COVID-19: Economic Implications and Policy Response

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- Global
- Duration is unpredictable
- Economic toll is enormous and potentially durable

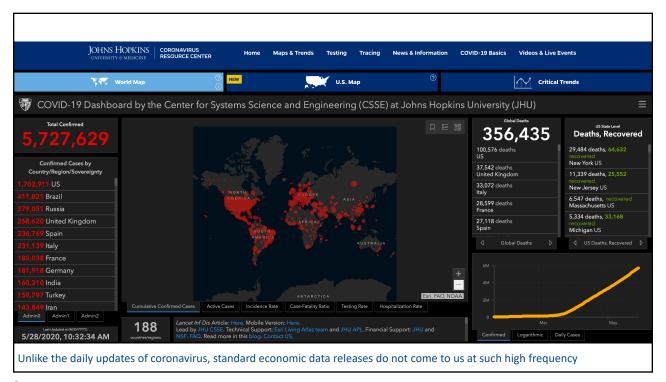
• A health crisis that spilled over onto the economy.

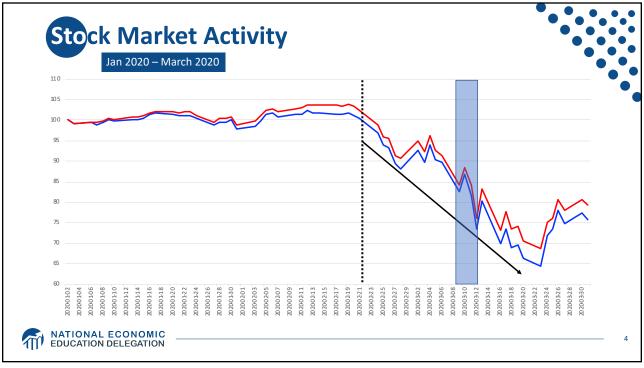
- A perfect storm of economic difficulty
 - Supply side
 - o Demand side
 - o Financial
- Without a culprit

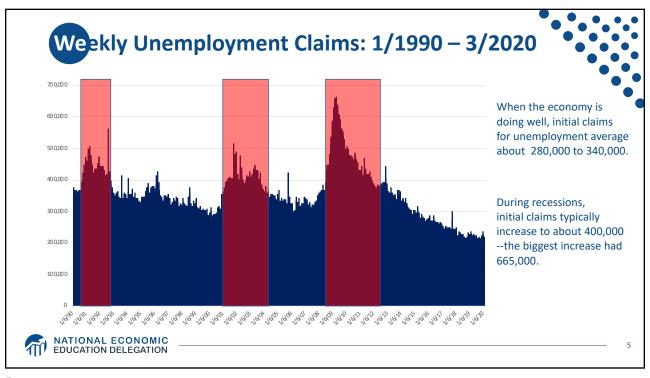


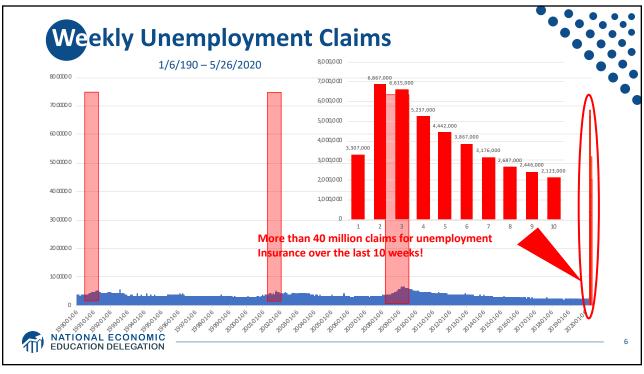
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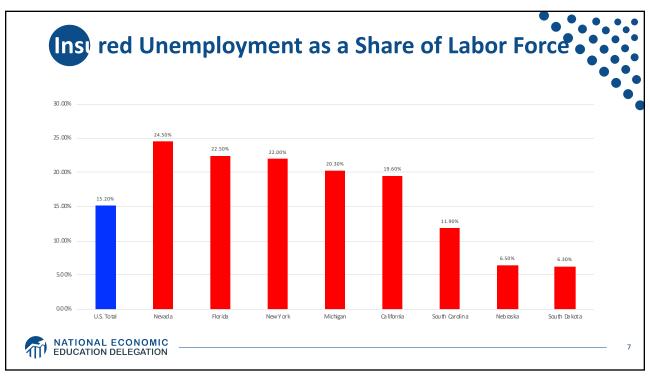
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- A Financial Crisis which and (initial) flawed policy response
- that resulted in persistent high unemployment

Great Recession

- A Financial Crisis
- Oil Crisis of 1975: Supply Shock due to a sharp rise in the price of oil
- Prior to the pandemic none of the above:
 - Financial markets were not in trouble.
 - Real GDP growth was strong buoyed by strong consumer spending. Unemployment and inflation were both low.

 - Oil prices were falling.

• COVID-19 - "Health Shock"

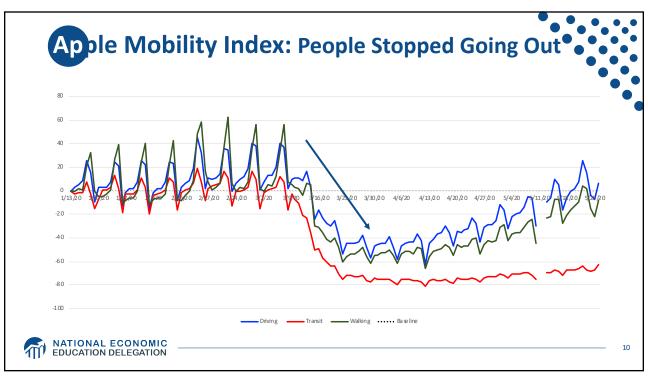
- Supply Shocks: Disrupted supply chains
- Demand Shocks: Limit market transaction in order to reduce the spread

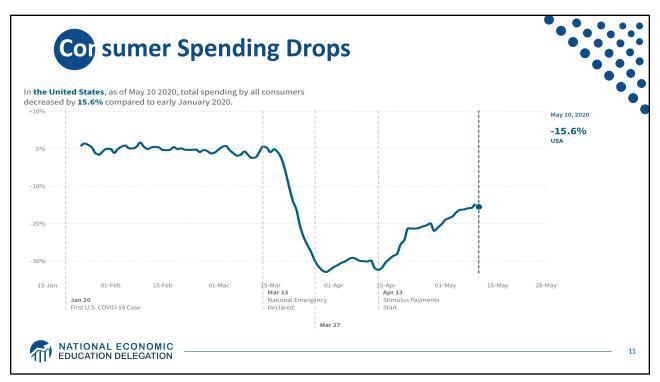
Spanish Flu (1918)

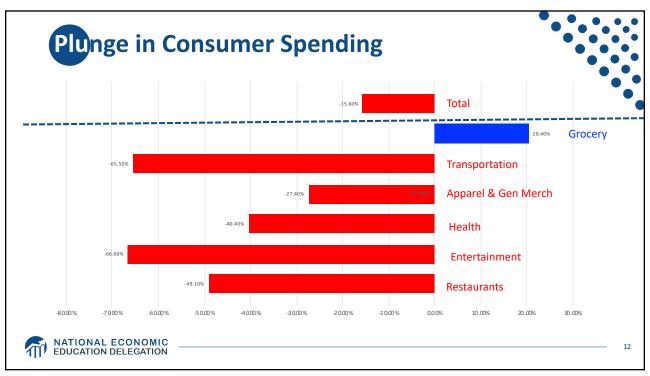
- Structure of production and consumption is notably different

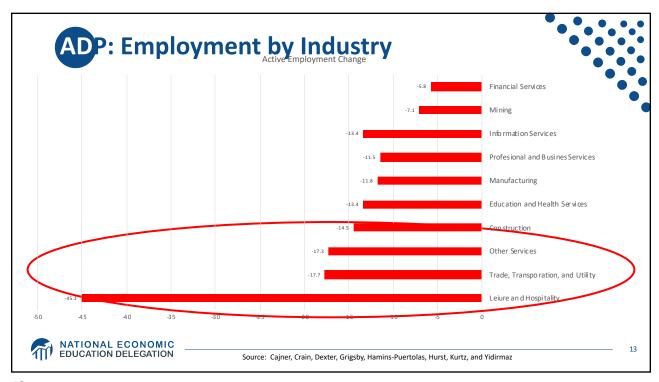


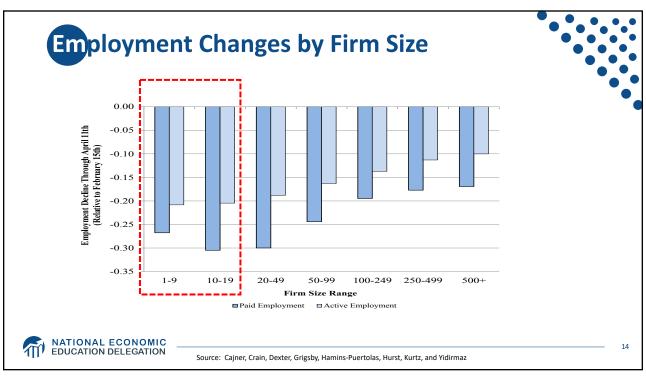
Start Date	Recession Duration	Time to Peak Unemployment	Peak Unemployment	
Nov 1948	11 mos.	12 mos.	7.9%	Unemployment typicall
July 1953	10 mos.	13 mos.	6.1%	peaks after the
Aug 1957	8 mos.	10 mos.	7.5%	recession ends
April 1960	10 mos.	11 mos.	7.5%	
Dec 1969	11 mos.	12 mos.	6.1%	
Nov 1973	16 mos.	17 mos.	9.0%	
July 1981	16 mos.	17 mos.	10.8%	
July 1990	8 mos.	11 mos.	7.8%	
Mar 2001	8 mos.	26 mos.	6.2%	
Dec 2007	18 mos.	27 mos.	9.9%	
Mar 2020*	?????	2 mos.	14.7%	

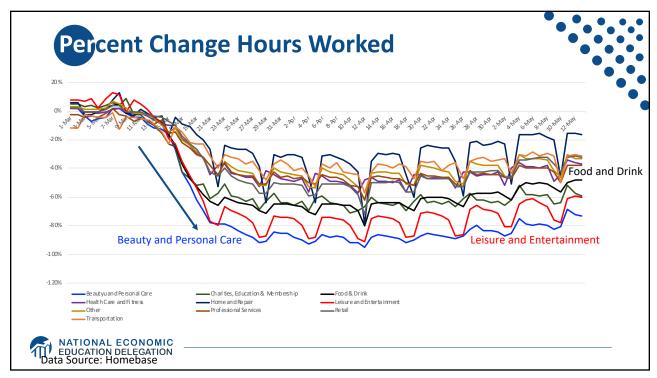


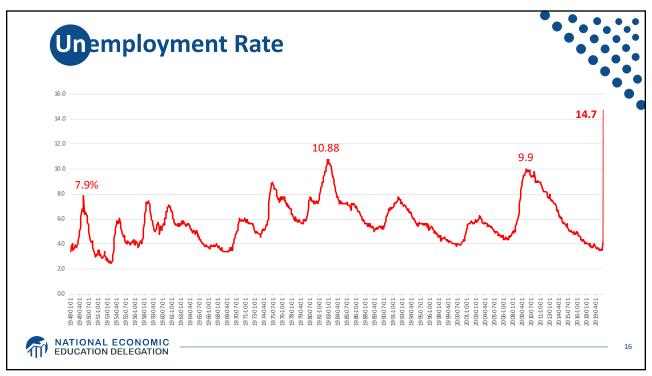


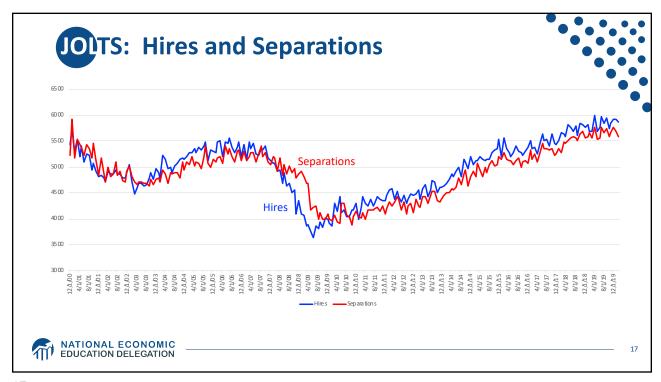


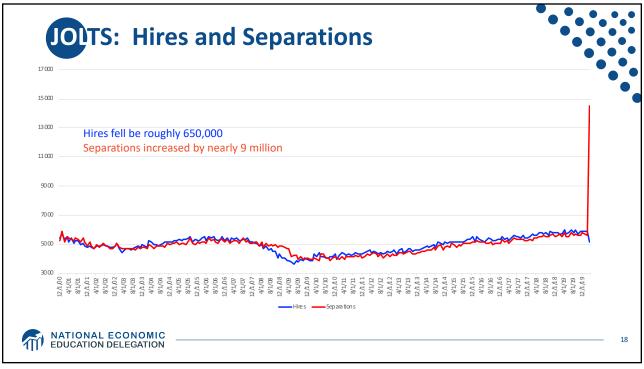


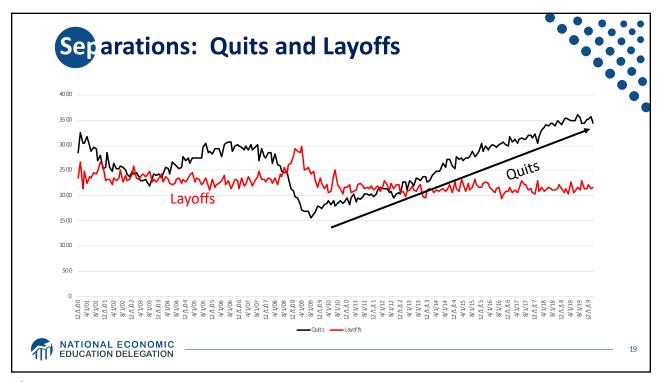


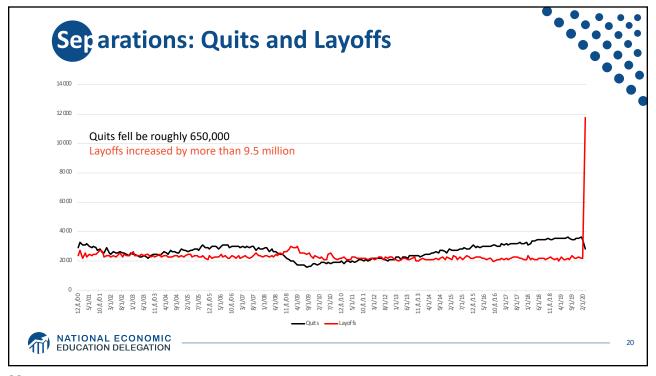












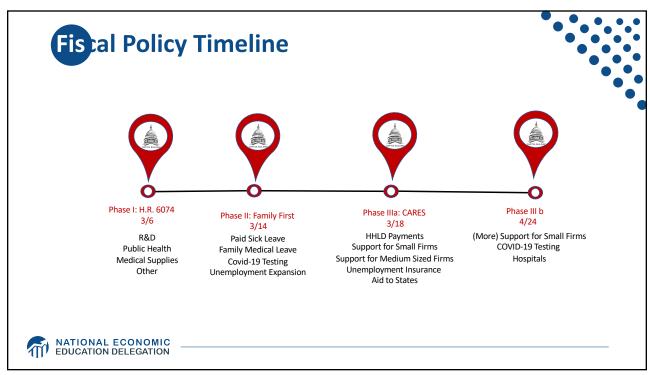


Go ernment Response: This Shock is Differen

- This economic shock is a "health shock" with externalities that have (large) macroeconomic consequences.
- The fiscal and monetary response is not one where we can or should think about Keynesian versus Classical Solutions.
- Response should be to target the cause of the problem and provide income support for individuals and some financial support for firms.
 - Cause of the problem is COVID-19 and its contagion.
 - Economy appeared to be relatively structurally sound before the shock and then a sudden deterioration
 - (We hope) The economic shock is not structural and on the "other side". We hope that structurally things will be the same; therefore, we would like to preserve employment-employer matches.



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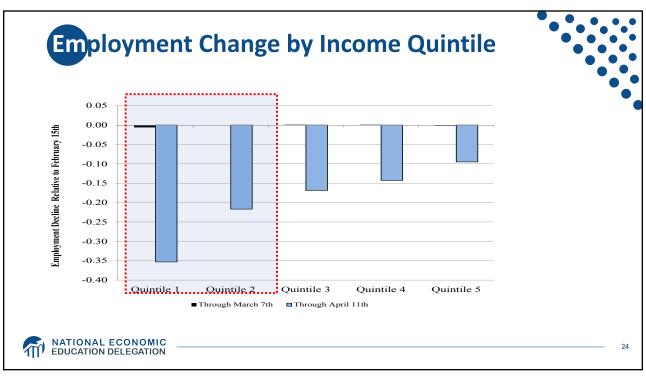
Fiscal Response: CARES Act (H.R. 748)

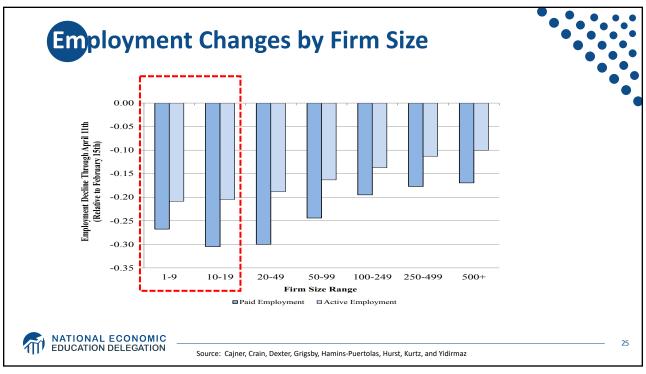
- Direct payment to households \$1,200 for every adult and \$500 for every child similar to the 2008 rebate but purpose is different.
- Small business loans (Paycheck Protection Program)-- \$350 billion
 - <500 employees and designed to cover six (6) weeks of payroll.
- Economic Stabilization Fund (Main Street Lending Program) \$500bn
 - for medium sized firms,
 - state and local municipalities, and
 - passenger and cargo air carriers, and firms maintaining national security.
- Expand unemployment benefits

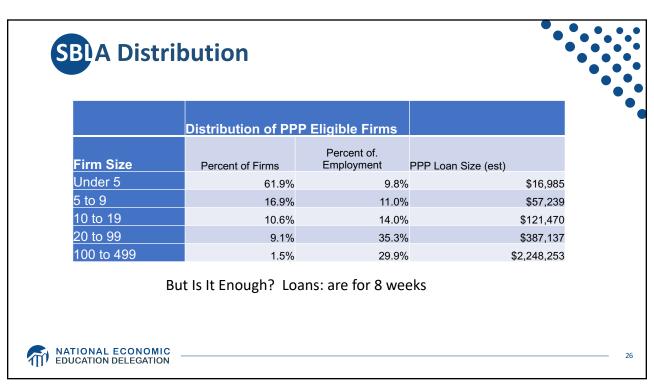


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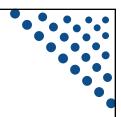
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PPP Loan Major Recipients By Industry



Industry	Amount (Billions)	Percent of Loans
Construction	\$44.9	13.1
Professional, Technical and Scientific, Services	\$43.3	12.7
Manufacturing	\$40.9	12.0
Health Care and Social Assistance	\$39.9	11.7
Accommodation and Food Service	\$30.5	8.9
Retail Trade	\$29.4	8.6
Wholesale Trade	\$19.5	5.7

These seven (7) industries account for nearly 75% of the PPP loans



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Federal Reserve: Standard Operations

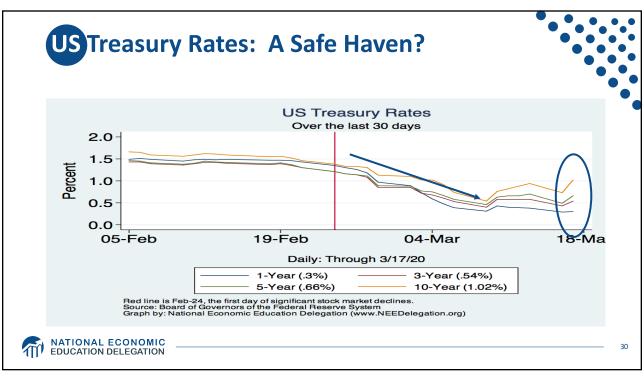


- Federal Funds Rate: The Federal Reserve lowered the targeted Federal funds rate on March 3 and again on March 15 moving the targeted Federal Funds rate to zero.
- **Discount Window Lending:** Lowered the interest rate it charges banks to borrow from 1.75% to 0.25%.
- **Reserve Requirement:** Lowered the reserve requirement to zero.
- **Forward Guidance:** Honed during the Great Recession the Fed tries to set market expectations on the time path of interest rates over time.



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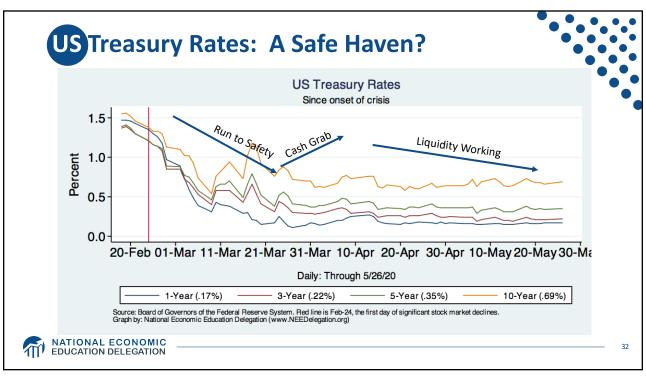
Fee eral Reserve: Ensure Financial Market Stability

- Securities Purchases (Quantitative Easing): Fed Response: purchase treasuries and mortgage backed securities (3/15).
- Re-launched the **Primary Dealer Credit Facility (PDCF)** in order "smooth market functioning and facilitate the availability of credit to businesses and households (3/17).
- Re-instituted the Money Market Mutual Fund Liquidity Facility (MMLF) to "assist money market mutual funds in meeting demands for redemptions by households and investors enhancing overall market function and credit provision to the broader economy."
- Increased liquidity in the repo market. The repo market is where firms borrow and lend cash and short-term securities. The Fed was offering \$100 billion in overnight loans and \$20 billion in two-week loans.
 - The Fed increased the offerings to \$1 trillion (from \$100 bn) in overnight repos, and
 - \$500 billion in one month and three-month repos (from \$20bn 2/wks).



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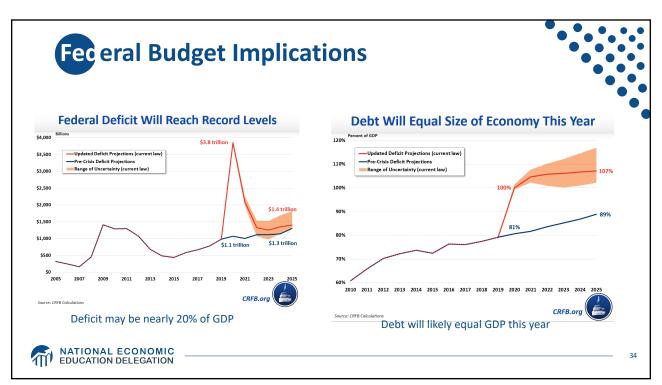
Federal Reserve: Support Corporations and Business

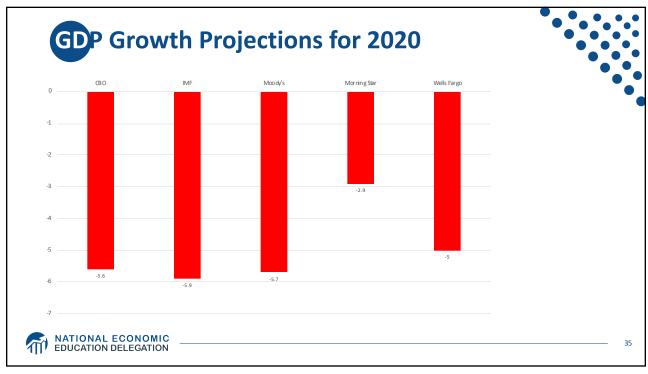
- Created the Primary Market Corporate Credit Facility (PMCF) allows the Fed to lend directly to corporations by buying new bond issuances and providing loans (3/17).
- Instituted the Commercial Paper Funding Facility (CPFF) the Fed can purchase commercial paper from firms at a given interest rate effectively, the Fed is lending directly to firms. (3/17)
- Main Street (Expanded) Loan Facility: Through the CARES Act these two programs offer four-year loans to US businesses with up to 10,000 employees or revenues less than \$2.5 billion. (4/9)
- Paycheck Protection Program Facility: Facilitates loans under the Small Business Administration Paycheck Protection Program



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• Real GDP growth in the second quarter could be -50%!

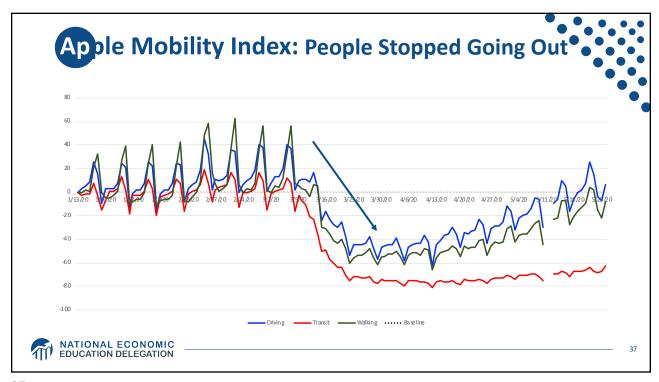
- What does this growth rate mean?
- Remember the quarterly growth rate is annualized.
- So that if Q1 real GDP was \$4.8 trillion and Q2's real GDP fell to \$4.0 trillion, the annualized growth would be $\left[\left(\frac{4.0}{4.8}\right)^4-1\right]*100 \approx -50\%$

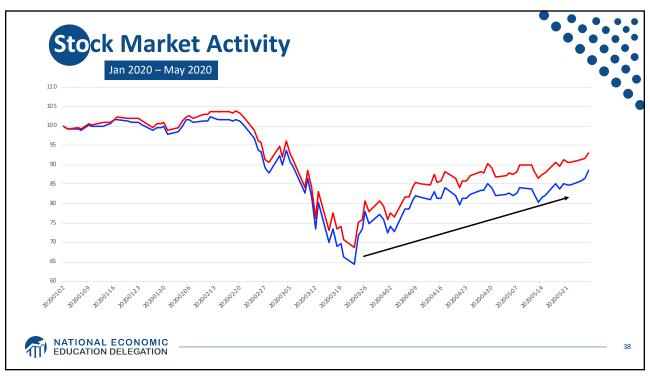
What about unemployment?

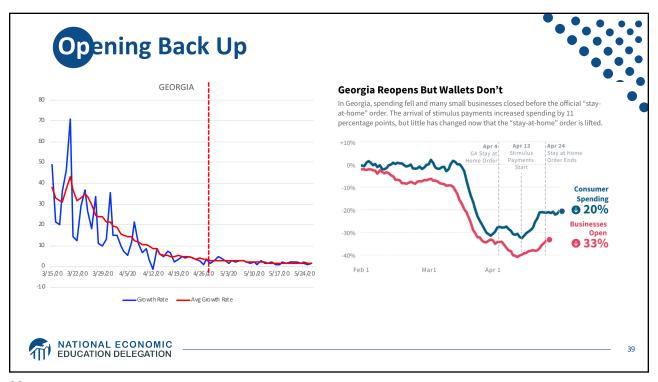
- Next Friday will be the next measure of unemployment.
- In the second half of the year, we might see employment begin to pick up and the unemployment rate fall.
- We might be close to 10 percent by the end of the year.
- Even without setbacks on the health side it may take some time for the unemployment rate to get back to 5%

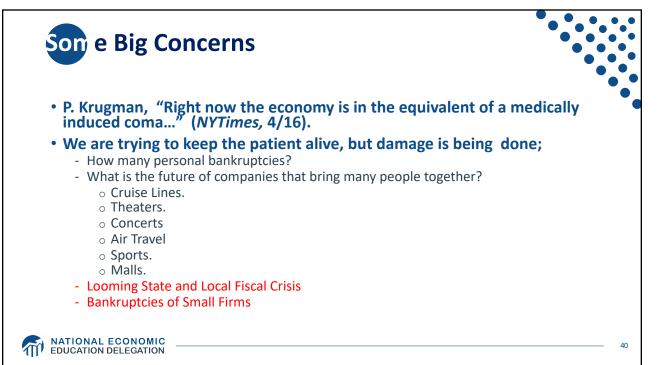


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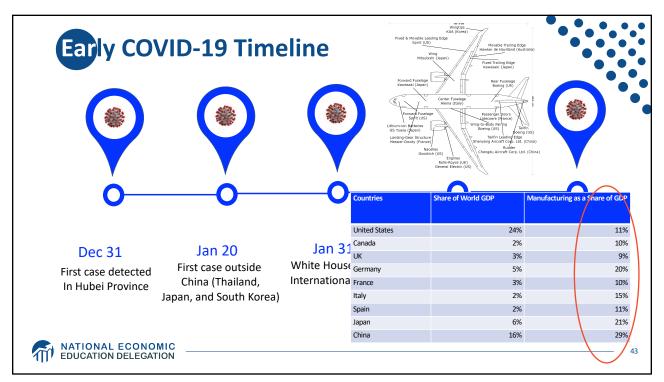


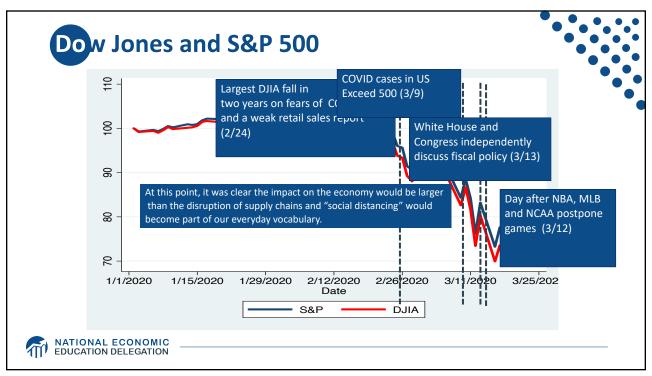
- COVID-19 is health crisis that has macroeconomic implications.
- The macroeconomic effects that have impacted both the supply and demand.
- GDP will likely contract between 5.0 and 6.0 percent this year.
- Positive growth may return in 2021 as long as there are preventative medicines and treatments.
- No easy answers trade-offs are between bad outcomes.
- How do we plan for the next pandemic?
- Find the silver lining.

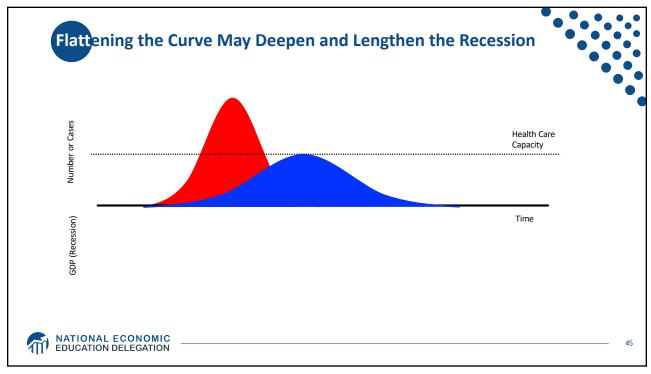


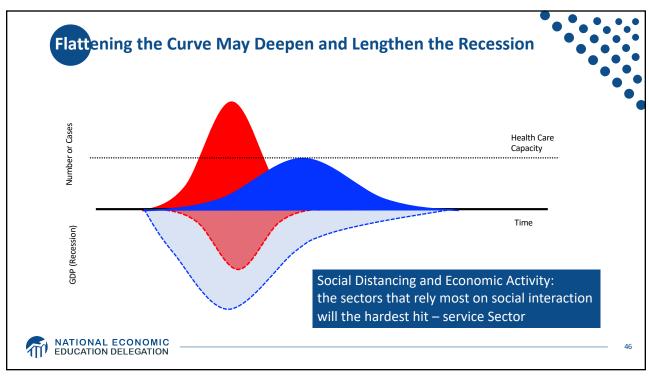
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Pro ected State Budget Shortfall Unprecedented FIGURE 1 COVID-19 State Budget Shortfalls Could Be Largest on Record Total state budget shortfall in each fiscal year, in billions of 2020 dollars COVID-19* 2001 Recession **Great Recession** '02 '03 '04 '05 '09 '20 '21 22 -\$60 -\$60 -\$60 -\$105 -\$105 -\$110 -\$105 -\$120 -\$130 -\$150 -\$230 -\$290 Source: Pre 2014: CBPP survey; 2020 and following: CBPP calculations MATIONAL ECONOMIC EDUCATION DELEGATION CENTER ON BUDGET AND POLICY PRIORITIES | CBPP.ORG

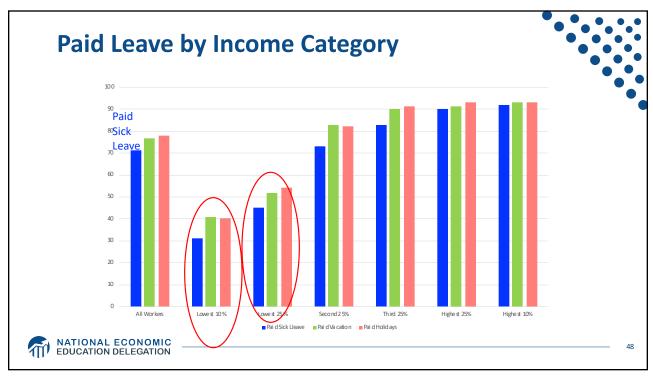








Countries	Share of World GDP	Manufacturing as a Share of GDP	Services as a Share of GDP
United States	24%	11%	77.4%
Canada	2%	10%	66.7%
UK	3%	9%	71.0%
Germany	5%	20%	61.8%
France	3%	10%	70.3%
Italy	2%	15%	66.3%
Spain	2%	11%	67.7%
Japan	6%	21%	69.1%
China	16%	29%	52.2%





- Free testing for anyone whose doctor recommends testing.
- Expand family and medical leave
- Paid emergency sick leave
- Additional unemployment benefits
- Food assistance: Supplemental Nutrition Assistance Program (SNAP) and Home-Delivered Nutritional Services



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