



Economic Forecast

How we got here and where we're going!

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What We Are Going to Cover

Where we've been / How we got here
Where we are going

Where We Have Been Average Home Prices Exploded in 2021

Year	Collin County
2020	\$402,263 +6.42%
2021	\$494,459 +22.92%
2022	\$588,866 +21.12%

Where We Have Been Average Home Prices Exploded in 2021

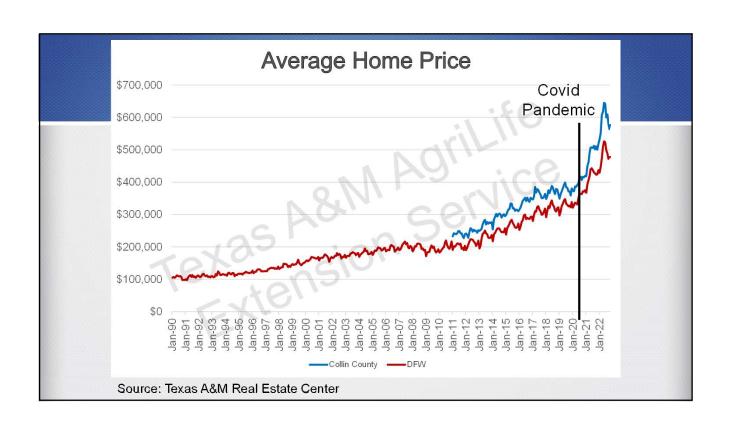
Year	Collin County	DFW
2020	\$402,263 +6.42%	\$353,838 +7.20%
2021	\$494,459 +22.92%	\$423,367 +19.65%
2022	\$588,866 +21.12%	\$487,135 +15.06%

Source: Texas A&M Real Estate Center

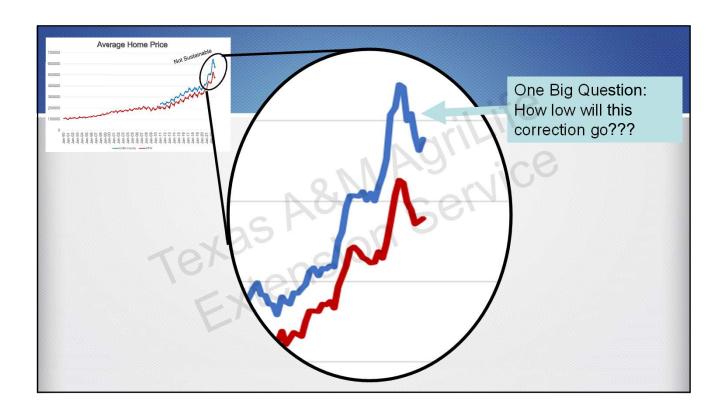
Where We Have Been Average Home Prices Exploded in 2021

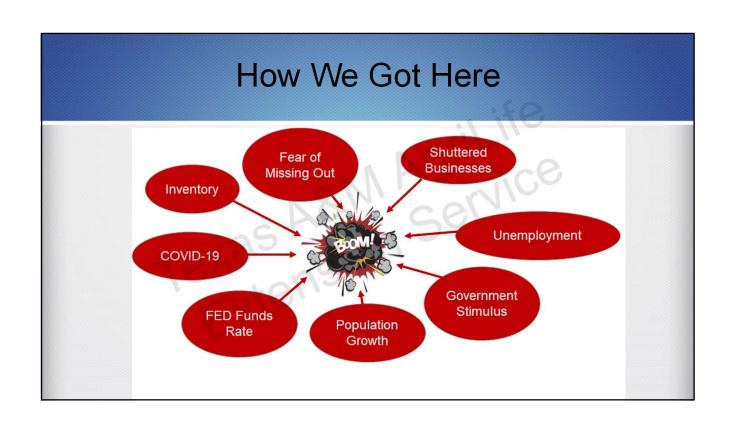
Year	Collin County	DFW	Texas
2020	\$402,263	\$353,838	\$316,296
	+6.42%	+7.20%	+8.16%
2021	\$494,459	\$423,367	\$373, 579
	+22.92%	+19.65%	+18.11%
2022	\$588,866	\$487,135	\$414,854
	+21.12%	+15.06%	+11.05%

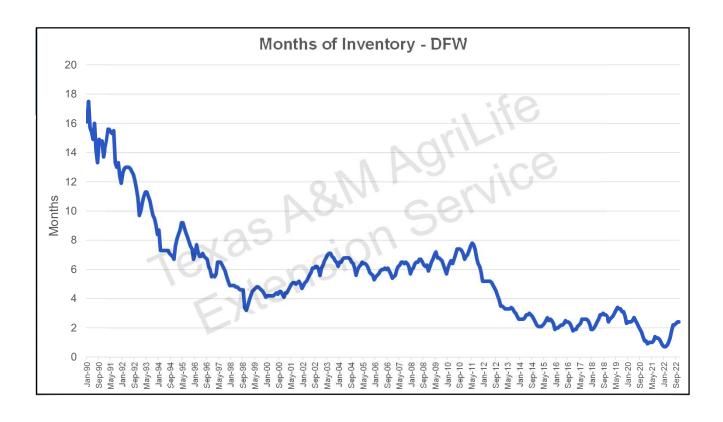
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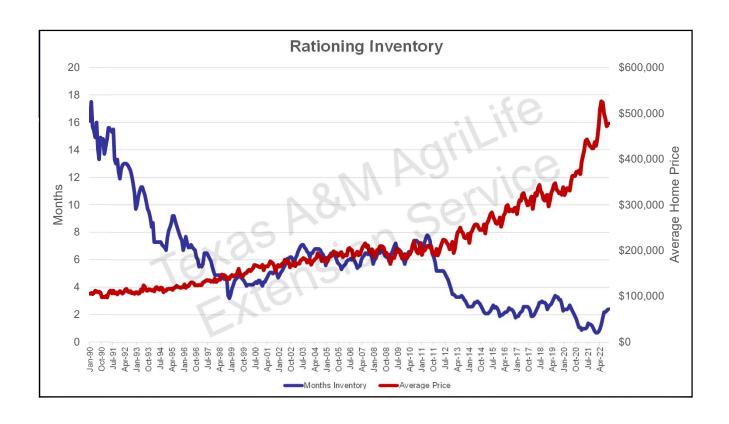


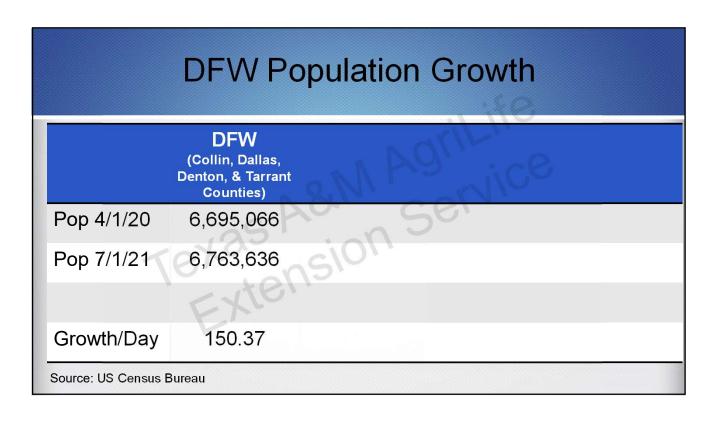












DFW	Popi	ulation	Growth

	DFW (Collin, Dallas, Denton, & Tarrant Counties)	Denton
Pop 4/1/20	6,695,066	906,422
Pop 7/1/21	6,763,636	941,647
Growth/Day	150.37	77.25
Source: US Census I	Bureau	

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	DFW (Collin, Dallas, Denton, & Tarrant Counties)	en Re	Denton	Collin
Pop 4/1/20	6,695,066	5	906,422	1,064,465
Pop 7/1/21	6,763,636	5101,	941,647	1,109,462
	EXTE			
Growth/Day	150.37		77.25	98.67
Source: US Census E	Bureau			

DFW Population Growth

. 9	DFW (Collin, Dallas, Denton, & Tarrant Counties)	Denton	Collin		
Annual Pop. Increase	55,885	28,196	36,015		
Assume 4 / Household					
New Dwellings Required / Yr	13,721	7,049	9,004		
% of All 2021 Sales	12.24%	26.74%	50.00%		

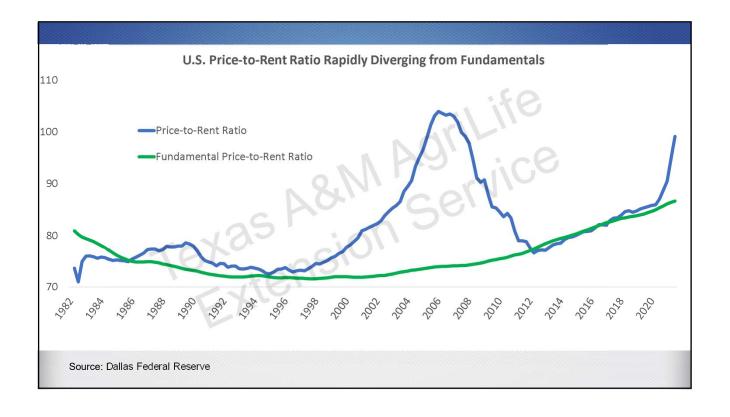


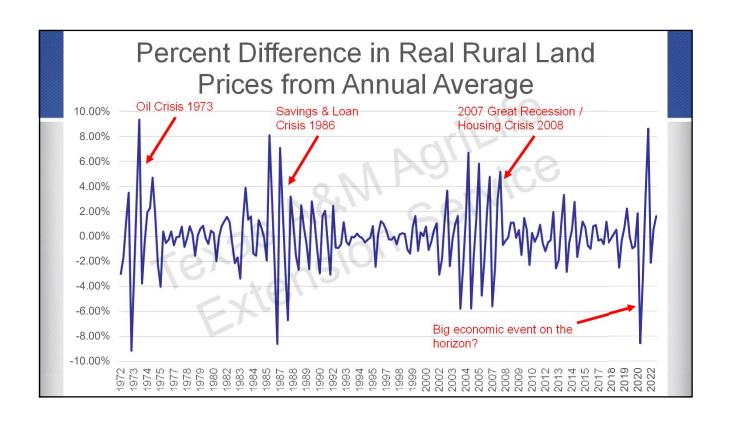
What's Ahead...Economic Uncertainty

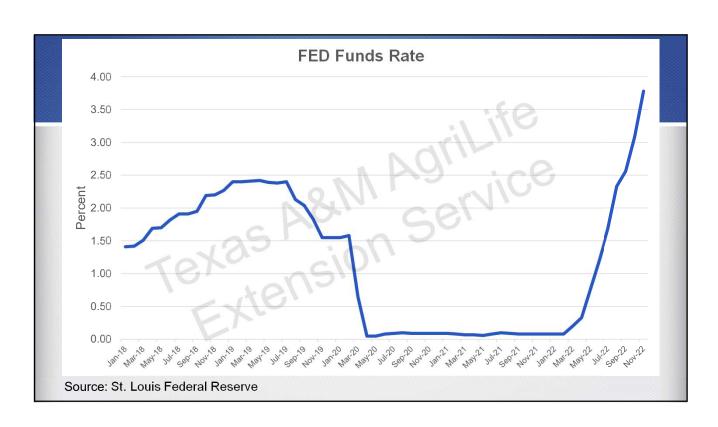


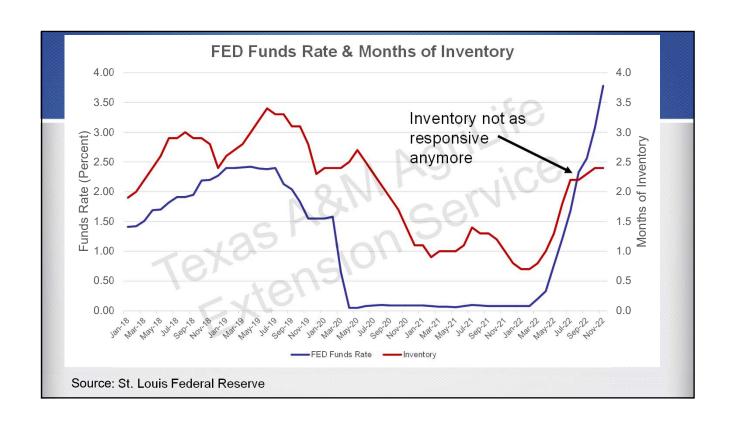
Google's Most Searched Definitions for 2022

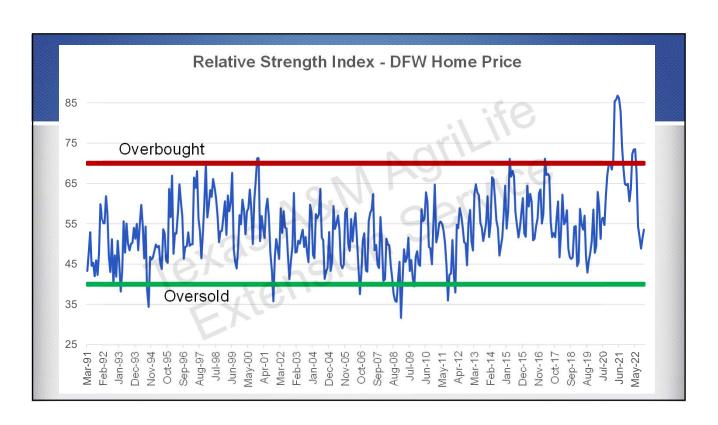
- 1. Rupee Wordle answer
- 2. Oligarch Russian Businessmen
- 3. Cacao Wordle answer
- 4. Homer Wordle answer
- 5. Recession
- 6. Canny Wordle answer
- 7. Foray Wordle answer
- 8. Trove Wordle answer
- 9. Saute Wordle answer
- 10. Tacit Wordle answer











Forecasts for 2023

- Sales and price data from Texas A&M Real Estate Center
 Remove inflation by converting to 2022 dollars (real dollars)
- Seasonal Index
- Actual forecast

Why Remove Inflation?

· Inflation is the rise in prices over time

Nominal Price					
Year	Price				
1977	\$2.23				
2022	\$9.17				



(2022 Dollars)				
Price				
\$9.97				
\$9.17				

What it looks like in housing

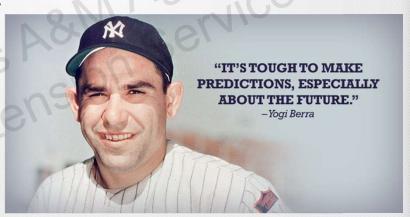
Date	Nominal Price of Average DFW Home	
Jan 1990	\$105,280	
Nov 2022	\$477,900	

What it looks like in housing

Date	Nominal Price of Average DFW Home	Real Price of Average DFW Home (Nov 2022 Dollars)
Jan 1990	\$105,280	\$246,354
Nov 2022	\$477,900	\$477,900
	Ex	

Now We Ammunition for Forecasting

- · Forecast collaboration with Dr. Mark Welch
 - Texas A&M University



Step 1: Seasonal Price Index

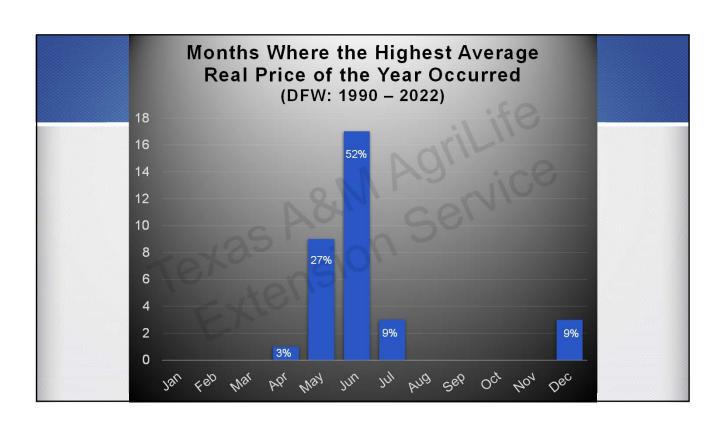
seasonality [see-zuh-nal-i-tee]

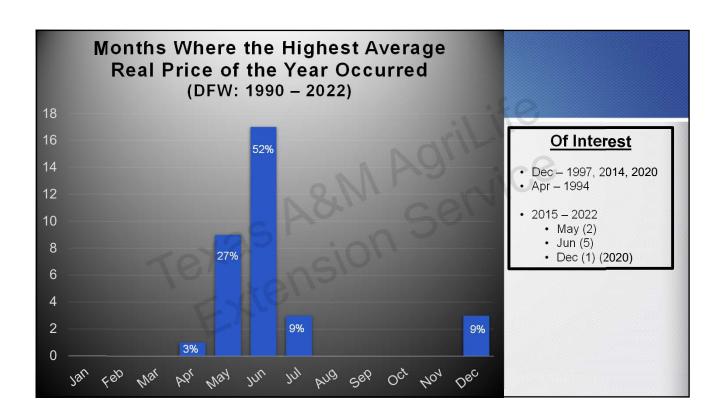
regular and predictable changes that recur every calendar year in a business or economy based on the seasons

Investopedia

Seasonality Quiz 1

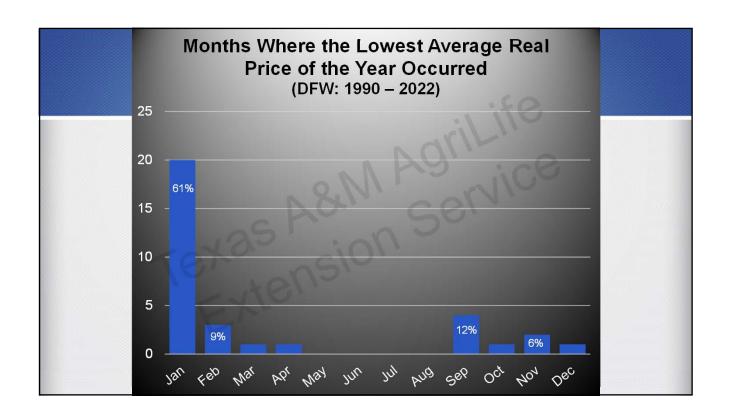
- Between January 1990 and December 2022 can you guess the month when...
 - –The highest average annual price of homes in DFW typically occurs?
 - June

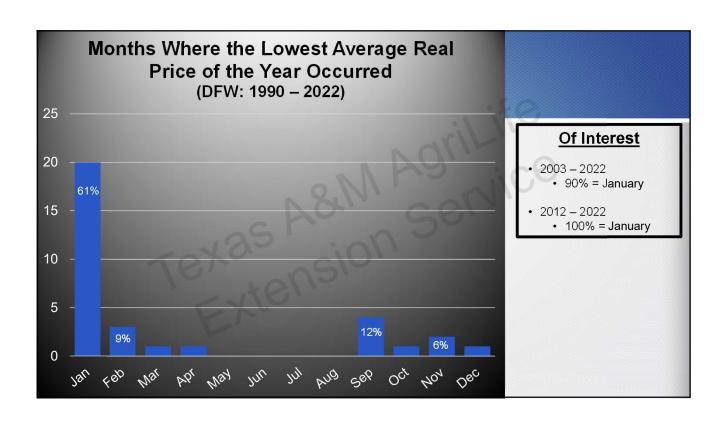




Seasonality Quiz 2

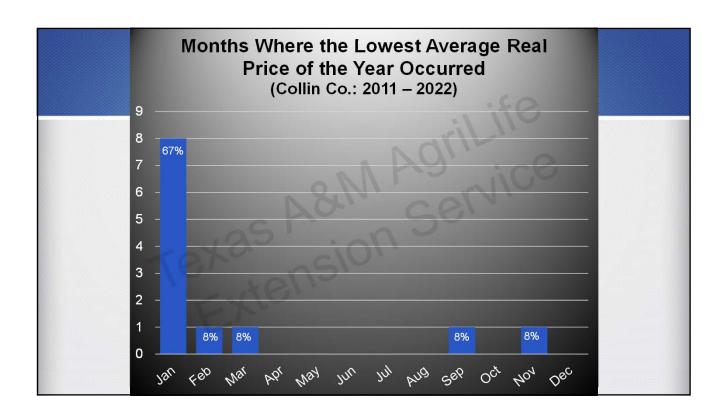
- Between January 1990 and December 2022 can you guess the month when...
 - -The lowest average annual price of homes in DFW typically occurs?
 - January

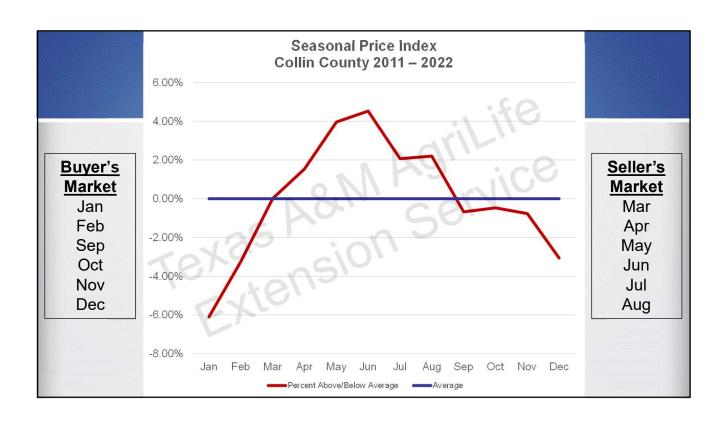




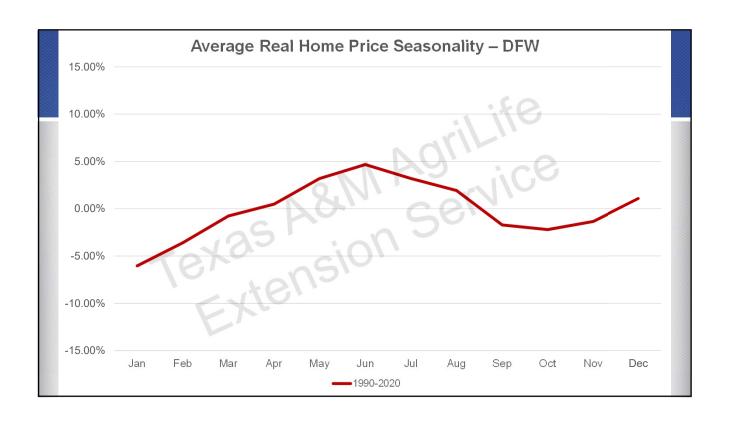


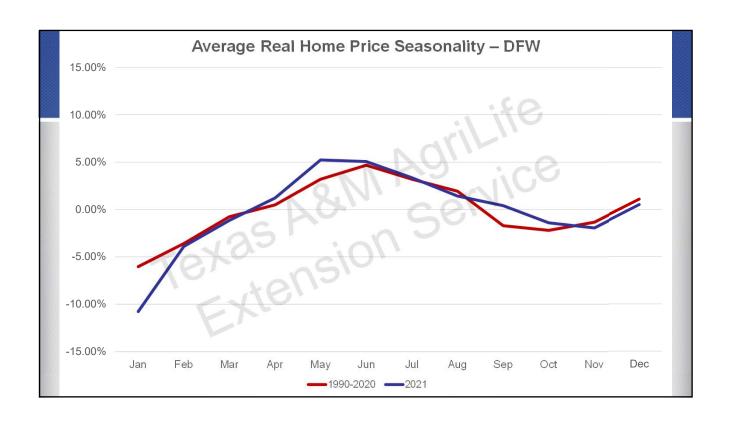


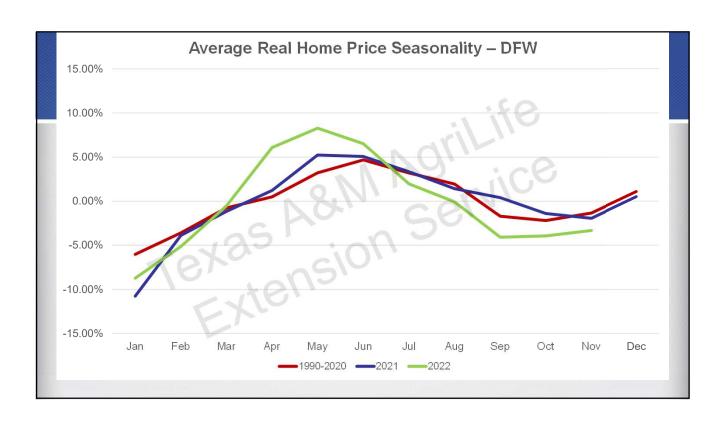


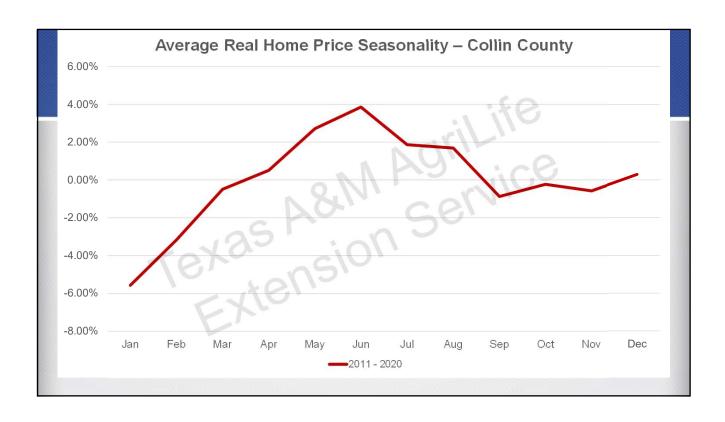


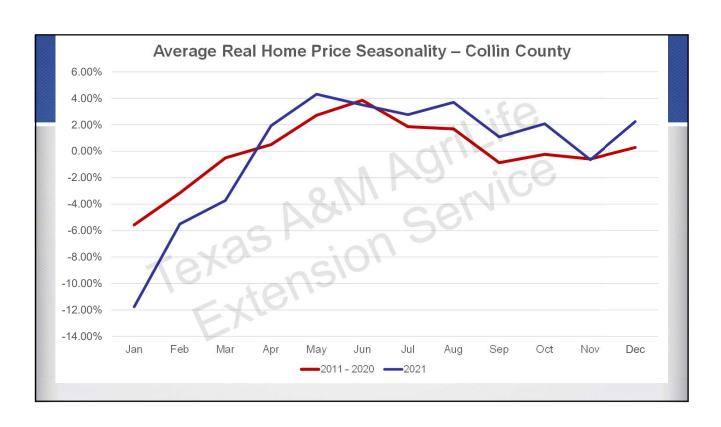
Surely this pattern has been different over the past two years...

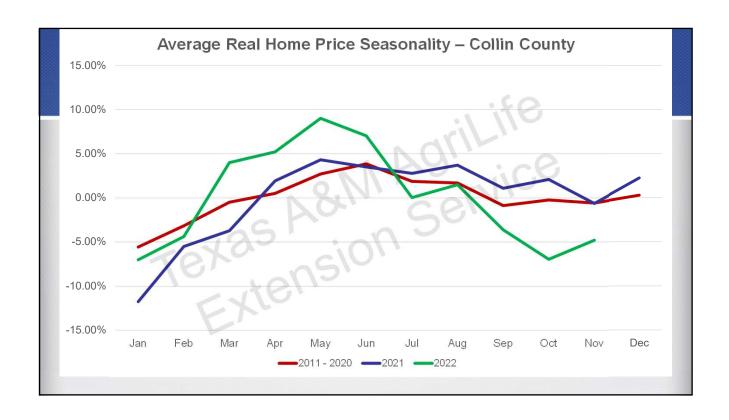












This Suggests...

- Yes, real values increased significantly in 2021 and 2022
- Seasonality Patter
 - DFW Not a big difference
 - Collin County
 - 2021 Not much a variation from history
 - 2022 Larger variation
- Traditional seasonal pattern held

Other Interesting Facts

Average Percentage Price Increase Jan – Jun

11.31% Collin County (2011 - 2022)

Texas Asin Service DFW (2011 - 2022) 16.26%

Other Interesting Facts

Average Percentage Price Increase Jan – Jun

11.31% Collin County (2011 - 2022)

16.26% DFW (2011 - 2022)

Texas Asin Service DFW (1990 - 2022) 11.73%

Other Interesting Facts

Average Percentage Price Increase Jan – Jun	
2 0///-	
Collin County (2011 – 2022)	11.31%
DFW (2011 – 2022)	16.26%
DFW (1990 – 2022)	11.73%
Current Year's High = <u>Higher Than</u> Last Year's High	
Collin County (2011 – 2022)	90.91%
DFW (2011 – 2022)	83.33%

Other	Intere	estina	Facts

Average Percentage Price Increase Jan – Jun	
Collin County (2011 – 2022)	11.31%
DFW (2011 – 2022)	16.26%
DFW (1990 – 2022)	11.73%
Current Year's High = <u>Higher Than</u> Last Year's High	
Collin County (2011 – 2022)	90.91%
DFW (2011 – 2022)	83.33%
DFW (1990 – 2022)	68.75%

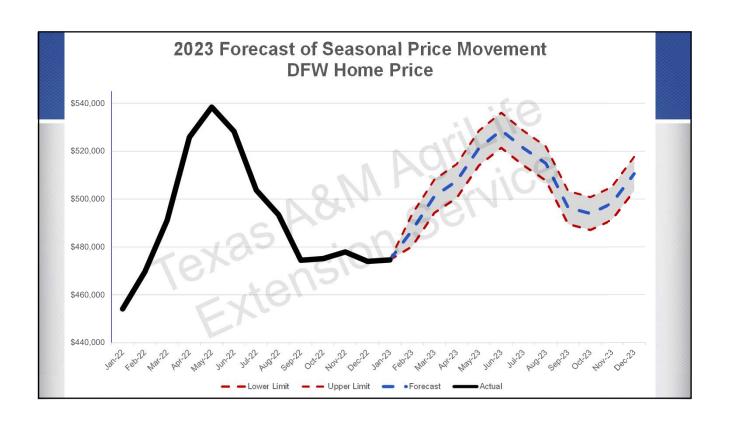
If we assume traditional seasonal patterns hold for 2023...

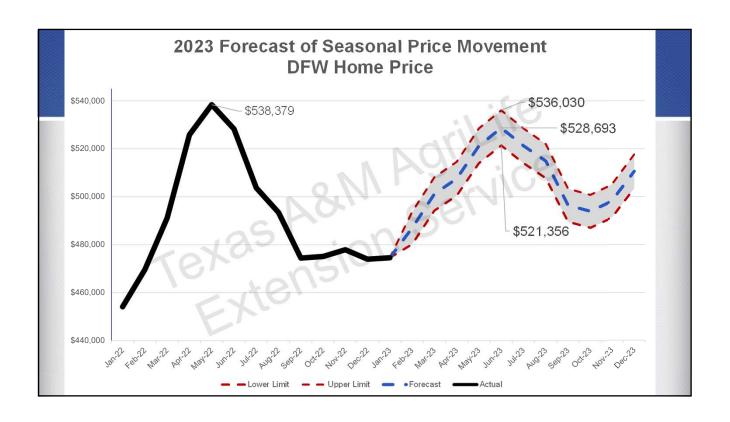
All that is left is forecast the 2023 average price

Forecast of 2023 Average DFW Home Price

- Runaway market to the upside is likely over
 - FED got market's attention
 - Population worried about economy
- Not going to fall out of bed
 - Population growth continues
 - Inventory still extremely low
 - New home permits still strong in 2022 (even with drop in Q4)
 - Return to "normal" seasonalities

Forecast of 2023 Average DFW Home Price Recession Continued Economic Growth Hard Landing Set Landing 5% Change DFW GDP -1% 2.5% -3% Forecasted DFW Price \$490,06 \$498,066 \$512,084 \$522,126 % Change from 2022 -1.42% +0.19% +3.01% +5.03%





Only Half Done

- · Many forecasts of price are available
 - Easier to do
 - What we most often think about
- But...
 - Average price could equal \$500,000 with 100,000 sales
 - Average price could equal \$500,000 with 75,000 sales

Forecast of Sales

- · Why it isn't done much
 - A LOT more difficult
 - Not as sexy as forecasts of price
 - Doesn't matter to many outside real estate industry
- For this group
 - Just as important as forecast of price

Forecast of Total Home Sales in DFW

- Concern Over FED's Actions
 - Some holding out waiting for a drop in rates
 - FED survey members
 - Survey of FED members suggest increase to 5.25% to 5.5% in 2023
 - Two members suggested 5.5% to 5.75%
- · Not going to collapse
 - Again, population growth continues
 - Inventory still extremely low
 - Disposable personal income still rising
 - New home permits still strong in 2022 (even with drop in Q4)

Forecast of Total Home Sales in DFW

	Best Case	Most Likely	Worst Case
FED Funds Rate	5.25%	5.38%	5.75%
Forecasted DFW Sales	98,168	98,010	97,536
% Change from 2022	-0.57%	-0.73%	-1.21%

Even With All This...

- Everyone Still Worried we have "2008 2.0"
 - "The Big Short" (2015)
 - 13,689,072 people have watched the trailer since April
 - "Margin Call" (2011)
 - Google search up 130% in 2022
 - "Too Big To Fail" (2011)
 - Interest on Google peaked in January 2021



Today is Different from 2008

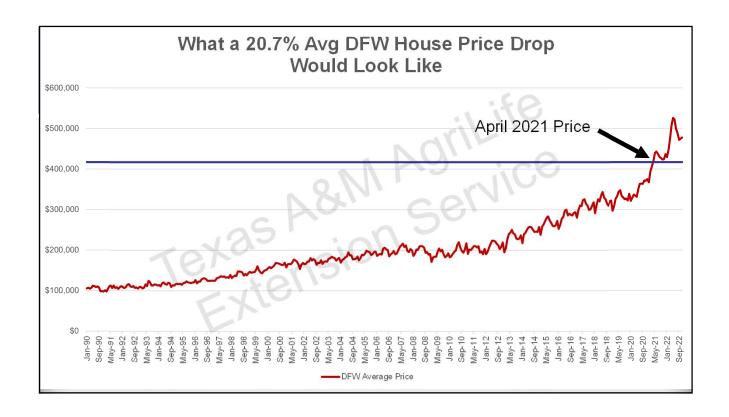
	2008	Today
Lending	Subprime lending (Oprah like)	Strict regulations; Banks well capitalized
ARMs facing rate resets	Over 13 million	1.4 million
HELOC Balance	\$705 billion	\$322 billion
Foreclosures	1,755,860	87,860
Bankruptcies	1,548,160	285,180
Months Inventory (DFW)	5.9 months	2.4 months (0.8 in Jan'22)

But, What If???

- We Get a Repeat of 2008?
 - DFW
 - Average home prices peaked in June 2007 at \$216,212
 - Bottomed out in January 2009 at \$173,379

That's a 20.7% Drop!!!

Wonder how much was due to seasonalities (January low; June high)???



Things to Watch

- · Market correction continues down if
 - Continued uncertainty
 - Public not certain if lower rates are on horizon (hold off now)
 - Unemployment
 - Massive layoffs will result in softer market
 - Economy
 - Hard landing = pull back

Things to Watch

- · Market prices start increasing
 - Get the soft landing
 - Economy shows signs of improving
 - Dodge recession bullet

Regardless of the Macroeconomic Situation

- 2023 Looks relatively safe
 - Still have supply/demand imbalance
 - Population increasing
 - DFW/Texas different from US economy
 - Seasonal patterns have proven to be extremely resilient

2024 Is on the Watchlist

- Inflation
 - Not as large in 2023, but prices likely not decreasing
 - Supply/Chain issues???
 - War in Ukraine Fuel prices
 - FED still chasing demand when supply may be biggest problem
- New home permits
 - Dip in Q4 of 2022...will it continue???
- Recession???
 - Consumer disposable income takes a hit
- But, will be an election year

Thank You

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