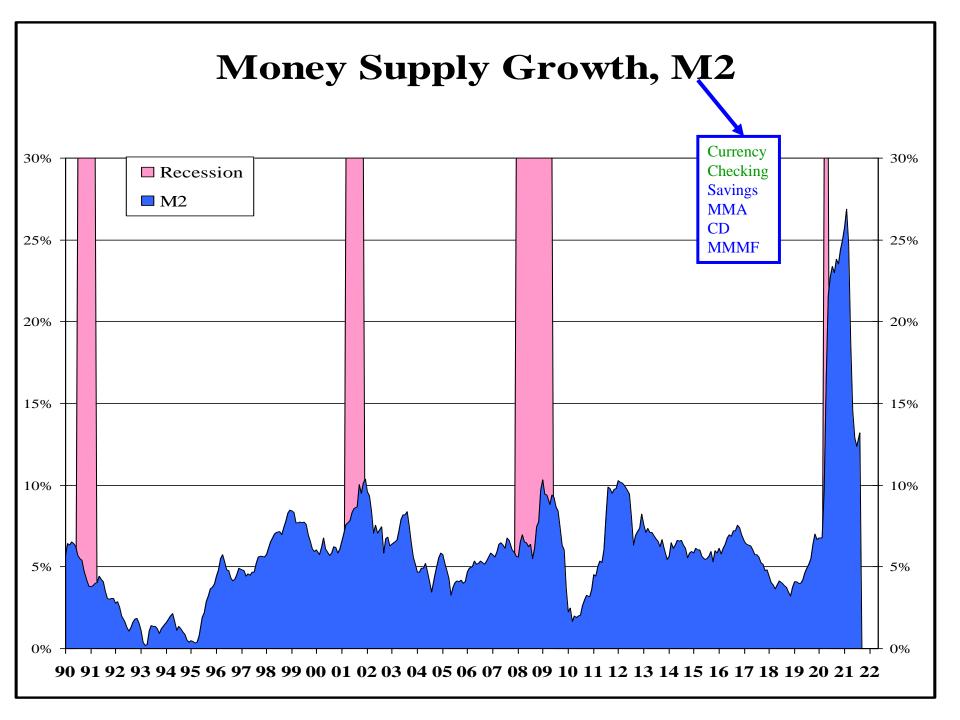
Equation of Exchange (identity)

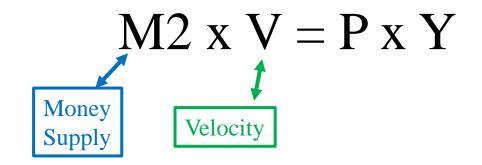
Equation of Exchange (identity)

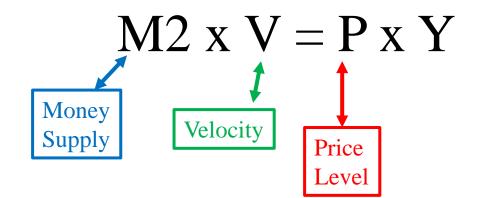
 $M2 \ge V = P \ge Y$ 

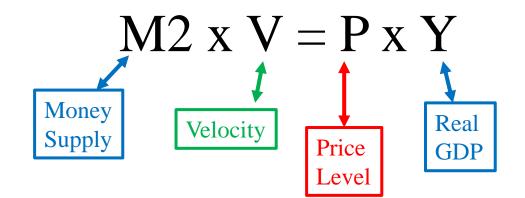
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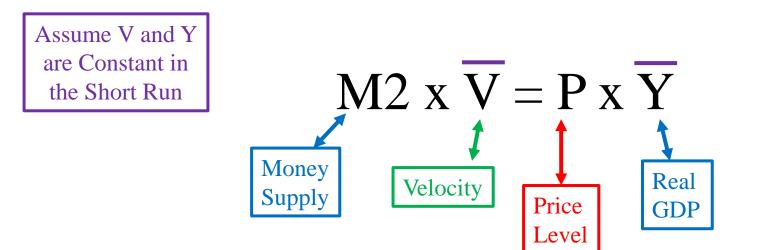


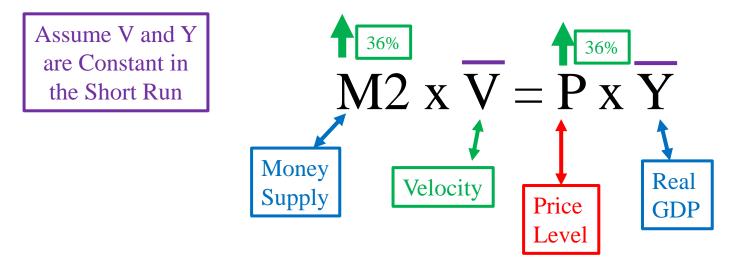


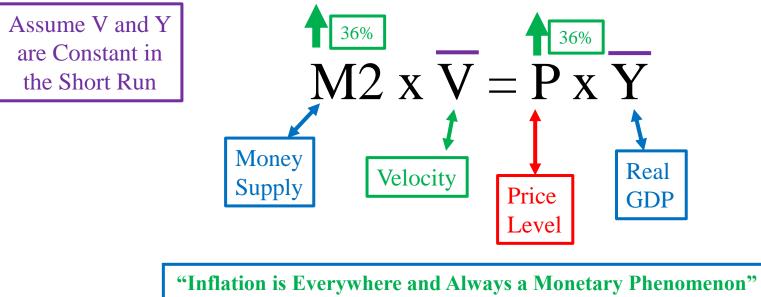




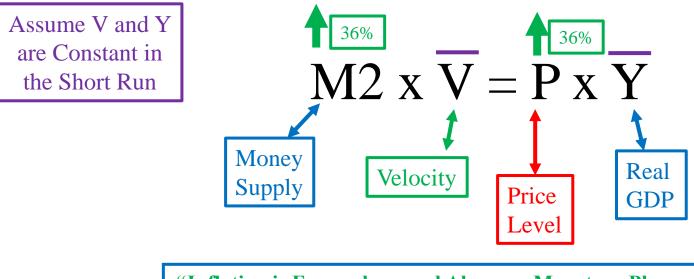






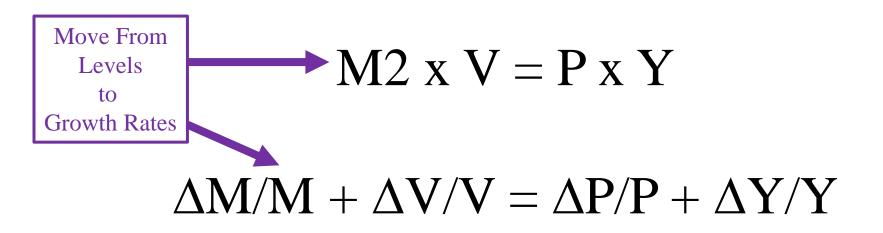


**Milton Friedman** 



"Inflation is Everywhere and Always a Monetary Phenomenon" Milton Friedman

> But Velocity is not Constant in the Short Run!



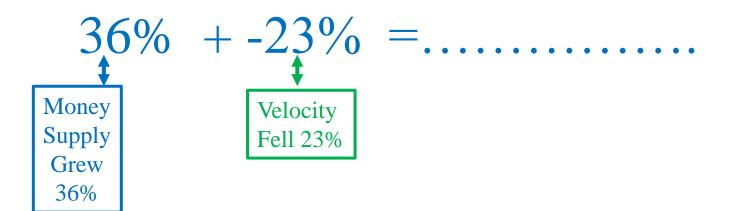
## $M2 \times V = P \times Y$

# $\Delta M/M + \Delta V/V = \Delta P/P + \Delta Y/Y$ 4<sup>th</sup> quarter 2019,... to 3<sup>rd</sup> quarter 2021

## $M2 \times V = P \times Y$

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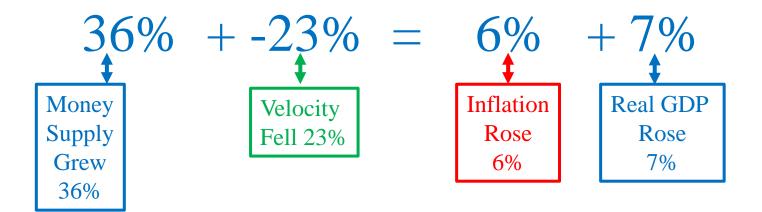
 $4^{\text{th}}$  quarter 2019,... to  $3^{\text{rd}}$  quarter 2021



## $M2 \times V = P \times Y$

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 $4^{\text{th}}$  quarter 2019,... to  $3^{\text{rd}}$  quarter 2021



## $M2 \ge V = P \ge Y$

## $\Delta M/M + \Delta V/V = \Delta P/P + \Delta Y/Y$

 $4^{\text{th}}$  quarter 2019,... to  $3^{\text{rd}}$  quarter 2021

$$\begin{array}{c} \text{Rewrite} \\ \text{``Equation of Exchange''} \end{array} \longrightarrow V = \underline{P*Y} \\ M \end{array}$$

## $M \ge V = P \ge Y$

## $\Delta M/M + \Delta V/V = \Delta P/P + \Delta Y/Y$

 $4^{\text{th}}$  quarter 2019,... to  $3^{\text{rd}}$  quarter 2021

$$V = \underline{P*Y}$$

$$M \uparrow 36\%$$

## $M \ge V = P \ge Y$

## $\Delta M/M + \Delta V/V = \Delta P/P + \Delta Y/Y$

 $4^{\text{th}}$  quarter 2019,... to  $3^{\text{rd}}$  quarter 2021

$$V = \underline{P*Y}^{\uparrow 13\%}$$

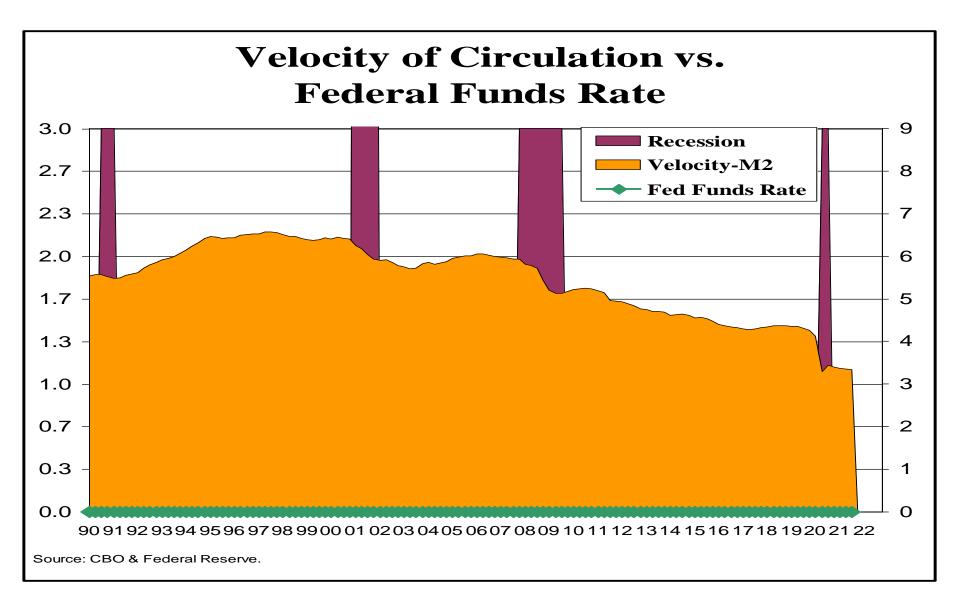
$$M^{\uparrow 36\%}$$

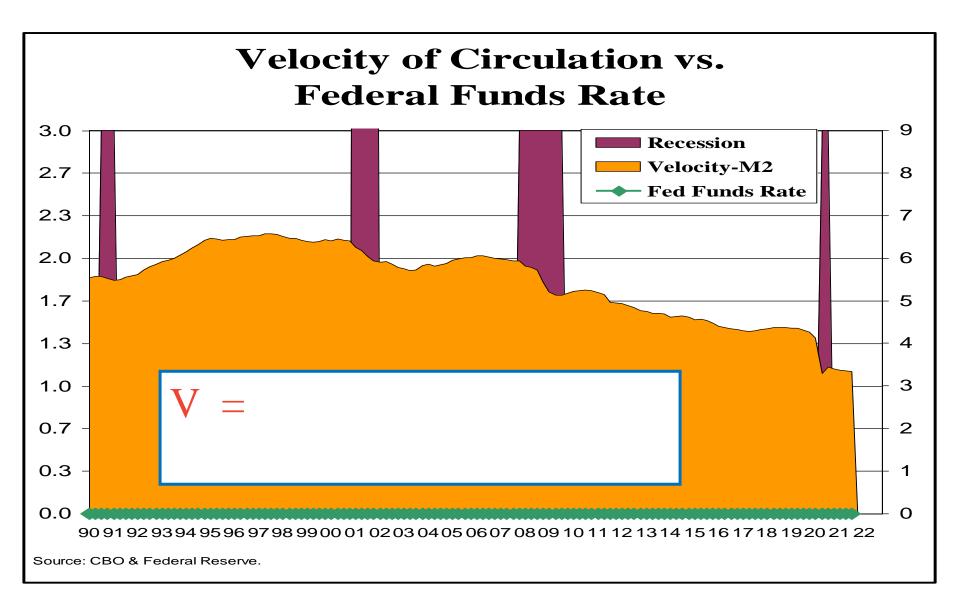
## $M \ge V = P \ge Y$

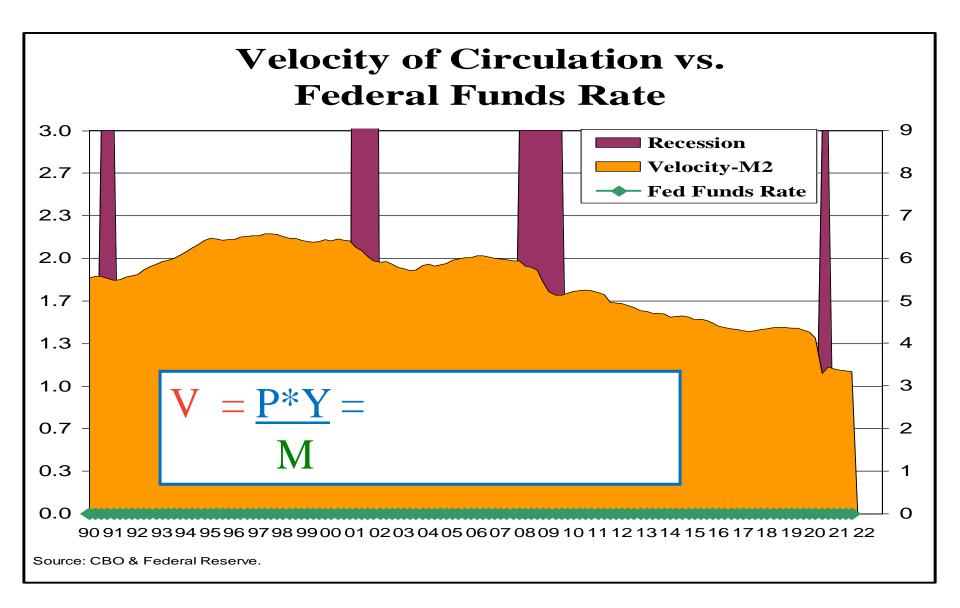
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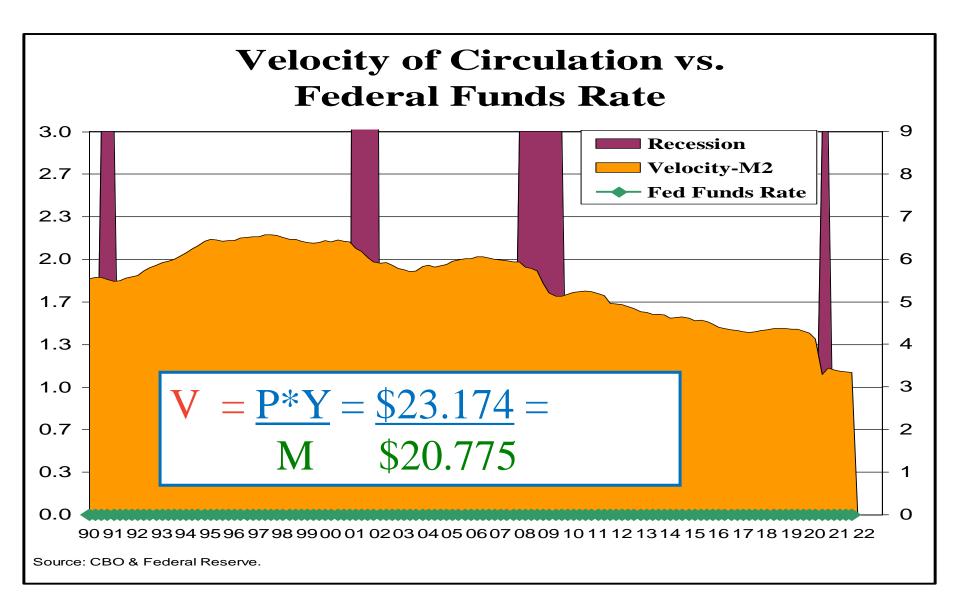
 $4^{\text{th}}$  quarter 2019,... to  $3^{\text{rd}}$  quarter 2021

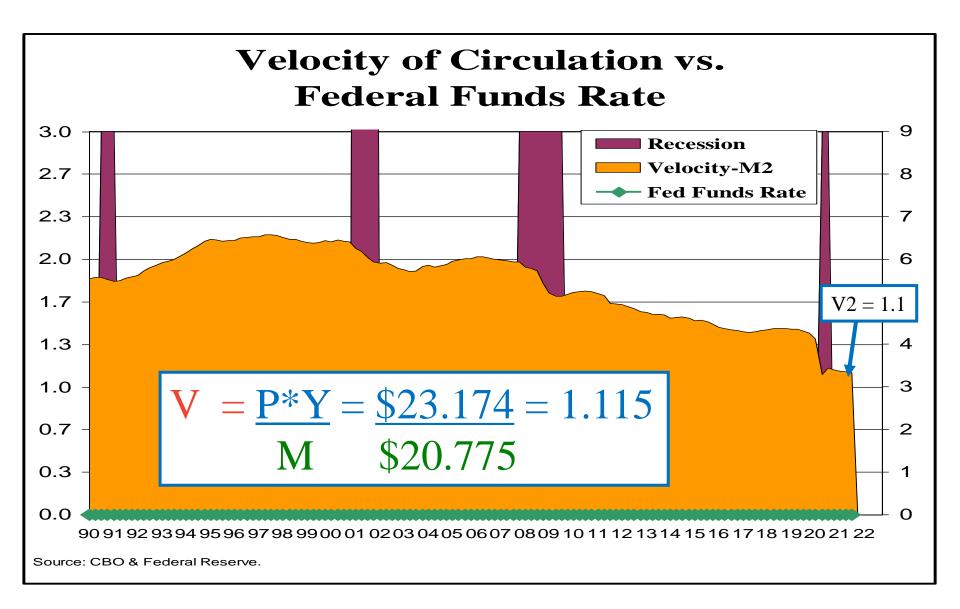
$$\downarrow 23\% \quad \mathbf{V} = \mathbf{P}^* \mathbf{Y} \quad \uparrow 13\%$$
$$\mathbf{M} \quad \uparrow 36\%$$

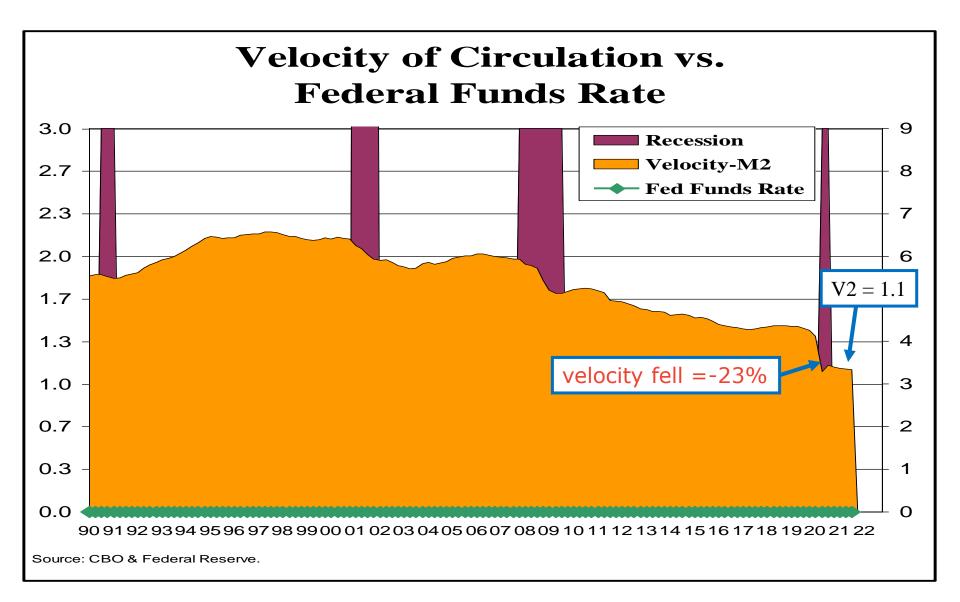




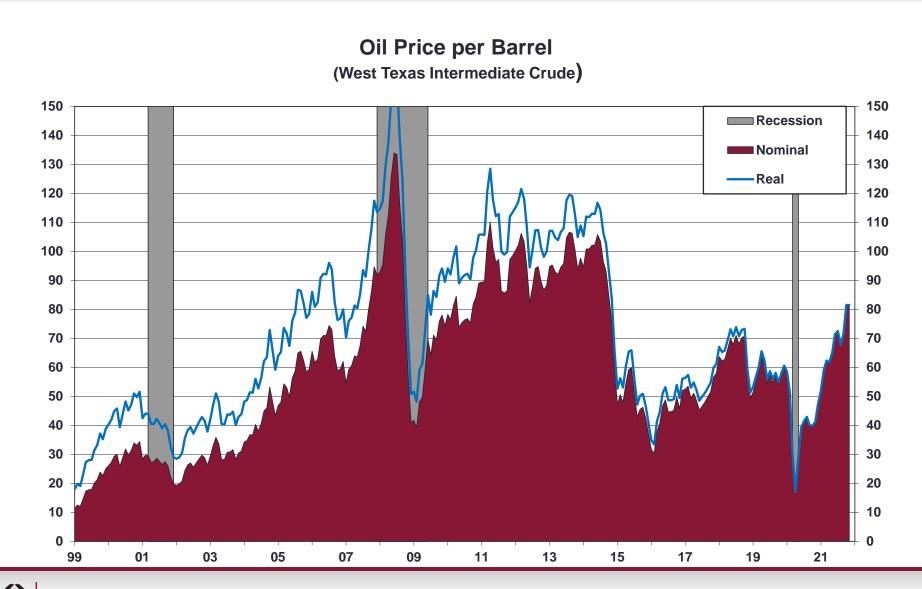








#### **Rising Oil Prices are Leading to Higher Inflation**



### **U.S. Oil Market**

#### **Supply Side Effects:**

U.S. crude oil production = 12.1 m bpd (world's biggest)
 OPEC supply constraints => ↓ output
 ↑ price of natural gas => utilities substitute oil for natural gas
 Tight absolute and relative inventory => ↑ oil prices
 Strategic Petroleum Reserve = 600 million barrels

#### **Demand Side Effects:**

1.U.S. crude oil consumption = 19.7 m bpd 2.COVID-19 Recession ending => swift increase oil demand 3.  $Dollar => P_{oil}$  for overseas buyers =>  $\downarrow D_{oil}$ 

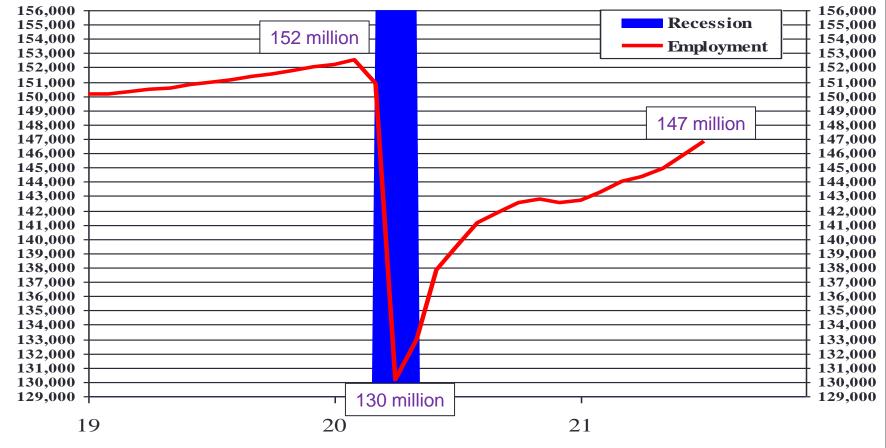
#### **U.S. Shale Oil Revolution => Hedged Economy** ↑ price oil => Benefit oil Producers,....but hurt oil Consumers

#### **Higher oil prices:**

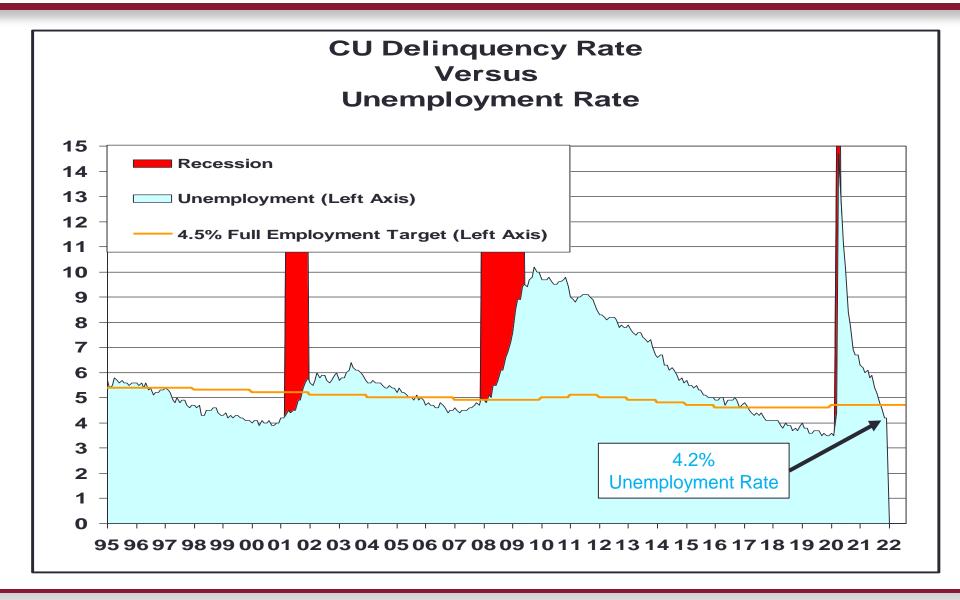
1.Slows global economic growth
2.Increase the incentive to conserve
3.Increase energy exploration => 1 oil rig count by 10 to 543
4.Increase inflationary pressure => accelerate Fed. Res. rate increases

#### 5 million Few Americans Working Today Compared to February 2020's 152.5 million

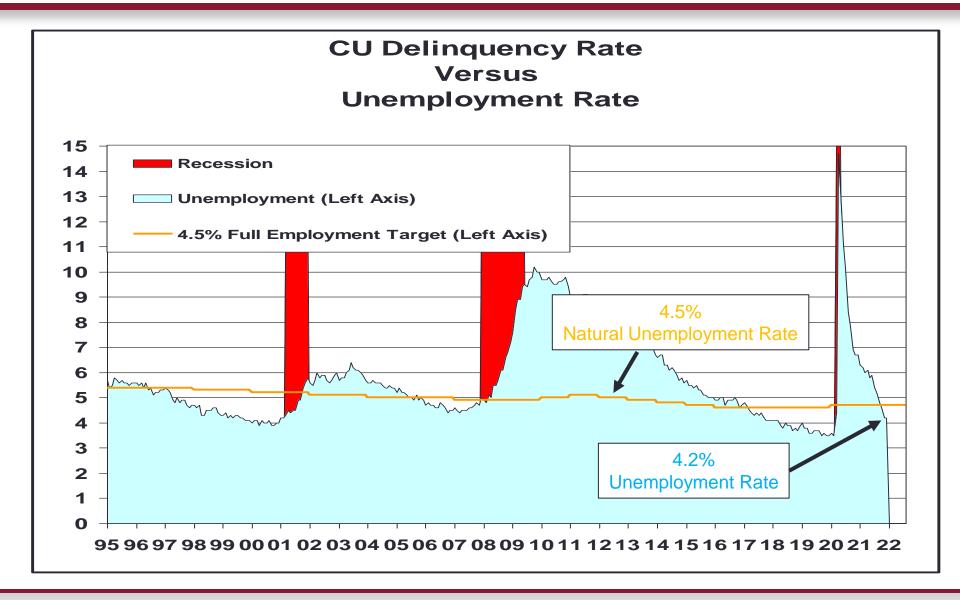
#### Total Nonfarm Employment (Thousands, SA)



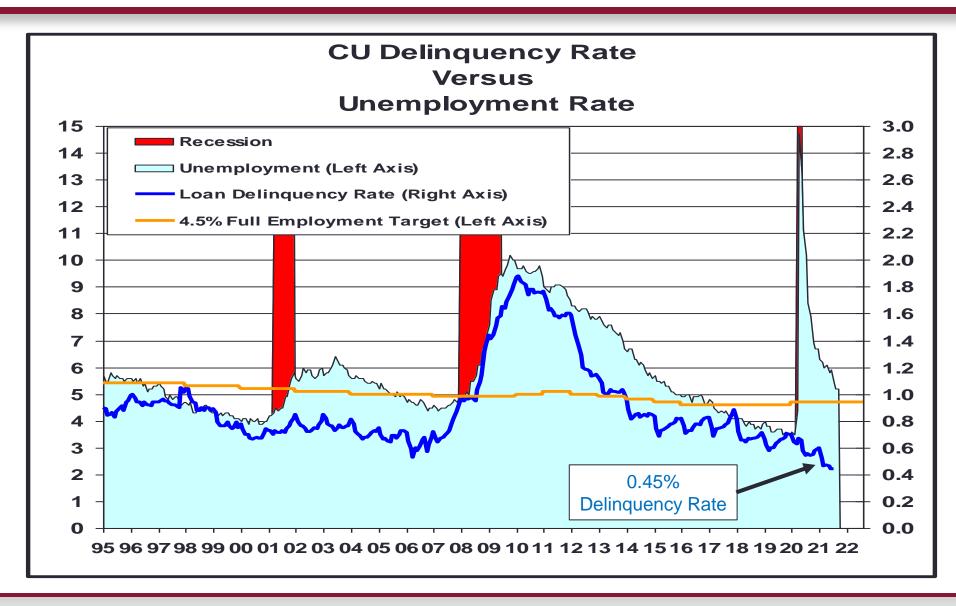
#### **Unemployment Rate Below Natural Unemployment Rate**



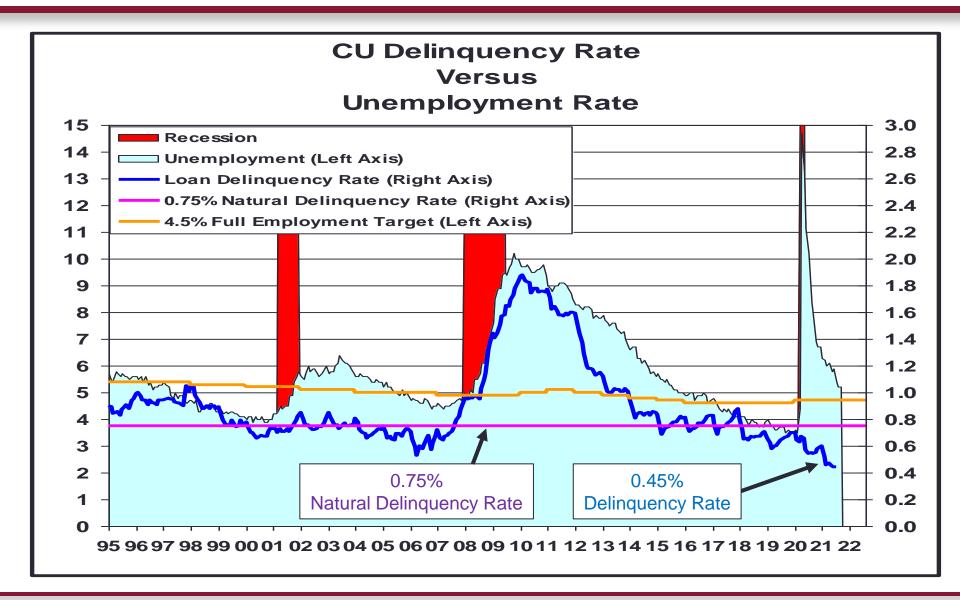
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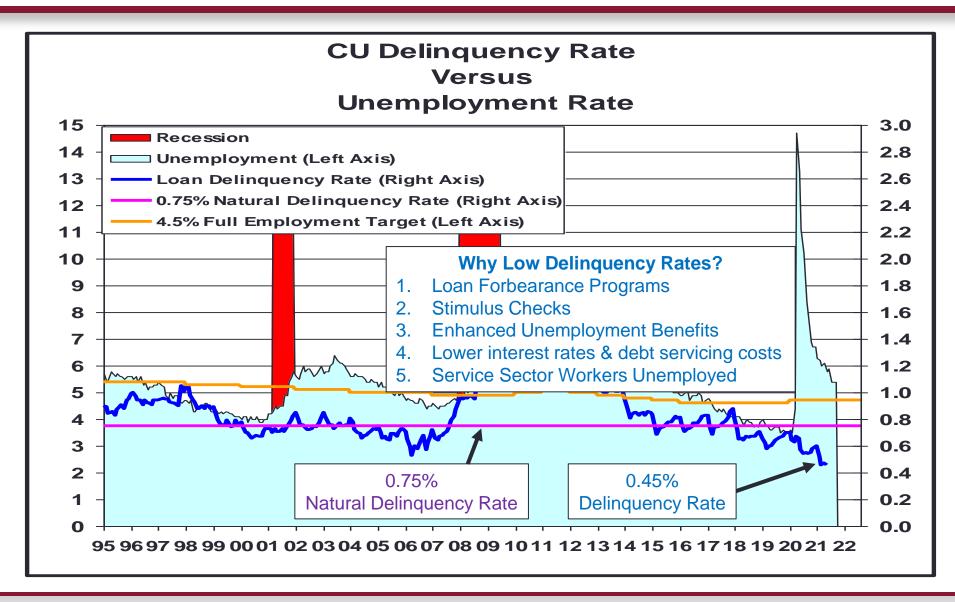
#### **CU Loan Delinquency Rates at Record Lows**



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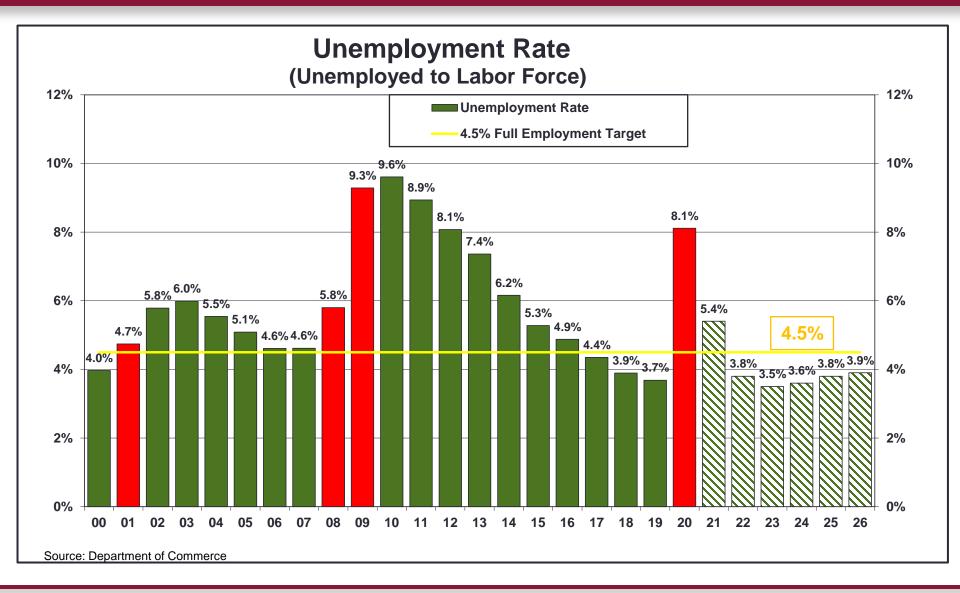


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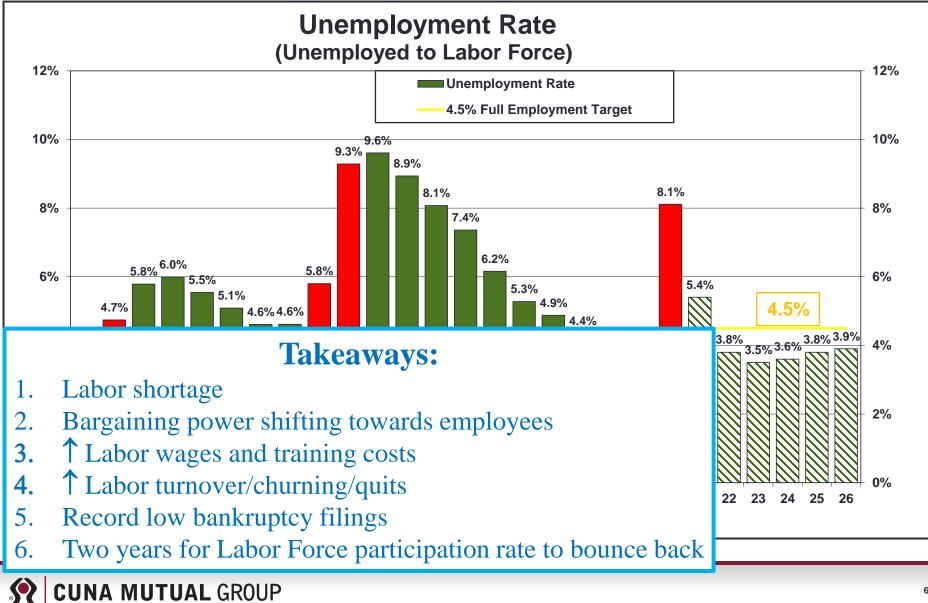
## Unemployment Rate Below Normal

#### for Next 5 Years



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# What is the most important price in any economy?



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## **The Price of Money**

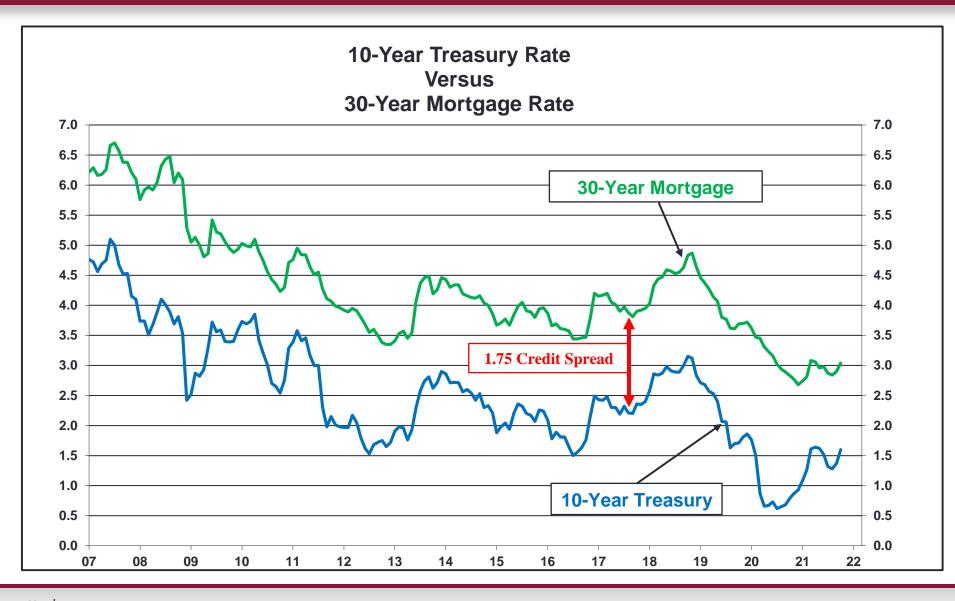
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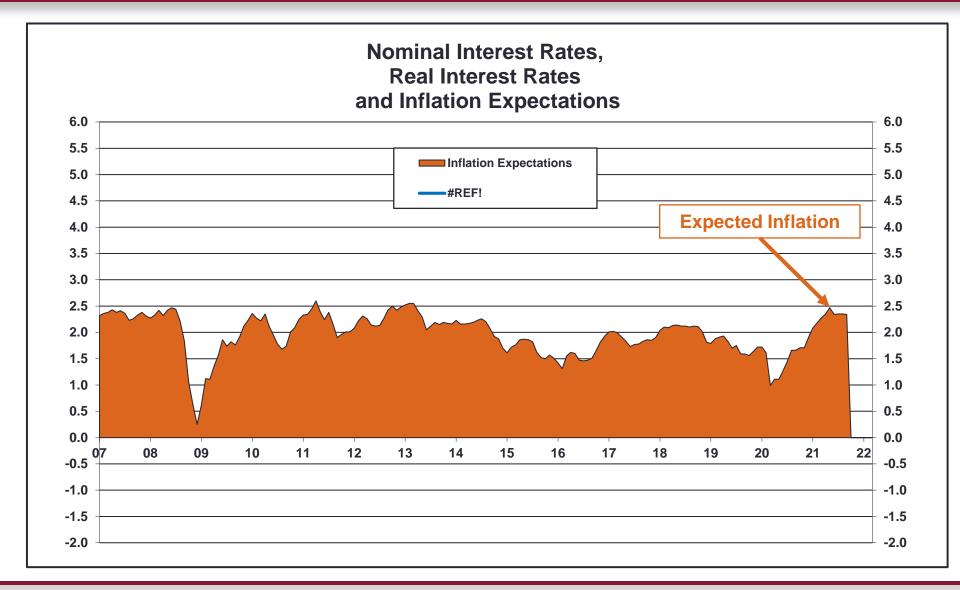
## **Interest Rates**



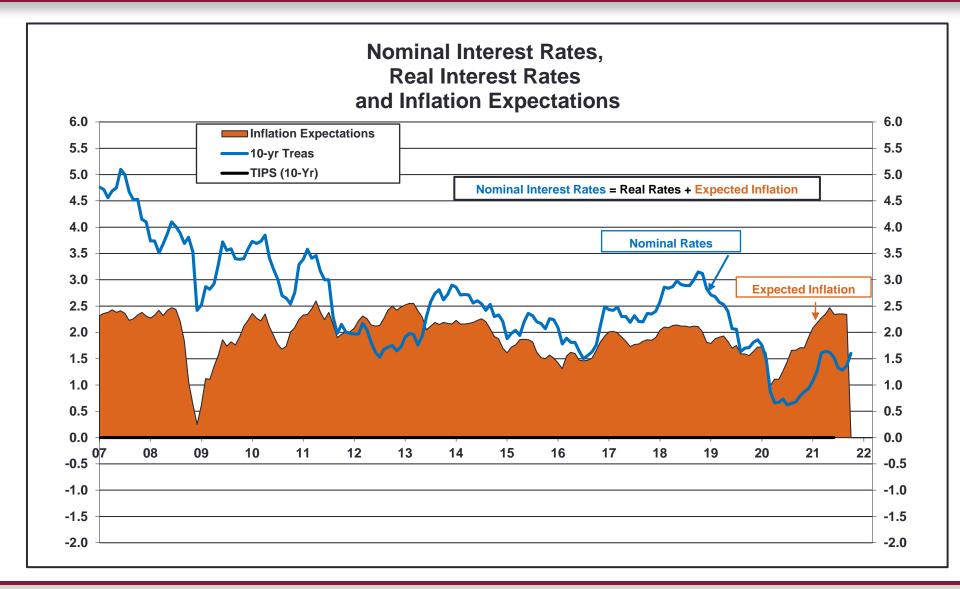
#### **Rising Real Interest Rates, and Rising Inflation Expectations will Push Up Nominal Interest Rates**



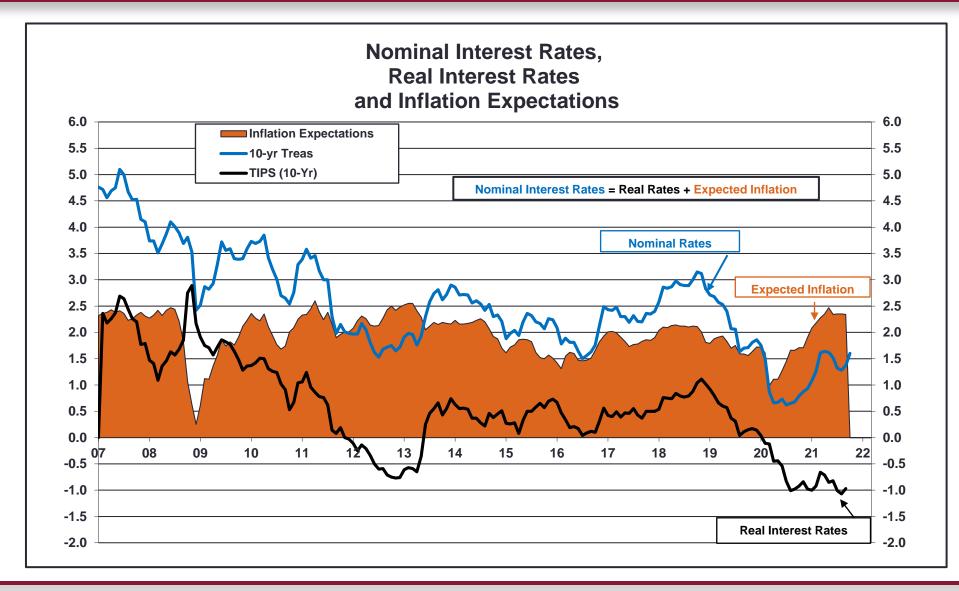
#### **Rising Inflation Expectations are Pushing Up Nominal Interest Rates**



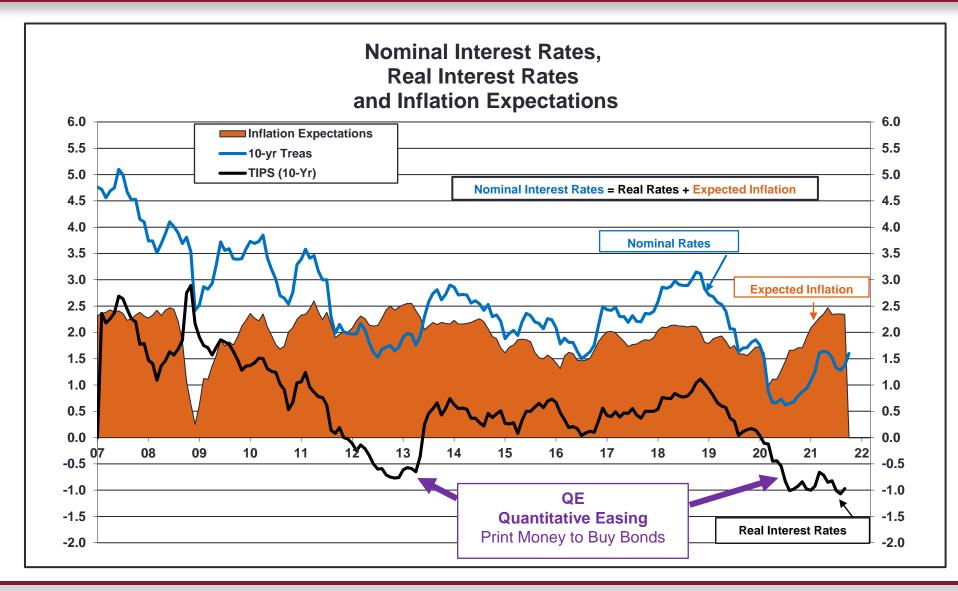
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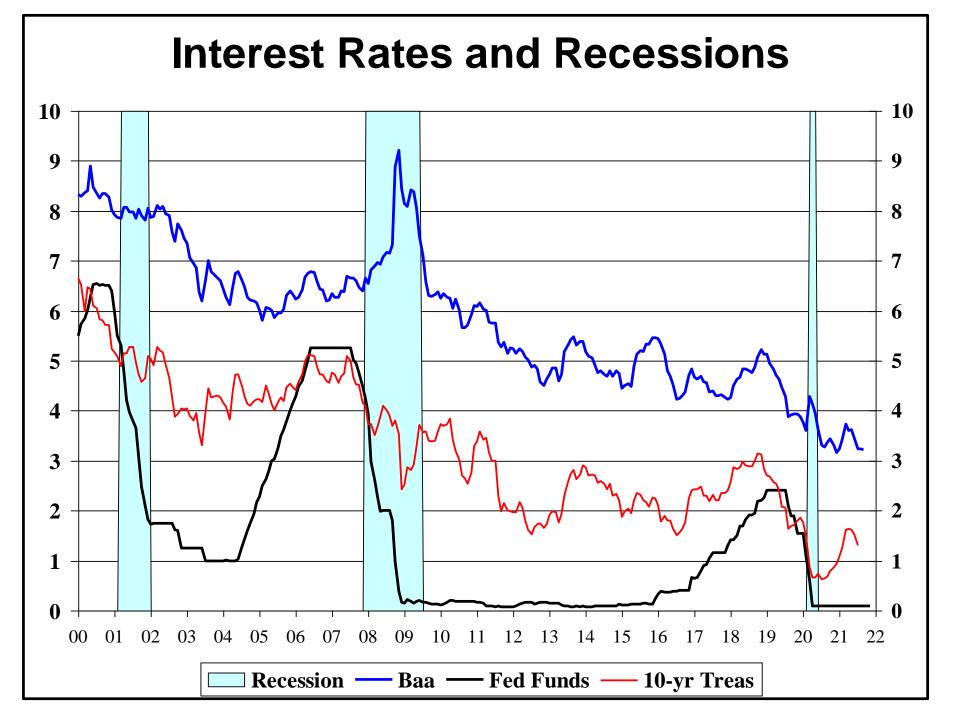


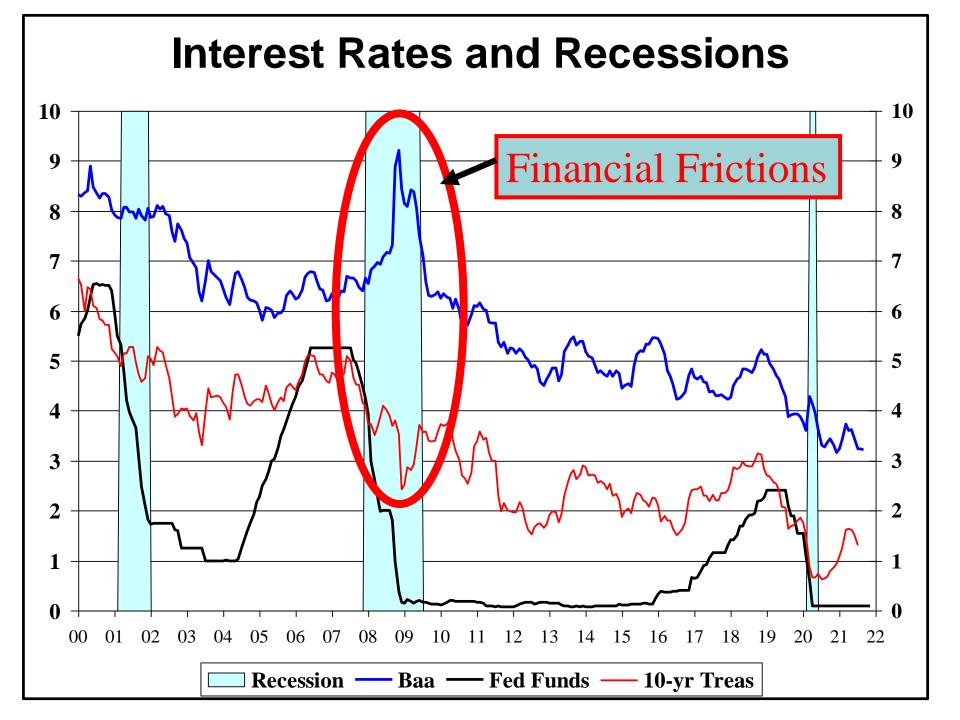
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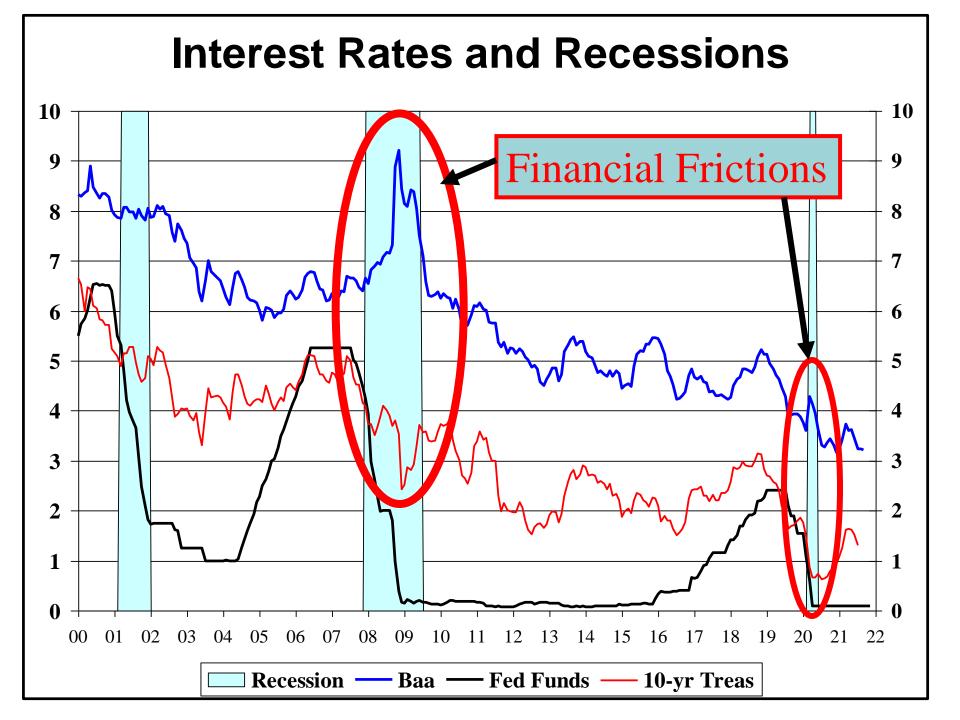


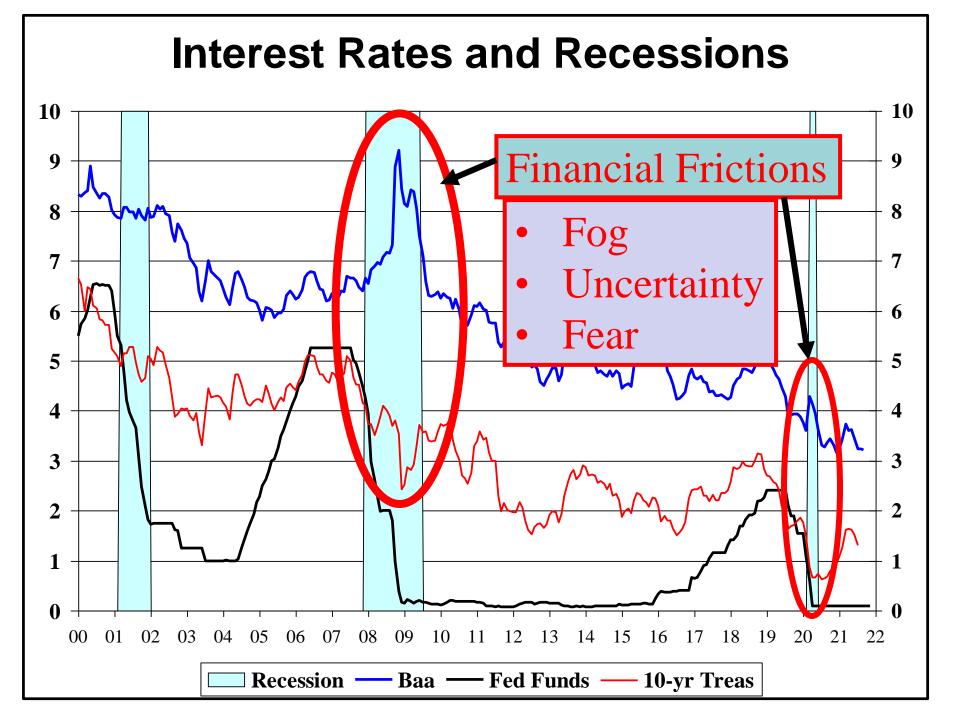
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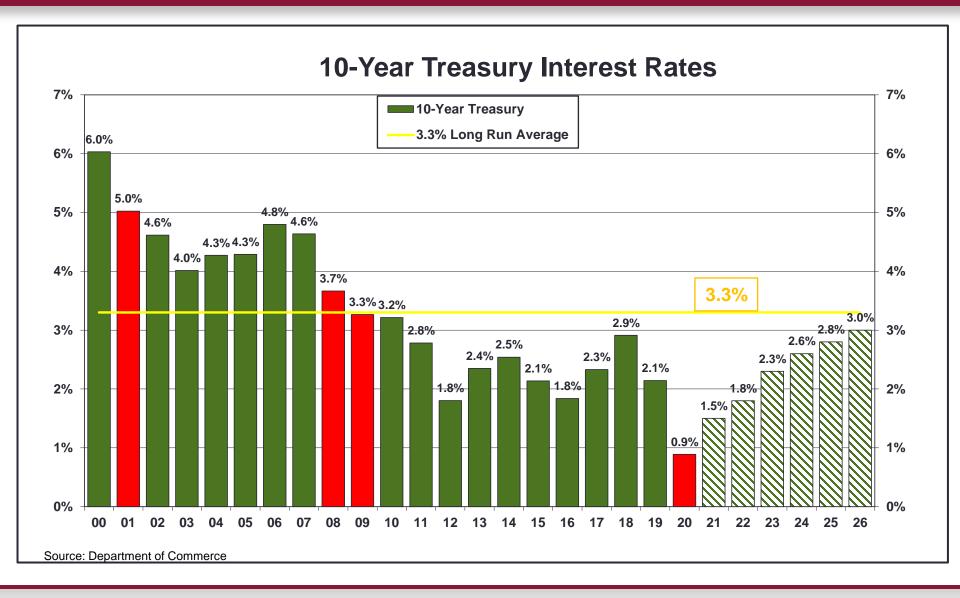




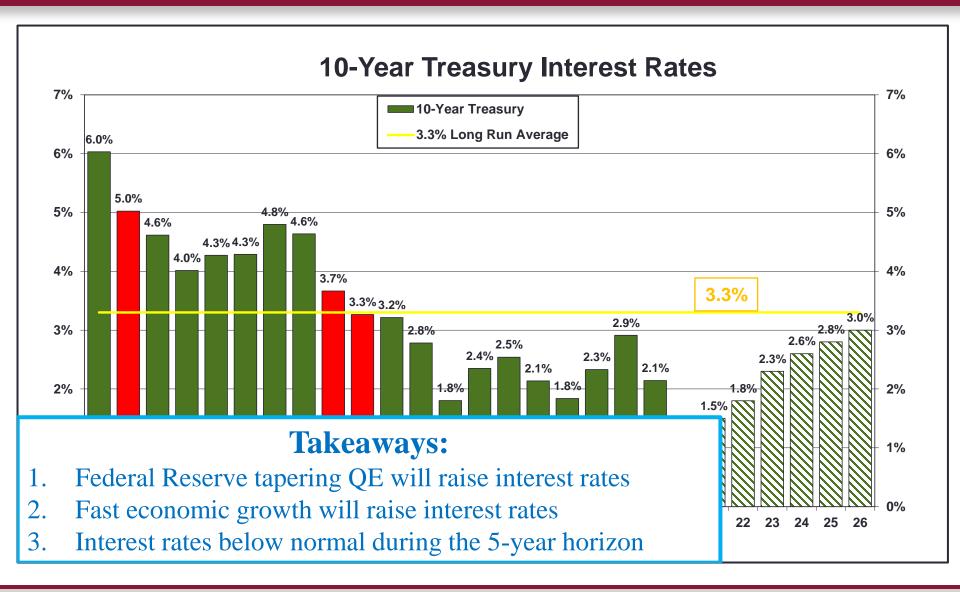




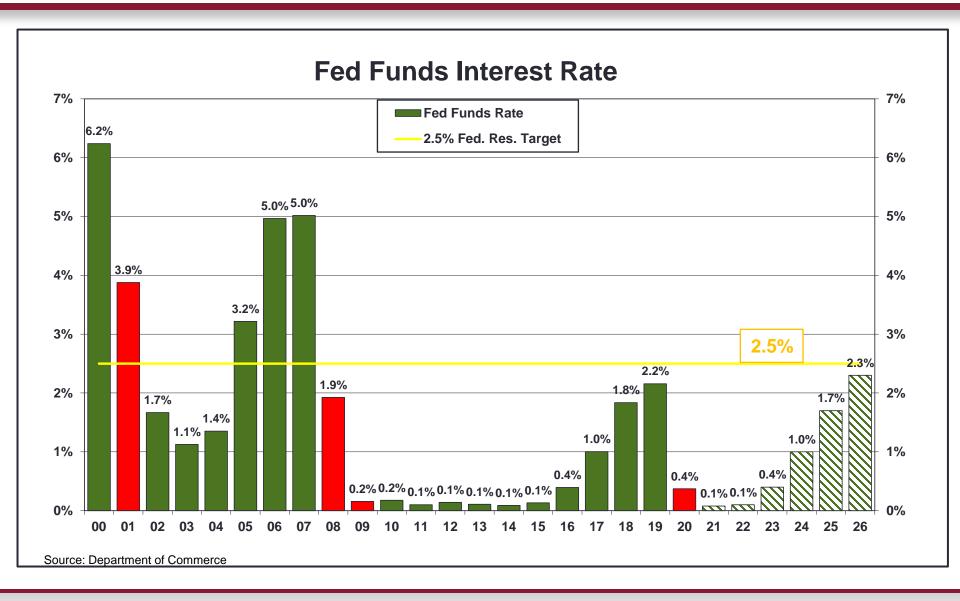
#### Long-term Interest Rates Rising but Still Low



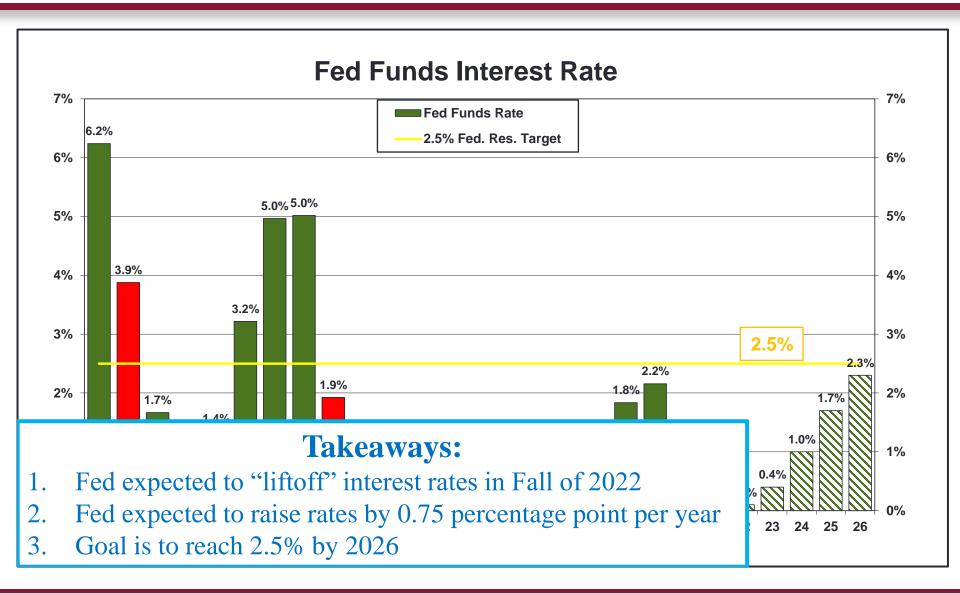
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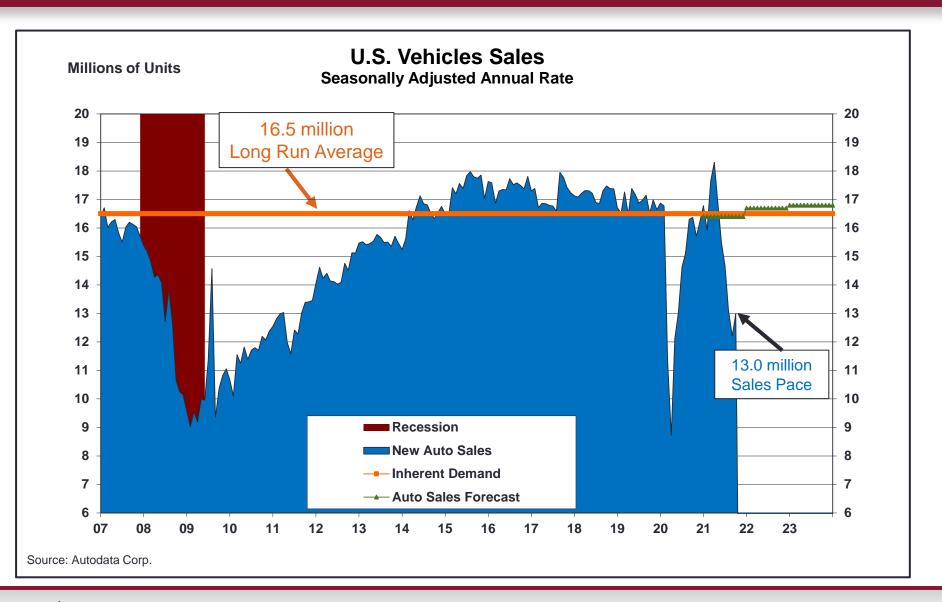
#### **Short-term Interest Rates Rising but Still Low**



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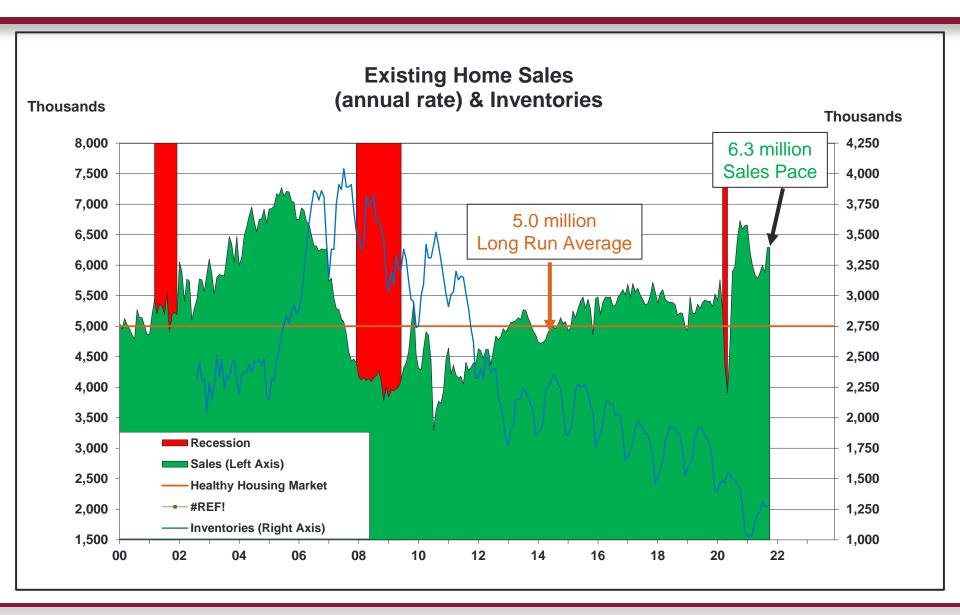


#### Low Auto Sales Below Long-term Trend

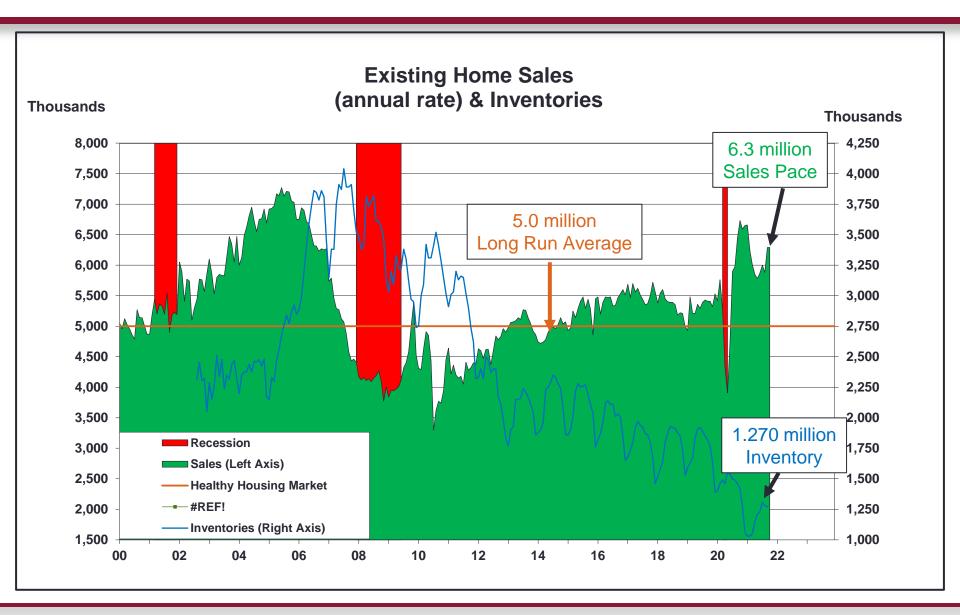


**CUNA MUTUAL** GROUP

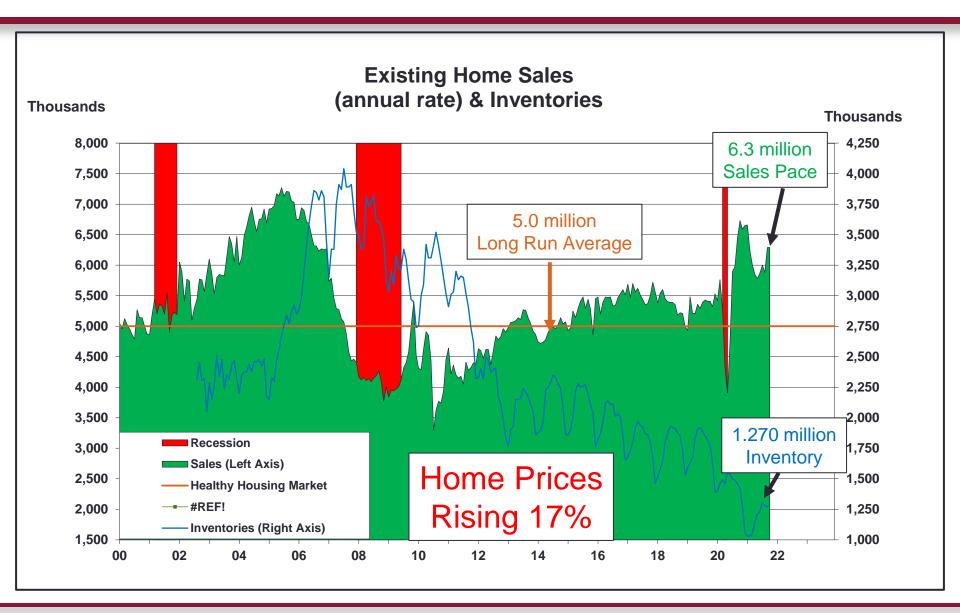
#### Home Sales are Strong, but Inventories are Low



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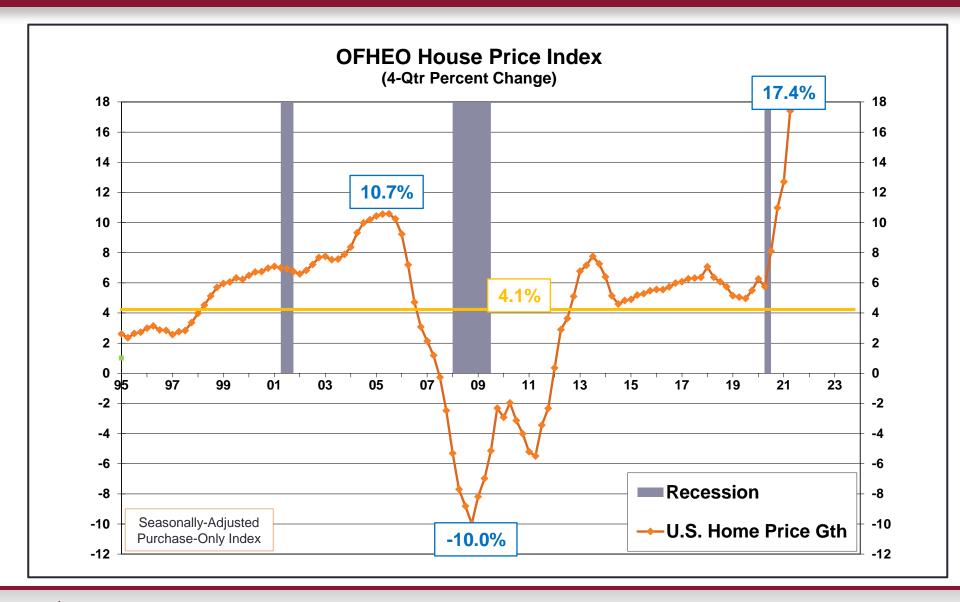


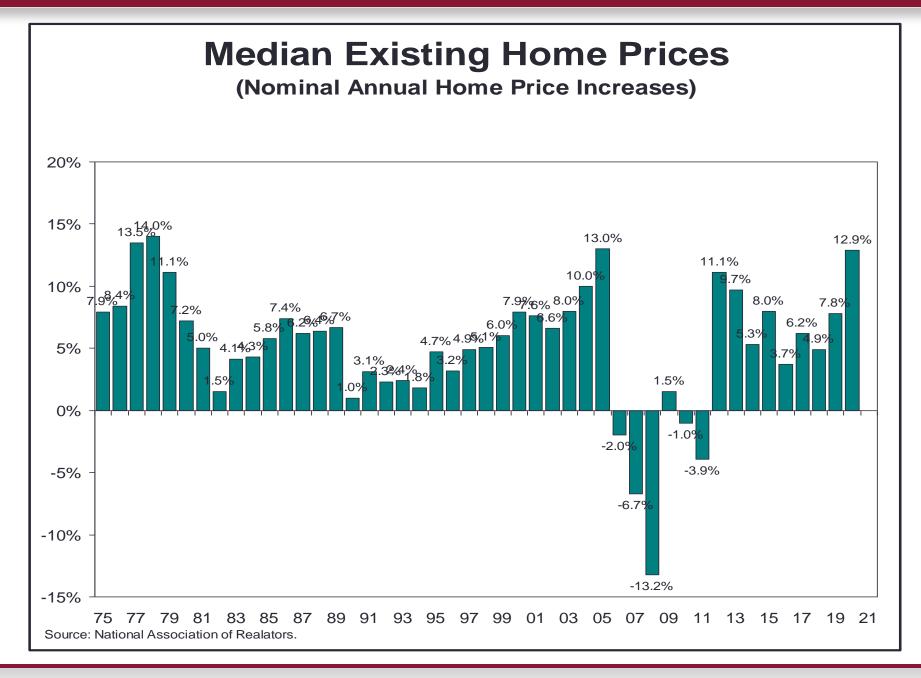
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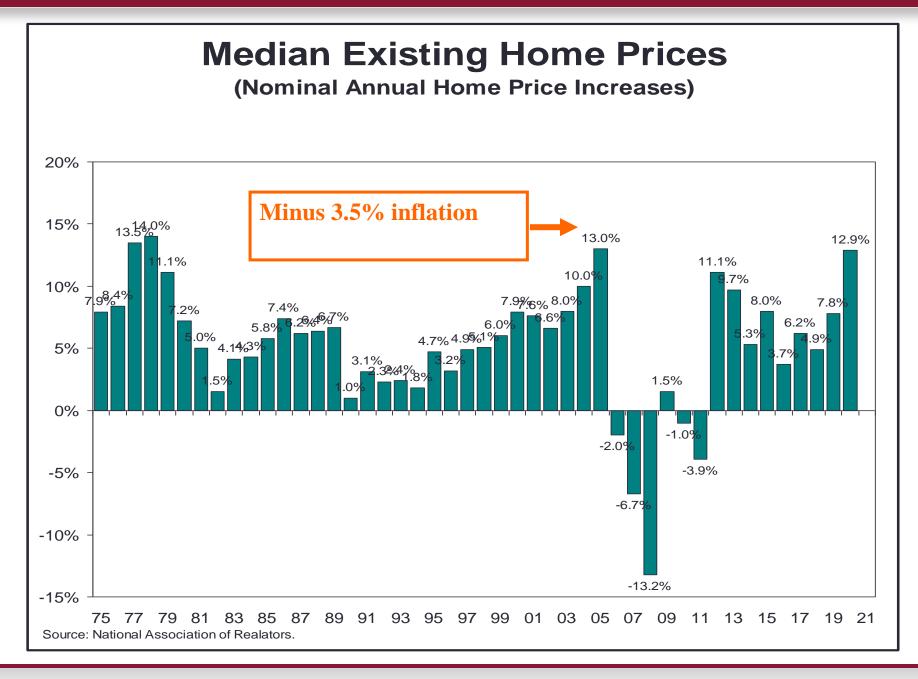


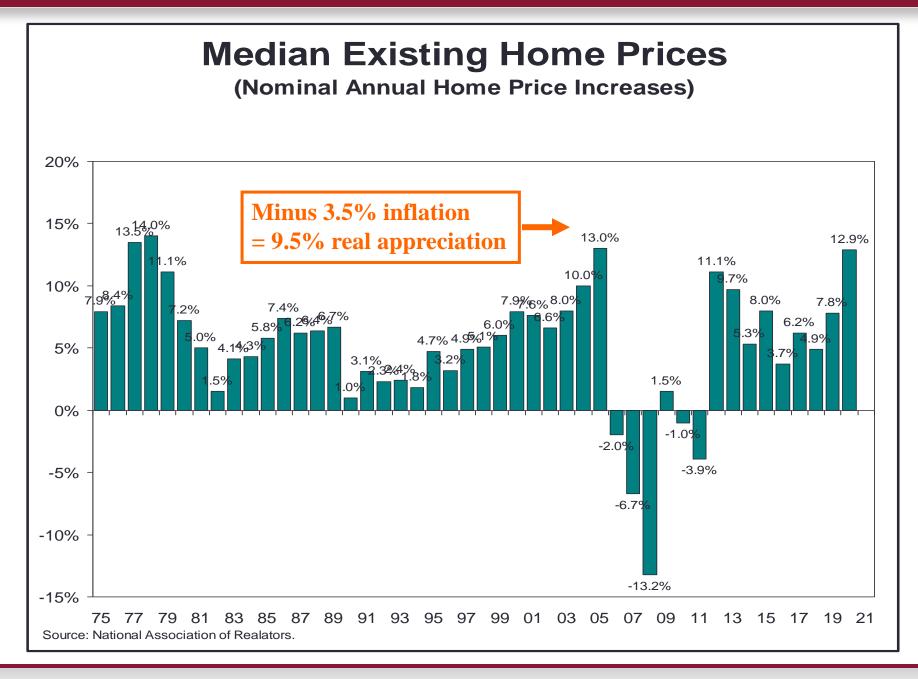
#### **Faster Home Price Growth Rates**

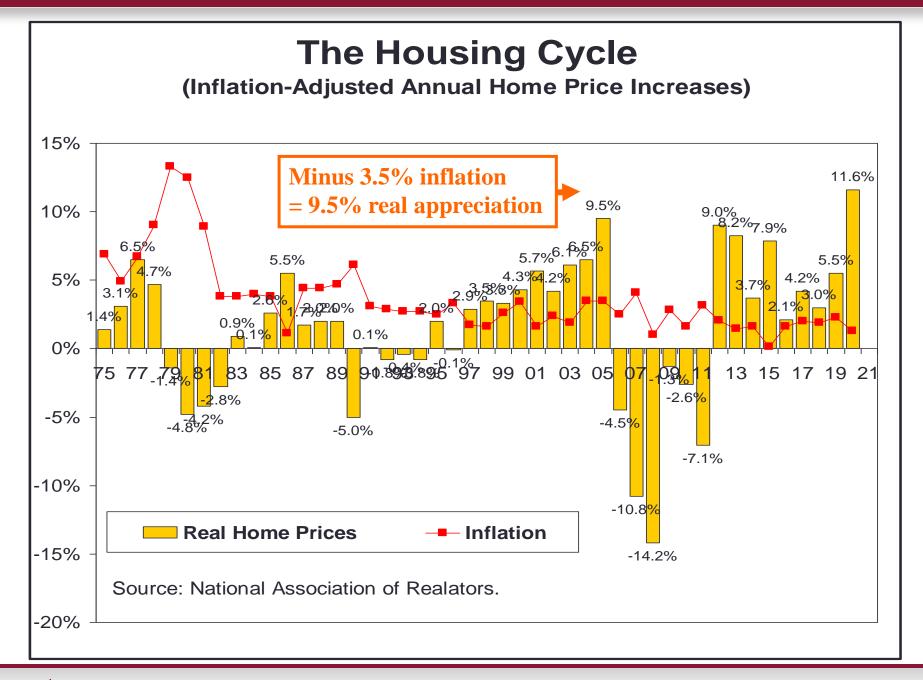
#### will Boost Household Wealth and Consumer Spending

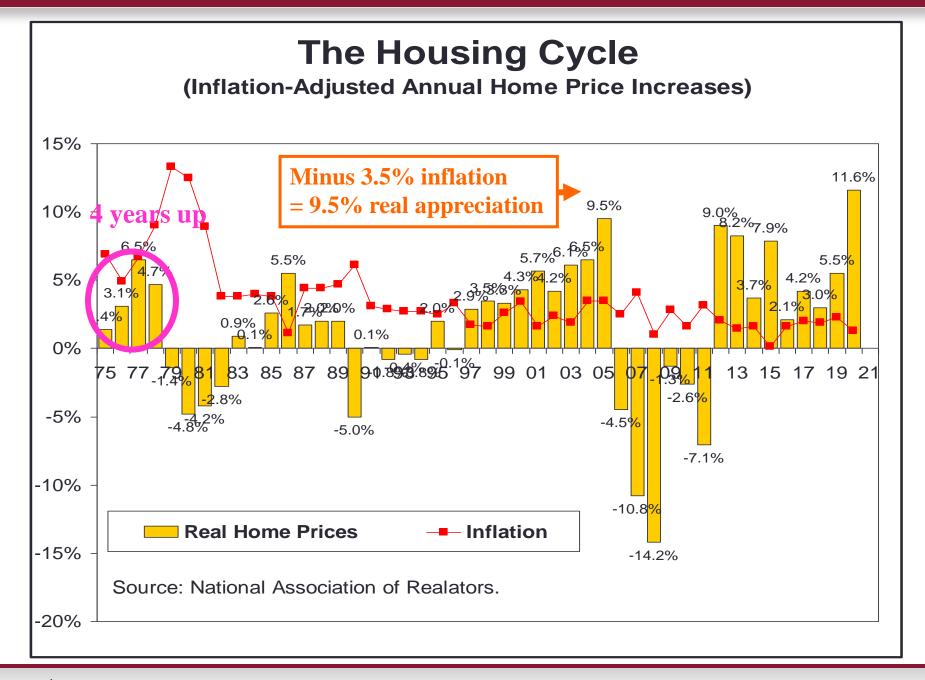


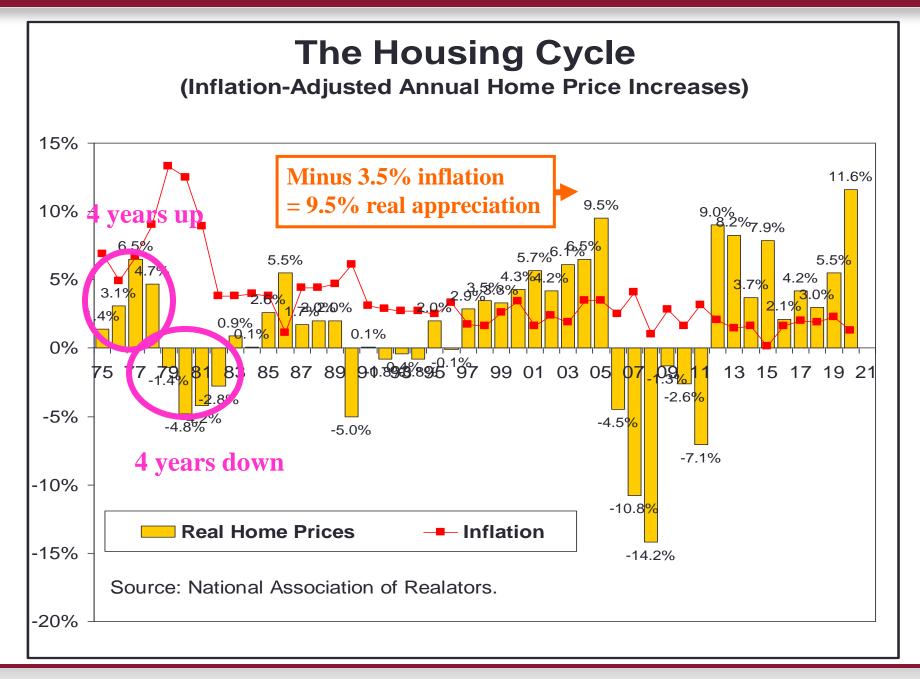


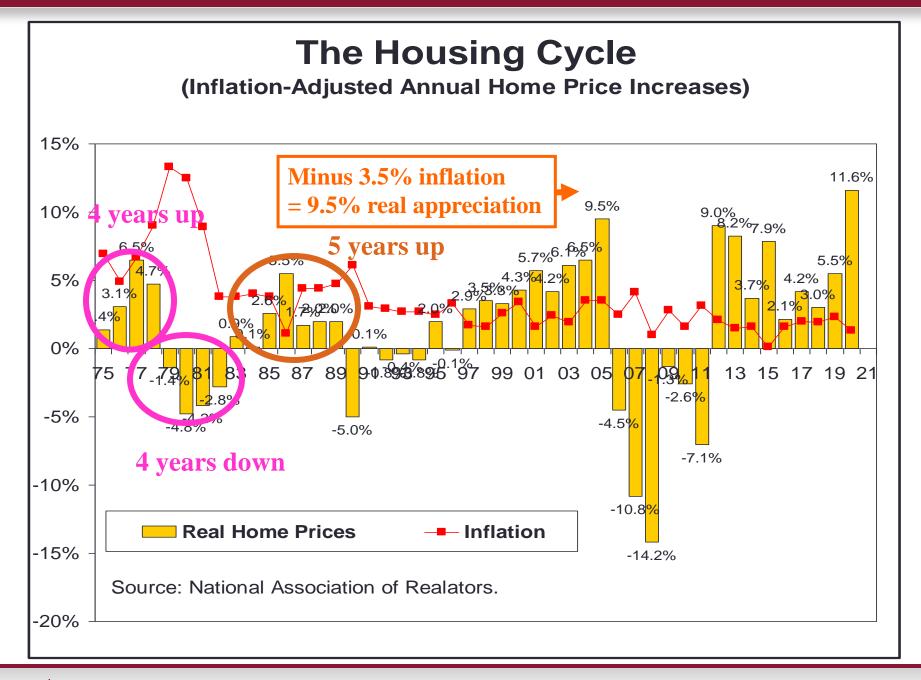


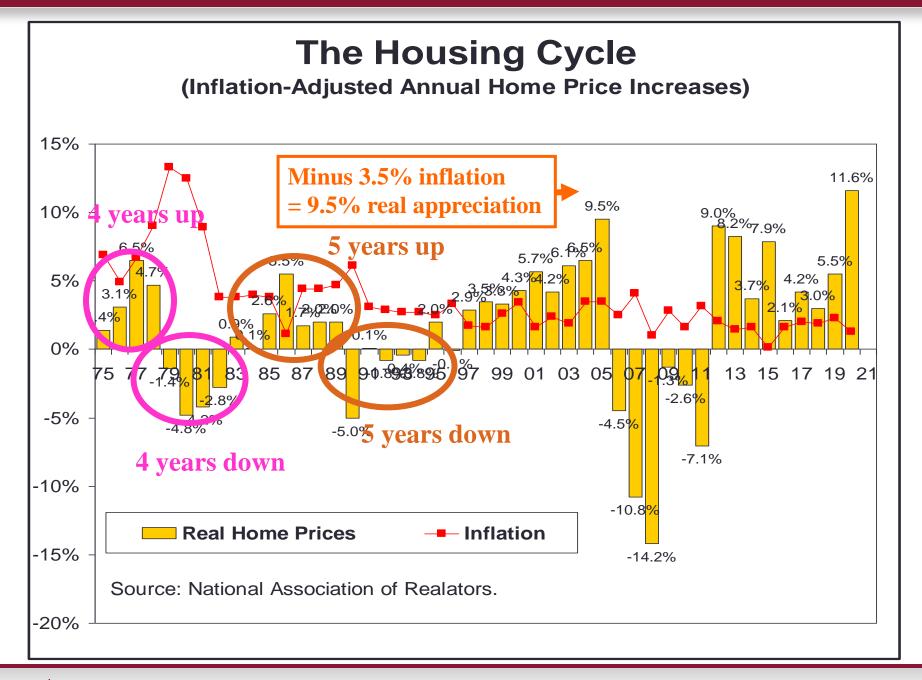


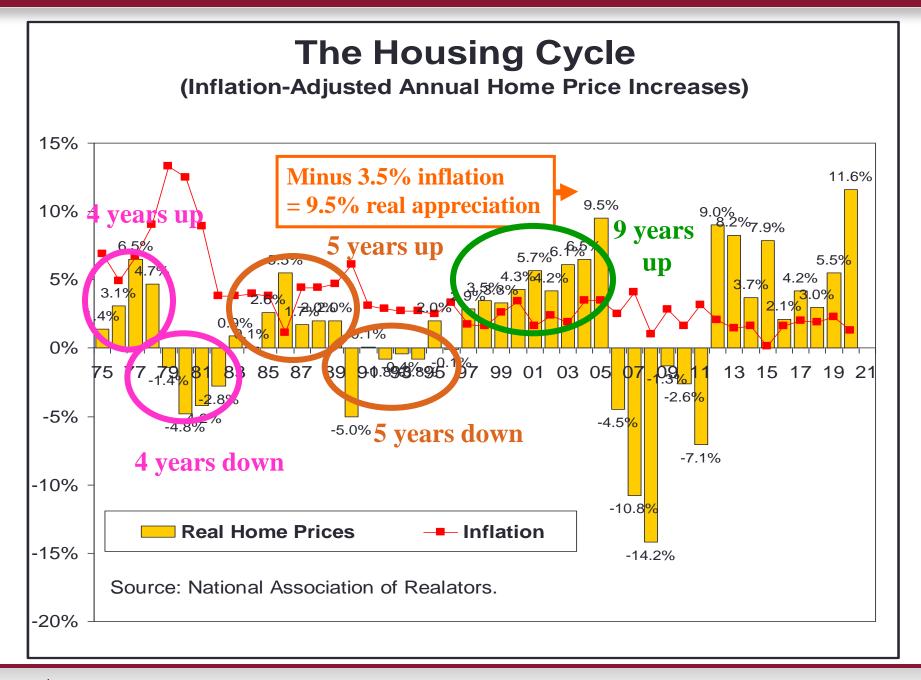


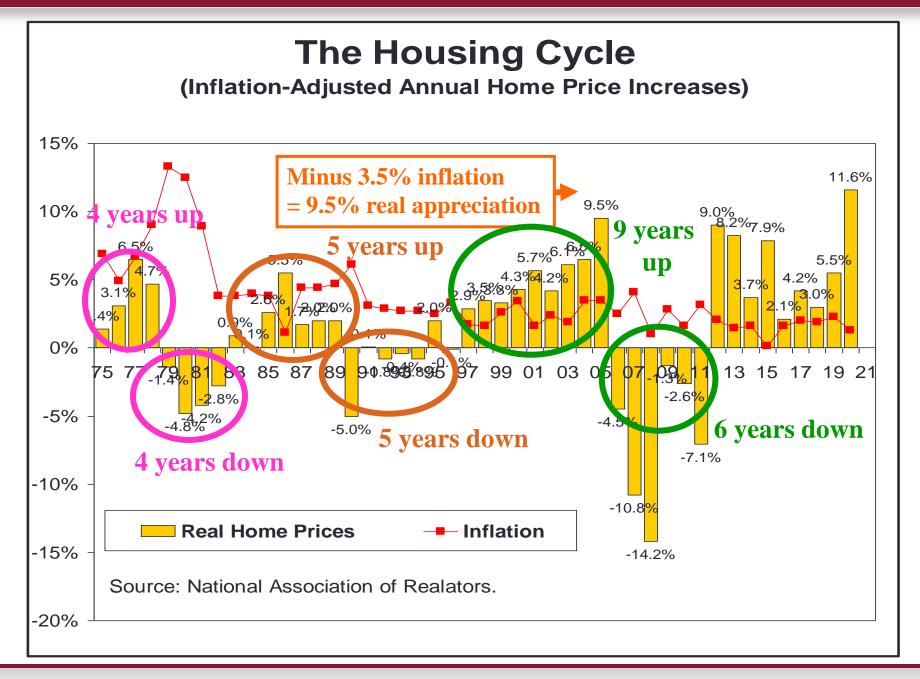


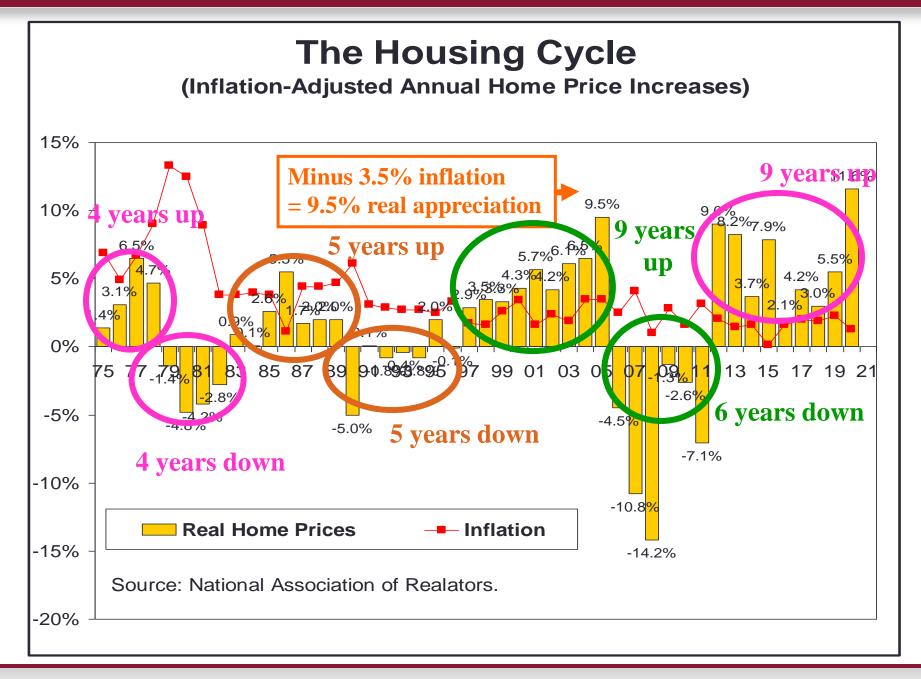




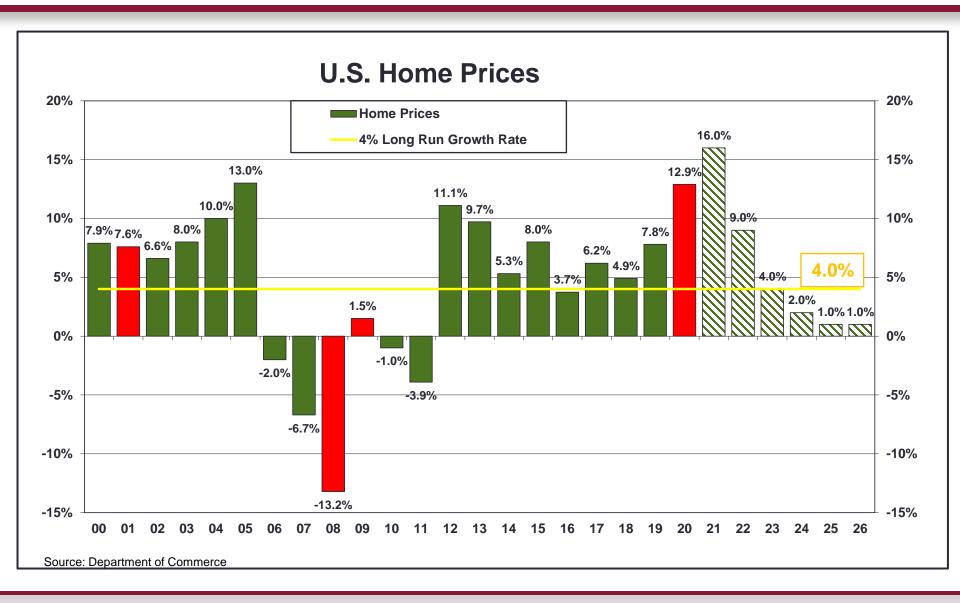




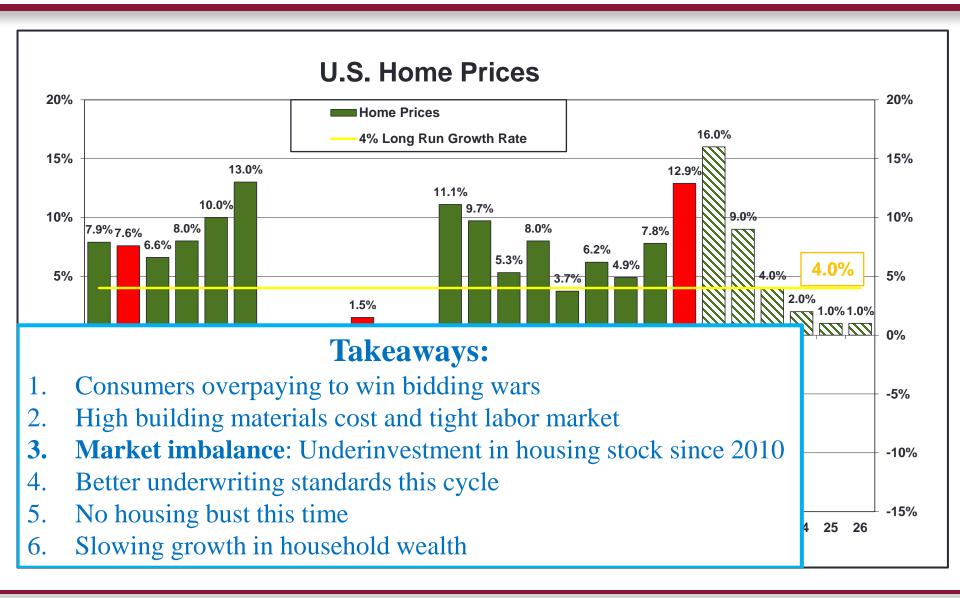


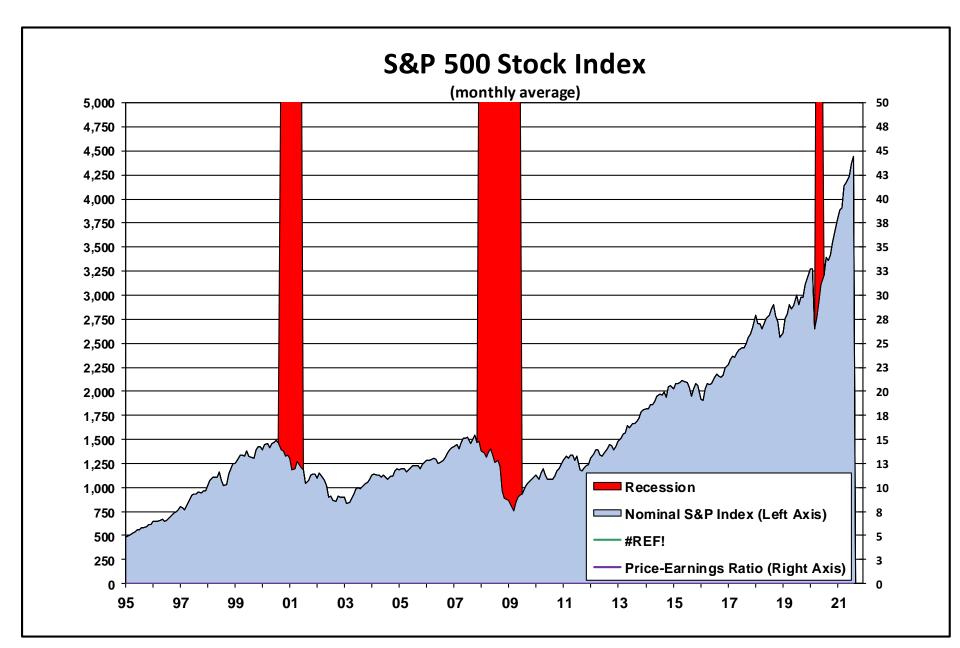


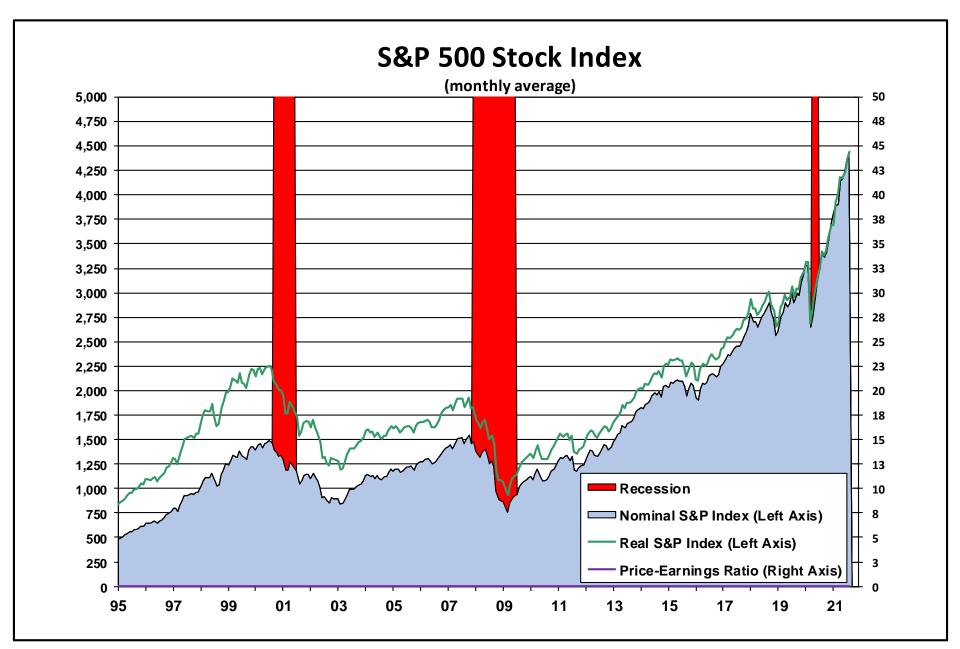
#### **Home Price Growth Rate Slowing**

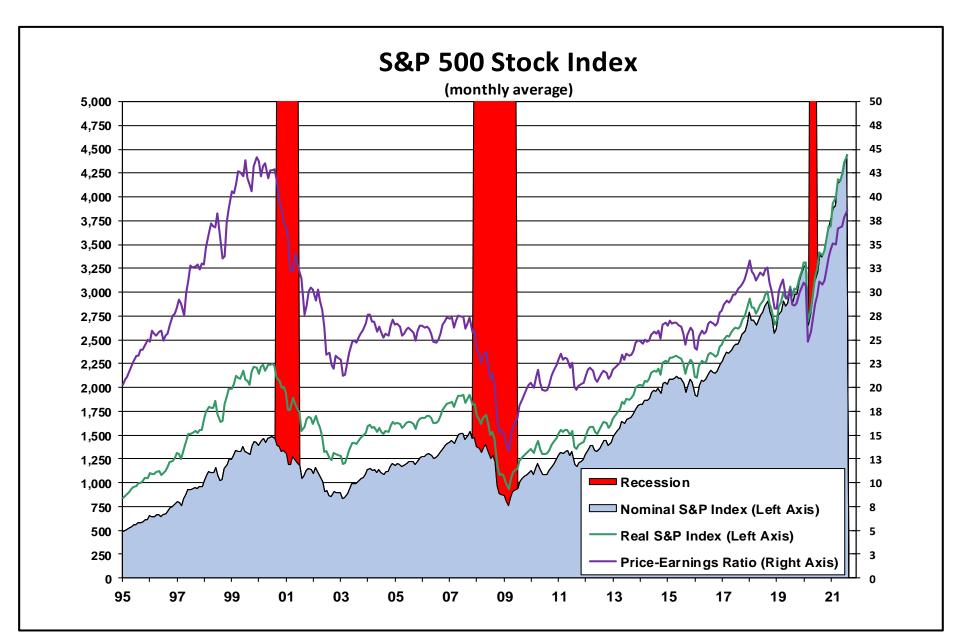


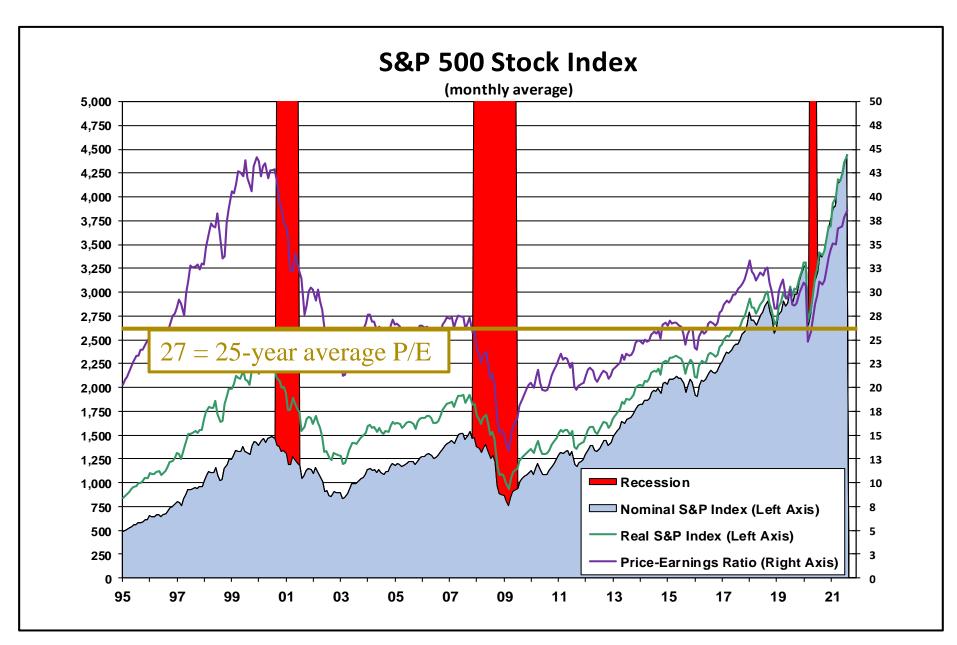
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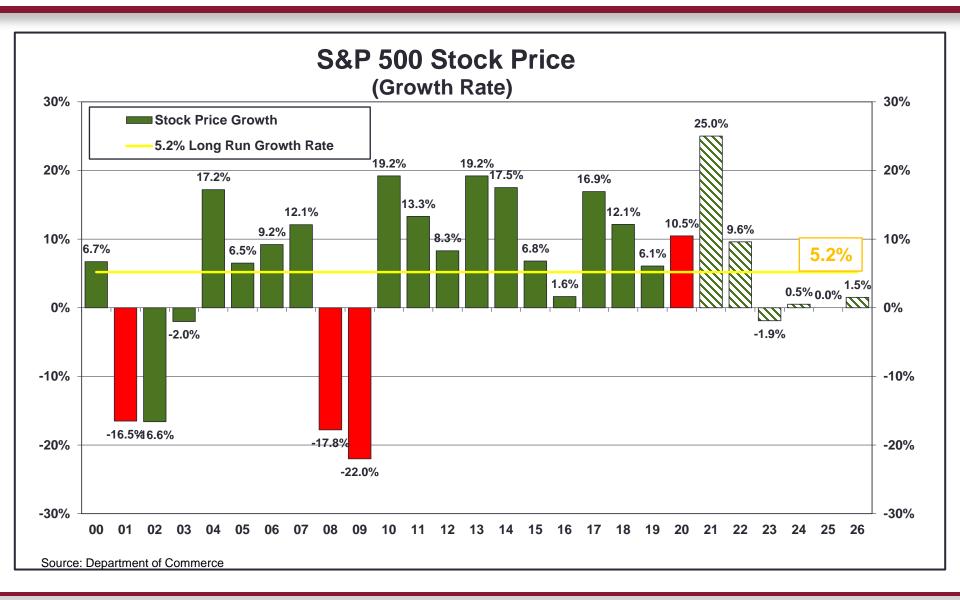




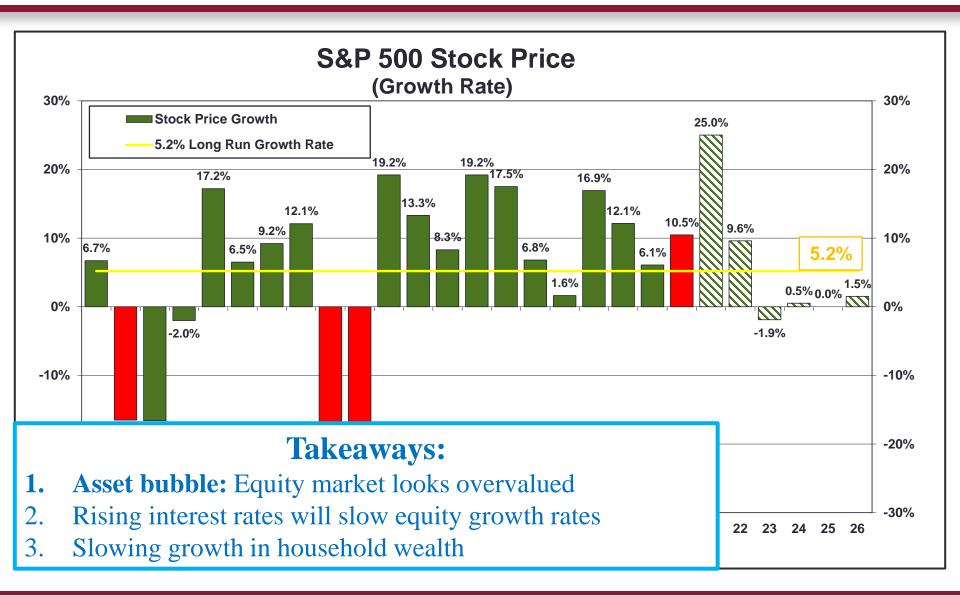
#### **Top 10 Risks to the Stock Market:**

- 1. Higher than expected inflation and bond yields
- 2. New COVID variants that elude vaccines
- 3. A central bank policy error
- 4. Strong economic growth failing to materialize
- 5. Geopolitics
- 6. Worries about the debt burden
- 7. A tech bubble bursting
- 8. Uneven global vaccinations and economic recoveries
- 9. Fiscal policy being tightened too quickly
- 10. Longer-term structural consequences of the COVID shock

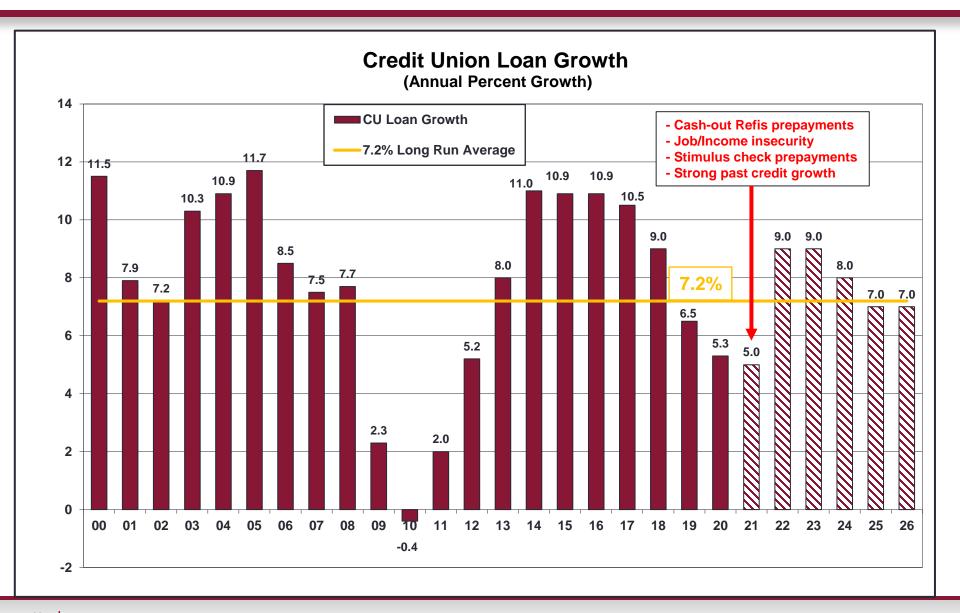
#### Stock Price Growth Rate Slowing Leading to Slower Wealth Creation



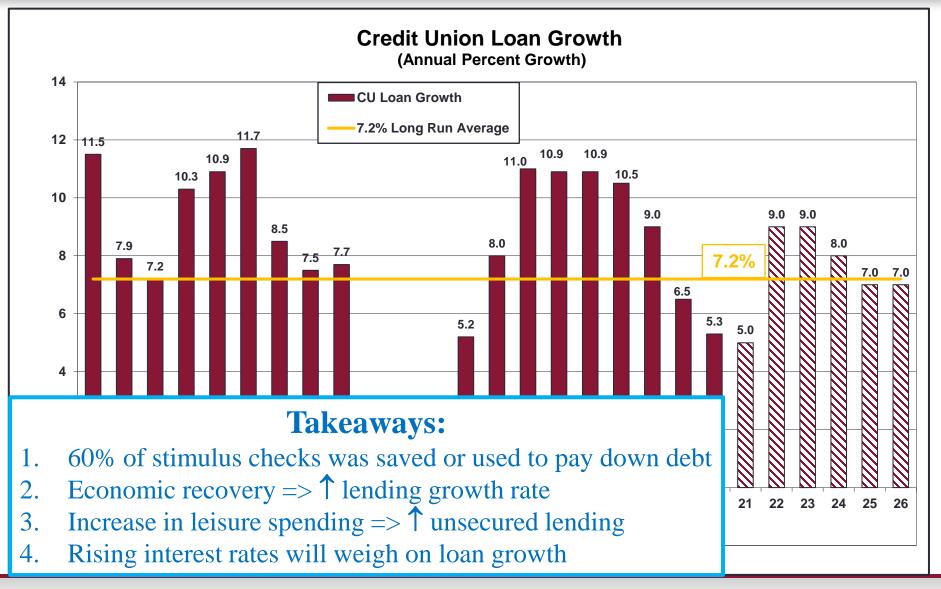
#### Stock Price Growth Rate Slowing Leading to Slower Wealth Creation



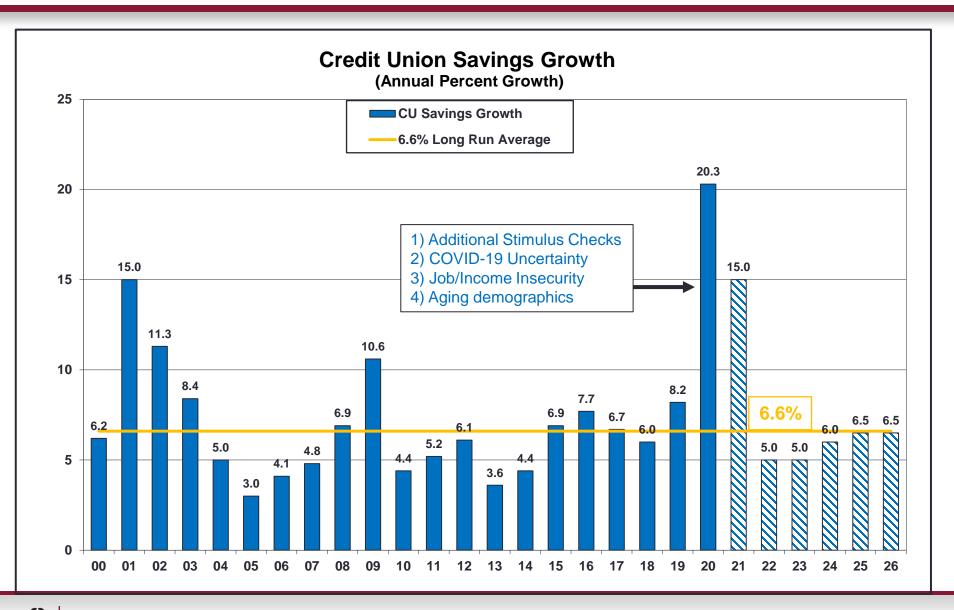
#### **Above Trend Credit Union Loan Growth**



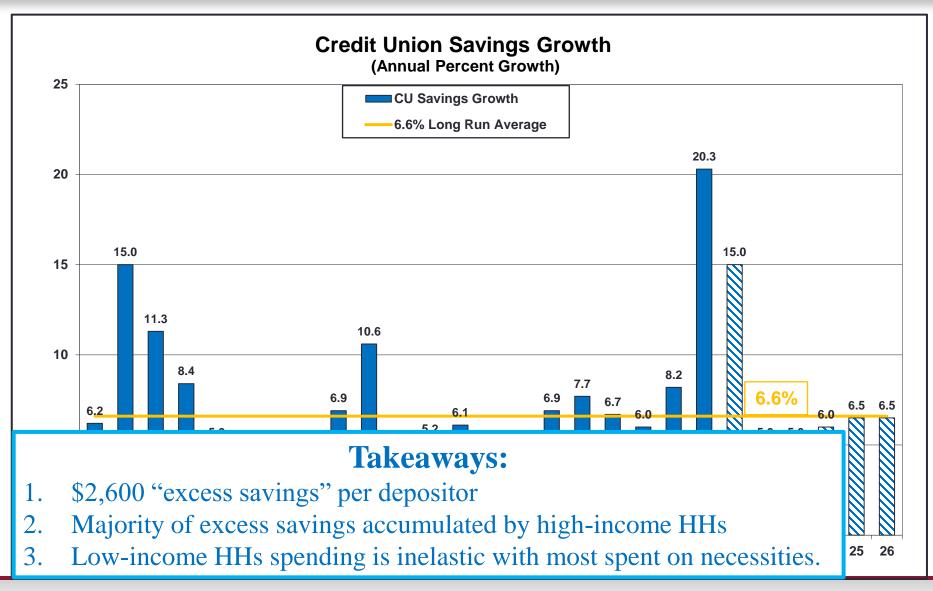
#### **Above Trend Credit Union Loan Growth**



#### **Below Trend Credit Union Saving Growth**



#### **Below Trend Credit Union Saving Growth**





1. Very strong economic growth for the next 2 years



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- 2. Long-term interest rates rising 1 percentage point over the next 2 years



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- 2. Long-term interest rates rising 1 percentage point over the next 2 years
- 3. Unemployment rate staying below normal for next few years
- 4. Housing construction to remain strong for the next few years
- 5. Stock and home price growth slowing after 2022



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