

SOUTH CAROLINA REVENUE AND FISCAL AFFAIRS OFFICE

FRANK A. RAINWATER Executive Director

BOARD OF ECONOMIC ADVISORS WORKING GROUP/REGIONAL ADVISORY COMMITTEE MEETING AGENDA

October 15, 2020, 10:30am

Instructions for accessing the meeting virtually will be posted on our website at http://rfa.sc.gov/ the afternoon prior to the meeting

I. Welcome

EDWARD B. GRIMBALL, Chairman

ALAN D. CLEMMONS

EMERSON F. GOWER, JR.

- II. Revenue and Economic Update
 - A. Quarterly Review (Frank Rainwater, Lisa Jolliff, Natalie Gallagher, Ben Coomer)
 - B. Forecast Outlook for FY 2020-21 and FY 2021-22 (Frank Rainwater)

Recess for Lunch (Please note that lunch is by invitation only)

Regional Advisory Committee Meeting will begin at 12:45 P.M.

- III. Economic Outlook for FY 2020-21 and FY 2021-22
 - A. Introduction (Frank Rainwater)
 - B. Regional Advisory Committee Members

Dr. Laura Dawson Ullrich (*Via videoconference*) - Regional Economist - Federal Reserve Bank of Richmond, Charlotte Branch

Mr. Mark Vitner (*Via videoconference*) – Managing Director and Senior Economist – Wells Fargo Securities

Dr. Russell S. Sobel (*Via videoconference*) – Professor of Economics and Entrepreneurship – Baker School of Business, The Citadel

Dr. **Frank Hefner** (*Via videoconference*) – Professor of Economics, Director of Office of Economic Analysis – College of Charleston

Dr. Joseph Von Nessen – Research Economist – Darla Moore School of Business, University of South Carolina

C. Review and Discussion of Key Assumptions (Frank Rainwater)

- IV. Reports from Working Group Members
 - A. Governor's Office
 - B. Senate Finance Office
 - C. Ways & Means Office
 - D. Treasurer's Office
 - E. Comptroller General's Office
 - F. Executive Budget Office
- V. Future Meeting Schedule
 - A. November 10, 2020, 1:30pm (Forecast for FY 2020-21 and FY 2021-22)
 - B. December 10, 2020, 1:30pm (If Necessary)
 - C. 2020 Calendar at http://rfa.sc.gov/meetings
- VI. Adjournment

Please note that the Agenda is subject to change.

For further information, please contact Karen Rhinehart at (803) 734-2265, or visit the RFA webpage at www.rfa.sc.gov



Economic Update

South Carolina BEA October 15, 2020

Laura Dawson Ullrich, PhD Regional Economist Research Department Federal Reserve Bank of Richmond



The views and opinions expressed herein are those of the author. They do not represent an official position of the Federal Reserve Bank of Richmond or the Federal Reserve System.

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Where were we then?

The Pre-Virus Economy

- GDP was growing at a steady pace with strong consumer spending and a rebound in residential investment, although some softness in business investment.
- Nationally, employment was expanding, and the unemployment rate was at its lowest level since the late 1960s.
- South Carolina was seeing unprecedented employment growth and all-time low unemployment rates.



Where are we now and where are we going?

The Positives

- After a historical decline in second-quarter GDP, third and fourth quarter are expected to be strong.
- We have now had five consecutive months of strong employment growth.
- Employment in South Carolina has improved across industries; only leisure and hospitality remains down significantly.
- South Carolina will be a very attractive location for businesses and employees looking to relocate.

Potential Roadblocks

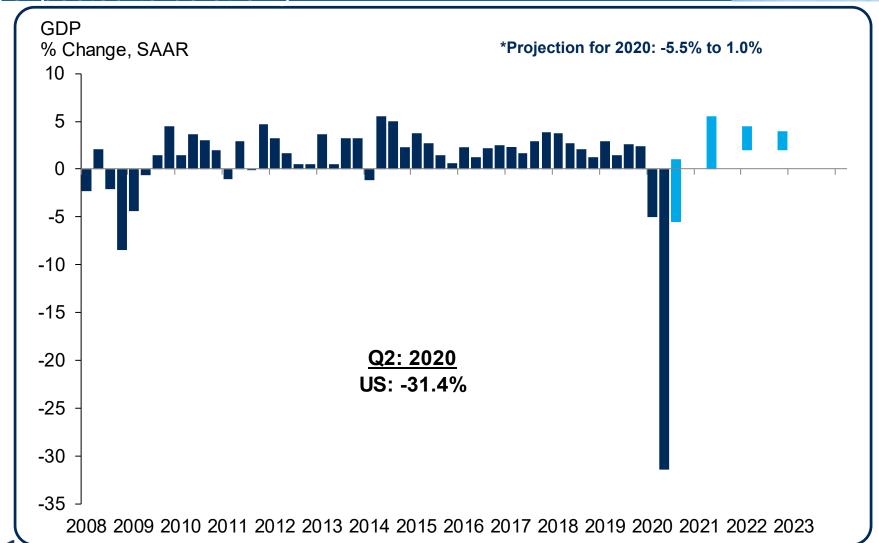
- Even after 5 months of strong employment growth, we remain 10+ million jobs below where we were in February; we've erased 5 years of employment growth (as of September).
- Labor force participation remains very low.
- People haven't returned to their 'normal' activity.
- Low-income families have been hit especially hard.



The Positives

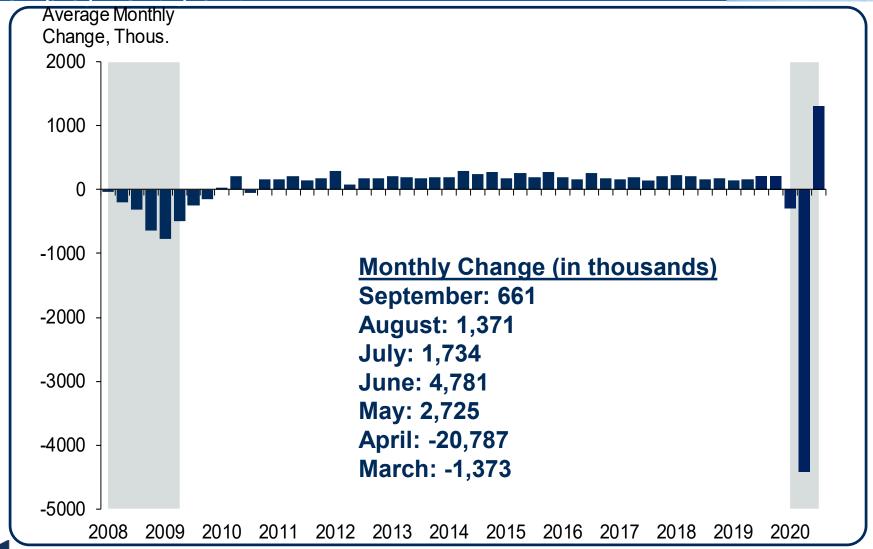


After a dismal 2nd quarter, third and fourth quarter are expected to be strong



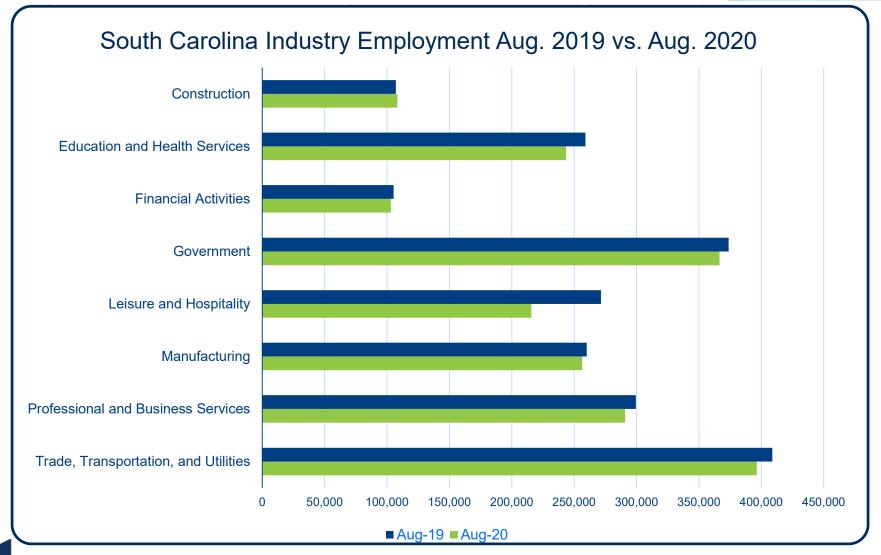
Source: Bureau of Economic Analysis, Federal Reserve Board / Haver Analytics

We have now had five consecutive months of strong employment growth



Source: Bureau of Labor Statistics/Haver Analytics

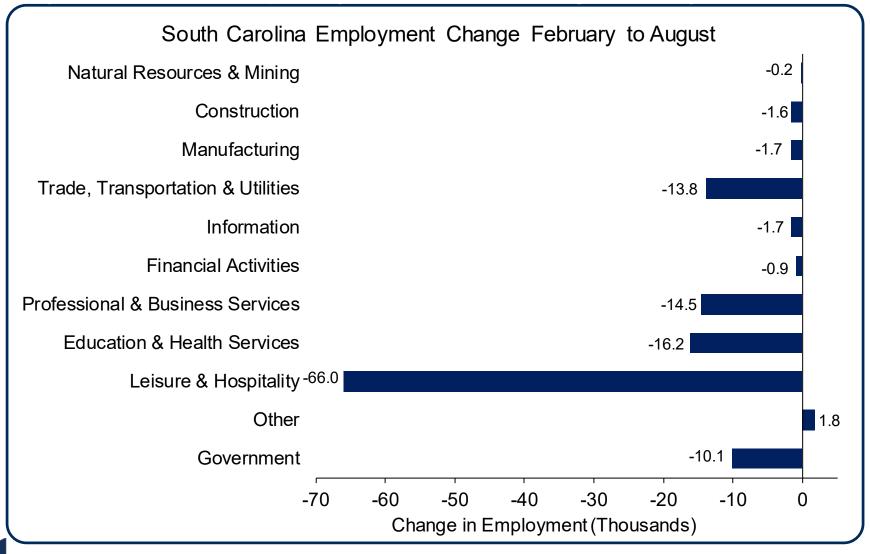
Employment in SC has improved across industries; Only leisure and hospitality remains down significantly





Source: Bureau of Labor Statistics/Haver Analytics

Employment in SC has improved across industries; Only leisure and hospitality remains down significantly





Source: Bureau of Labor Statistics/Haver Analytics

SC will be a very attractive location for businesses and employees looking to relocate

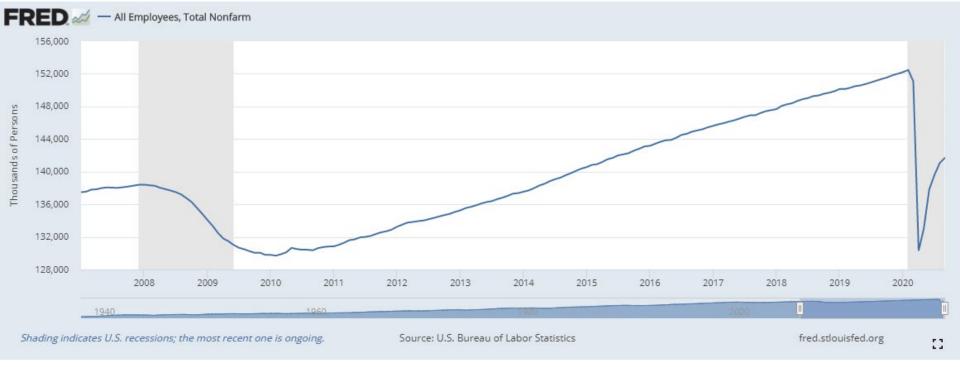
What we are hearing....

- Most employees in large metro areas that work for large businesses are still working remotely; many believe they will have the opportunity to work remotely going forward.
- Those who have tried to bring people back have only been moderately successful.
- Businesses in large office towers are having an especially hard time.
 Two reasons: elevators and public transportation
- Realtors/developers in SC have reported selling houses 'sight unseen' to people from large metro areas.
- Some companies in California are paying employees to leave the state (and then adjusting their pay to the cost of living in the area where they relocate).



Potential roadblocks

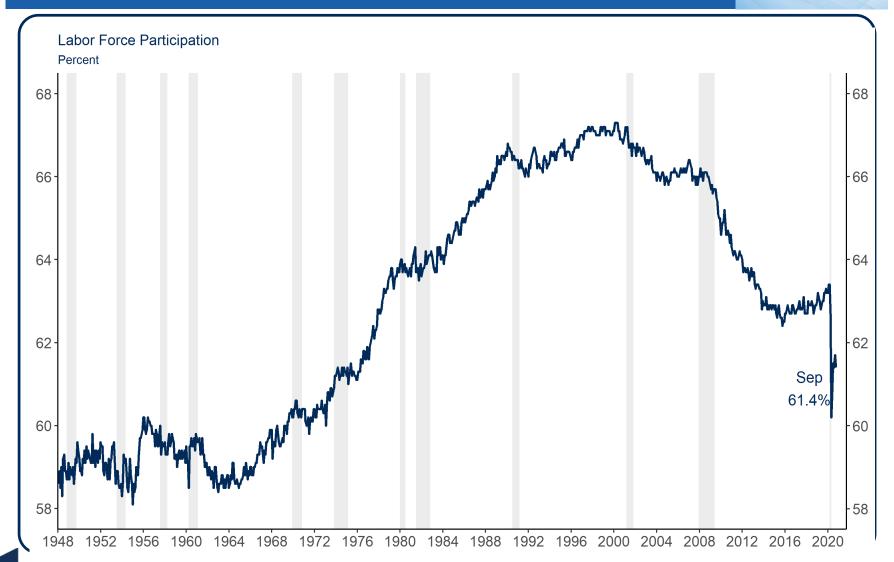
Even after 5 months of strong growth we remain 10+ million jobs below where we were in February



Source: Federal Reserve Bank of St. Louis, Bureau of Labor Statistics



Labor Force Participation Remains Very Low



Source: Bureau of Labor Statistics, Federal Reserve Board of Governors/Haver Analytics

People Have Not Returned to 'Normal' Activity



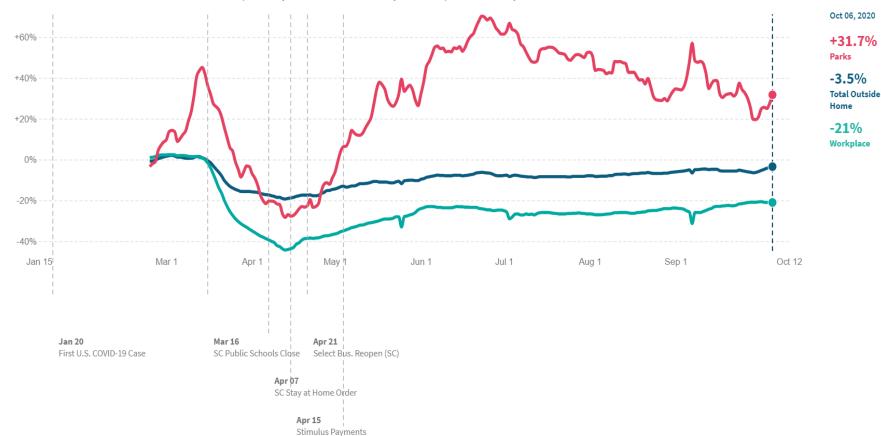






Percent Change in Time Spent Outside Home*

In South Carolina, as of October 06 2020, total time spent away from home decreased by 3.5% compared to January 2020.



May 04

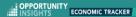
Start

SC Stay at Home Order

last updated: October 09, 2020 next update expected: October 14, 2020 visit tracktherecovery.org to explore

^{*}Change in the average time spent outside of residential locations indexed to the period between Jan 3-Feb 6 2020. This series uses data from Google's COVID-19 Community Mobility reports.

Low Income Families Have Been Hit Especially Hard



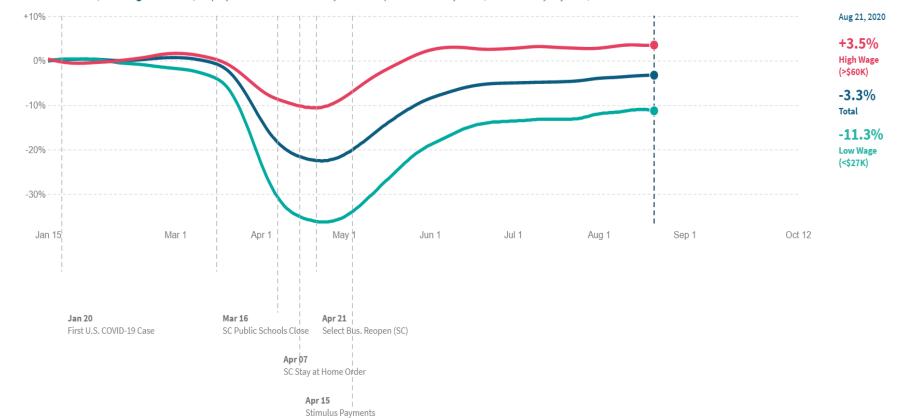






Percent Change in Employment*

In South Carolina, as of August 21 2020, employment rates decreased by 3.3% compared to January 2020 (not seasonally adjusted).



May 04

SC Stay at Home Order Ends

last updated: October 10, 2020 next update expected: October 16, 2020 visit tracktherecovery.org to explore

^{*}Change in employment rates (not seasonally adjusted), indexed to January 4-31, 2020. This series is based on payroll data from Paychex and Intuit, worker-level data on employment and earnings from Earnin, and timesheet data from Kronos. The dotted line in the low-wage series is a prediction of employment rates based on Kronos data.

Questions? ... and thank you!

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Economic Outlook

Mark Vitner, Managing Director & Senior Economist October 15, 2020

Economic Outlook

COVID led to a sudden stop in economic activity but has not led to systemic issues with the underlying economy or financial system. Current momentum suggests businesses are adapting to the pandemic environment.

Notable Impacts

 Public policy was enacted unusually quickly and was exceptionally well targeted. Consumer spending on goods recovered quickly. Services spending, on the other hand, is taking much longer to come back.

Changes in the Economic Landscape

■ The sudden shutdown hit minority owned businesses particularly hard, heightening economic inequality and fueling unrest. Movement away from large, globally connected urban centers has accelerated.

The Geography of Economic Growth is Changing

Recessions triggered by exogenous shocks not only accelerate trends previously in place but also result in a paradigm shift for many industries. Disruptions in one market are fueling strong growth in other markets.

Real Estate

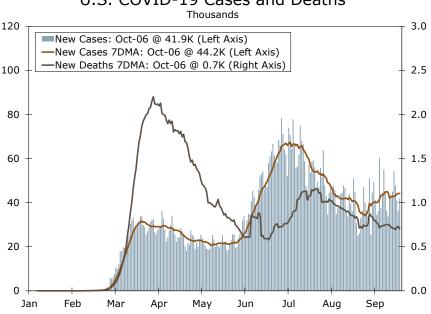
• Home sales and homebuilding are leading the recovery, thanks to lower mortgage rates and a greater desire for space. Commercial properties are facing short and longterm challenges but fears are somewhat overblown. Despite COVID-19 cases spiking again in the summer, deaths in the United States have remained well below the levels reached during the lockdown months of March and April.

Global COVID-19 Trends

Global COVID-19 Cases and Deaths Thousands 450 New Cases: Oct-06 @ 317.4K (Left Axis) -New Cases 7DMA: Oct-06 @ 298.6K (Left Axis) 400 -New Deaths 7DMA: Oct-06 @ 5.85K (Right Axis) 350 300 250 200 150 3 100 2 50 Feb Mar Jun Jul Jan Sep

United States COVID-19 Trends

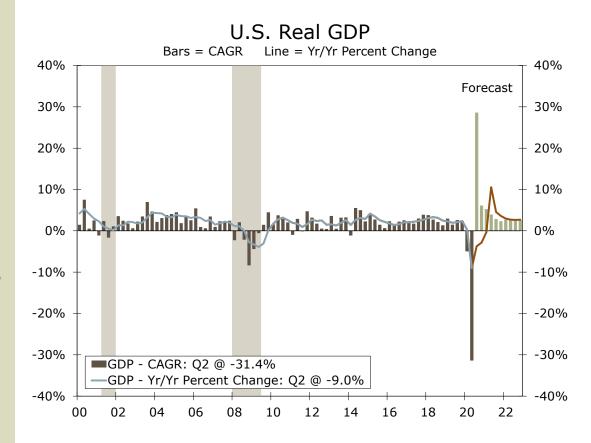
U.S. COVID-19 Cases and Deaths



Source: Bloomberg LP and Wells Fargo Securities

The unprecedented contraction in Q2 GDP underscores the dramatic halt of economic activity in April and May.

Momentum picked up over the summer, however, and we expect to see a bounce back this quarter as well as healthy growth in the following quarters.



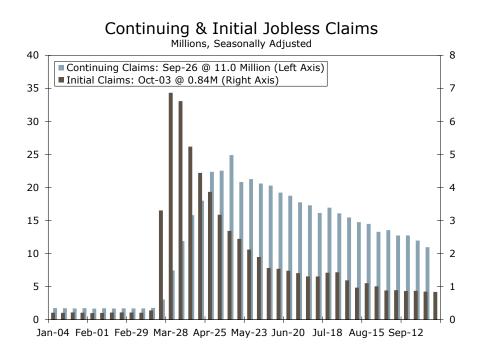
Source: U.S. Department of Commerce and Wells Fargo Securities

We have seen historic swings in nonfarm payrolls. Continuing and initial jobless claims have receded from their peaks, but remain stubbornly high, reflecting the concentration of job losses within the leisure & hospitality sector and "other services."

Upside Surprises in Recent Months

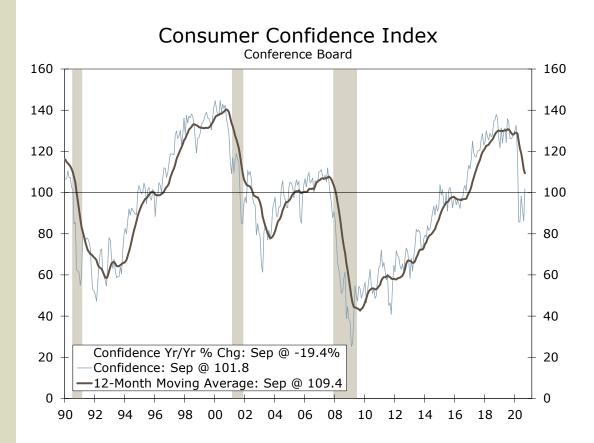
Total Nonfarm Employment

Still a Long Way to Go



Source: U.S. Department of Labor and Wells Fargo Securities

Consumer sentiment picked up in September as perceptions about the economy improved.
Confidence still remains well below its pre-virus level, however.



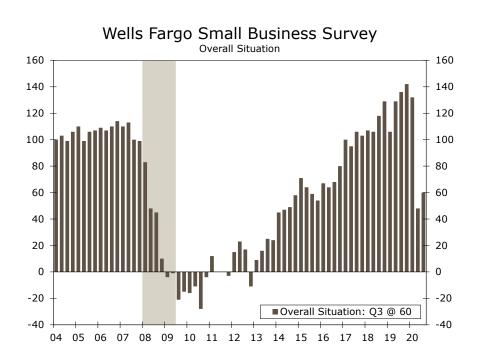
Source: The Conference Board and Wells Fargo Securities

Small business has been near the eye of the economic storm caused by efforts to contain COVID-19. Recently, both the Wells Fargo/Gallup and NFIB Optimism indices showed increases in confidence as owners are learning to operate within the pandemic environment.

Improvement in Small Business Optimism

NFIB Small Business Optimism Overall Index 1986 = 100 110 105 100 95 90 -Small Business Optimism: Aug @ 100.2 80 88 90 92 94 96 98 00 02 04 06 08 10 12 14 16 18 20

Still Well Below Last Year's Levels



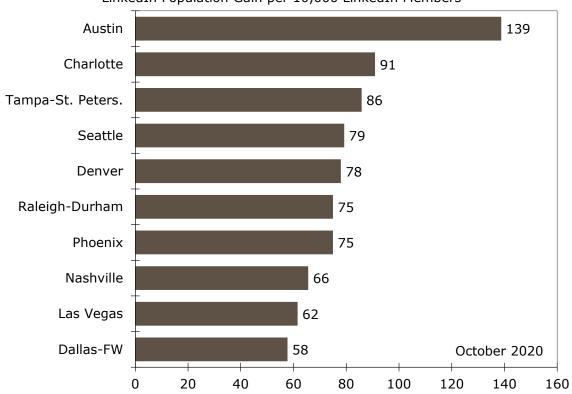
Source: National Federation of Independent Business, Gallup, Wells Fargo Bank and Wells Fargo Securities

LinkedIn Gainers

For every 10,000 LinkedIn members in Austin, around 140 arrived in the last 12 months.

Cities that Gained the Most Workers

LinkedIn Population Gain per 10,000 LinkedIn Members



Source: LinkedIn Corporation and Wells Fargo Securities

There has been a clear shift in preferences toward more affordable housing markets, many of which are in the South.

Housing Starts by Region As a Percent of Total Starts, 12-Month Moving Average 100% 100% 90% 90% 80% 80% 70% 70% 60% 60% 50% 50% 40% 40% 30% 30% ■ Northeast: Aug @ 8.4% 20% 20% ■ Midwest: Aug @ 13.8% ■ West: Aug @ 24.8% 10% 10% ■ South: Aug @ 53.0% 0%

80

06

Source: U.S. Department of Commerce and Wells Fargo Securities

96 98

00

02 04

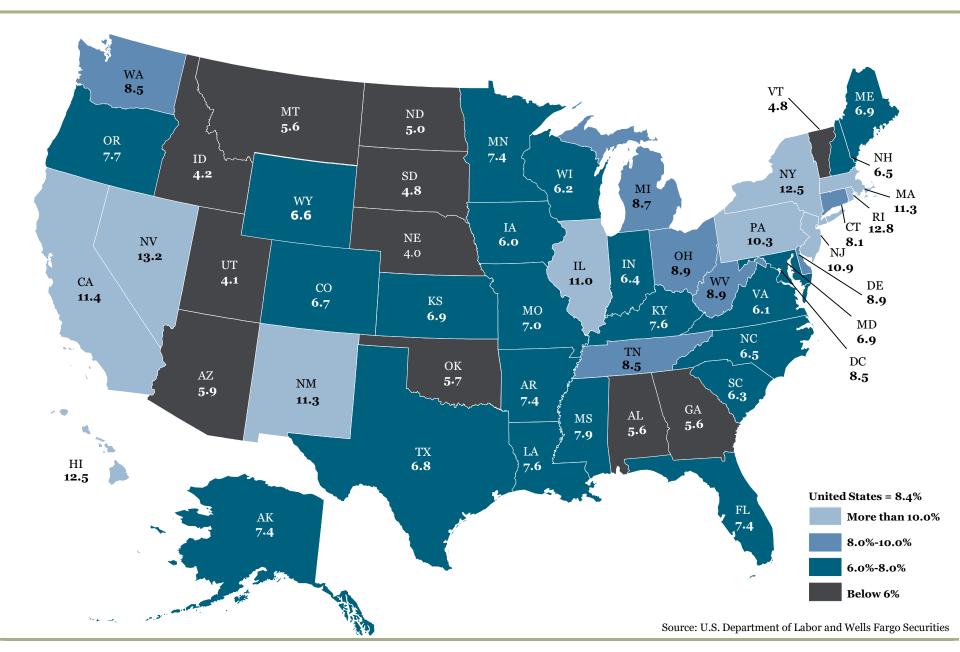
92 94

90

10 12 14 16 18 20



Regional Commentary



South Carolina Employment Recovery

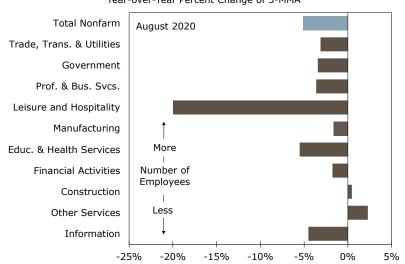
While South Carolina's employment recovery has brought economic relief to many, the pace of rehiring has decelerated. Employers have recovered 58% of the jobs lost in March and April. More than two-thirds of the remaining lost jobs are in leisure & hospitality, retail trade and administrative positions at doctors and dentists offices, and professional services providers.

South Carolina Employment Since March

Tracking the South Carolina Recovery Change in Monthly Employment; Thousands 350 350 March & April: -295K 300 300 250 250 Employment 125K below February peak 200 200 August: +20k 150 150 July: +9K June: +76K 100 100 50 50 May: +65K

Leisure & Hospitality Slow to Recover

South Carolina Employment Growth By Industry Year-over-Year Percent Change of 3-MMA

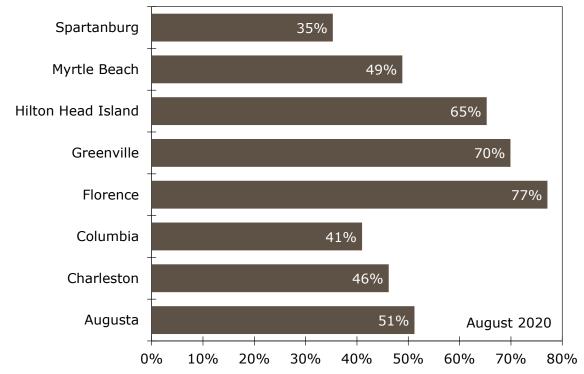


Source: U.S. Department of Labor and Wells Fargo Securities

Florence has recovered over three-fourths of the jobs lost during the shutdown months.

South Carolina Employment Recovery by MSA

Percent of Jobs Recovered from March-April 2020 Losses

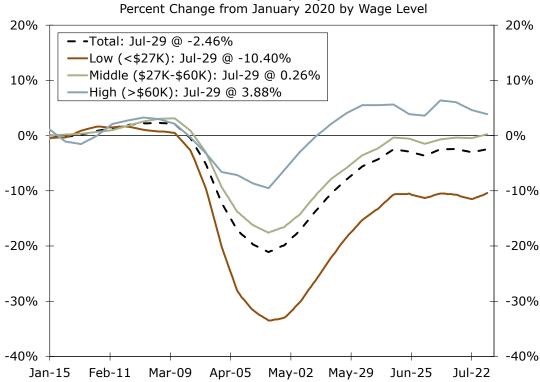


Source: U.S. Department of Labor and Wells Fargo Securities

Employment among workers earning less than \$27,000 a year in South Carolina remains 10.4% below where it was at the start of 2020.

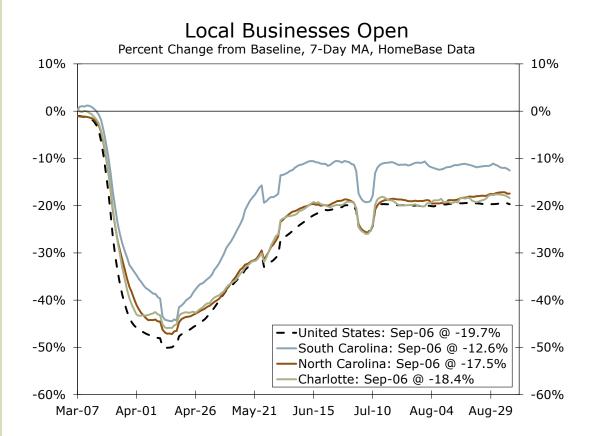
On balance, workers in the top wage quartile have seen the best recovery in employment rates.

South Carolina Employment Rates



Source: Opportunity Insights and Wells Fargo Securities

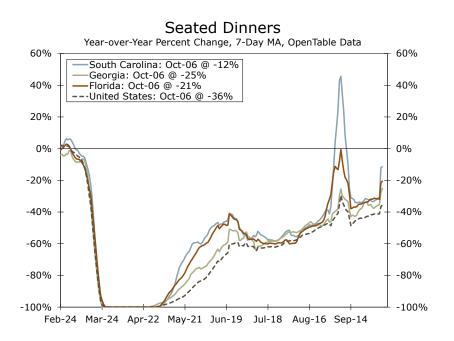
Local business openings have little improved in South Carolina since July.



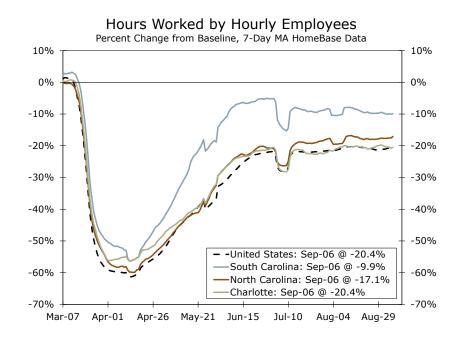
Source: HomeBase and Wells Fargo Securities

Seated dinners have fallen since their Labor Day weekend spike, which is a byproduct of the timing of the holiday. Averaged out, restaurant visits are higher than their level a few months ago. Hours worked by hourly employees has not seen much improvement since July.

Slowly Recovering Restaurant Visits



Hours Worked Still Depressed



Source: OpenTable, HomeBase and Wells Fargo Securities

The unemployment recovery in South Carolina outpaces the nation.

South Carolina vs. U.S. Unemployment Rate Seasonally Adjusted 16% 16% -South Carolina: Aug @ 6.3% -United States: Aug @ 8.4% 14% 14% 12% 12% 10% 10% 8% 8% 6% 6% 4% 4%

02 04 06

08

Source: U.S. Department of Labor and Wells Fargo Securities

96 98

00

92 94

2%

90

18 20

10 12 14 16

2%

Apartment vacancies jumped in Greenville in Q2 amid a surge in home buying and a shift in preferences away from dense, urban centers. Despite the recent increase, we expect that rental demand will likely hold up better in these markets in the longer-term.

Columbia Vacancies

Columbia MSA CRE Vacancy Rates



Greenville Vacancies

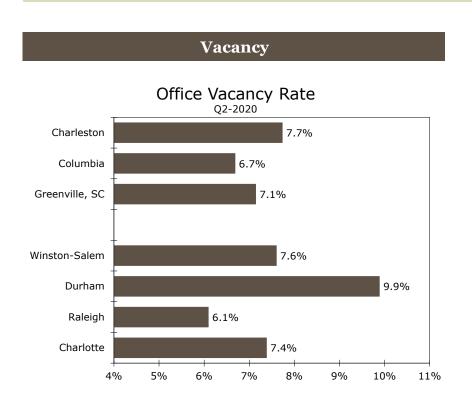
Greenville MSA CRE Vacancy Rates

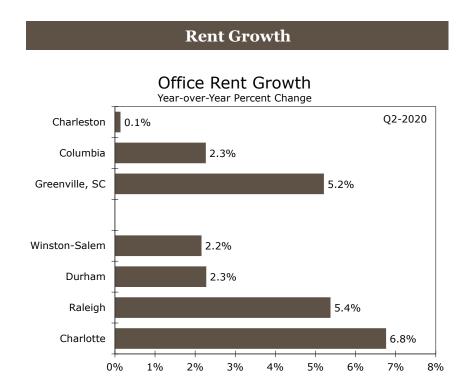


Source: CoStar, Inc. and Wells Fargo Securities

Regional CRE—Office

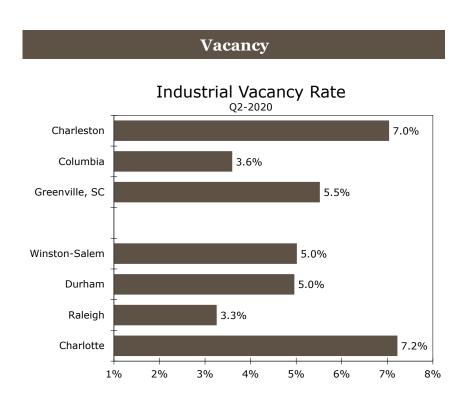
Office leasing activity is likely to remain muted as tenants reconsider their space needs. More affordable markets such as Charlotte and Greenville were relatively resilient to downward pressure on rents in the second quarter.

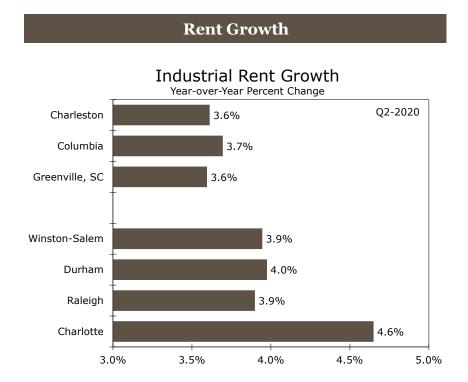




Source: CoStar, Inc. and Wells Fargo Securities

Although vacancies are trending higher, industrial properties have shown a great deal of resiliency. Leasing activity from healthcare and medical services firms has strengthened.

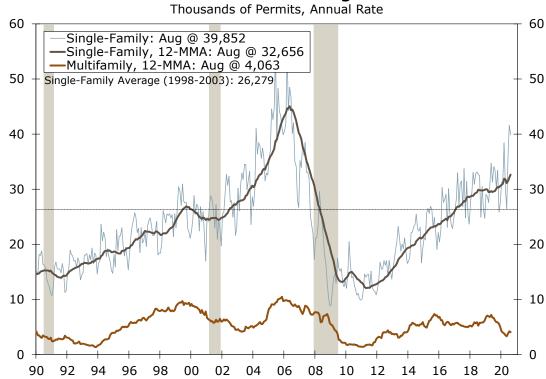




Source: CoStar, Inc. and Wells Fargo Securities

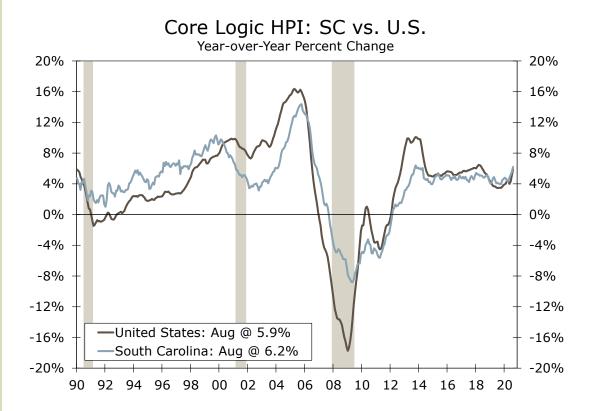
After quickly bouncing back in the summer months, housing starts slowed in August, although we expected to see some payback.

South Carolina Housing Permits



Source: U.S. Department of Commerce and Wells Fargo Securities

Home prices have covered from their fall during the lockdown months and are trending higher.



Source: CoreLogic and Wells Fargo Securities

U.S. Economic Forecast

Wells Fargo Securities U.S. Economic Forecast																				
			Act	tual							Fore	ecast					Actual		Forecast	:
		20	19		_	2020			20	2021			2022		2019	2020	2021	2022		
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
Real Gross Domestic Product ¹	2.9	1.5	2.6	2.4	-5.0	-31.4	28.6	6.1	5.3	3.9	2.9	2.3	2.7	2.9	2.6	2.6	2.2	-3.8	4.4	2.7
Personal Consumption	1.8	3.7	2.7	1.6	-6.9	-33.2	39.1	6.0	5.1	3.6	3.2	2.3	2.3	2.6	2.6	2.5	2.4	-3.8	5.2	2.6
Business Fixed Investment	4.2	0.0	1.9	-0.3	-6.7	-27.2	10.7	4.4	3.4	4.0	4.8	4.8	5.3	5.2	5.2	4.9	2.9	-5.8	2.6	5.0
Equipment	2.0	-3.8	-1.7	-1.7	-15.2	-35.9	38.7	7.5	3.5	5.5	5.8	6.9	7.1	6.4	6.1	5.8	2.1	-8.2	5.8	6.5
Intellectual Property Products	4.5	4.1	5.3	4.6	2.4	-11.4	-0.6	0.7	4.2	4.8	6.8	6.3	6.2	5.5	5.6	5.1	6.4	0.0	2.5	5.9
Structures	8.2	1.6	3.6	-5.3	-3.7	-33.6	-19.0	4.5	1.5	-1.5	-2.2	-3.4	-1.4	1.3	1.9	2.1	-0.6	-10.7	-4.8	-0.8
Residential Investment	-1.7	-2.1	4.6	5.8	19.0	-35.6	50.0	16.0	9.0	7.0	7.0	6.5	6.5	7.0	6.8	6.5	-1.7	3.8	10.1	6.7
Government Purchases	2.5	5.0	2.1	2.4	1.3	2.5	-3.1	-2.4	-1.0	-0.8	-0.4	0.2	0.2	0.5	0.5	0.8	2.3	1.2	-1.1	0.2
Net Exports ²	0.6	-0.8	0.0	1.5	1.1	0.6	-3.5	-1.1	-0.4	0.3	0.0	0.0	0.0	-0.1	-0.2	-0.2	-0.2	0.3	-0.7	0.0
Inventories ²	0.2	-1.0	-0.1	-0.8	-1.3	-3.5	4.0	2.4	1.5	0.4	-0.2	-0.2	0.1	0.1	0.0	0.0	0.0	-0.9	1.0	0.0
Nonfarm Payroll Change ³	139	159	203	210	-303	-4427	1304	567	450	328	283	270	257	243	227	213	178	-715	333	235
Unemployment Rate	3.9	3.6	3.6	3.5	3.8	13.0	8.8	7.6	7.1	6.8	6.3	5.9	5.6	5.3	5.0	4.7	3.7	8.3	6.5	5.2
Consumer Price Index ⁴	1.6	1.8	1.8	2.0	2.1	0.4	1.3	1.2	1.4	2.7	1.9	1.9	2.0	2.0	2.1	2.1	1.8	1.3	1.9	2.0
Ouarter-End Interest Rates ⁵																				
Federal Funds Target Rate	2.50	2.50	2.00	1.75	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.25	0.25	0.25	0.25
Conventional Mortgage Rate	4.28	3.80	3.61	3.72	3.45	3.16	2.89	2.80	2.80	2.85	2.90	3.00	3.05	3.10	3.15	3.20	3.94	3.08	2.89	3.13
2 Year Note	2.27	1.75	1.63	1.58	0.23	0.16	0.13	0.15	0.20	0.20	0.20	0.25	0.25	0.30	0.35	0.45	1.97	0.17	0.21	0.34
10 Year Note	2.41	2.00	1.68	1.92	0.70	0.66	0.69	0.85	1.00	1.10	1.20	1.30	1.35	1.40	1.45	1.50	2.14	0.73	1.15	1.43

Forecast as of: October 07, 2020

Source: IHS Markit and Wells Fargo Securities

¹ Compound Annual Growth Rate Quarter-over-Quarter ² Percentage Point Contribution to GDP ³ Average Monthly Change

⁴ Year-over-Year Percentage Change

⁵ Annual Numbers Represent Averages

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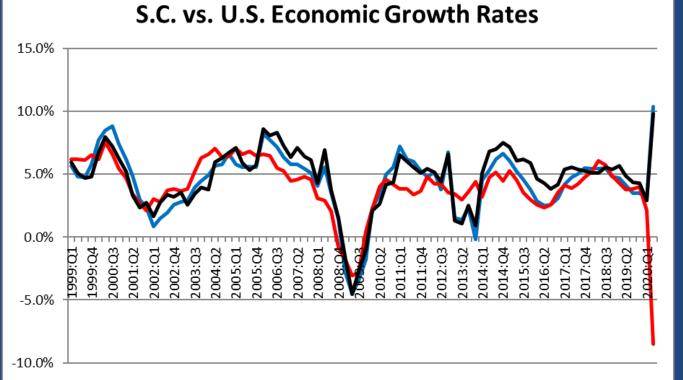
SECURITIES: NOT FDIC-INSURED/NOT BANK-GUARANTEED/MAY LOSE VALUE

BEA Regional Advisory Committee October 15, 2020

Russell S. Sobel, Ph.D.

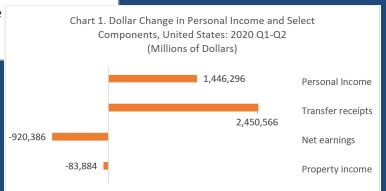


S.C. Personal Income vs U.S. Economy:

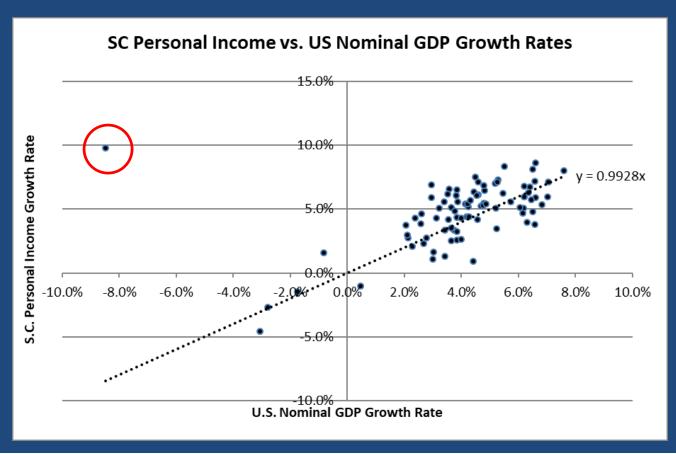


Q2: Personal Income includes government relief payments provided by the Coronavirus Aid, Relief, and Economic Security (CARES) Act of 2020 and higher unemployment benefits.

US Personal Income Growth RateUS Nominal GDP Growth RateSC Personal Income Growth Rate



S.C. Personal Income vs U.S. Economy:



The elasticity of S.C. Personal Income with Respect to U.S. Nominal GDP over the long term is not significantly different from 1.0 using quarterly data (converted to annual changes vs. 4 quarters ago), from 1992 Q1 to present. I therefore assume that:

S.C. Personal Income Growth Rate ≈ U.S. Nominal GDP Growth Rate

Assessing Prior Accuracy:

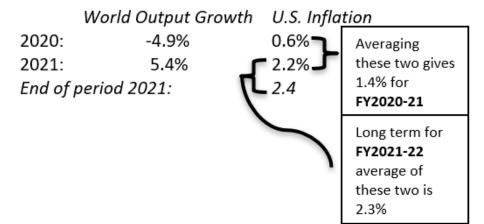
Was certainly an unpredictable year....

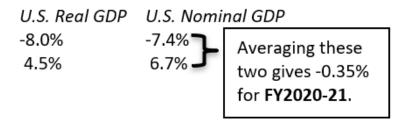
For the past five years I provided data on forecaster accuracy but have been asked not to do it this year and focus on the forecasts instead....

I rely on three independent major national forecasts as the basis for my state-level forecasts:

- 1. IMF World Economic Outlook
- 2. Federal Reserve Bank of Philadelphia's Livingston Survey
- 3. Survey of Professional Forecasters

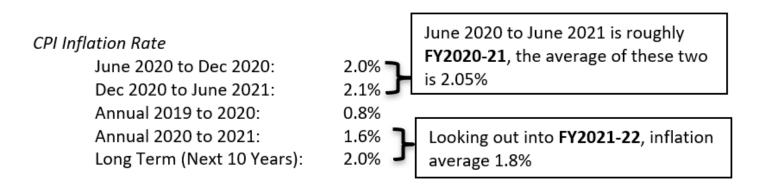
1. IMF World Economic Outlook (June 2020 Update and April 2020 original)¹



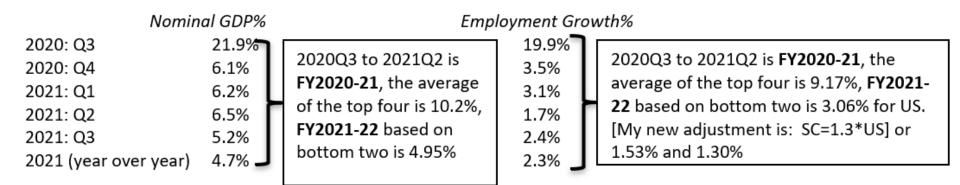


2. Federal Reserve Bank of Philadelphia's Livingston Survey (June 2020)²

U.S. Nominal GDP Growth Rate 2020Q2 to 2020Q4: 2020Q4 to 2021Q2: Annual 2019 to 2020: Annual 2020 to 2021: Long Term (Next 10 Years): U.S. Nominal GDP Growth Rate 2020Q3 to 2020Q2 is FY2020-2021, the avg. of these two is 10.1% FY2020-2021, avg. 4.7% FY2020-2021, avg. 4.7%



3. Survey of Professional Forecasters (Third Quarter 2020 released August 14, 2020)3



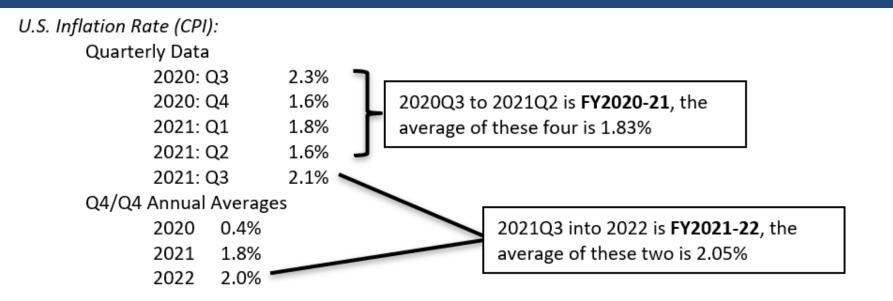
Probability of Negative Real GDP Growth by Quarter (Means):

2020: Q3	11.9%	7 [_
2020: Q4	20.4%	- 1	
2021: Q1	19.2%	-	
2021: Q2	18.6%		
2021: Q3	17.1%	J	

The chance of a negative quarter of GDP growth during FY2020-21 (2020Q3 to 2021Q2) averages 17.5%, and the probability remains about the same toward first quarter of FY2021-22 – ABOUT 5 to 10% LOWER THAN A YEAR AGO

Continued.....

3. Survey of Professional Forecasters



Summary of Forecast Data:

Economic Estimates:

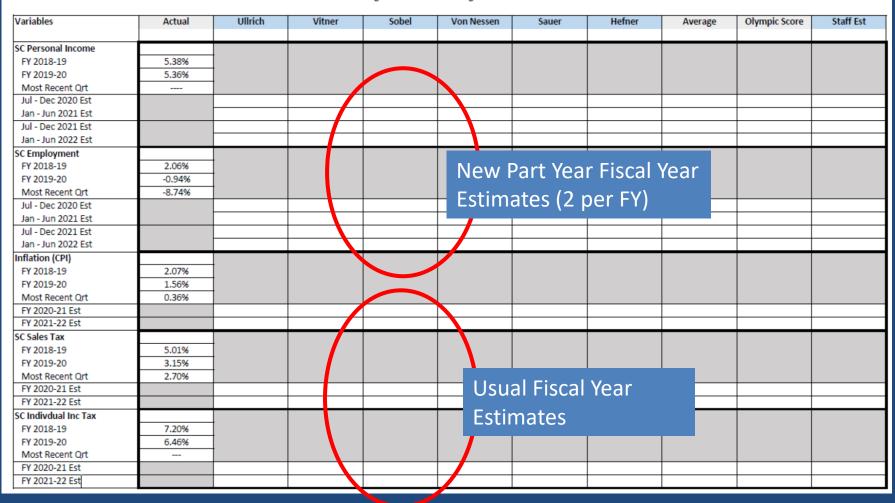
		FY 2020-2	1	FY 2021-22			
	SC Personal Income Growth (=US Nominal GDP Growth)	CPI Inflation Rate	SC Employment Growth	SC Personal Income Growth (=US Nominal GDP Growth)	CPI Inflation Rate	SC Employment Growth	
International Monetary Fund	-0.35%	1.4%		6.7%	2.3%		
Livingston Survey	10.1%	2.05%		4.7%	1.8%		
Survey of Professional Forecasters	10.2%	1.83%	9.17%	4.95%	2.05%	3.06%	
Median	10.10%	1.83%	9.17%	4.95%	2.05%	3.06%	

Revenue Estimates:

	FY2020-21	FY2021-22					
Sales Tax Revenue ⁴	8.1%	3.7%					
Individual Income Tax Revenue ⁵	13.2%	4.2%					
Using estimated elasticities per Sobel & Holcombe (1996) method.							

Forecast Table:

SC Board of Economic Advisors Forecast Scoring Sheet Regional Advisors Meeting - October 2020



Forecast Table:

		Sobel		
SC Pe	rsonal Income			
	Jul - Dec 2020 Est	13.40%	Just in Case	
	Jan - Jun 2021 Est	6.88%	FY 2020-21 Est	10.10%
	Jul - Dec 2021 Est	5.20%		
	Jan - Jun 2022 Est	4.70%	FY 2021-22 Est	4.95%
SC En	nployment			
	Jul - Dec 2020 Est	15.2%	Just in Case	
	Jan - Jun 2021 Est	3.1%	FY 2020-21 Est	9.17%
	Jul - Dec 2021 Est	3.1%		
	Jan - Jun 2022 Est	2.6%	FY 2021-22 Est	3.06%
Inflat	ion (CPI)			
	FY 2020-21 Est	1.83%		
	FY 2021-22 Est	2.05%		
SC Sa	les Tax			
	FY 2020-21 Est	8.1%		
	FY 2021-22 Est	3.7%		
SC In	dividual Inc Tax			
	FY 2020-21 Est	13.2%		
	FY 2021-22 Est	4.2%		

Russell S. Sobel, Ph.D.

Caveats, Notes, and the Future:

- There is obvious uncertainty suggesting a careful and conservative approach.
- In general, we should expect an abrupt economic rebound, with likely slower future growth and more inflation than would have happened without COVID-19.
- Long term, we will see significant changes in the economy and negative secondary effects of recent government policies. Here are five of them:
 - 1. Changes in the structure of the economy due to: (1) permanent shifts to remote work and health care, (2) discoveries and development of new talents and skills (cooking at home), (3) reluctance to travel → combined these factors will reallocate resources, helping some sectors hurting others.
 - 2. Record levels of federal government debt → as interest rates rise in the future this will require either higher taxes or money creation, one of which will slow growth the other will be inflationary.
 - 3. Risk of monetary policy error and overhang → continued pressure for monetary expansion coupled with trillions in asset purchases... given the lags in policy impacts, higher inflation, economic instability and slower growth could result.
 - Increased restrictions on international trade and travel may persist → slowing growth especially for sectors dependent on imports, exports, and tourism.
 - 5. Ratchet effects on government spending → large increases in expenditures due to crisis situations rarely return to prior levels, leading to permanently higher spending, and slower economic growth as government spending as a share of the economy is permanently higher.



South Carolina
Board of Economic Advisors
Regional Advisory Committee
Economic Update
October 15, 2020
Frank Hefner

?????? **UNCERTAINTY??????**

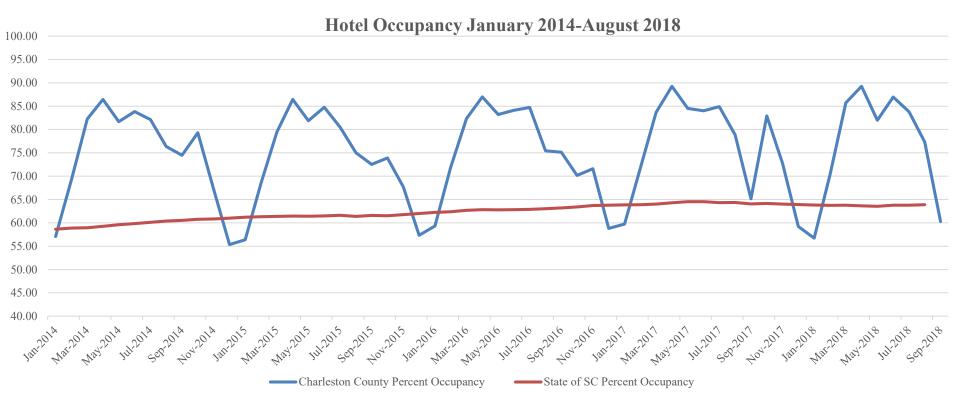


Inclement Weather						
Month	Event					
Oct-2015	Charleston flood					
Oct-2016	Hurricane Matthew					
Sep-2017	Hurricane Irma					
Jan-2018	Ice storm					
Sep-2018	Hurricane Florence					
Sep-2019	Hurricane Dorian					
2020	Lucky! So far!					

	County	State of SC Percent	
Year	Occupancy	Occupancy	
2014	69.2%		61.0%
2015	73.7%		62.0%
2016	75.6%		63.8%
2017	76.7%		63.9%
2018	78.9%		63.7%

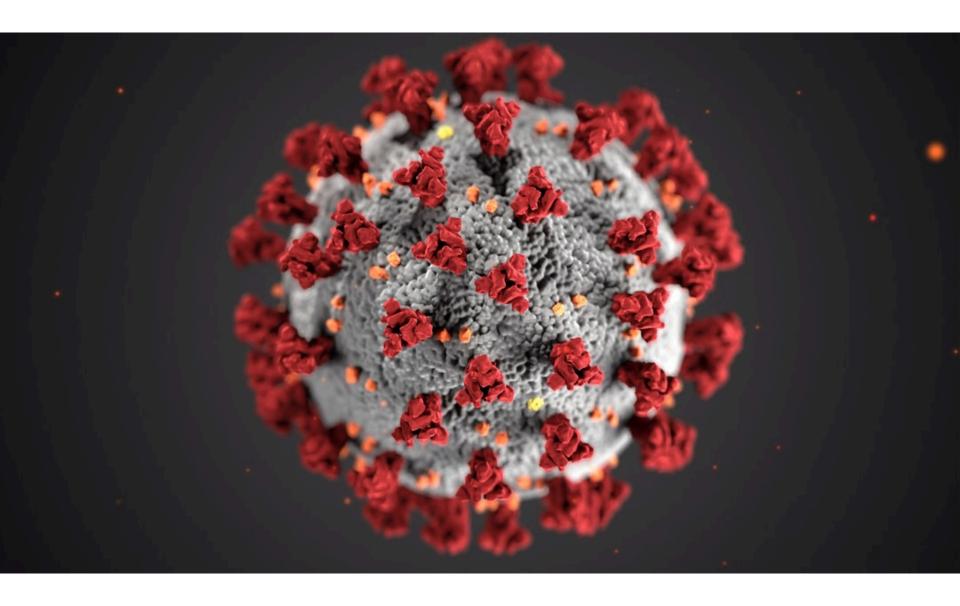
	Hurricane Andrew	Hurrican	e Katrina	Hurricane Ike	Superstor	m Sandy	Hurricane Matthew		
Manda	Unemployment Rate in Florida	Unemployment Rate in	Rate in	Unemployment Rate in Texas	Rate in New	Rate in New	Unemployment Rate in Florida	Unemployment Rate in South Carolina	
Month	0.7		Mississippi	4.4	York	Jersey	4.0		
t-6	8.5	5.9		4.4	8.7	9.2	4.9		
t-5	8.5	5.8	6.8	4.4	8.7	9.3	4.9	5.1	
t-4	8.5	5.7	6.7	4.5	8.7	9.6	4.9	4.9	
t-3	8.4	5.7	6.8	4.7	8.6	10.0	4.9	4.8	
t-2	8.4	6.0	7.0	4.8	8.4	9.4	4.9	4.6	
t-1	8.3	6.6	7.4	5.0	8.3	9.0	4.9	4.5	
Hurricane Month (t)	8.2	7.3	8.0	5.1	8.2	8.9	4.9	4.4	
t+1	8.1	9.3	7.7	5.3	8.2	9.0	4.9	4.3	
t+2	8.0	9.5	8.4	5.6	8.1	8.9	4.9	4.3	
t+3	7.8	9.3	8.4	5.8	8.0	9.7	5.0	4.4	
t+4	7.6	7.7	8.3	6.1	7.9	9.2	5.0	4.4	
t+5	7.5	6.2	7.9	6.3	7.8	8.7	4.8	4.4	
t+6	7.4	5.4	7.3	6.5	7.7	8.2	4.5	4.3	

Recovery from Weather Events
Resiliency in the Face of Weather Related Destruction

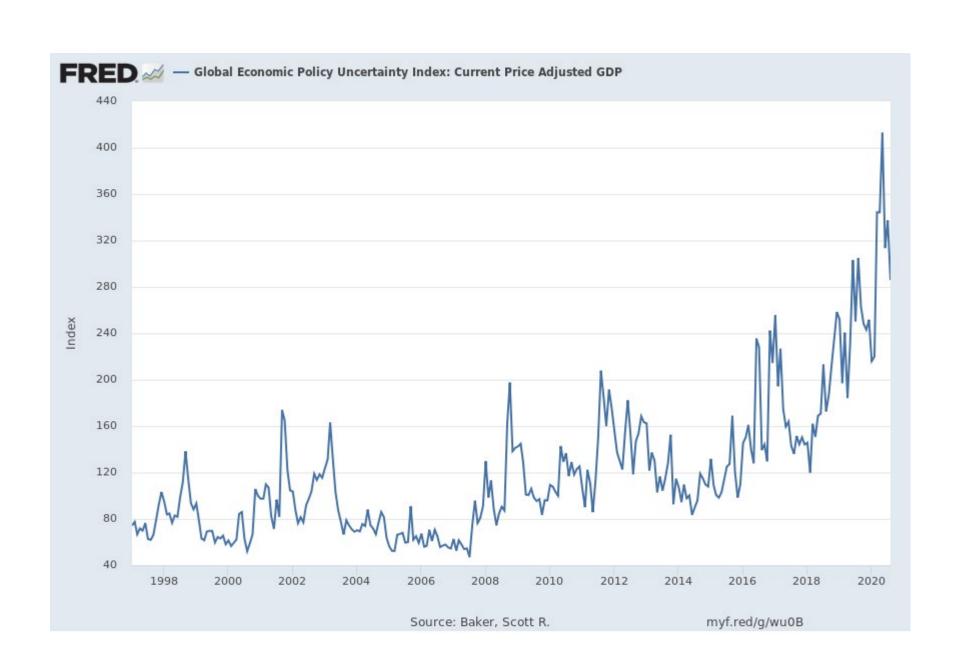


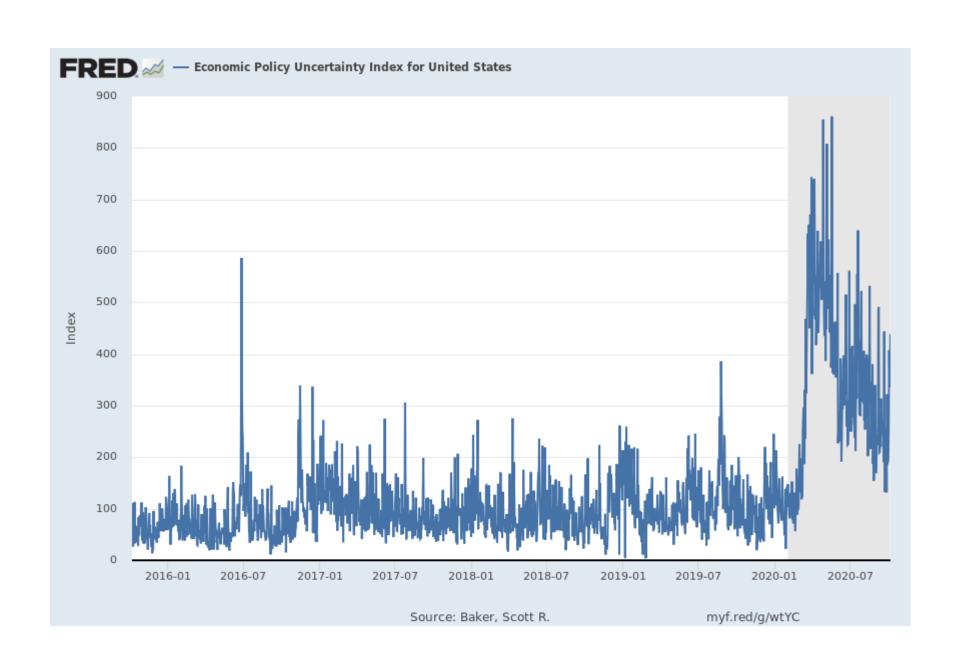
"Normal Pattern"

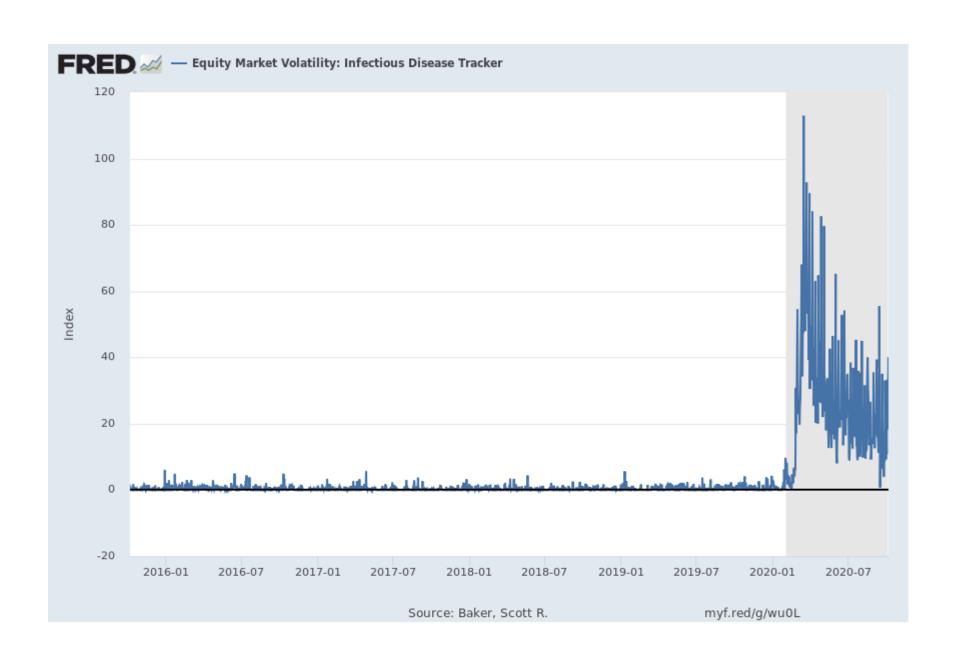
COVID

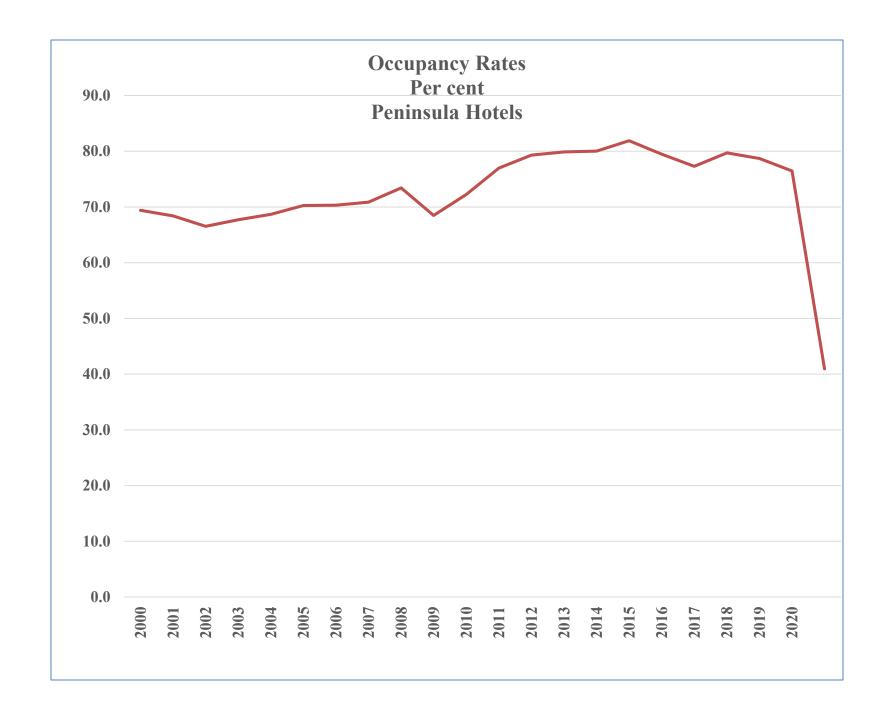


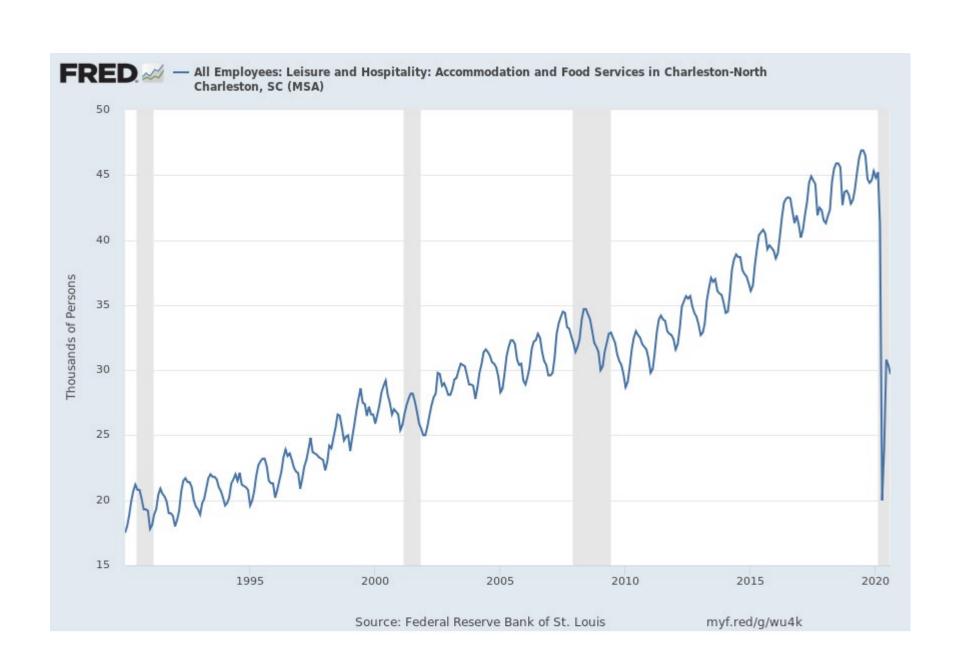
Spreading Uncertainty

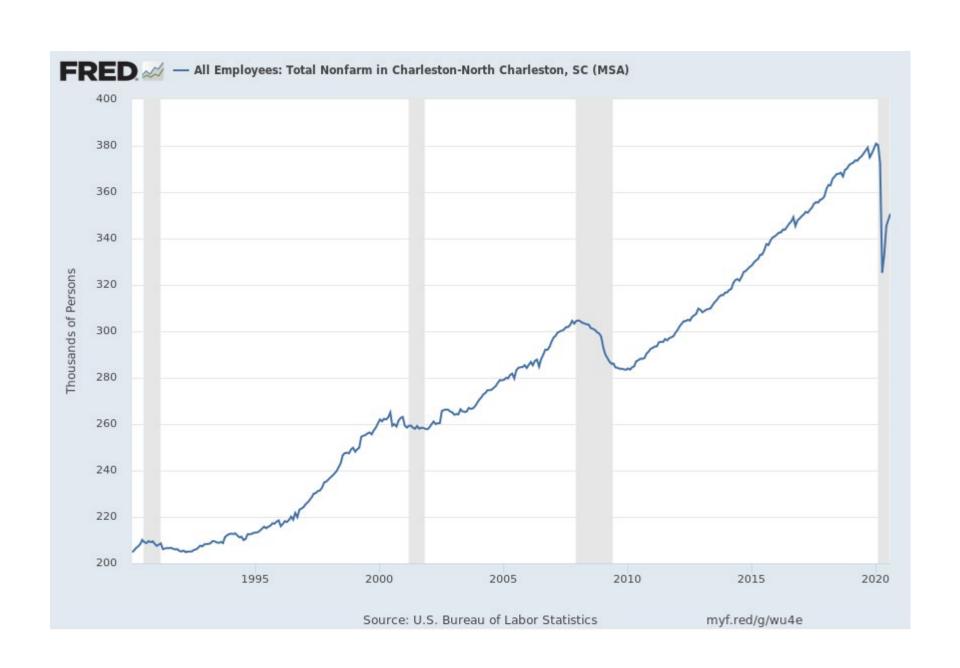


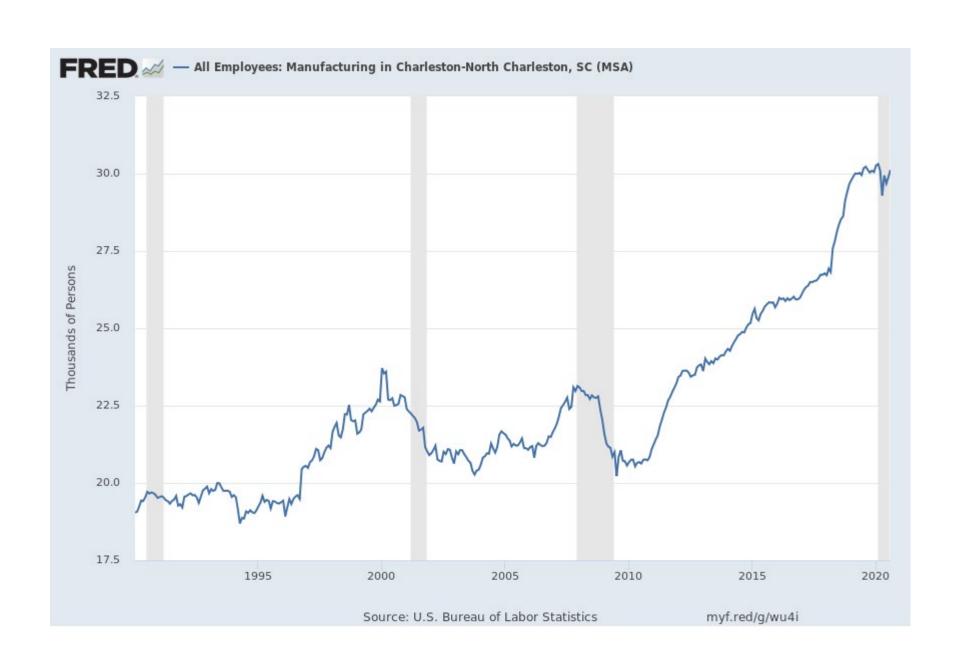


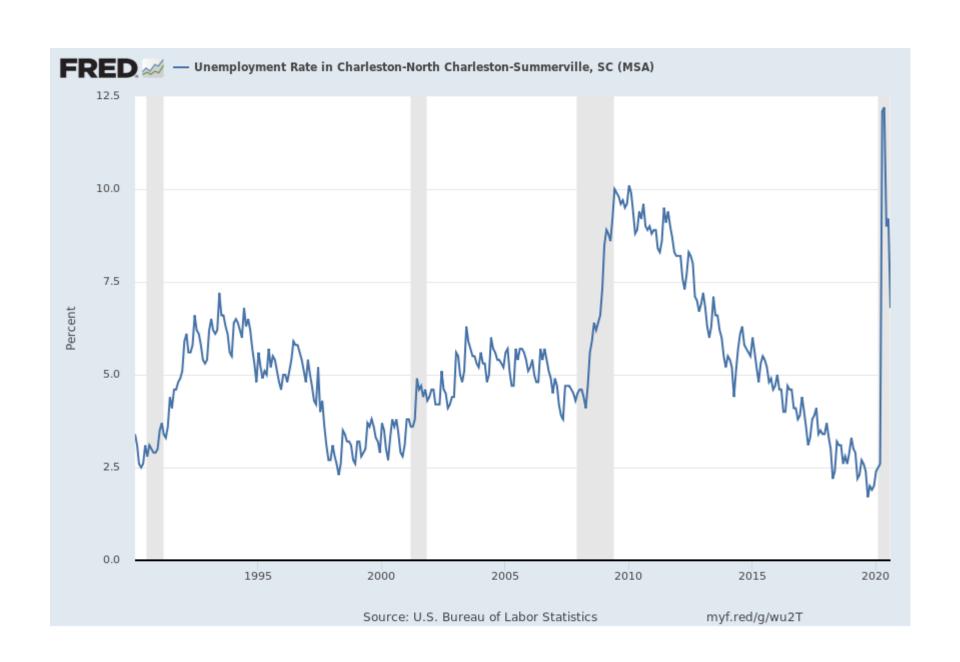












WHAT IS THE PROBABILITY A VOLCANO WILL ERUPT IN CHARLESTON?



FORECASTING POST COVID

South Carolina's Economy in 2020 The Road to Recovery



Joseph Von Nessen, Ph.D. Research Economist October 15, 2020

joey.vonnessen@moore.sc.edu

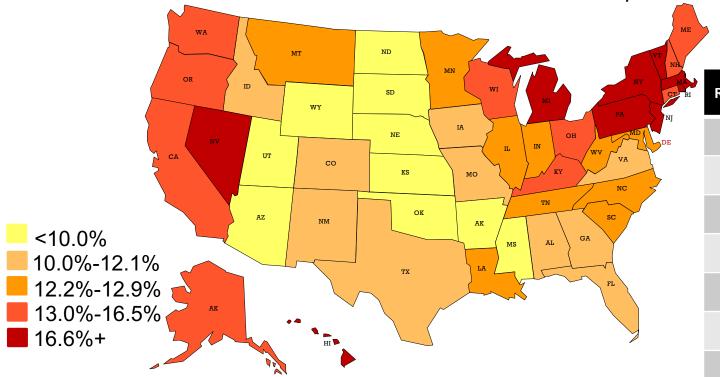
How is South Carolina Doing?





U.S. Pandemic Job Losses by State

Job Losses shown are from March 2020 to April 2020

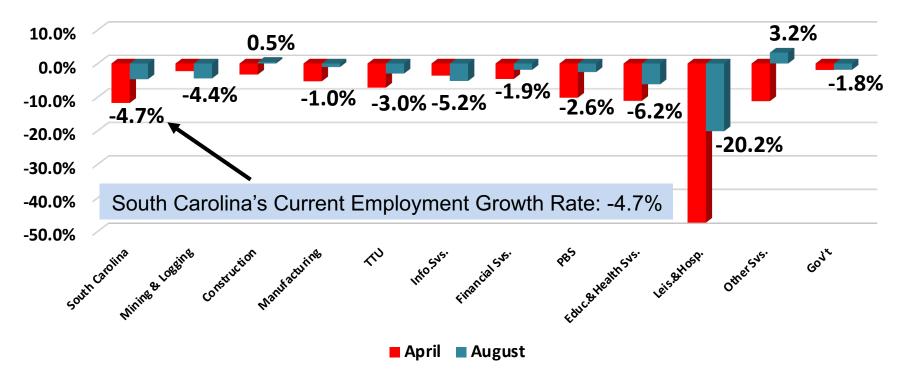


Rank	State	% Jobs Lost
1	Michigan	23.1%
2	Vermont	20.6%
3	Hawaii	19.2%
25	South Carolina	12.6%
48	Arkansas	8.6%
49	Wyoming	8.4%
50	Nebraska	8.2%



S.C. Employment Growth by Industry

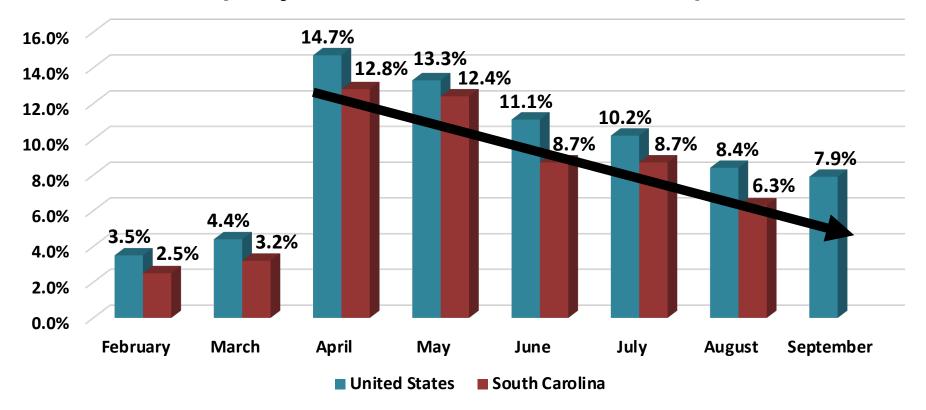
Listed Growth Rates: August 2020 vs. August 2019



Source: U.S. Bureau of Labor Statistics, CES, NSA

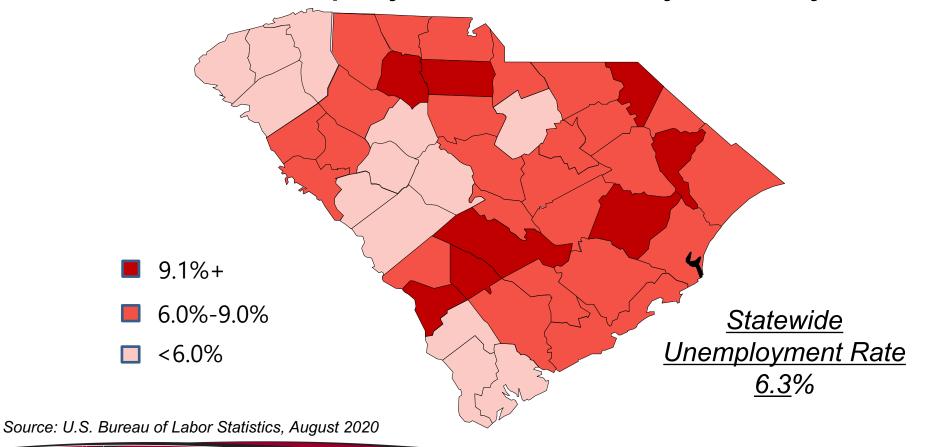


Unemployment Rates: Feb.-Sept. 2020





S.C. Unemployment Rates by County



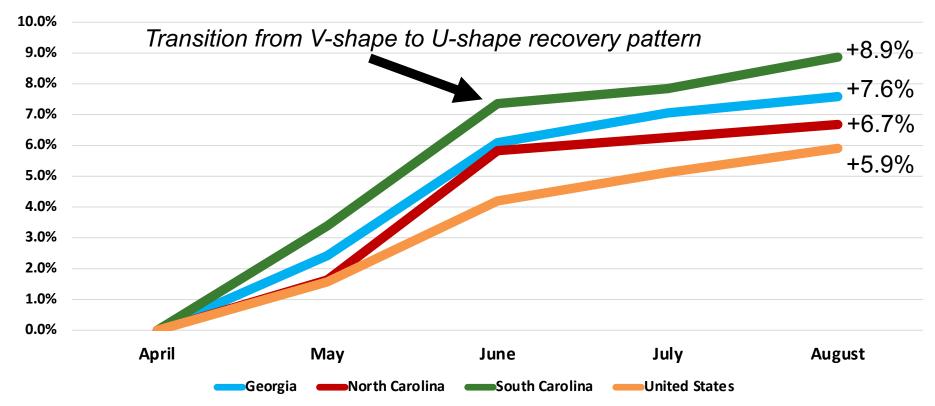


South Carolina Employment Changes

Time Period	Job Losses/Gains	
March 2020 to April 2020	-275,900	
April 2020 to August 2020	+170,400	
Pct. of Jobs Recovered	+61.8% for S.C. (vs. +51.0% for U.S.)	

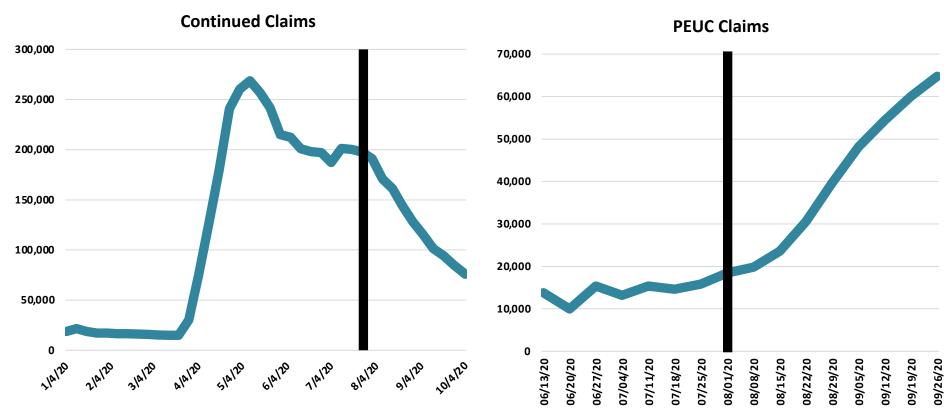


Cumulative Job Growth Since April 2020





S.C. Unemployment Insurance Claims



Source: U.S. Department of Labor



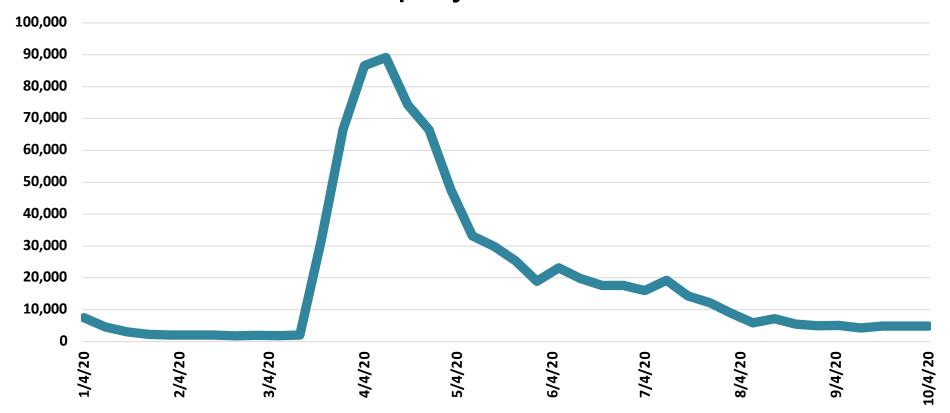
Why?

A spike in new COVID-19 cases in July

PPP fund exhaustion

Upper limits on business activity in the short-run

S.C. Initial Unemployment Insurance Claims



Source: U.S. Department of Labor



Fall Scenarios to be Tracking

- The changing impacts of virtual schooling on the labor force
- Possible increases in COVID-19 cases combined with the flu season – how will a potential vaccine mitigate these impacts?
- Additional targeted fiscal stimulus from Congress



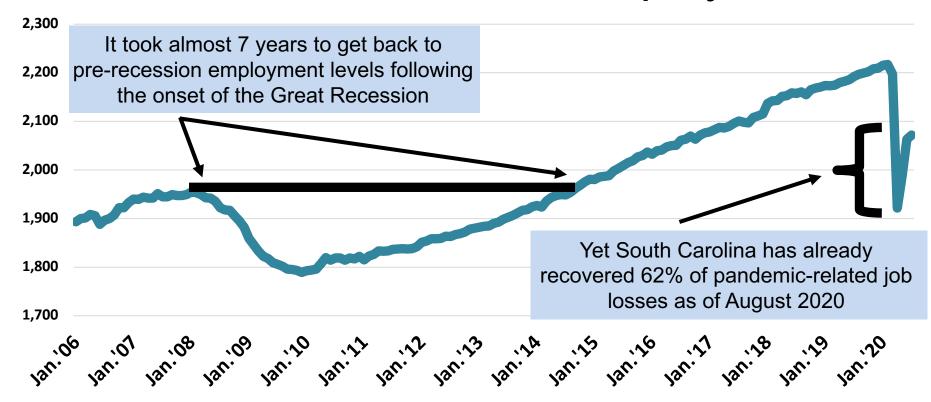
Recovery and Expansion



Looking Beyond 2020

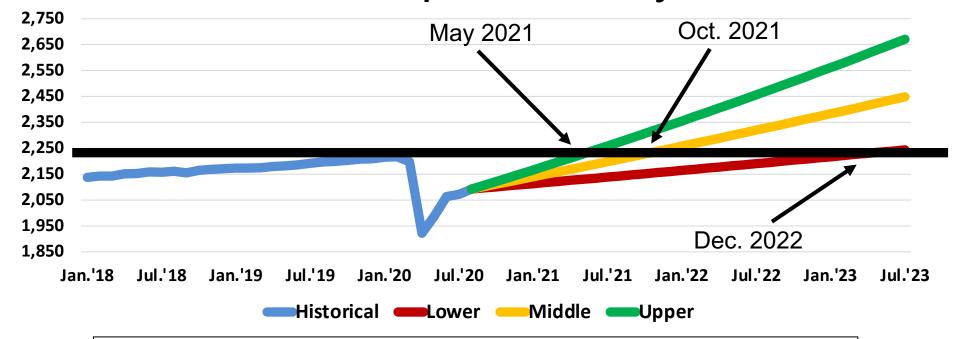


Total South Carolina Employment





S.C. Possible Emp. Recovery Scenarios



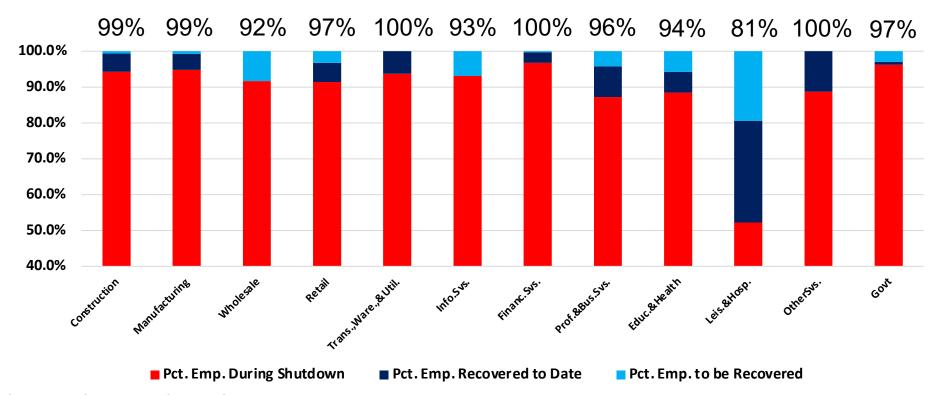
Even the lower bound on recovery scenarios suggests a much faster recovery in South Carolina than what was experienced following the Great Recession

Source: U.S. Bureau of Labor Statistics, CES-SA & Division of Research



Current Industry Size as a Pct. of Pre-Pandemic Size

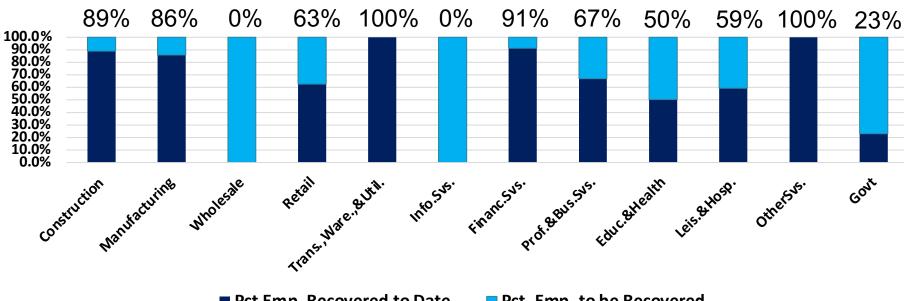
Estimated by Comparing March 2020 to August 2020 Employment Levels





Pct. of Lost S.C. Jobs Recovered to Date

Estimated by Comparing March 2020 to August 2020 Employment Levels



■ Pct Emp. Recovered to Date

■ Pct. Emp. to be Recovered

To date, South Carolina has recovered approximated 62% of all jobs lost between March 2020 and April 2020

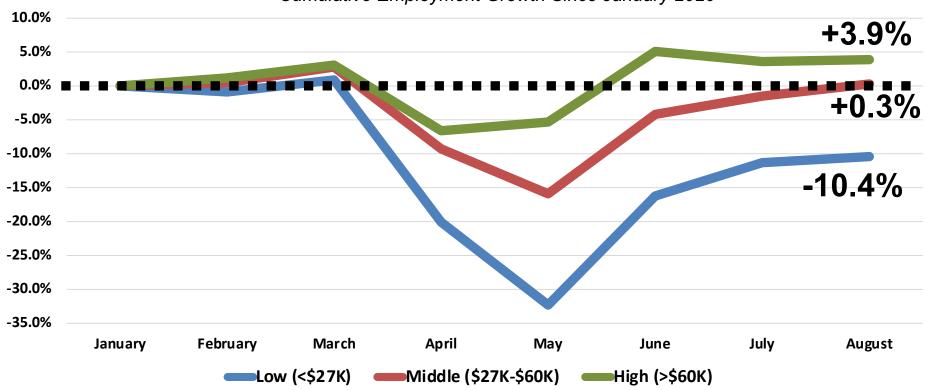


An Uneven Recovery



S.C. Employment Growth by Wage Level

Cumulative Employment Growth Since January 2020



Source: Harvard University, Opportunity Insights Economic Tracker, September 2020



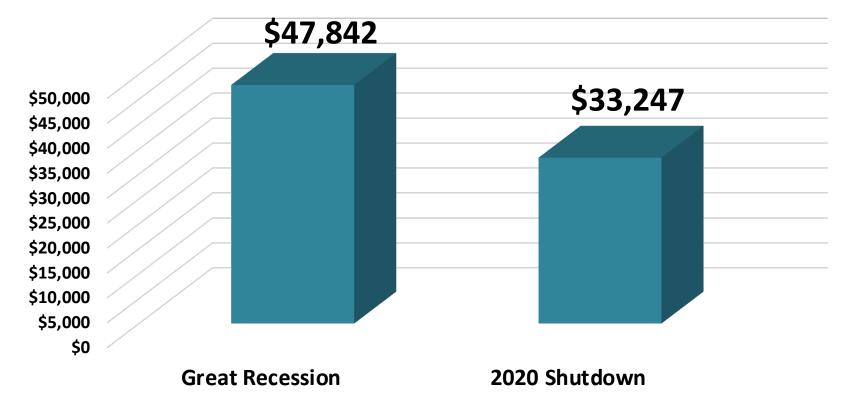
S.C. Employment-Based Income Losses by Household Demographic

Reported for Losses Experienced Since March 15, 2020

Household Income Level	Experienced a Loss	Expecting Future Loss
Less than \$25K	67.0%	37.6%
\$25K-\$35K	49.6%	36.2%
\$35K-\$50K	47.4%	28.7%
\$50K-\$75K	47.8%	33.3%
\$75K-\$100K	34.9%	25.0%
\$100K-\$150K	31.2%	22.5%
\$150K+	26.4%	9.3%

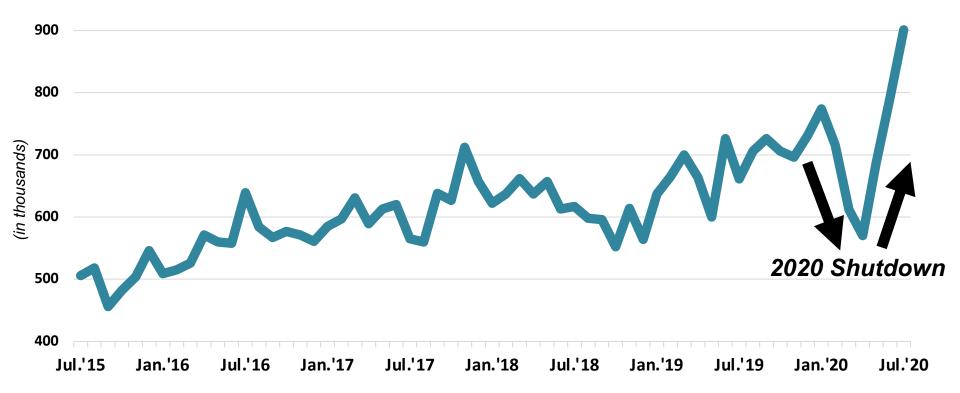
Source: U.S. Census, Household Pulse Survey, September 2020

Avg. Annual Wage of All Jobs Lost in South Carolina





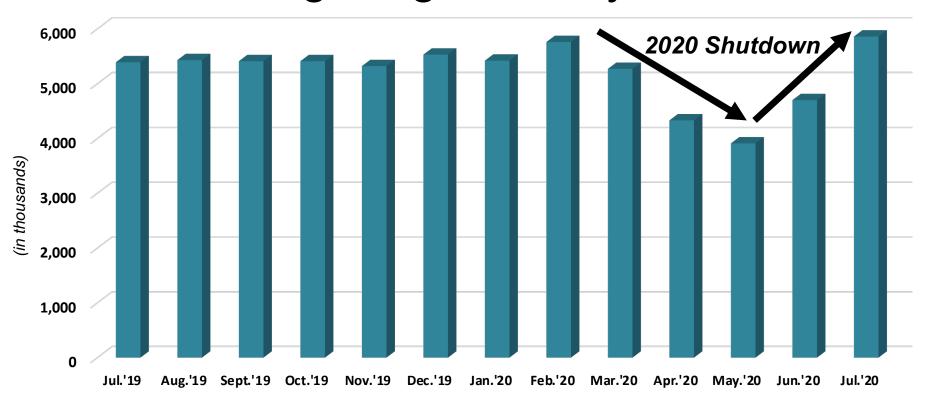
U.S. New Single Family Home Sales



Source: National Association of REALTORS



U.S. Existing Single Family Home Sales



Source: National Association of REALTORS



The Bottom Line

- The pace of our recovery has slowed considerably since July, from a V-shape to a U-shape. This U-shaped recovery path may persist throughout the Fall.
- A full recovery in which employment rebounds to pre-pandemic levels is highly unlikely before Summer 2021.
- To date this recovery has been very uneven, with educational attainment being a major dividing line between market segments experiencing strong or weak growth.
- South Carolina is well-positioned for a "post-pandemic world" and may emerge as a leader for economic growth in the coming decade.

Thank You!