

Agenda

WHY U.S. GDP TRAJECTORY MATTERS

Trajectory of U.S. GDP

KEY FACTORS SHAPING THE U.S. FORECAST

- Covid19 Pandemic and Resulting Recession
- Fiscal Policy
- Policies on Trade, Immigration, and Climate
- Structural Change
- Latest Data
- Forecast for GDP and Interest Rates

FLORIDA FORECAST

- Population and Employment Growth
- State General Fund Budget

IMPLICATIONS FOR FEFP MEMBERS

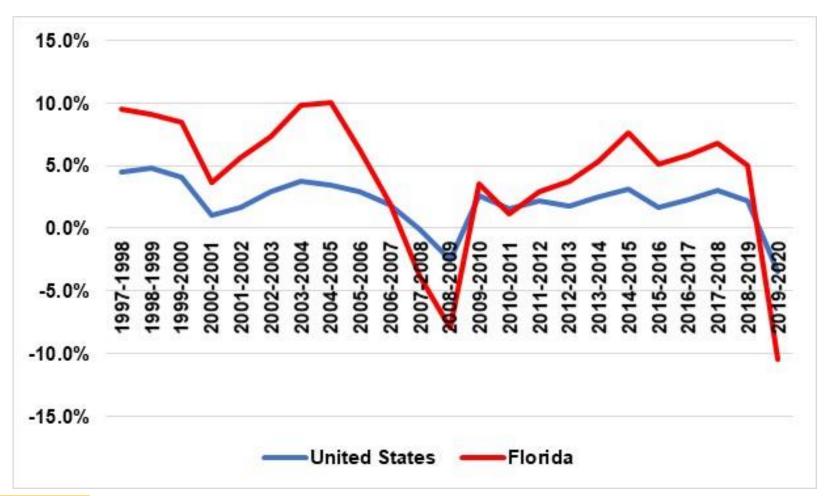
- Demographic changes
- Cost impacts



Why U.S. GDP Trajectory Matters

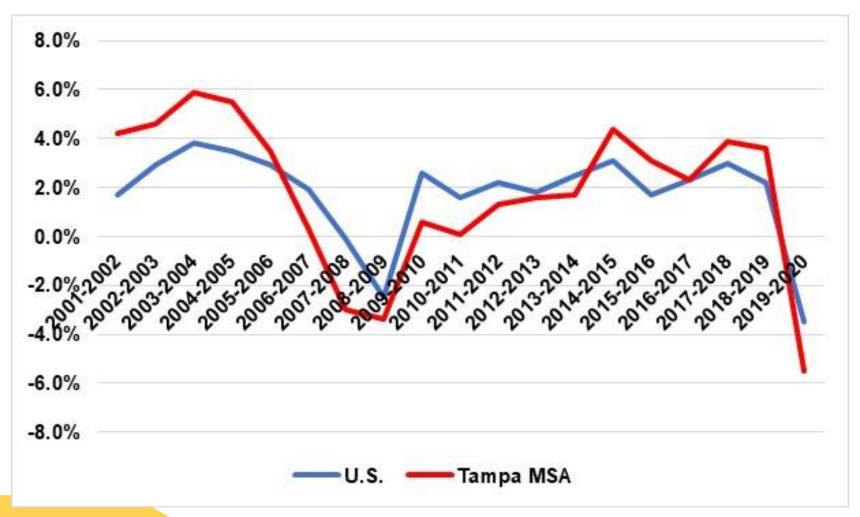


Trajectory of Growth in Real GDP and Florida GSP Correlation = 0.9





Trajectory of Growth in Real GDP and Tampa MSA GRP Correlation = 0.9



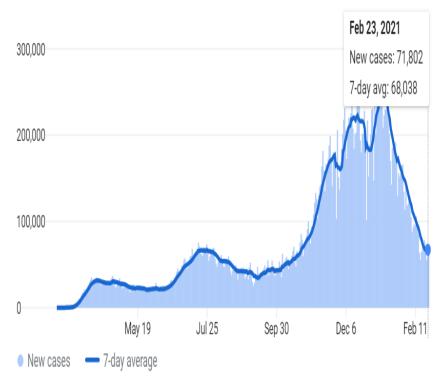


Covid19 Pandemic and Recession



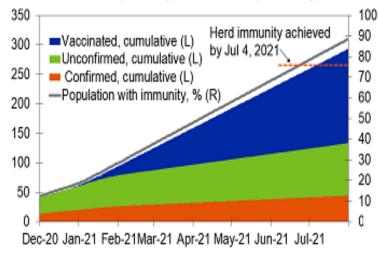
Status of the Pandemic

Vaccination rates accelerating rapidly – up to 2 million / day until recent storm disruptions



Herd Immunity by Summer

L=confirmed cases (100k/day); vaccinations (1.6mil/day)



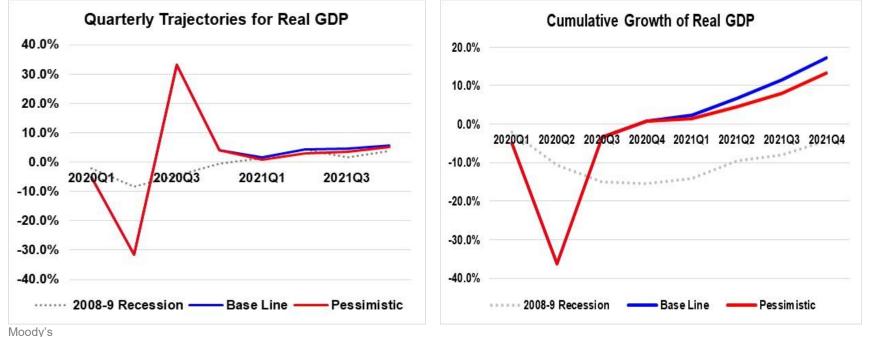
Sources: Johns Hopkins CSSE COVID-19 Data Repository, Moody's Analytics

Sources: CDC and Johns Hopkins



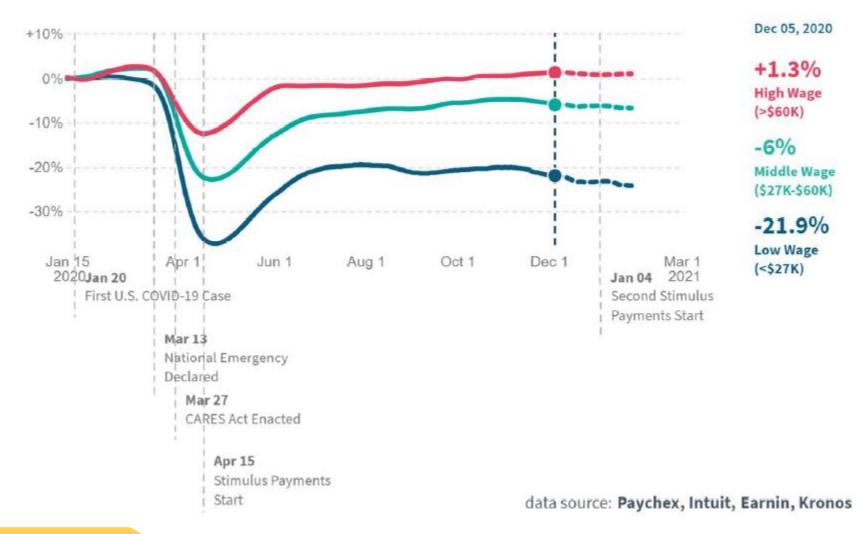
How is this Cycle Different from Others?

- First services-sector based recession: (a) short duration; (b) deep drop; (c) magnified impact on jobs and income
- First "K" shaped recovery: (a) many were unscathed or even benefitted but (b) many others devastated
- Pandemic accelerated major structural changes



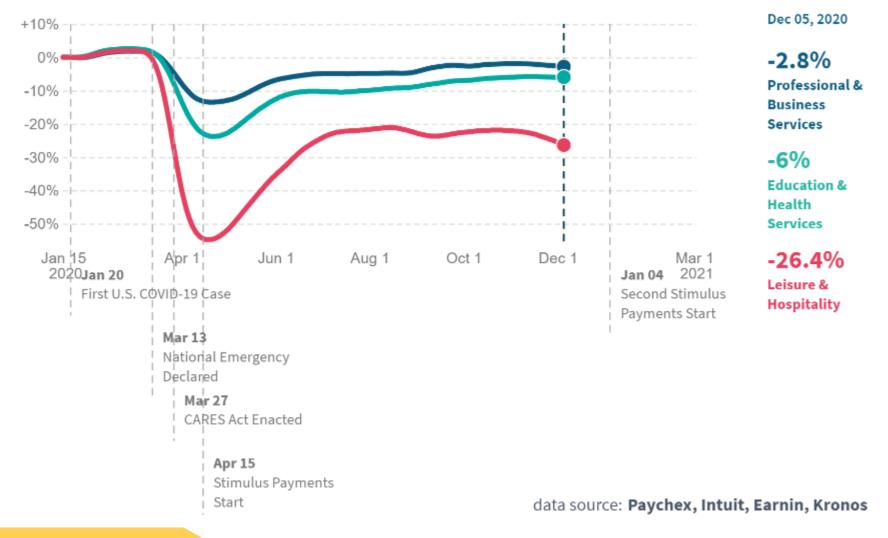


K-Recovery - % Change in Employment by Income



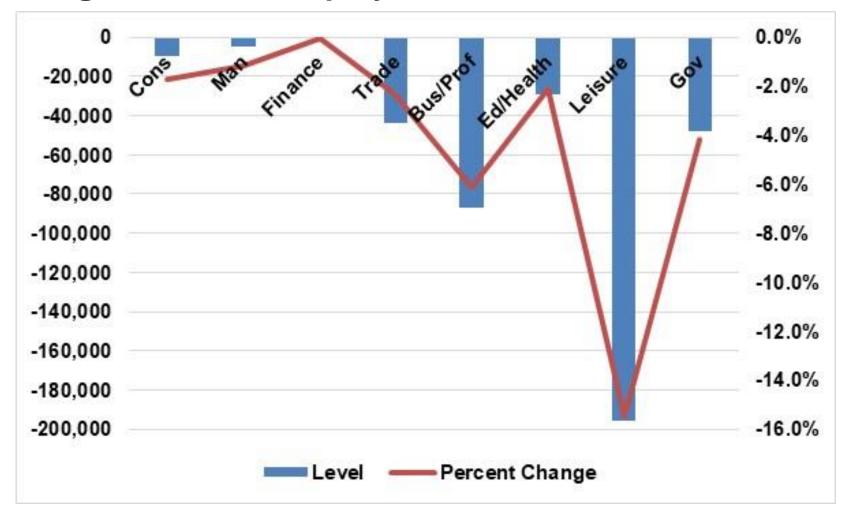


K-Recovery % Change in Employment By Sector in U.S.





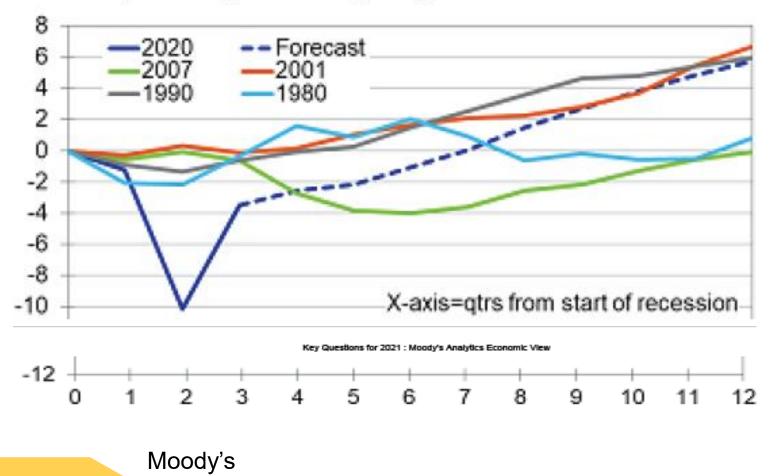
Change in Florida Employment YOY – December 2020



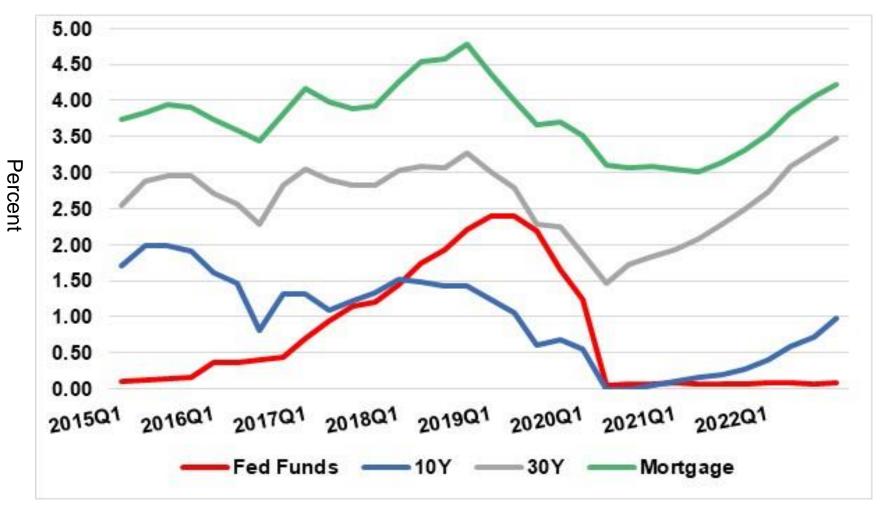


Growth in Real GDP

Real GDP, % change since beginning of recession







Source: Moody's Economy.com,



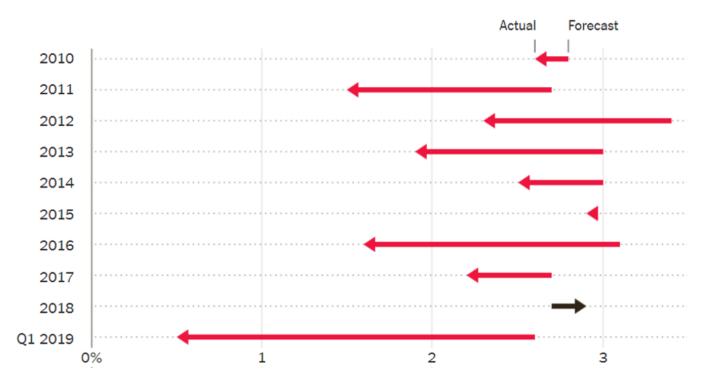
Fiscal Policy Outlook



Why is it Better to go too Big? Consistently Overestimated Growth Since 2010

Irrational Exuberance

Real G.D.P. growth, in percent, compared with the consensus forecast two years in advance.



Source: Federal Reserve

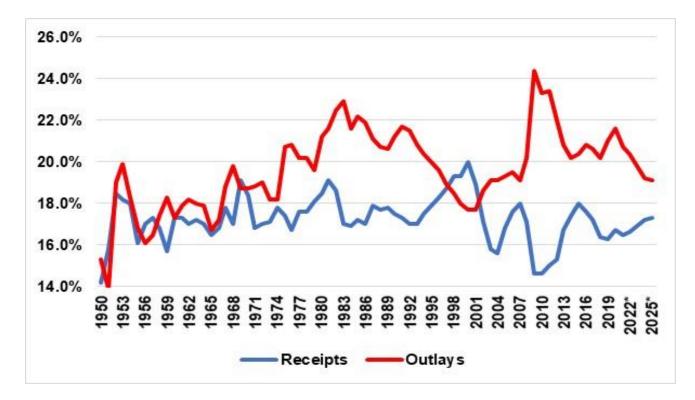


Federal Outlays and Revenues as a % of GDP

Federal outlays averaged 20% of GDP

• Federal Revenues averaged 17% of GDP

This is a structural problem not a cyclical problem



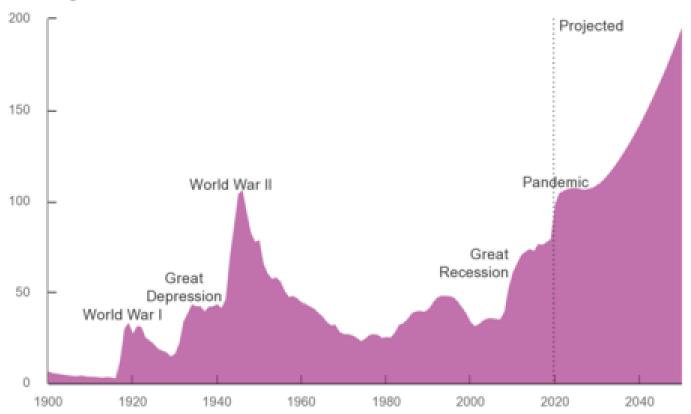
Source: OMB



Federal Debt

Federal Debt Held by the Public, 1900 to 2050

Percentage of Gross Domestic Product



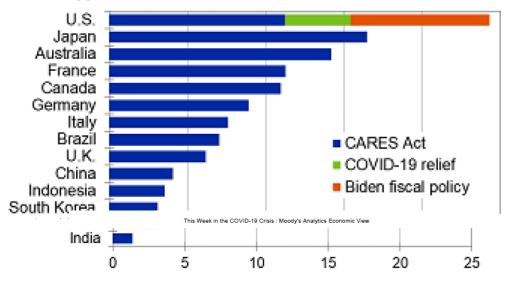
Source: OMB https://www.cbo.gov/publication/56516



How will Democrats' Control of Congress Affect the Economy?

- Congress will approve another \$2 T package bringing total to \$5.2 T
 - 25% of GDP
 - · More than any other country
 - \$1,400 / person
 - Aid for state & local governments
- Biden fiscal policy stimulative
- Boost GDP growth > 5% 2021
 & 22
- Interest rates will rise
- Modest increase in inflation
- National debt not a problem in Moodyse short-run

Fiscal support, % of 2019 GDP



10-Year Bond rate will indicate when this is a problem



Policies on Trade, Immigration, & Climate



Policies on Trade, Immigration & Climate

Trade

- Maintaining tariffs while conducting comprehensive review
- Expect reductions over time and move towards freer trade
- But focus is on a "worker-centered trade policy"
- Immigration
 - Already reversed much of Trump's executive actions
 - Promoting comprehensive reform with pathway to citizenship
- Climate Policy
 - Rejoin Paris and reset ambitious goals
 - Federal government to set example with purchases and "buy America"
 - Rebuild infrastructure
 - Carbon neutral by 2050



Structural Change

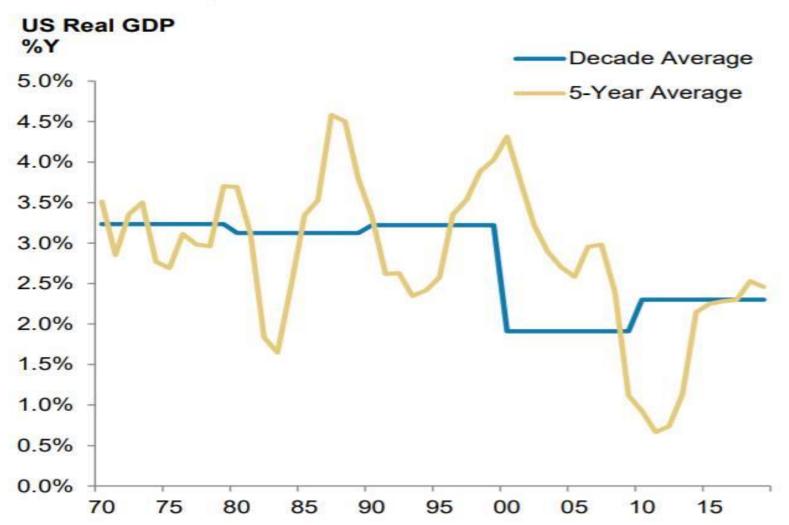


History is a Good Guide to the Future – Until it is Not!

- "History doesn't repeat itself, but it often rhymes," ascribed to Mark Twain.
- Typically, true and useful.
- Unless there is structural change that no longer makes the history as useful.
- Substantial structural changes to U.S. economy have occurred over the last decade accelerated by the Covid19 Recession
 - Globalization
 - Expanded international trade
 - Fraking and expanded U.S. energy production
 - Artificial intelligence
 - Concentration of wealth
- Results: slower growth, lower inflation, and lower interest rates



Trend GDP growth has slowed





Retail Space Demands Will Continue to Shrink at Accelerating Rate

- Covid19 recession accelerates changes already underway
- Neighborhood centers resist shrinkage for now
- Other retail must adapt and become more of a compelling experience
- Huge excess supply of obsolete space available for re-use
- Need substantial reform of regulations to spur reuse

| Retail | 1980-2000 | 2000-19 | Post Covid |
|---------------|-----------|---------|------------|
| Neighborhood | 25 | 25 | 20 |
| Community | 15 | 7 | 3 |
| Regional/Mall | 10 | 5 | 1 |
| | ====== | ====== | ====== |
| Total | 50 | 37 | 24 |

Average Supportable Space – Florida



Office Space Demand will Shrink Dramatically

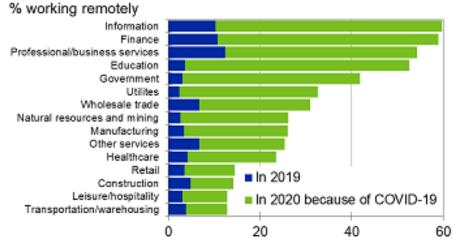
- Office space demand was already shrinking prior to Covid19
- Covid19 recession sharply accelerates this trend proved work from home can work
- Office space is typically the 3rd largest fixed cost for most businesses firms will economize
- Only the very best or the very cheapest will compete well
- Office configurations change substantially more room for team meetings and less for offices
- With more work from home offices located near higher valued homes will be favored
- Opportunities for adaptive reuse of office space and parking

| Office | SqFt |
|------------|----------|
| 1980-2000 | 250 |
| 2000-19 | 150 |
| Post Covid | 50-to-75 |



Work From Home Transformations

- Work from home, works for many firms and many workers
- Premise expense typically 3rd largest business expense smaller foot prints



COVID-19 Fueled Work From Anywhere

Sources: BLS, IPUMS, Moody's Analytics

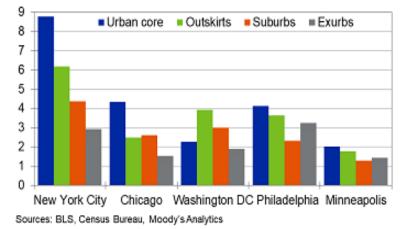


Work From Home Already Creating Winners/Losers

- Losers higher cost urban centers especially in the NE and Core Urban Counties
- Winners lower cost cities in south and west with better climates and places with high amenity values

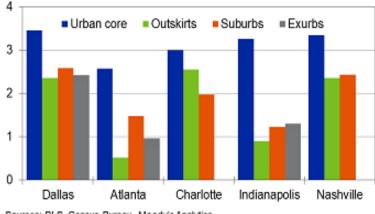
Cities' Labor Markets Are Struggling

Unemployment rate, %, diff from 2020Q1 to 2020Q4



Core Urban Counties Struggle Everywhere

Unemployment rate, %, diff from 2020Q1 to 2020Q4



Sources: BLS, Census Bureau, Moody's Analytics



Population Growth for 2020 Already Showing Signs

- Population for 2020 measured as of April 1st
- States showing accelerating growth or accelerating decline reflect impact of structural changes underway

| Winners | Growth 19-20 | Change | Losers | Growth 19-20 | Change |
|------------|--------------|--------|-----------|--------------|---------|
| Texas | 373,965 | 11,735 | Virginia | 33,921 | -11,801 |
| Tennessee | 56,509 | 4,364 | Maryland | 848 | -11,953 |
| Florida | 241,256 | 4,126 | Colorado | 49,233 | -12,098 |
| Oklahoma | 20,107 | 2,919 | Nevada | 47,488 | -12,558 |
| Montana | 10,454 | 2,149 | Minnesota | 17,289 | -14,002 |
| Arizona | 129,558 | 1,943 | Michigan | -18,240 | -15,749 |
| Kansas | 1,170 | 1,283 | Ohio | -3,290 | -18,905 |
| Wyoming | 2,212 | 1,150 | Illinois | -79,487 | -21,819 |
| Idaho | 37,853 | 867 | Georgia | 81,997 | -26,634 |
| New Mexico | 6,685 | 805 | New York | -126,355 | -45,388 |



Master Planned Communities in High Demand

- Sales increased significantly in 2020 for master planned communities
- Florida is home to 3 of the top 5 best selling master planned communities including the top 2

| RANK MPC | MCA (CITY CTATE) | DEVELOPER - | SALES | | | |
|----------|---|---|-------------------------------|-------|-------|-----|
| | WFC | MSA (CITY, STATE) | DEVELOPER | 2020 | 2019 | %∆ |
| 1 | The Villages | The Villages (The Villages, Florida) | The Villages | 2,452 | 2,429 | 1% |
| 2 | Lakewood Ranch | North Port-Sarasota-Bradenton (Sarasota, Florida) | Schroeder-Manatee Ranch, Inc. | 2,149 | 1,648 | 30% |
| 3 | Summerlin | Las Vegas-Henderson-Paradise (Las Vegas, Nevada) | Howard Hughes Corporation | 1,456 | 1,320 | 10% |
| 4 | Wellen Park (formerly West Villages) | North Port-Sarasota-Bradenton (Venice, Florida) | Wellen Park LLLP | 1,415 | 1,273 | 11% |
| 5 | Daybreak | Salt Lake City (South Jordan, Utah) | Daybreak Communities | 1,055 | 753 | 40% |

RCL Survey https://www.rclco.com/publication/the-top-selling-master-planned-communities-of-2020/



Consequences for Property Values

- Values for retail, restaurant, office and hotels will decline on average in the near term
 - Impacts on many retail and office properties will be permanent
 - Impacts on hotels will be substantial, but over time the sector will recover
- Values for warehouses will increase significantly
 - Driven by Ecommerce
- Values for residential properties will increase strongly
 - Driven by work from home / school from home
- Impacts will be felt mostly in FY2022-23

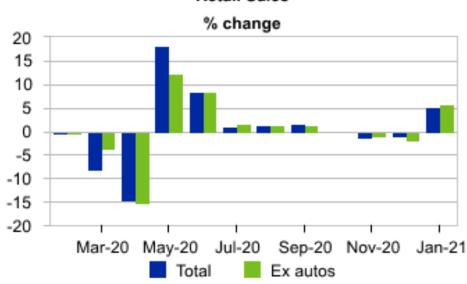


Review of Latest U.S. Data



Retail Sales

- Surprising January gains pushed sales 7.4% over last year
- Fueled by re-openings, stimulus checks, and dramatic shift away from services to goods
- Some sectors thriving while others struggling shift from restaurants to grocery stores and accelerating Ecommerce

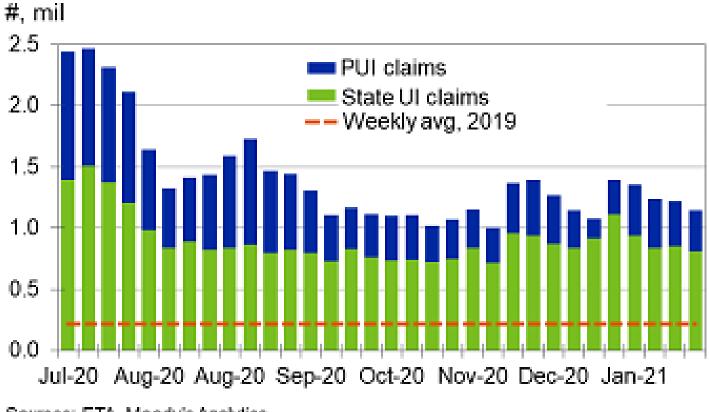


Retail Sales

Moody's



Jobless Claims Hold Above One Million

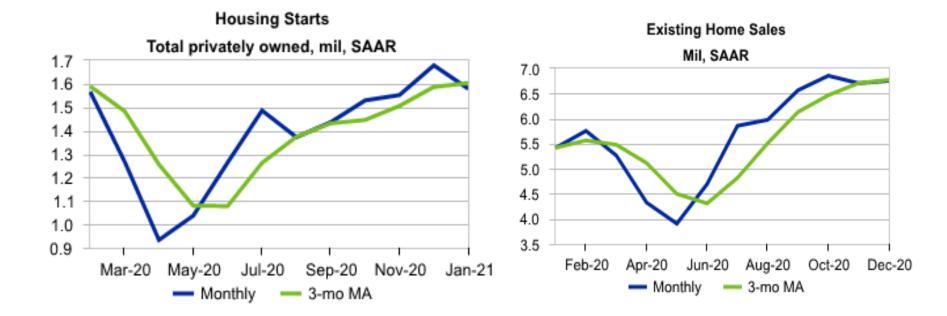


Sources: ETA, Moody's Analytics



Housing Starts and Sales have Boomed

- Housing markets were the surprising stand out in 2020
- Work from home + low interest rates + "K" recovery = Housing Boom

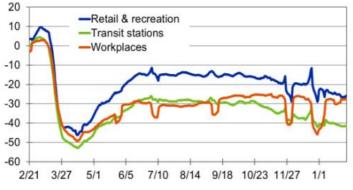




Pandemic Continues Depressing Activity

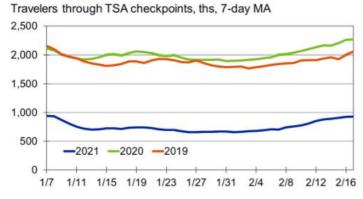
Mobility Is Mixed

U.S. Google mobility, relative to baseline, %, 7-day MA, 2020-2021



Sources: Google, Moody's Analytics

Travel Remains Very Weak



Sources: Transportation Security Administration, Moody's Analytics

Surging COVID-19 Cases Hit Restaurants

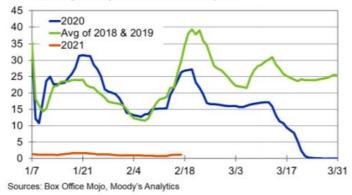
Seated diners, % change yr ago, 7-day MA



Sources: OpenTable, Moody's Analytics

Box Office Still Reeling

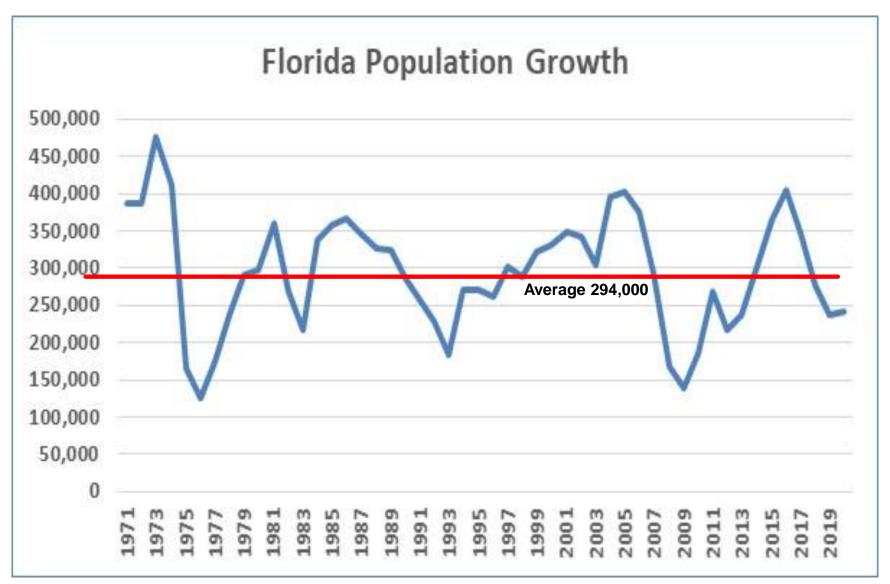
U.S. top 10 grossing movies, \$ mil, 7-day MA





Florida Forecast

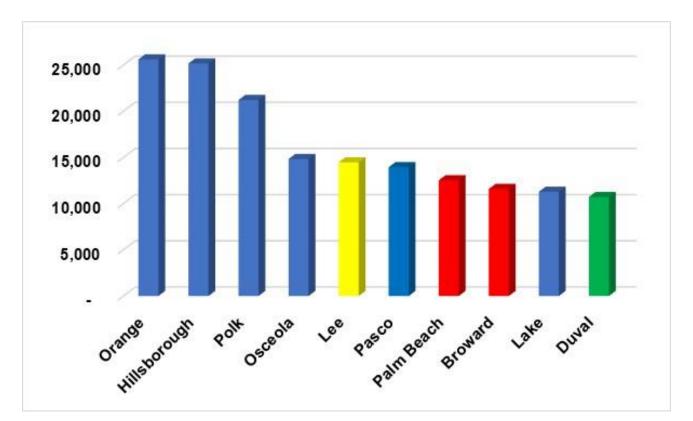






Florida Population Growth by County 2018-19

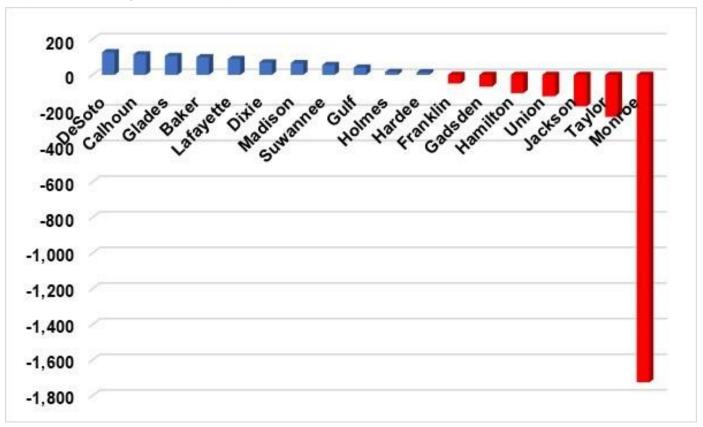
I-4 Corridor in blue dominates growth 2018-19





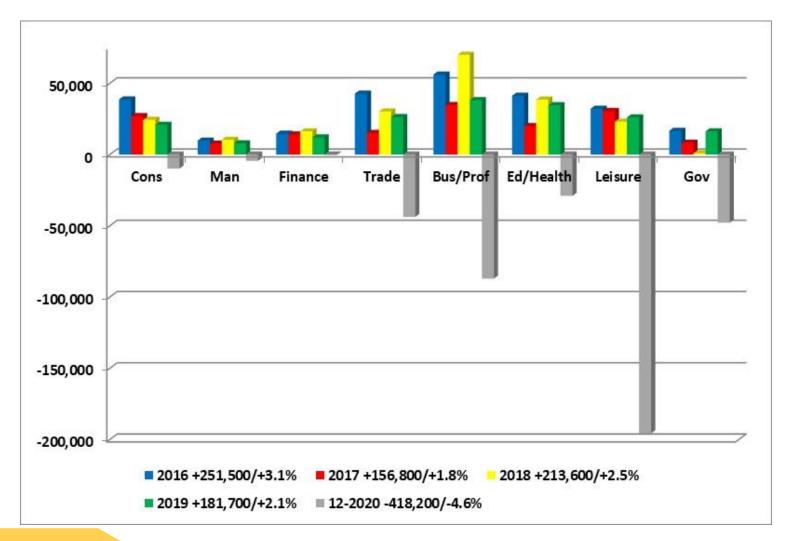
Florida Population Growth by County 2018-19

Many counties grew slowly and 7 lost population



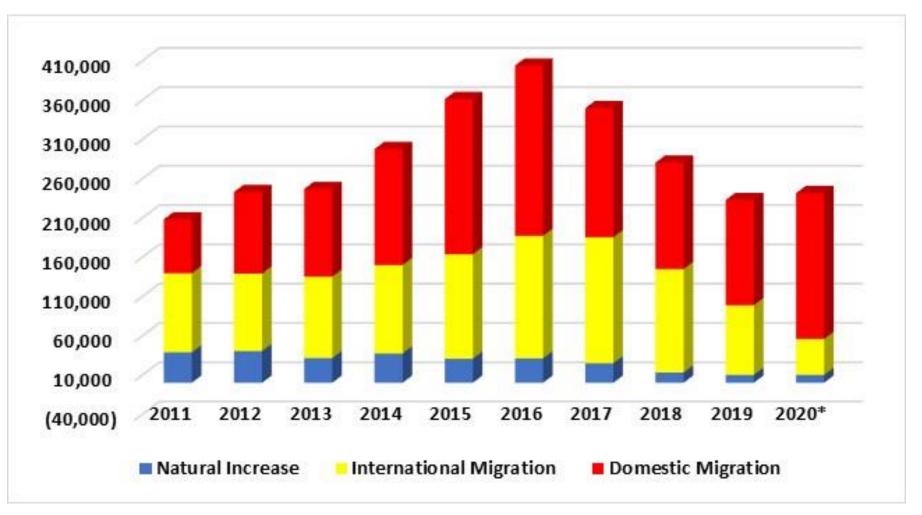


Florida Job Growth





Florida Population Growth by Component





Sales of Existing Single-Family Homes

| | January 2021 | January 2020 | Percent Change Year-over-Year |
|--|---------------|---------------|----------------------------------|
| Closed Sales | 21,587 | 18,298 | 18.0% |
| Paid in Cash | 5,649 | 5,087 | 11.0% |
| Median Sale Price | \$305,000 | \$265,000 | 15.1% |
| Average Sale Price | \$454,352 | \$361,821 | 25.6% |
| Dollar Volume | \$9.8 Billion | \$6.6 Billion | 48.1% |
| Med. Pct. of Orig. List Price Received | 98.4% | 96.4% | 2.1% |
| Median Time to Contract | 21 Days | 44 Days | -52.3% |
| Median Time to Sale | 69 Days | 88 Days | -21.6% |
| New Pending Sales | 31,490 | 26,940 | 16.9% |
| New Listings | 28,424 | 31,629 | -10.1% |
| Pending Inventory | 48,231 | 34,965 | 37.9% |
| Inventory (Active Listings) | 40,620 | 82,983 | -51.1% |
| Months Supply of Inventory | 1.6 | 3.4 | -52.9% |

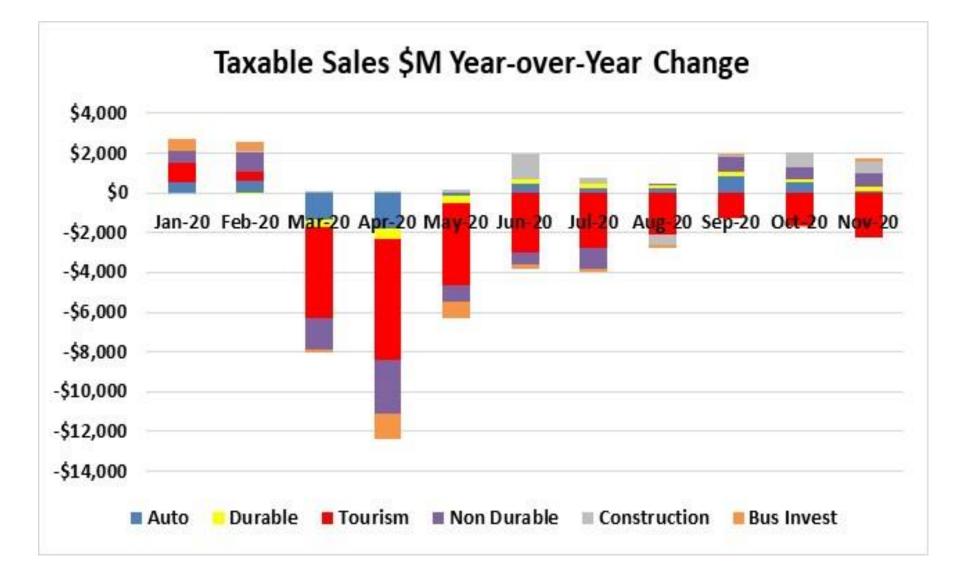
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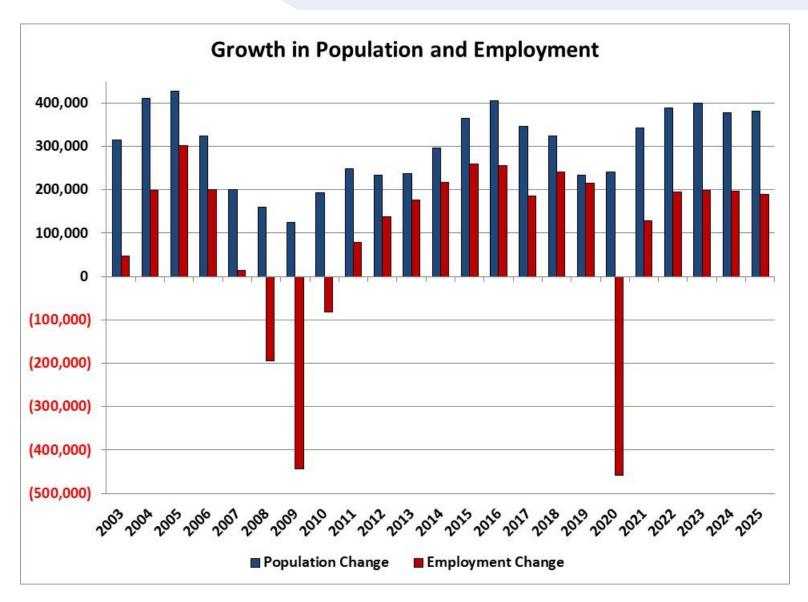
Sales of Existing Condos and Townhomes

| | January 2021 | January 2020 | Percent Change Year-over-Year |
|--|---------------|---------------|----------------------------------|
| Closed Sales | 9,608 | 7,714 | 24.6% |
| Paid in Cash | 4,521 | 3,892 | 16.2% |
| Median Sale Price | \$230,000 | \$200,000 | 15.0% |
| Average Sale Price | \$349,009 | \$295,527 | 18.1% |
| Dollar Volume | \$3.4 Billion | \$2.3 Billion | 47.1% |
| Med. Pct. of Orig. List Price Received | 96.2% | 95.1% | 1.2% |
| Median Time to Contract | 39 Days | 53 Days | -26.4% |
| Median Time to Sale | 81 Days | 93 Days | -12.9% |
| New Pending Sales | 15,313 | 11,598 | 32.0% |
| New Listings | 14,890 | 15,993 | -6.9% |
| Pending Inventory | 21,797 | 15,249 | 42.9% |
| Inventory (Active Listings) | 39,423 | 53,503 | -26.3% |
| Months Supply of Inventory | 3.9 | 5.5 | -29.1% |



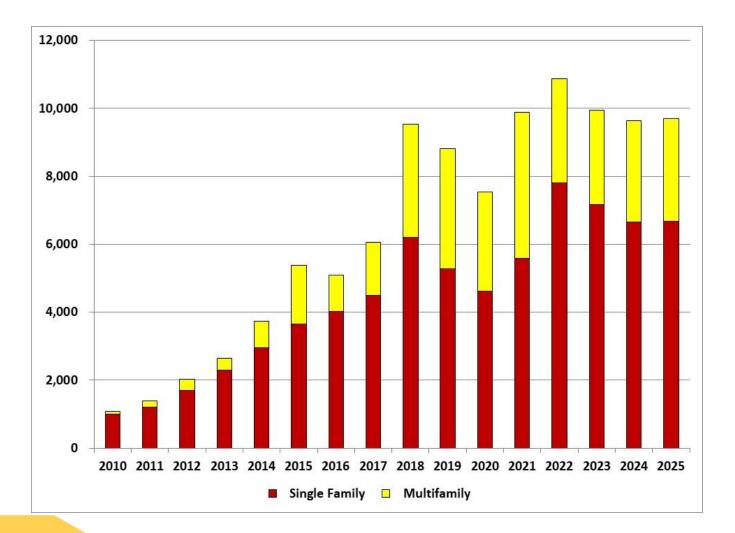








Florida Housing Starts





Implications for FEFP Members

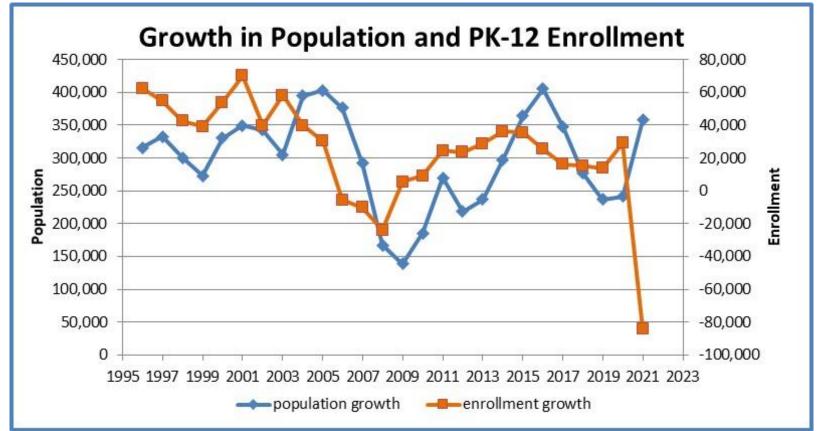


Membership and Population Growth



Population Growth and Membership Growth

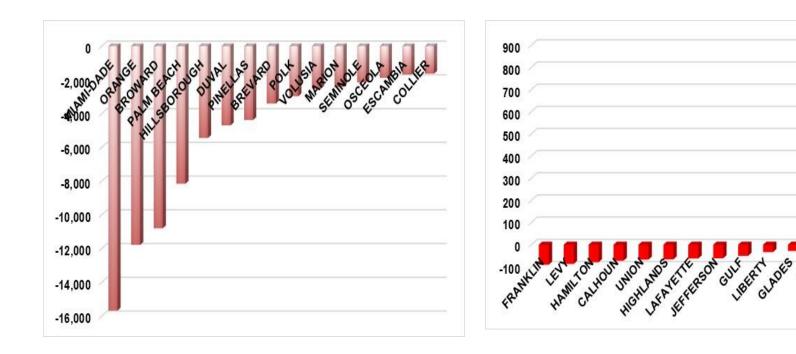
- Correlation = 0.44 from 1995-2020
- 2020-21 Enrollment outlier from Covid19 lockdown





Membership Growth – Fastest and Slowest Growth by County 2020-21

- Overall membership dropped 84,355 ۲
- Substantial declines in large urban counties including: Miami-Dade, Orange, Broward, Palm Beach, Hillsborough, ۲ **Duval and Pinellas**
- Only 4 counties had gains topped by 4,675 in Hendry



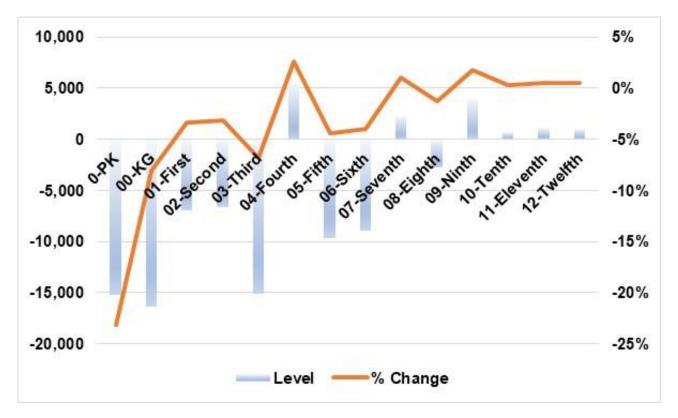
PASCO ST. JOHNS

8A



Membership Change 2020-21 by Class

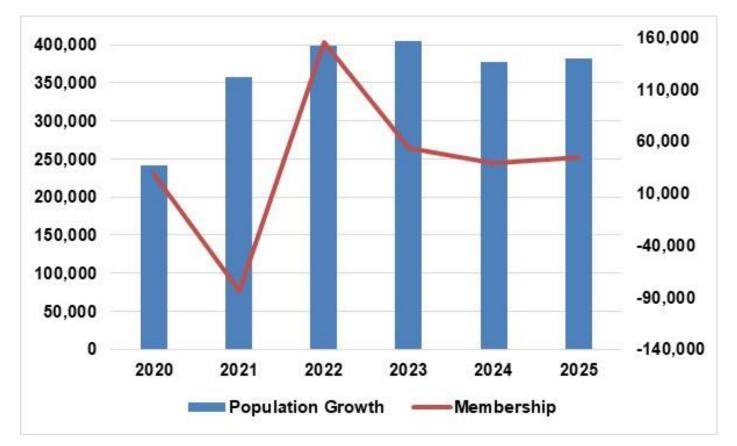
- Most loss was in Pre-K to 3rd Grade which accounted for 75% of attendance loss
- Expect a big rebound with the recovery in 2022-21





Membership Forecast

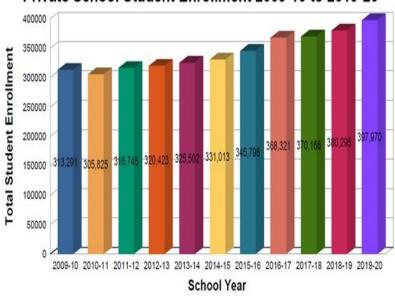
- Big rebound in PreK-3rd Grade propels gains in 2021-22
- Population surge supports strong gains through 2024-25





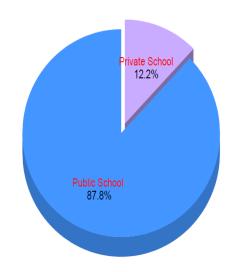
Private Schools Continue to Gain Share

- Data only available for 2019-20
- Covid19 probably boosted share for privates



Private School Student Enrollment 2009-10 to 2019-20

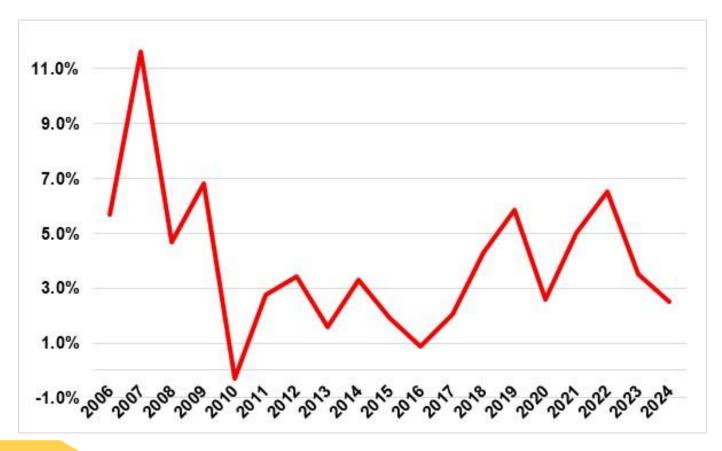
PK-12 Public and Private School Enrollment 2019-20





School Construction Cost Trajectory

- U.S. Producer Price Index for School Construction
- Land cost in Florida likely to rise 10% or more in 2021 and 2022 then slow to 5% per year



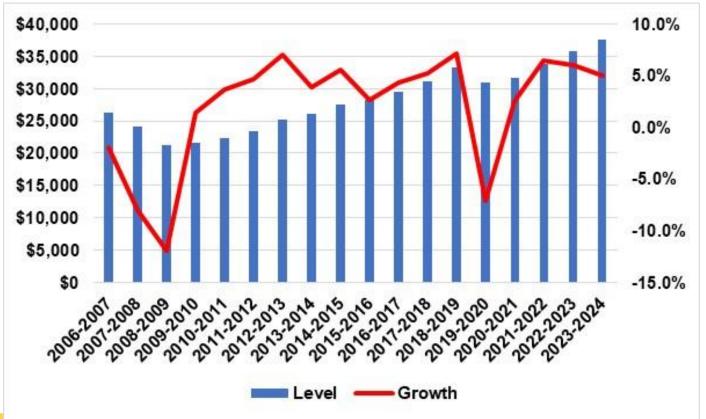


Florida's General Fund



Florida's General Fund Revenue

- GF fell -7% in 2019-20 due to the lock down and pandemic
- GF rebounded and by December 2020 was even with December 2019
- Revenue growth will be strong, especially in 2021-22 with additional federal stimulus





Dr. Hank's Prescription

STAY POSITIVE !

TEST NEGATIVE!







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