



COVID-19: Economic Implications and Policy Response

Rotary Club of Arlington, VA

September 3, 2020
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Executive Director, NEED



National Economic Education Delegation

• Vision

- One day, the public discussion of policy issues will be grounded in an accurate perception of the underlying economic principles and data.

• Mission

- NEED unites the skills and knowledge of a vast network of professional economists to promote understanding of the economics of policy issues in the United States.

• NEED Presentations

- Are **nonpartisan** and intended to reflect the consensus of the economics profession.



Who Are We?

- **Honorary Board: 51 members**

- 2 Fed Chairs: Janet Yellen, Ben Bernanke
- 6 Chairs Council of Economic Advisers
 - o Furman (D), Rosen (R), Bernanke (R), Yellen (D), Tyson (D), Goolsbee (D)
- 3 Nobel Prize Winners
 - o Akerlof, Smith, Maskin

- **Delegates: 520+ members**

- At all levels of academia and some in government service
- All have a Ph.D. in economics
- Crowdsource slide decks
- Give presentations

- **Global Partners: 45 Ph.D. Economists**

- Aid in slide deck development



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Available NEED Topics Include:

- **Coronavirus Economics**
- **US Economy**
- **Climate Change**
- **Economic Inequality**
- **Economic Mobility**
- **Trade and Globalization**
- **Trade Wars**
- **Immigration Economics**
- **Housing Policy**
- **Federal Budgets**
- **Federal Debt**
- **2017 Tax Law**
- **Autonomous Vehicles**
- **US Social Policy**



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Credits and Disclaimer

- **This slide deck was authored by:**

- Jon D. Haveman, NEED
- Scott Baier, Clemson University
- Geoffrey Woglom, Amherst College (Emeritus)

- **Disclaimer**

- NEED presentations are designed to be nonpartisan.
- It is, however, inevitable that the presenter will be asked for and will provide their own views.
- Such views are those of the presenter and not necessarily those of the National Economic Education Delegation (NEED).



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Outline

- **What is this?**
- **Evidence of Impact**
- **Government Policy**
- **What to expect going forward**



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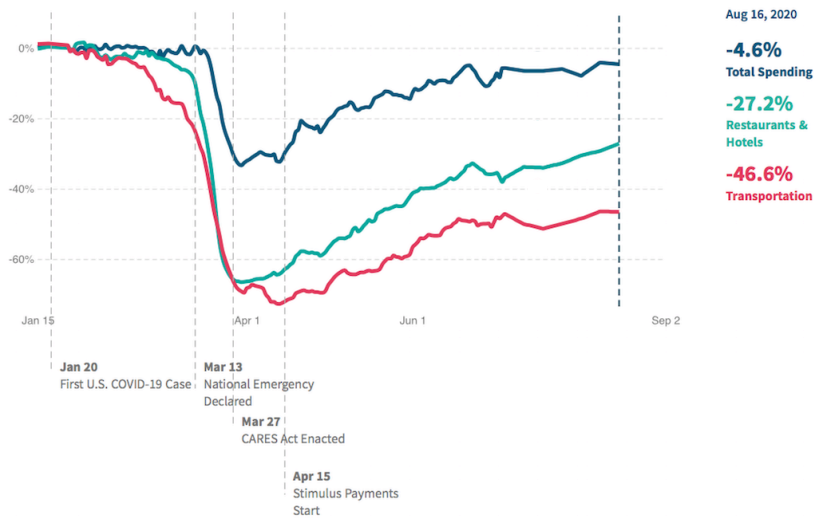
What is this?

- **A natural disaster – with important twists:**
 - 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
 - Demand side
 - Financial
 - Without a culprit

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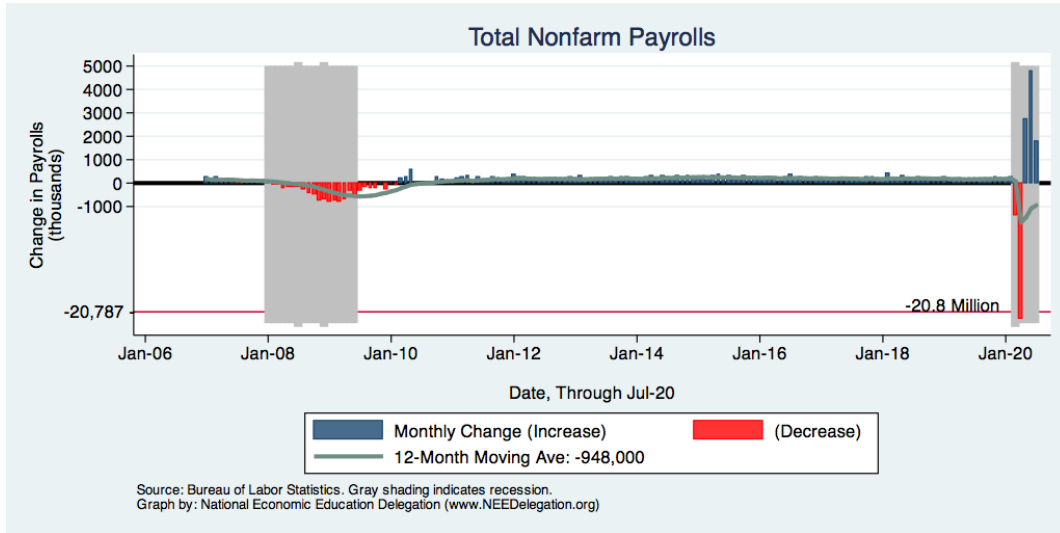
Spending Has Collapsed

In **the United States**, as of August 16, 2020, total spending by all consumers decreased by **4.6%** compared to January 2020.



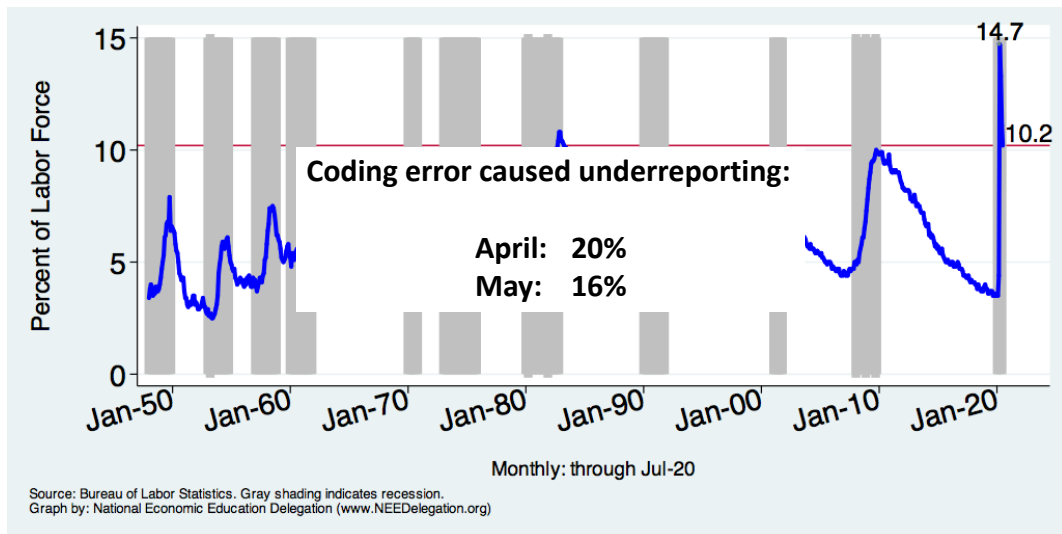
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Monthly Changes in Nonfarm Employment



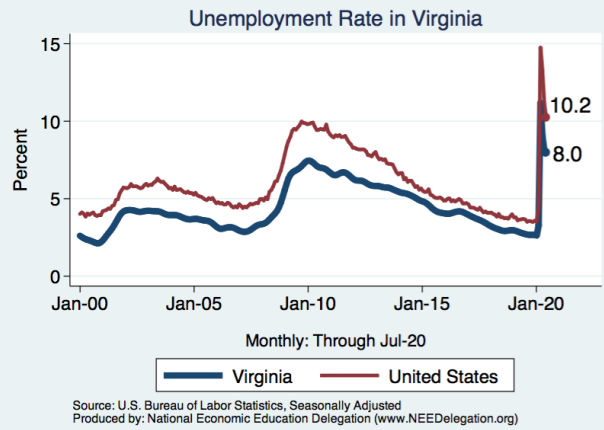
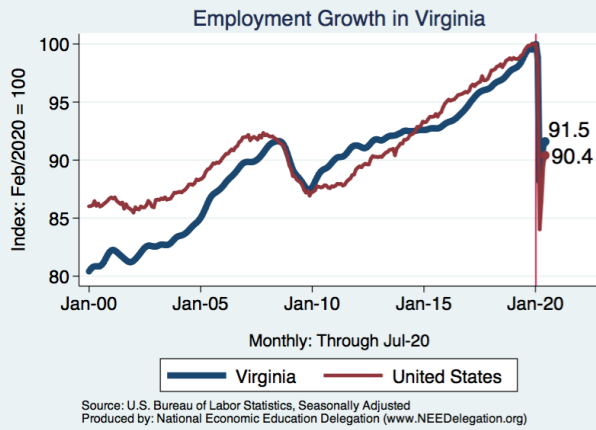
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Unemployment Rate



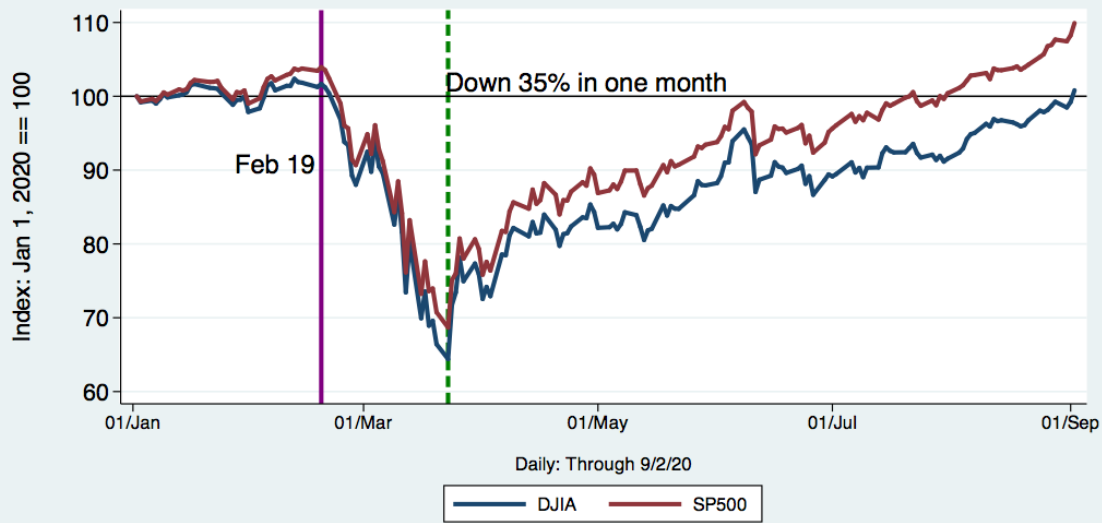
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Employment in Virginia



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DJIA and S&P 500



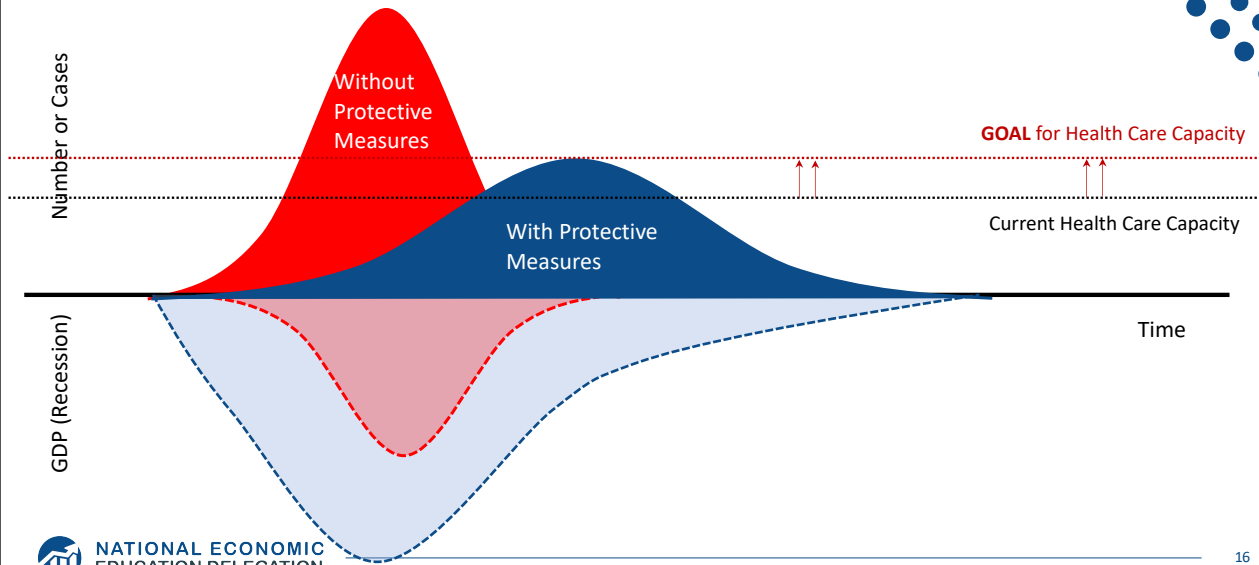
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A Tale of Three Policies Efforts

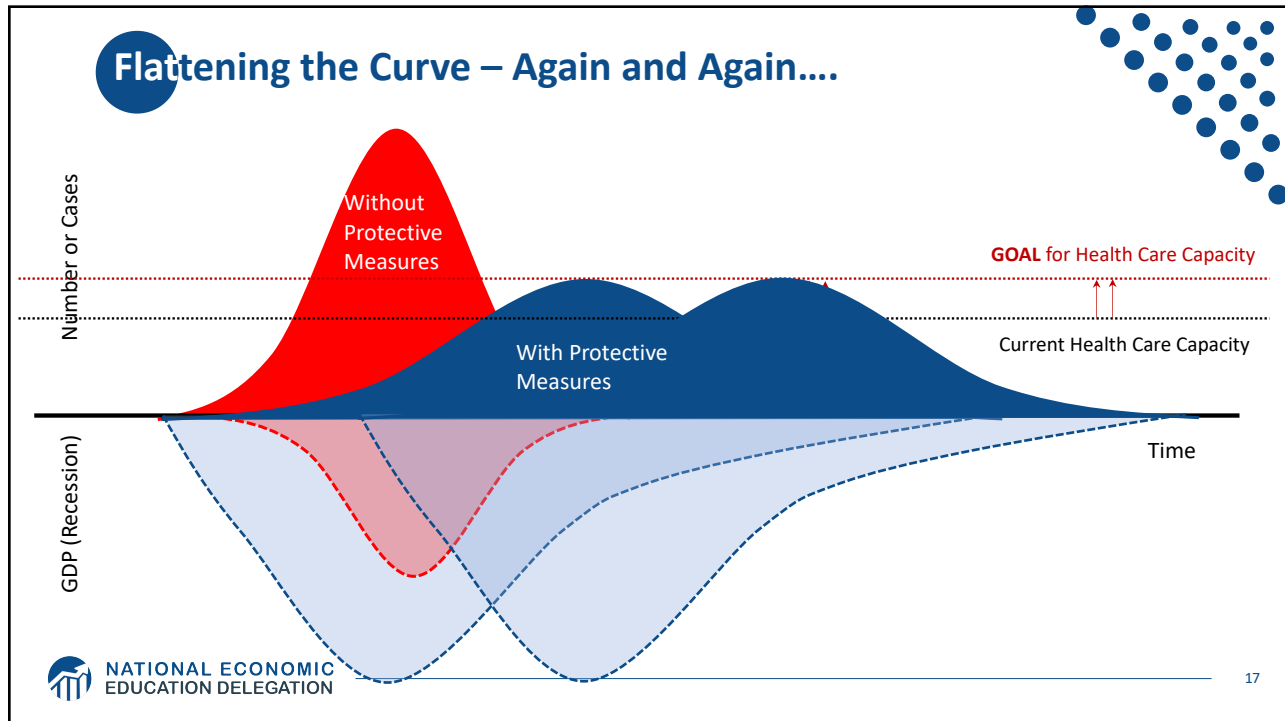
- Social policy: Social Distancing
- Fiscal Policy
- Monetary Policy

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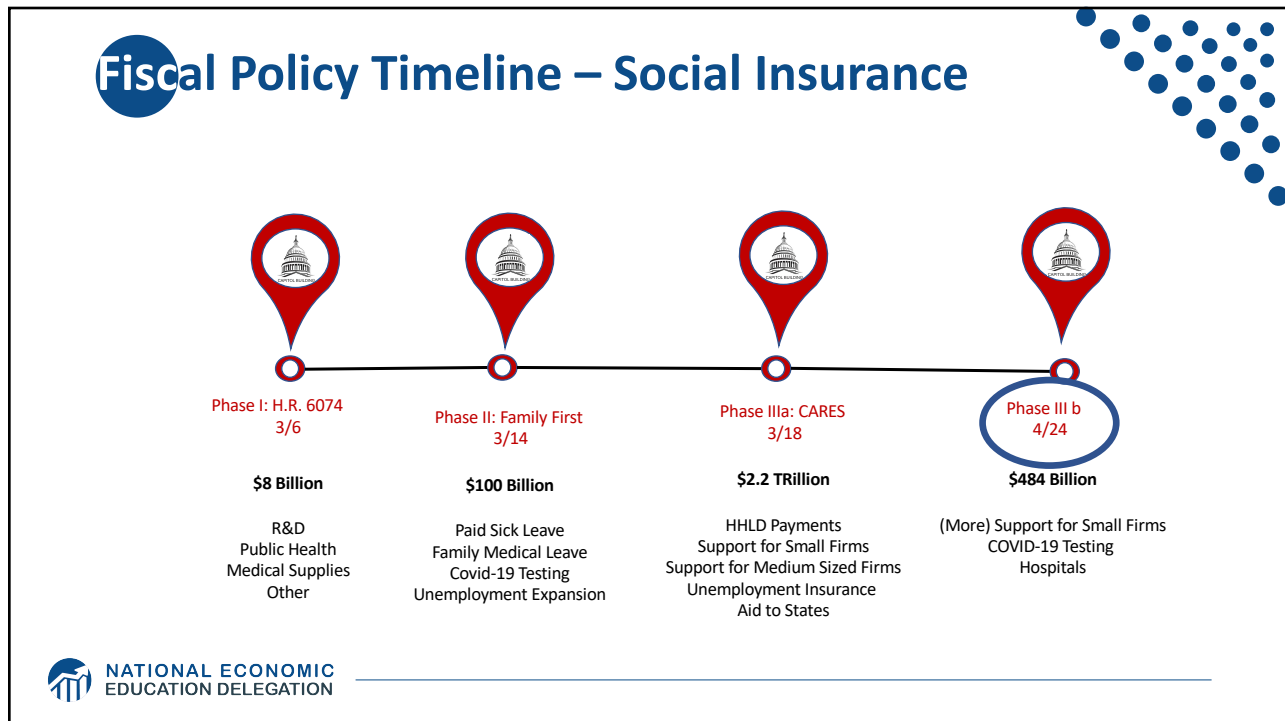
Flattening the Curve and Lengthening the Recession



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How Are Small Businesses Coping?

Small Business Owners Turn to Their Own Funds

In total, 70% of respondents were using at least one form of financial support to get their business through the pandemic.



CreditCards.com
Respondents could choose more than one option.



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American Bankruptcy Institute, Aug 3

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Monetary Policy – Federal Reserve

- **Two primary objectives**

- Stabilize the economy
- Maintain liquidity of the system

- **Actions in three forms:**

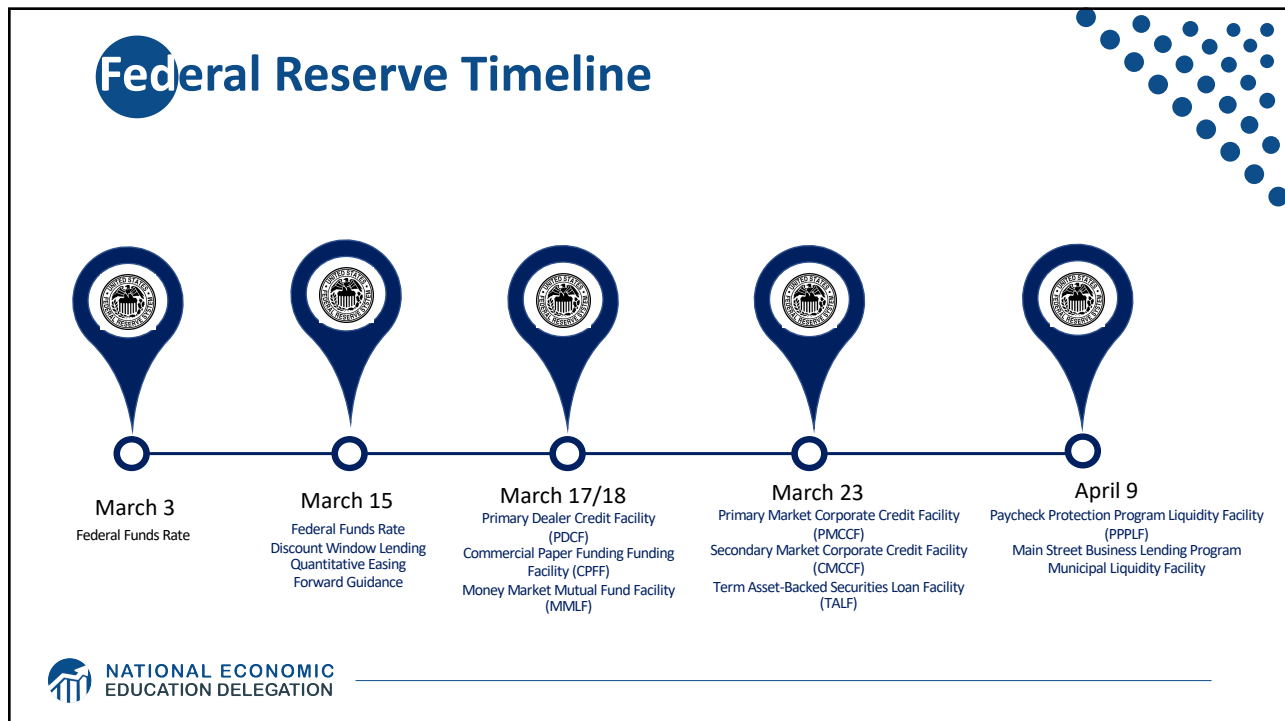
- Traditional interest rate stimulus
- Inject cash into the system
- Shore up existing debt and structures



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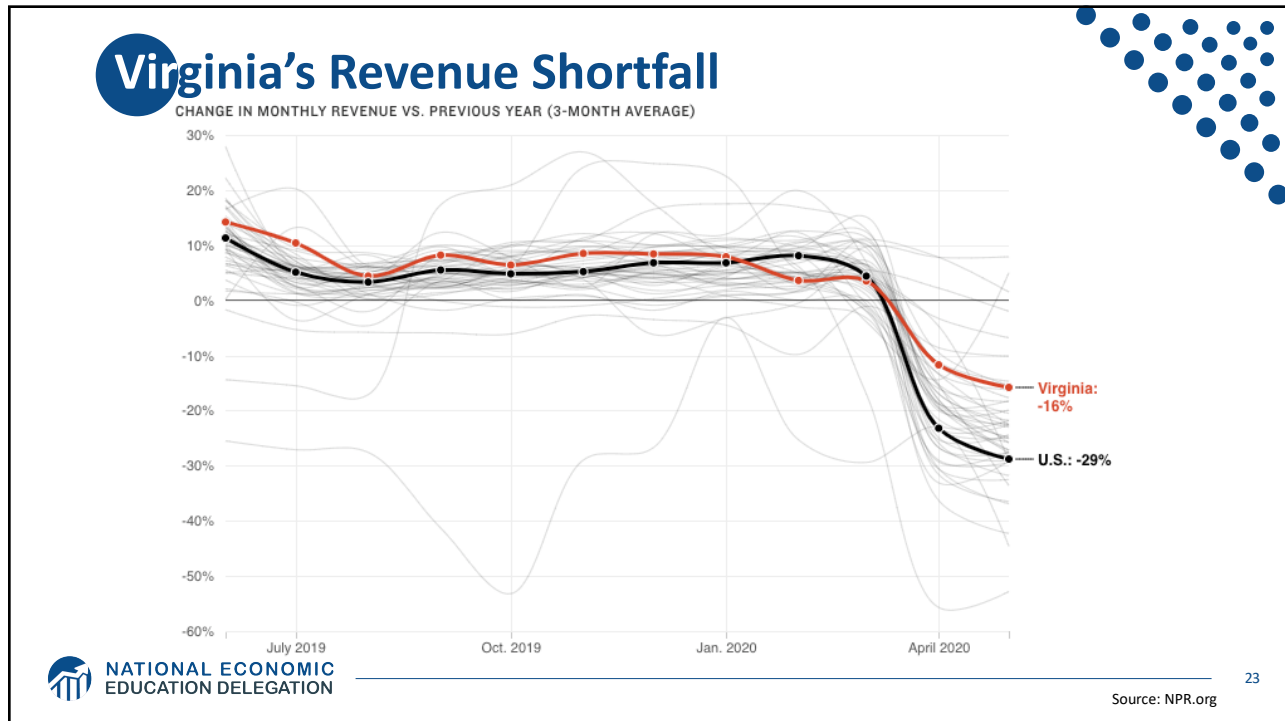
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Thoughts on Policies to Date

- **Costs are enormous, but we are doing the right thing!**
 - And we are doing it **VERY QUICKLY!**
- **Monetary policy: Heroic! A+**
- **Fiscal policy grade: Emergency Pass**
 - Direct cash payments
 - Are they really getting into the hands of those most in need?
 - Corporate or otherwise?
 - Right strategy to maintain employee-employer ties?
 - It's old news...aid is running out!
 - What about states and local governments?

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President Trump's Efforts

- **Executive Orders: They hit four specific targets:**
 - Payroll tax ~~cuts~~ **Deferral**
 - Eviction ~~moratorium~~ **Suggestion**
 - UI Extension - \$400 = \$300 + ~~\$100~~ **From States – no money**
 - Relief for student borrowers
- **CDC Eviction Moratorium**
 - Temporary and causes problems upstream.

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What is Really Needed? A Great Many Things!

- **Financial support**
 - Individuals and businesses
- **State and local government funding**
- **Housing Support**
- **Testing and tracing**
- **PR Campaign: Wear a mask and keep your distance!**
- **And much more...**



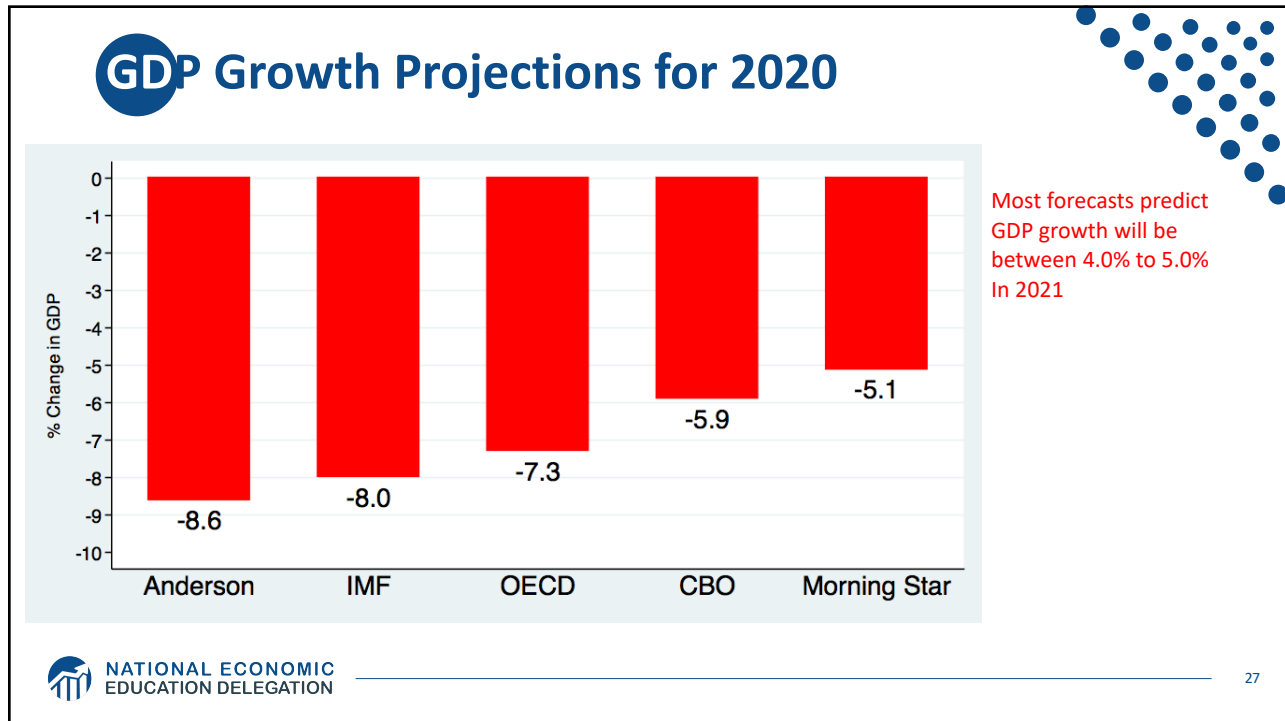
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What does the future bring?

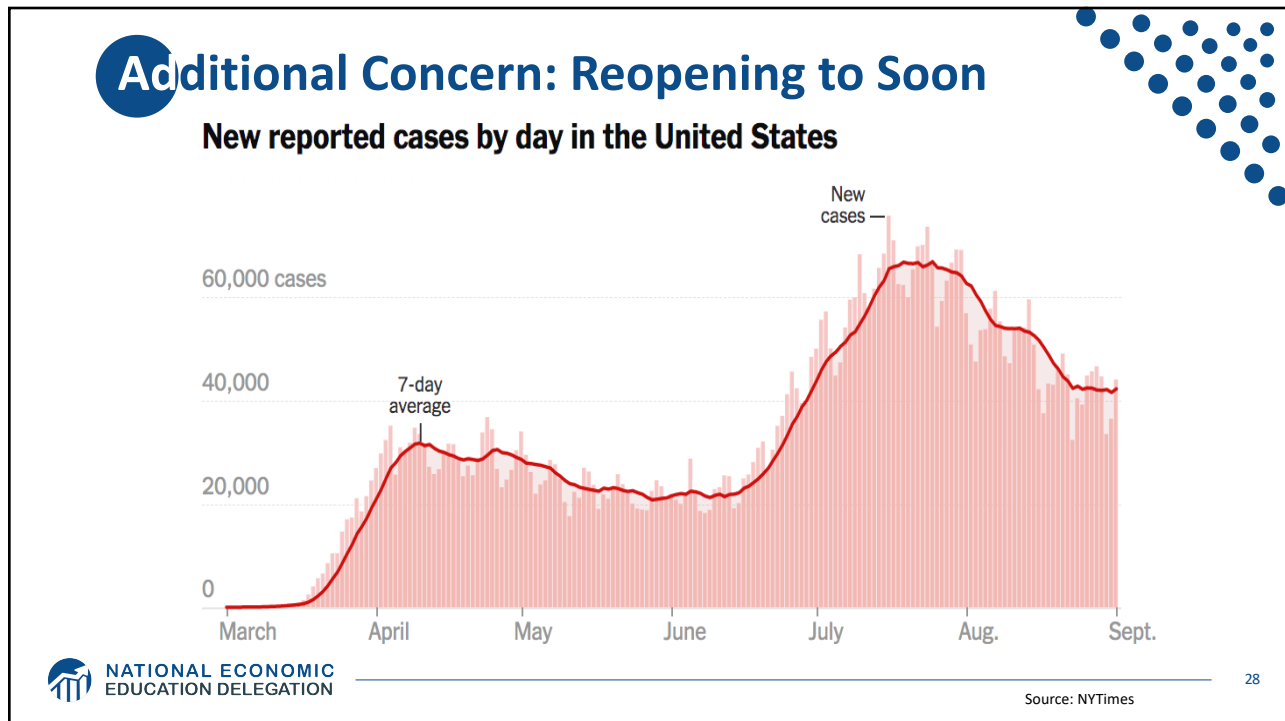
- **Depends on:**
 - Our ability to harness the virus.
- **Further government policy**
 - More aid to the vulnerable.
 - Aid to state and local governments.
 - Ultimately stimulus – but when?
- **Structural changes to the economy?**
 - More telecommuting, telehealth, & teleeducation.
 - The way we buy things.



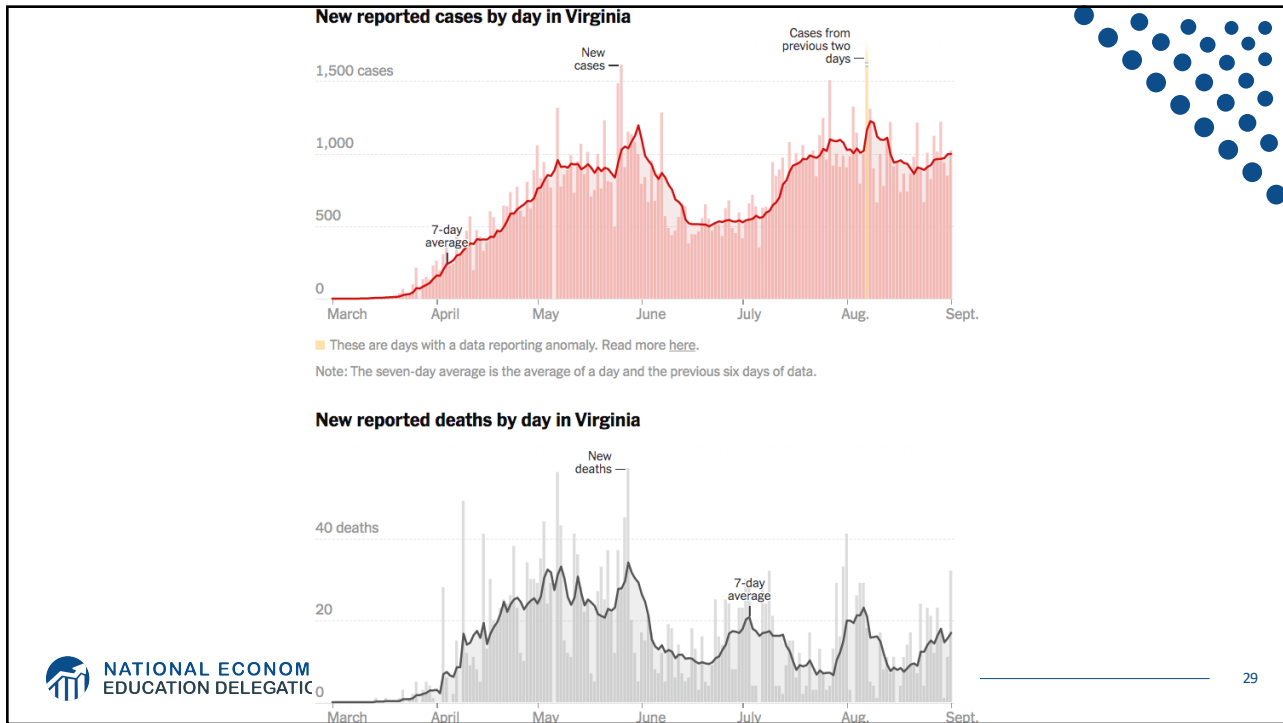
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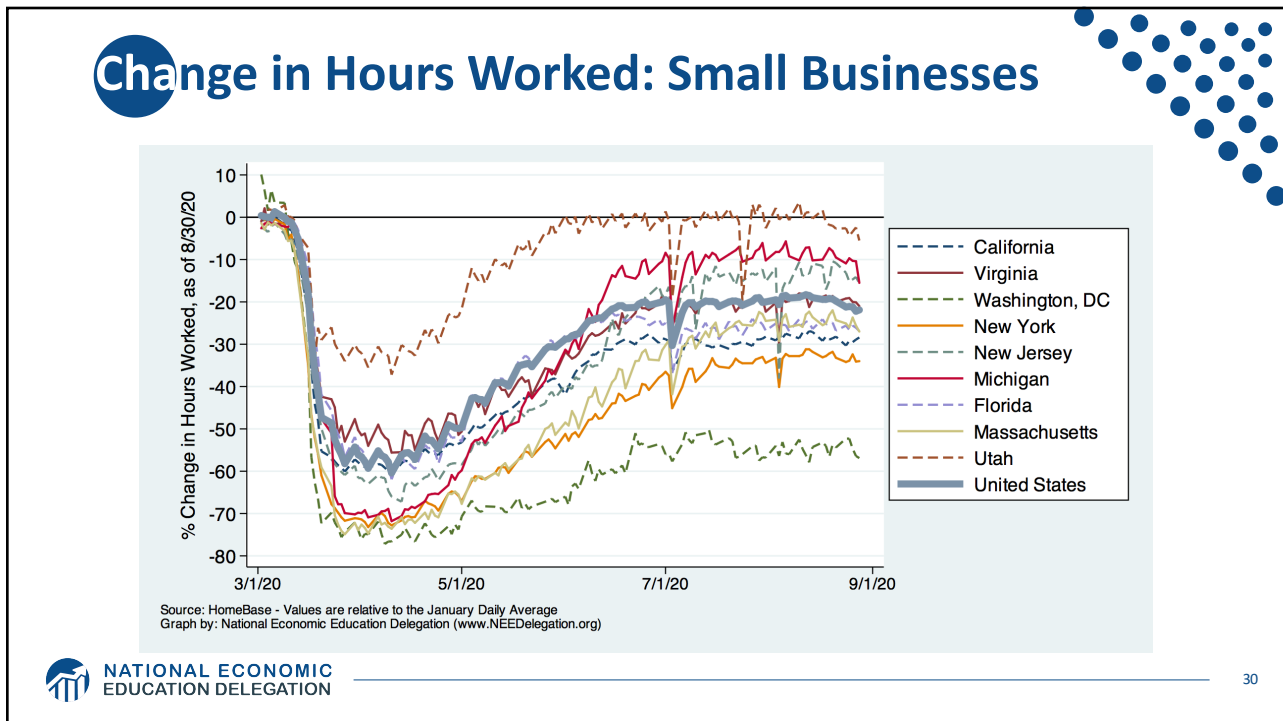
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It's Not This Simple



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Conclusion

- **COVID-19 is health crisis that has macroeconomic implications.**
 - With enormous built-in inequities.
- **GDP will likely contract between 6.0 and 9.0 percent this year.**
 - Positive growth will likely return in 2021
- **Policy gap will create enormous hardship.**
 - Hunger, evictions, foreclosures, additional deaths.
 - Loss of GDP: 4-5% Unemployment: up 4-5 pts.
- **It might just be time to shut down again.**
 - For both our health and the economy.



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Thank you!

Any Questions?

www.NEEDelegation.org

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Bonus Slides

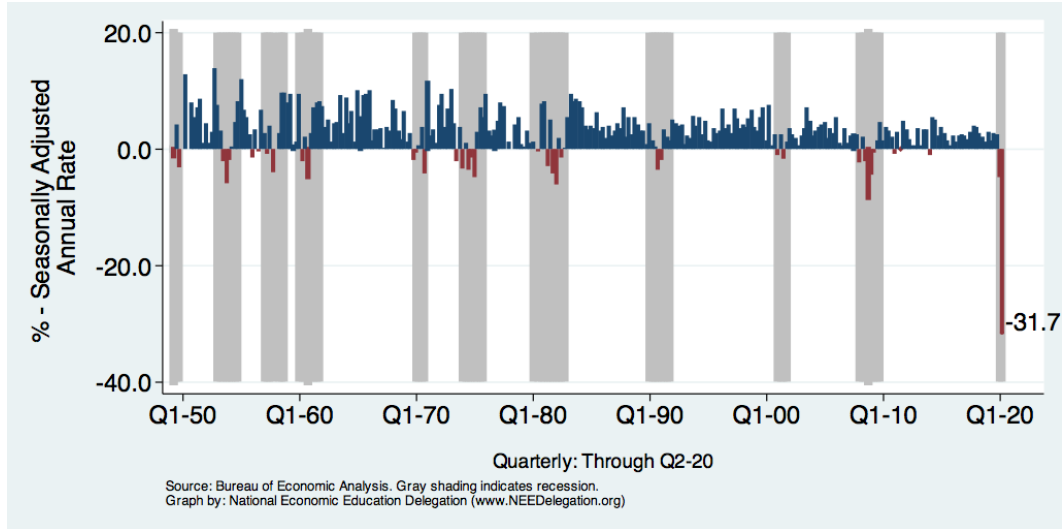


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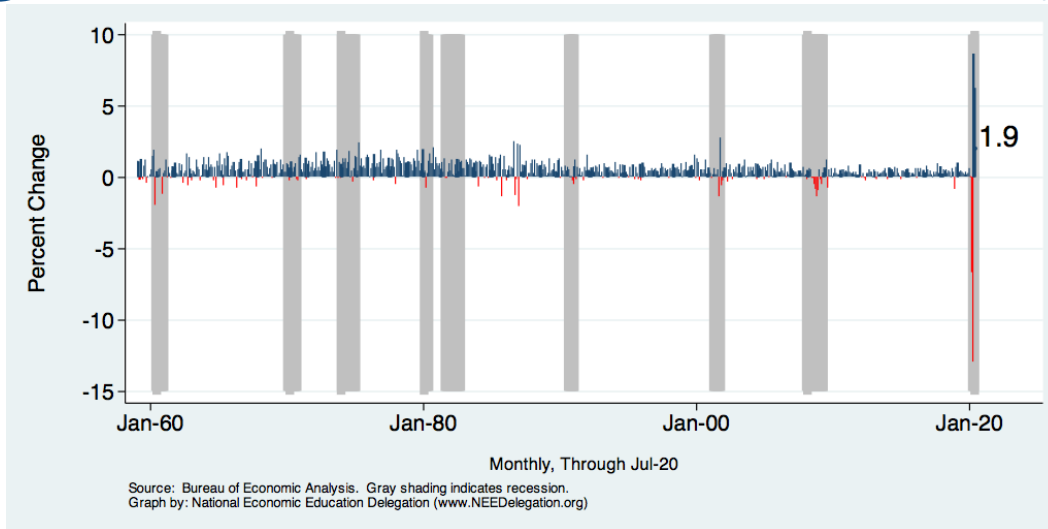
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Gross Domestic Product



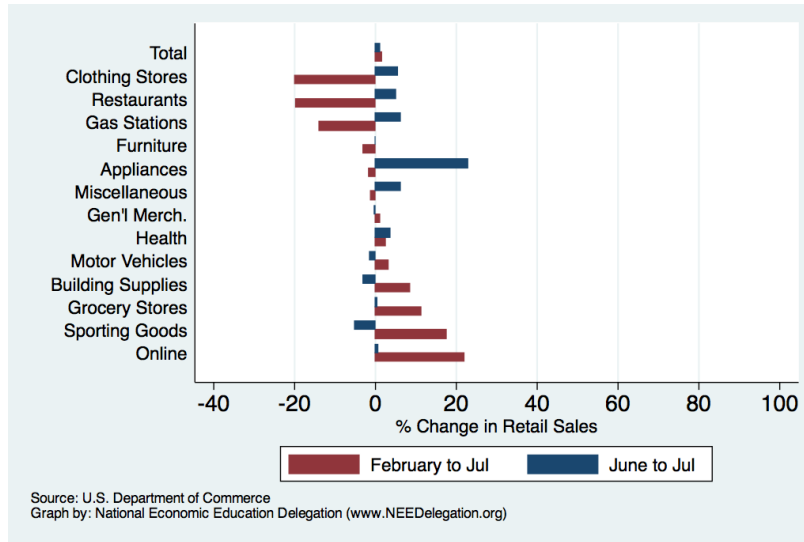
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Personal Consumption Expenditures



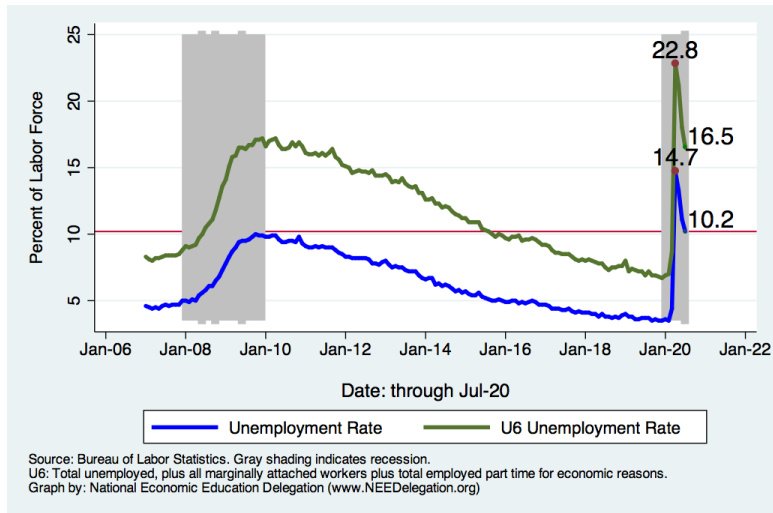
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Retail Spending is on the Rise!



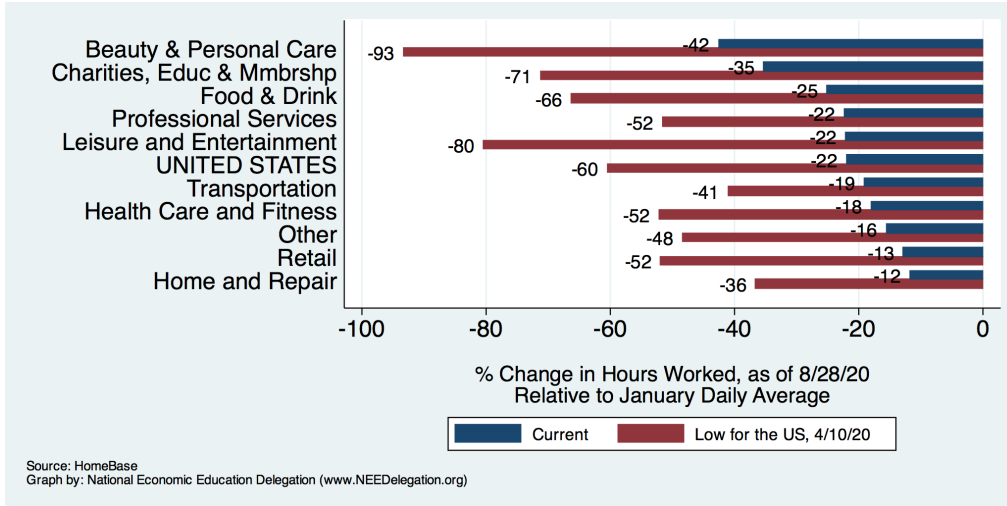
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Unemployment Rate



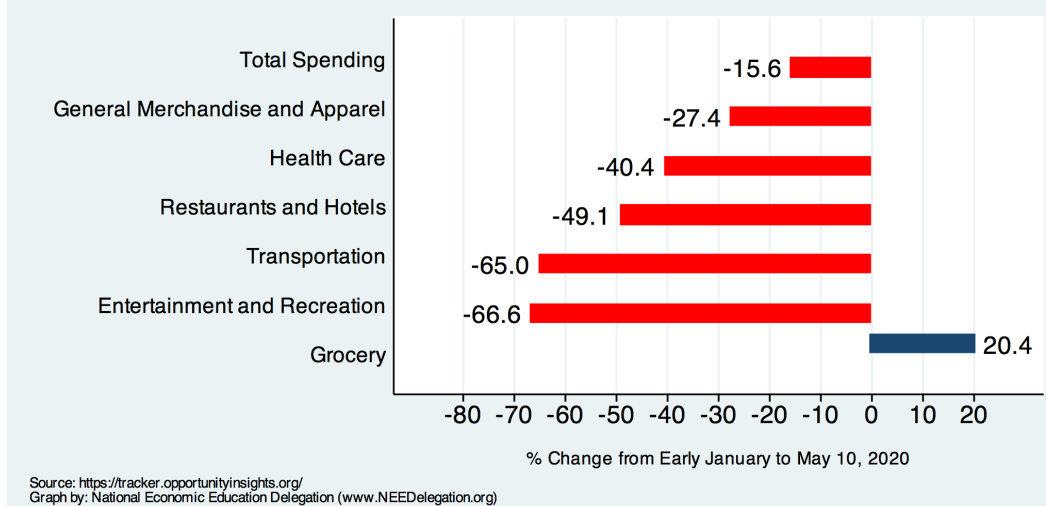
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Change in Hours Worked: Small Businesses



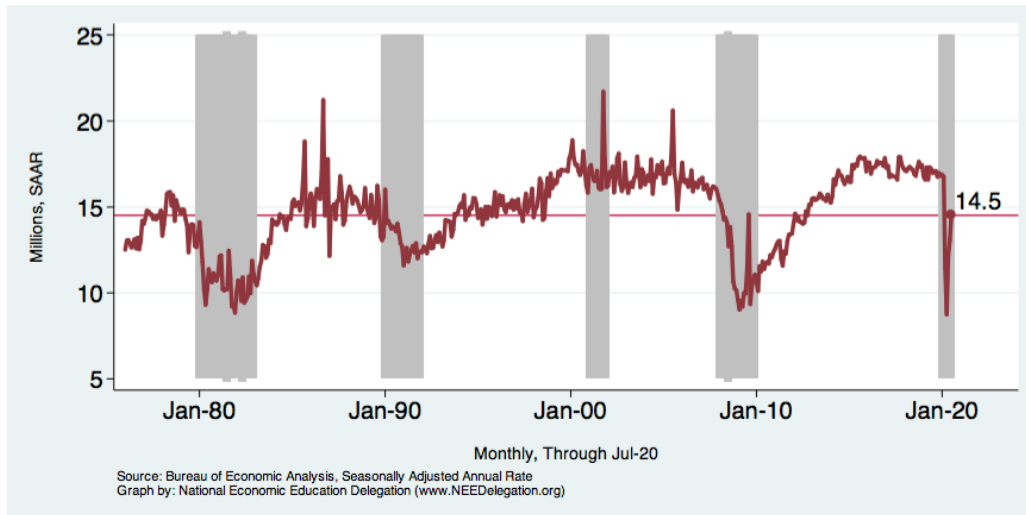
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Plunge in Consumer Spending



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Automobile and Light Truck Sales



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Process for Dealing with a Natural Disaster

- **Mitigation of effects**
 - Social Policy
- **Tend to the vulnerable**
 - Fiscal Policy
- **Shore up structures**
 - Fiscal and Monetary
- **Rebuild**
 - Stimulus

There are corolaries in this crisis.



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BOTE Cost Benefit Analysis

BOTE: Back Of The Envelope

- **BENEFITS of social distancing:**

- \$7 million/life and 600,000 lives saved (\$4.2 trillion)
- Long term health issues avoided: 2 million at \$500,000 (\$1 trillion)
- **Total Benefit of Social Distancing: \$5.2 Trillion**

- **COSTS of “Shelter in Place” or “Lockdown”**

- There are about 70+ workdays in a quarter (plus March).
- **The cost of a “lockdown” is roughly \$1.3 Trillion**

Benefit: \$5.2 trillion > Cost: \$1.3 trillion

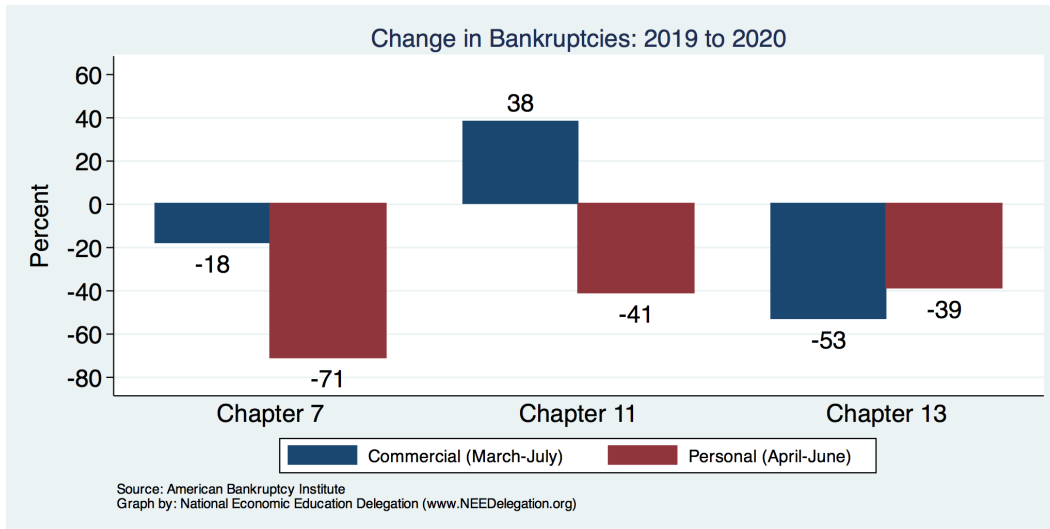


<https://twitter.com/BetseyStevenson/status/1242180499566669828>

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Fiscal Policy - Helping?



Source: American Bankruptcy Institute
Graph by: National Economic Education Delegation (www.NEEDelegation.org)

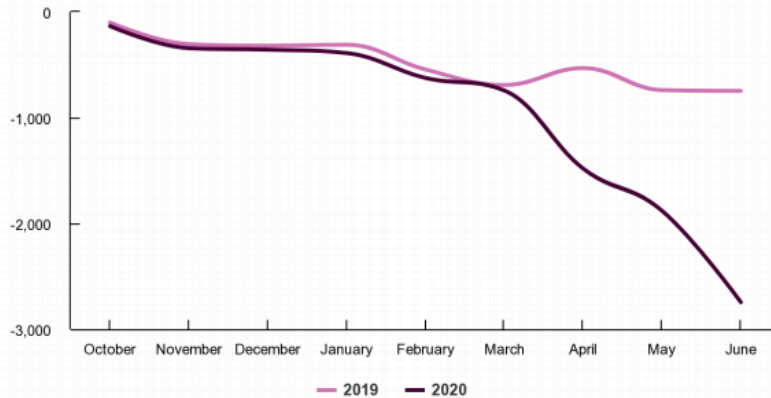


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Rapidly Growing Deficit!

Monthly Cumulative Deficits
Fiscal Years 2019 and 2020
Billions of Dollars

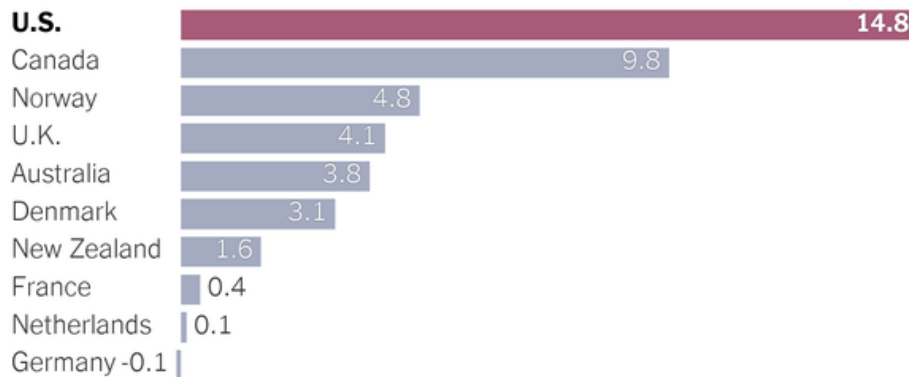


Sources: Congressional Budget Office; Department of the Treasury.
The value shown for June 2020 is CBO's estimate.

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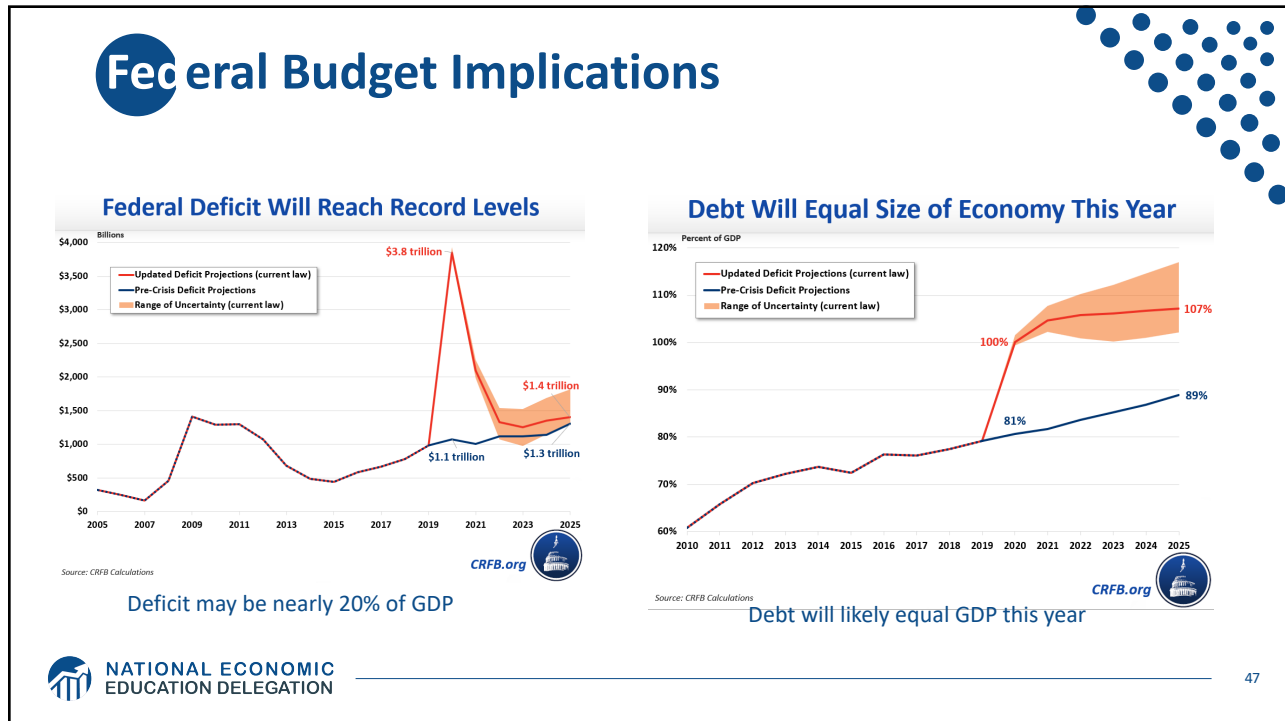
Other Countries Are Doing it Better

Unemployment claims as share of the labor force

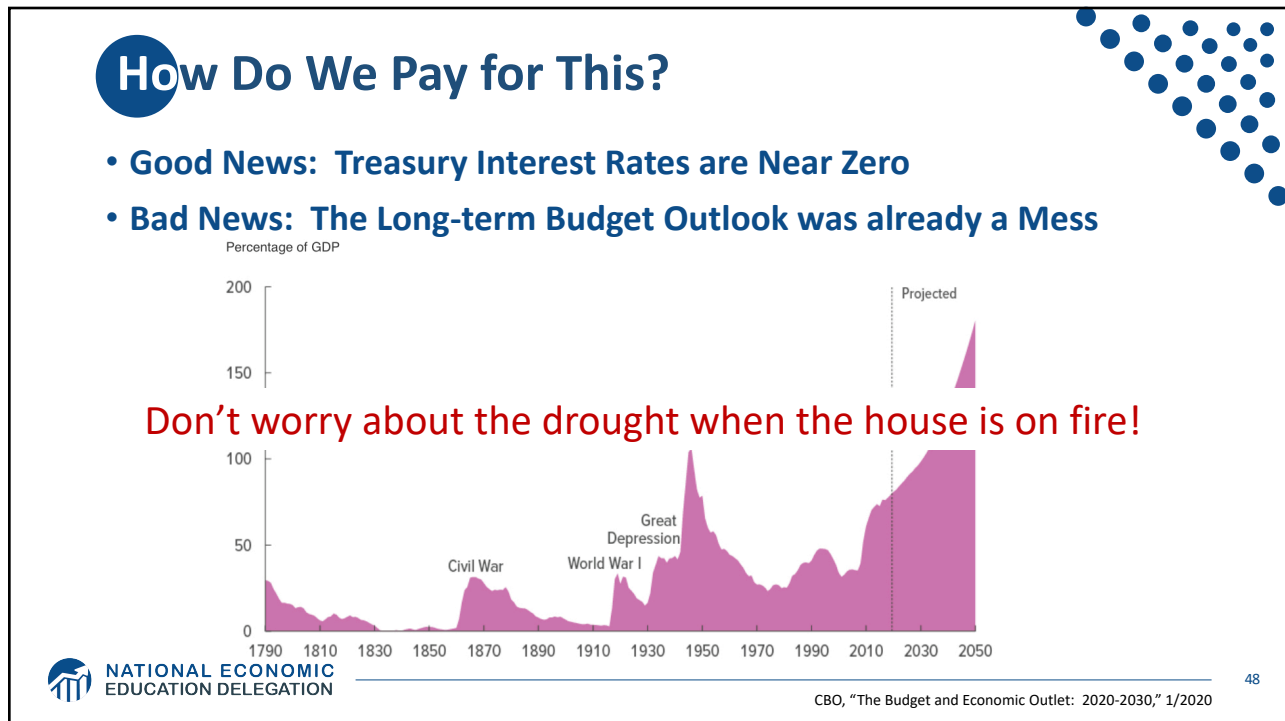


By The New York Times | Source: Brookings

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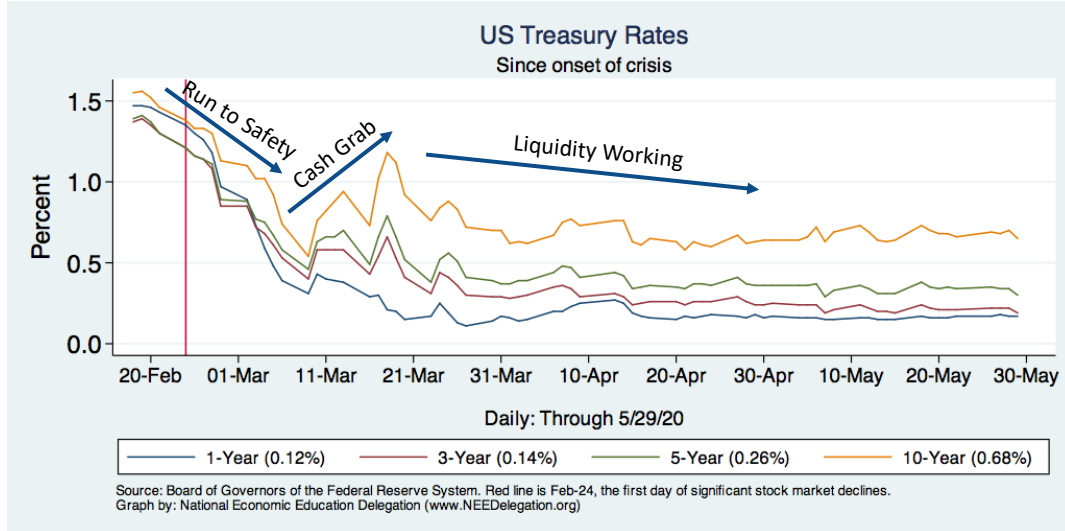


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US Treasury Rates: A Safe Haven?



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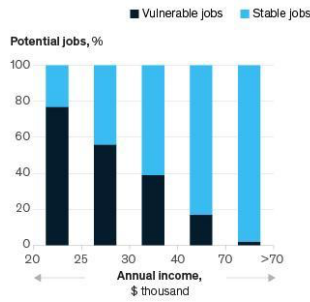
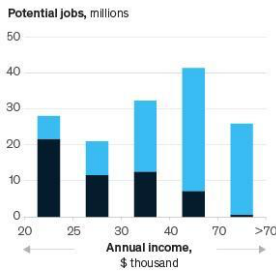
Coronavirus and Inequality

- **Racial inequities**
- **Telecommuting**
- **Primarily low wage jobs are at risk**
- **Resources to weather the storm**
- **Educational inequities**

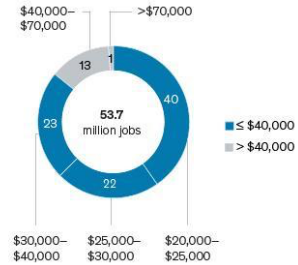
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Eighty-six percent of vulnerable jobs paid less than \$40,000 a year.

Level of job vulnerability,¹ by income band



Vulnerable jobs by annual income band¹ %

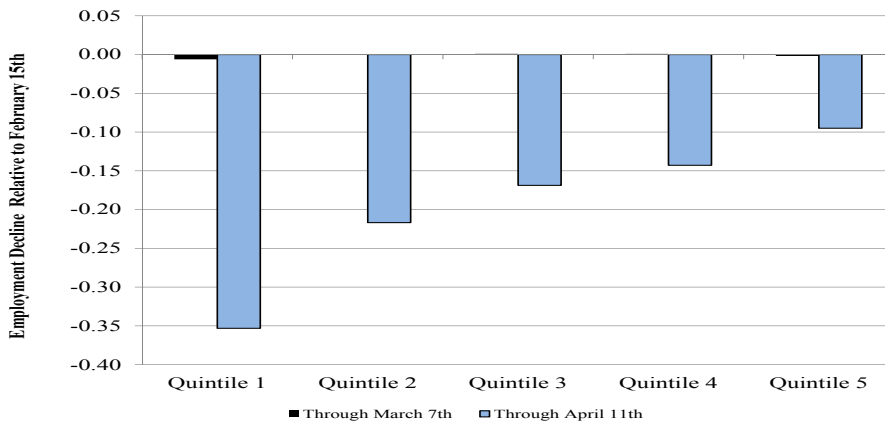


Note: Data may not sum to 100, because of rounding.
¹Vulnerable* jobs are subject to furloughs, layoffs, or being rendered unproductive (for example, workers kept on payroll but not working) during periods of high physical distancing.
 Source: LaborCube; McKinsey Global Institute analysis



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Employment Change by Income Quintile

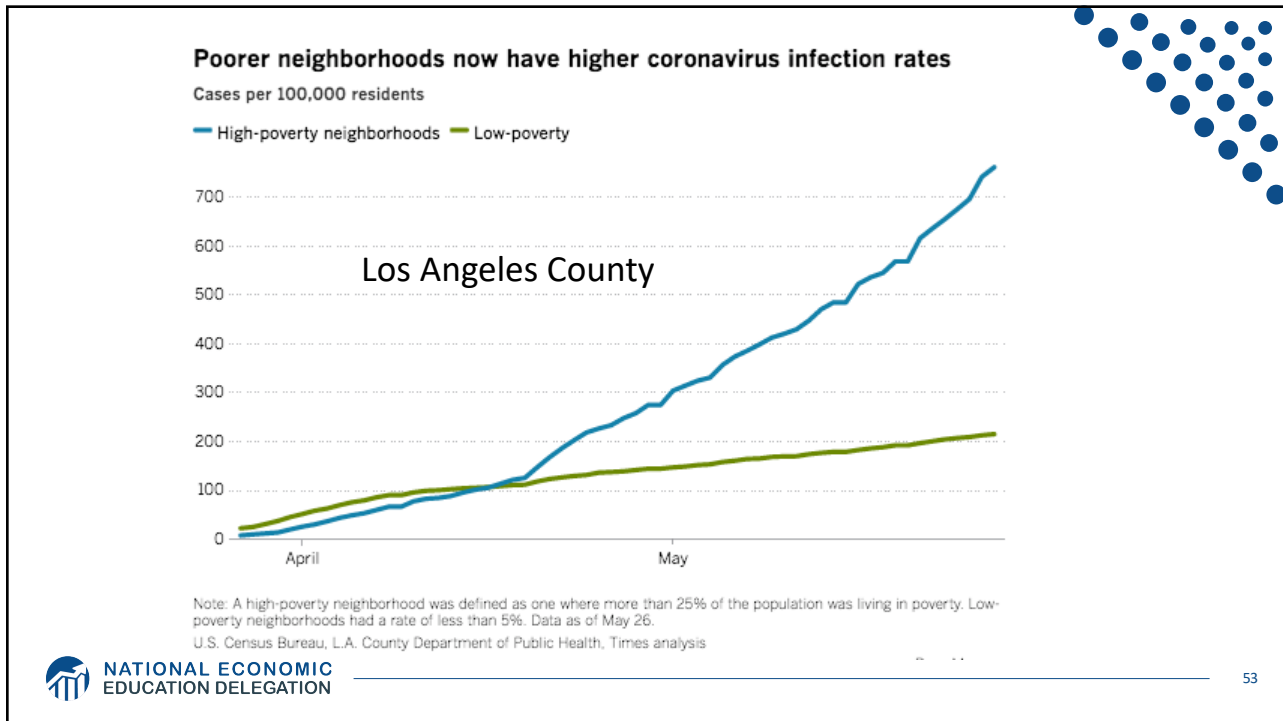


Powell: 40% of workers losing their jobs earned less than \$40,000/year.

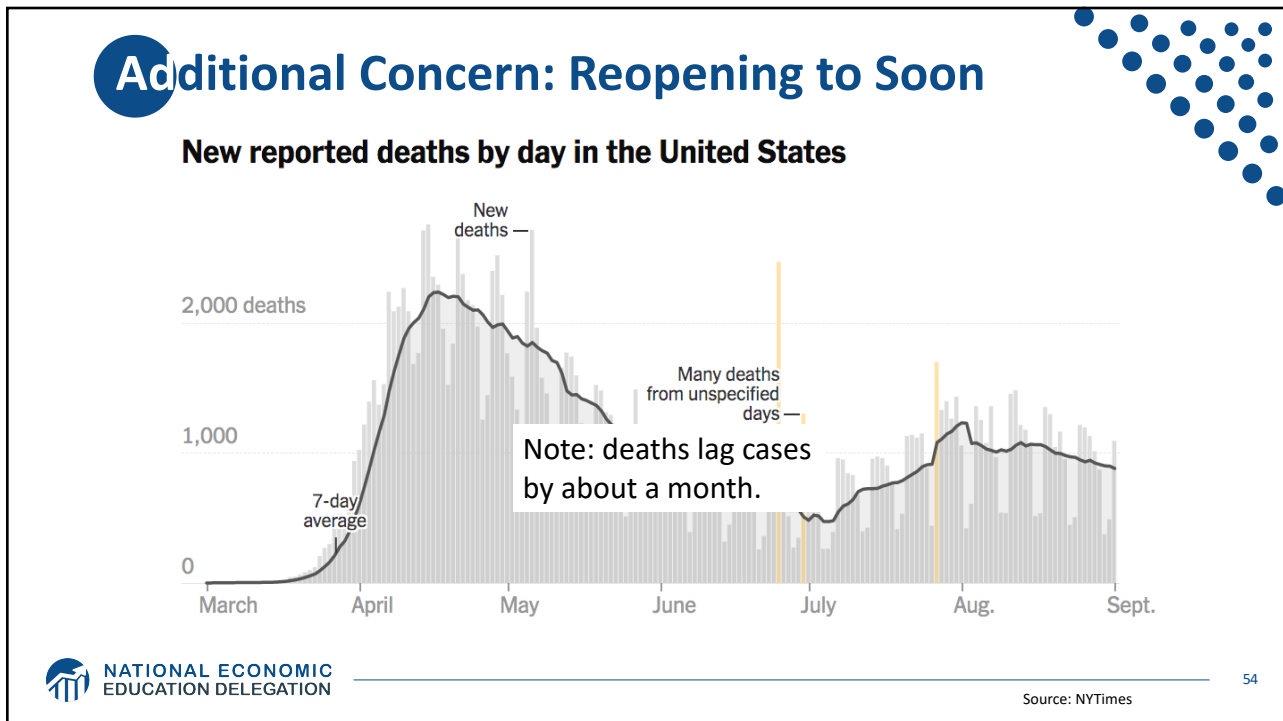


Source: Cajner, Crain, Dexter, Grigsby, Hamins-Puertolas, Hurst, Kurtz, and Yidirmaz

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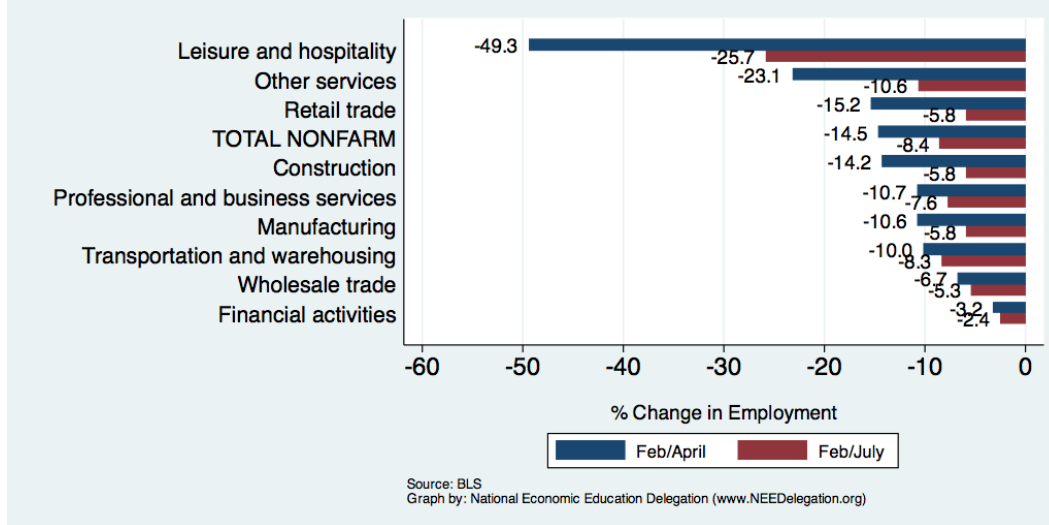


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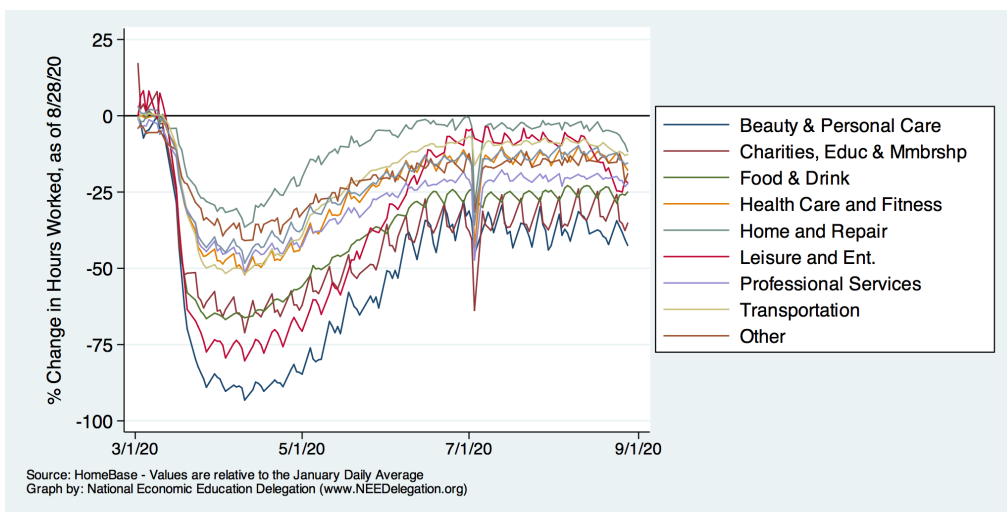
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Low Wage Industries Hit Hardest



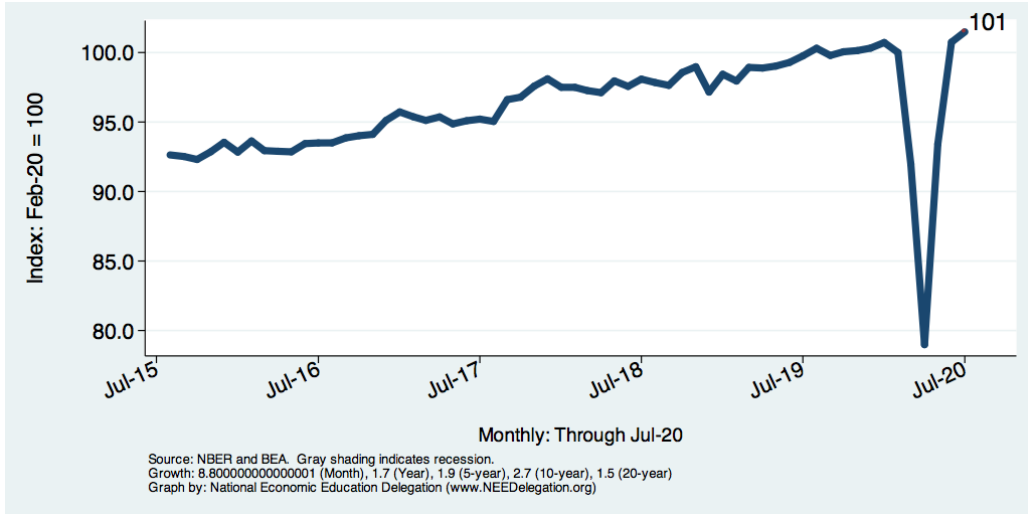
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Change in Hours Worked: Small Businesses



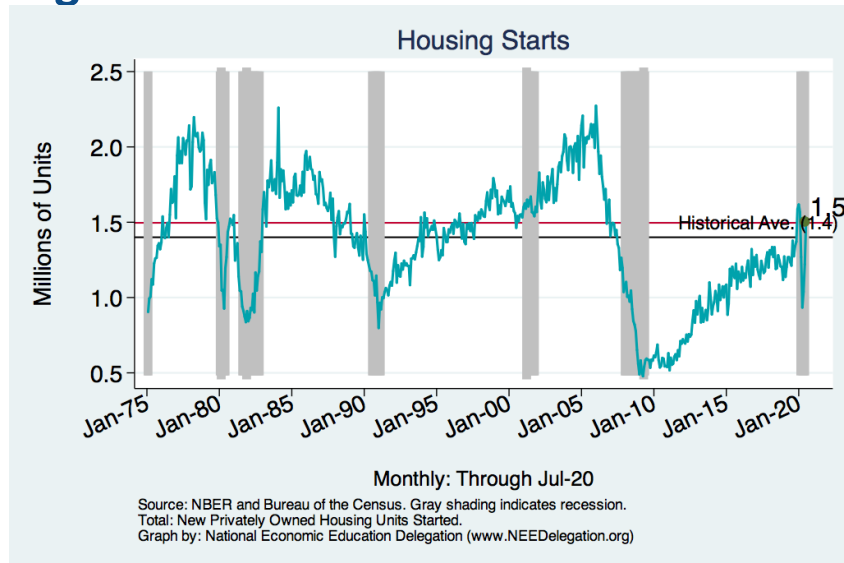
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Retail Sales

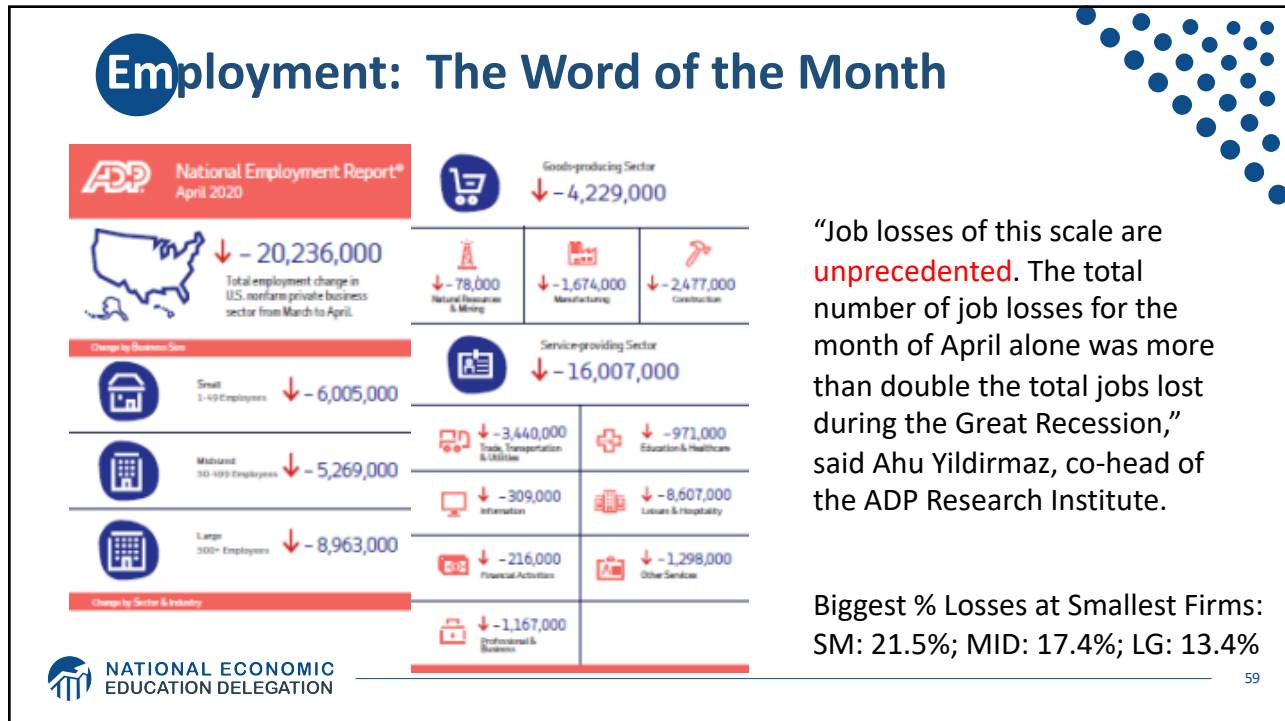


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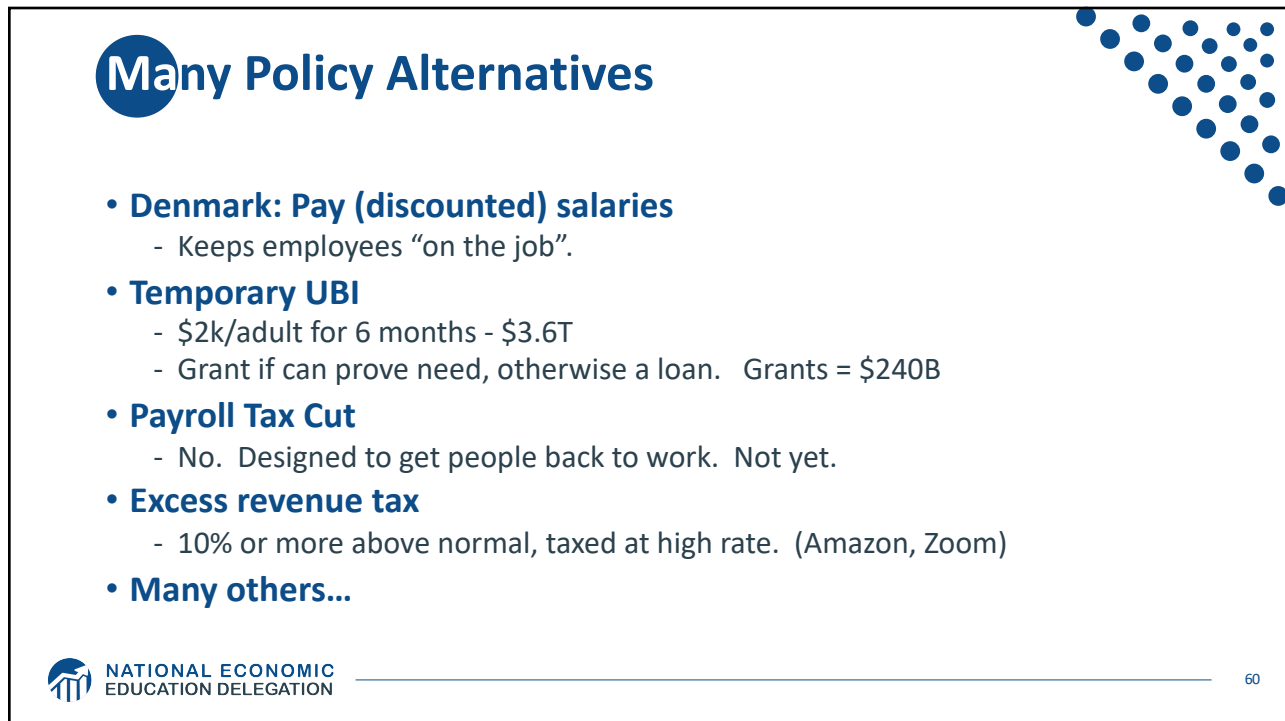
Housing Starts Plummet: Down 25%



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Projected 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



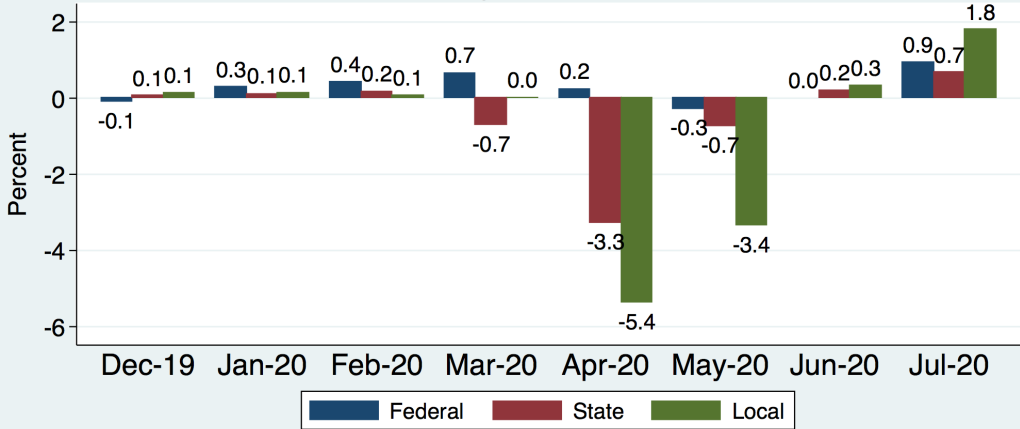
* Estimated based on CBPP calculations
 Source: Pre 2014: CBPP survey; 2020 and following: CBPP calculations

CENTER ON BUDGET AND POLICY PRIORITIES | CBPP.ORG

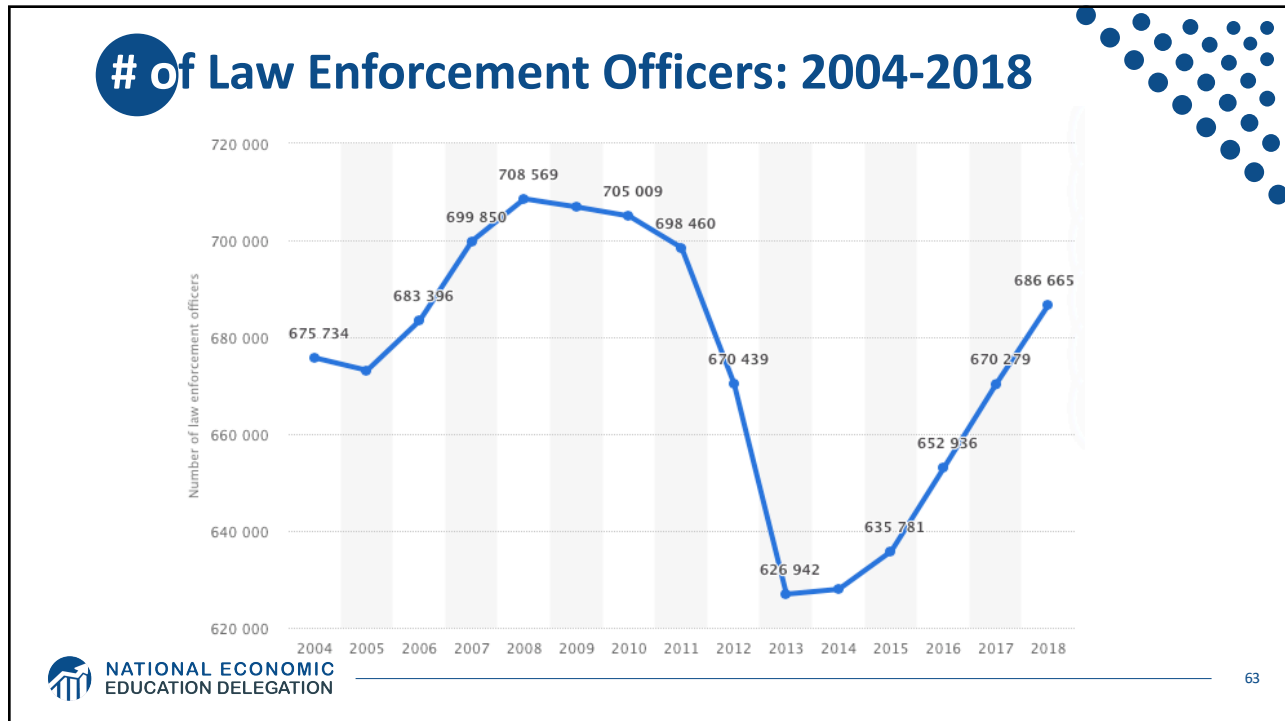
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State & Local Gov'ts Are Tightening

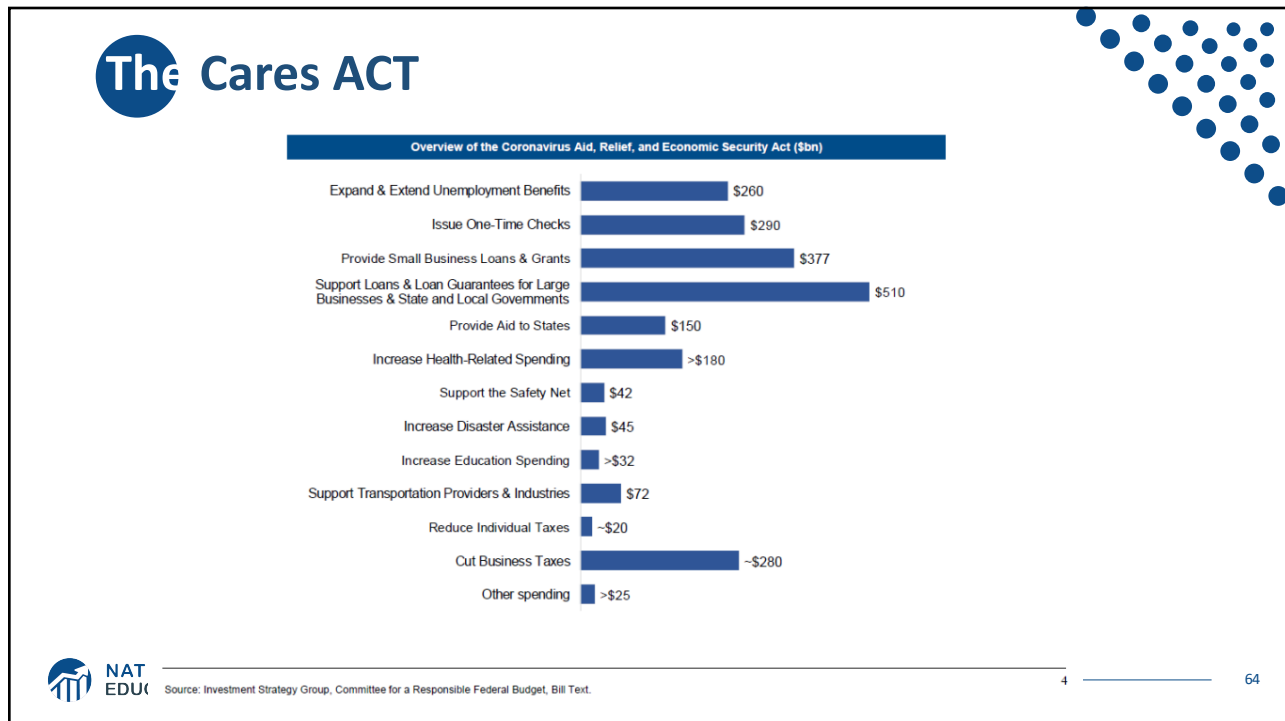
Government Employment: All Employees
 Change, Month over Month



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Aid to Households

Payments to Individuals		
\$269bn (1.3% of GDP)		
Eligibility	Program	Terms & Process
<ul style="list-style-type: none"> - Taxpayers with incomes up to \$99,000 (or \$198,000 joint) based on 2019 tax return (2018 if not available) 	<ul style="list-style-type: none"> - Tax rebate of \$1,200 (or \$2,400 for a joint tax return) - Additional \$500 rebate per child 	<ul style="list-style-type: none"> - Rebate phases out gradually for incomes greater than \$75,000 (\$150,000 joint) - Rebates sent "as rapidly as possible" targeted for early April
Increased Unemployment Insurance		
\$250bn (1.2% of GDP)		
Eligibility	Program	Terms & Process
<ul style="list-style-type: none"> - Individuals qualifying for standard unemployment compensation - Individuals not previously qualifying for unemployment compensation, such as contractors and the self-employed 	<ul style="list-style-type: none"> - Provides standard unemployment compensation (roughly 50%) for 39 weeks, vs standard 26 weeks - Additional \$600 pay per week through July 31 (4 months), even if unemployment compensation exceeds previous wage level 	<ul style="list-style-type: none"> - Pay is immediate, vs. standard one-week waiting period



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Aid to Small Businesses

Small Business Loans & Payroll Subsidies		
\$377bn (1.8% of GDP)		
Eligibility	Program	Terms & Process
<ul style="list-style-type: none"> - Small businesses < 500 employees (< 500 per physical location for accomm. and food services sector) - Sole proprietors, contractors, self-employed individuals - Businesses operational, with employees on payroll, on Feb. 15 	<ul style="list-style-type: none"> - Small business obtains loan for 2.5x monthly payroll, up to \$10 million - Loan forgiven when used for employee pay, rent or mortgage interest, and utility payments 	<ul style="list-style-type: none"> - Business eligible if operational and having employees on Feb 15 (repayment ability not considered) - Amount forgiven prorated to account for layoffs and pay decreases - Government guarantee at 100% rate (vs. 75% for traditional SBA loans) - Banks earn fee up to 5% for originating loan - Payments deferred up to 1 year - Banks hold loans on balance sheet with zero risk rating



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Aid to Airlines

Relief for Specific Distressed Sectors		
\$46bn (0.2% of GDP)		
Eligibility	Program	Terms & Process
- Airlines, air cargo, and national security/aerospace sectors	<ul style="list-style-type: none"> - Direct lending: airlines (\$25bn), air cargo (\$4bn), and national security/aerospace (\$17bn) - Grants to pay wages, salaries and benefits: airlines (\$25bn), air cargo (\$4bn), airline contractors (\$3bn) 	<ul style="list-style-type: none"> - Alternative financing not available - Short loan duration, < 5 years - Stock buybacks and dividend payments prohibited until 1 year after date of loan repayment - Exec comp restrictions - Must retain 90% of employment level as of March 24 - Majority of employees must be based in US

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Aid to Business

Tax Deferral and Tax Cuts		
\$668bn (3.2% of GDP) in 2020; \$286bn (1.4% of GDP) over 10 yrs		
Policy	Description	Amount
NOL carryback	Carry back losses 5 years to offset profits from prior years	\$89bn (0.4% of GDP)
Modify pass-through loss limitation	Eases the limitation on pass-through loss, so they can use excess losses to generate refunds	\$140bn (0.7% of GDP)
Employee retention credit	Payroll tax credit equal to 50% of wages paid by employers through Dec. 31, 2020, whose businesses were shut down or revenues declined by 50% vs. the same quarter the prior year.	\$55bn (0.3% of GDP)
Payroll tax delay	Delays payment of 2020 payroll taxes, with half due by 12/31/2021 and half due 12/31/2022	\$350bn (1.7% of GDP) benefit in 2020, repaid in 2021/2022
Interest deductibility	Increase deductibility of interest from 30% to 50% of EBITDA for 2020	\$13bn (0.06% of GDP)

ESF & Federal Reserve Corporate and Municipal Credit Facility		
\$454bn (2.2% of GDP)		
Eligibility	Program	Terms & Process
<ul style="list-style-type: none"> - Corporate sector - State / municipal sector 	<ul style="list-style-type: none"> - Lend directly or purchase debt from issuer - Purchase debt in the secondary market - Treasury endeavors to implement 13(3) facility targeted at nonprofits and businesses between 500-10k employees. 	<ul style="list-style-type: none"> - Requires loan collateralization, taxpayer protection, borrower solvency - Buybacks, dividends, executive compensation restricted for the life of the loan and one year following; - Treasury may waive these requirements if necessary - Congressional oversight

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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

SBLA Distribution

Firm Size	Distribution of PPP Eligible Firms		PPP Loan Size (est)
	Percent of Firms	Percent of Employment	
under 5	61.9%	9.8%	\$16,985
5 to 9	16.9%	11.0%	\$57,239
10 to 19	10.6%	14.0%	\$121,470
20 to 99	9.1%	35.3%	\$387,137
100 to 499	1.5%	29.9%	\$2,248,253

But Is It Enough? Loans: are for 8 weeks

Aid to States

Federal Spending & Aid to States			
\$490bn (2.3% of GDP)			
Expenditure	Description	Amount (\$bn)	% of GDP
Aid to States	To offset declining revenues; Allocated by population with minimum \$1.25bn	\$150bn	0.7
Hospitals & medical	Reimbursement to providers and other health expenses	\$130bn	0.6
FEMA	For disaster relief fund to aid states and localities and other operations	\$45bn	0.2
Transportation	Grants to transportation systems and airports	\$35bn	0.2



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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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Federal Reserve: Ensure Financial Market Stability

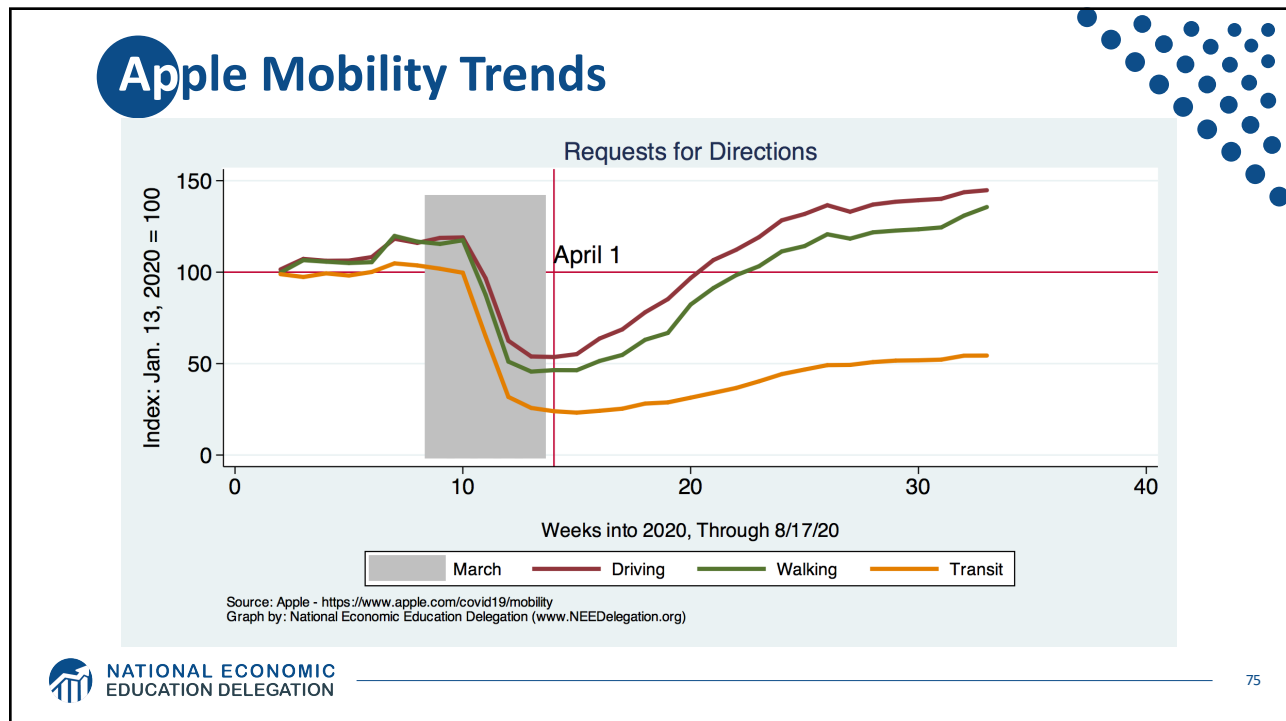
- **In mid-March, Treasury and Mortgage Backed Securities markets began behaving irregularly as the demand for liquidity increased.**
 - **Securities Purchases (Quantitative Easing):** Fed Response: purchase treasuries and mortgage backed securities (3/15).
 - Re-launched the **Primary Dealer Credit 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.
 - o The Fed increased the offerings to \$1 trillion (from \$100 bn) in overnight repos, and
 - o \$500 billion in one month **and** three-month repos (from \$20bn 2/wks).



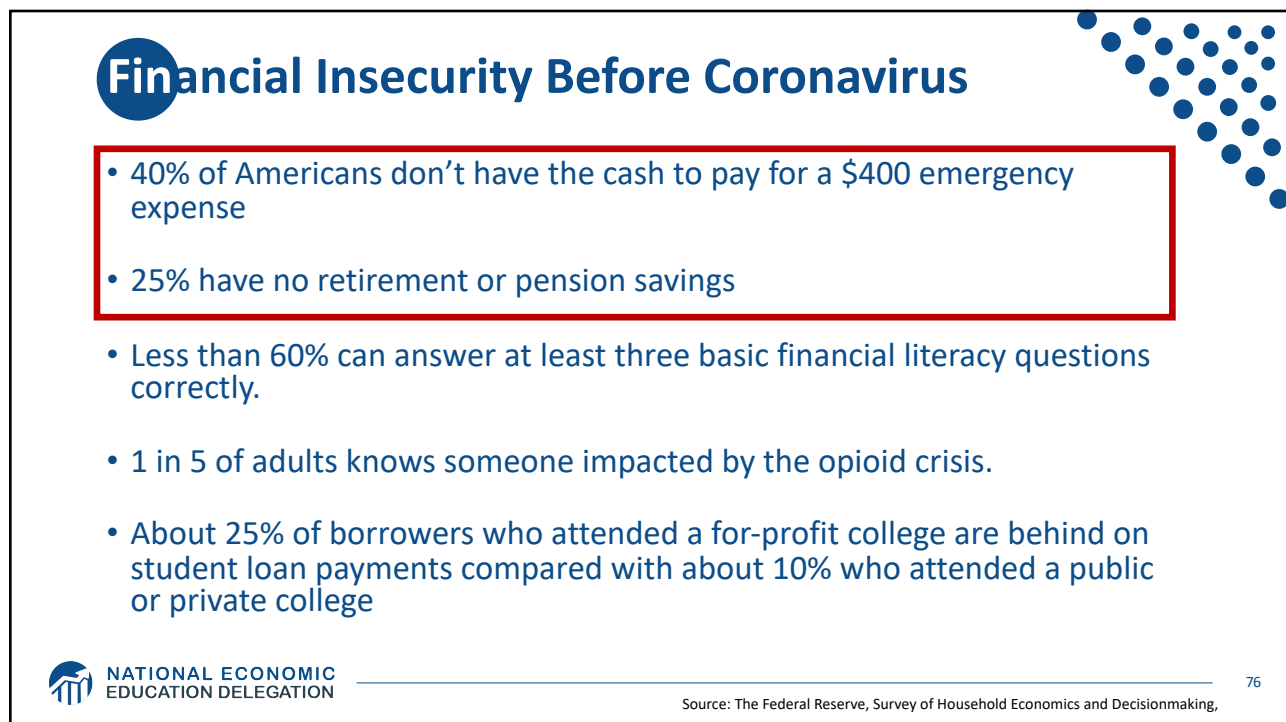
Federal Reserve: Support Corporations and Business

- 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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Home Schooling – The Digital Divide Issue

