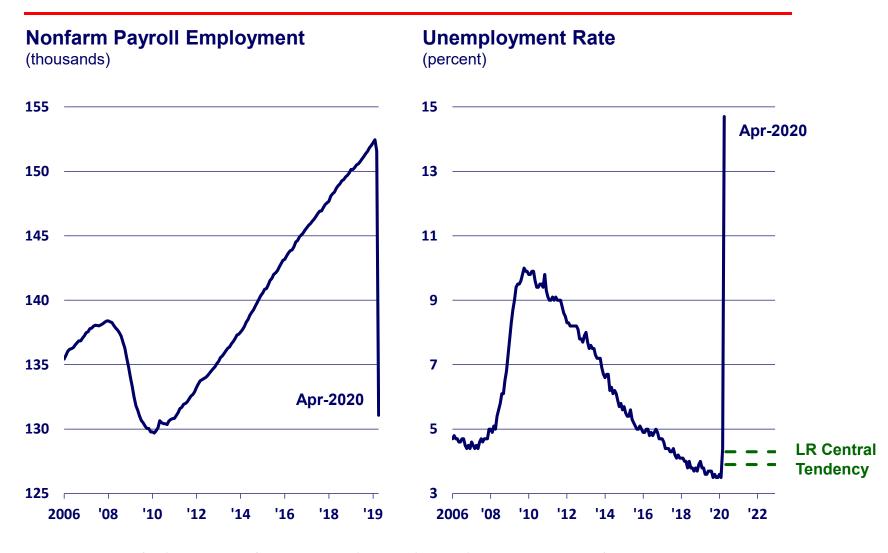
# **Economic Developments and Monetary Policy Environment**

Federal Reserve Bank of Chicago Academic Advisory Council Meeting May 15, 2020

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Senior Vice President
Federal Reserve Bank of Chicago

The views expressed are my own and not necessarily those of the Federal Reserve Bank of Chicago or the Federal Reserve System

## Surge in Job Losses and Unemployment



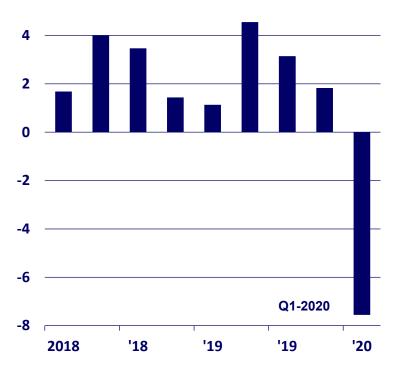
Source: Bureau of Labor Statistics from Haver Analytics and December 2019 Summary of Economic Projections

## Collapse in Household Spending

#### **Real PCE Growth**

(quarterly percent change, annual rate)

	Jan	Feb	Mar	
Monthly percent change	0.3	0.1	-7.3	



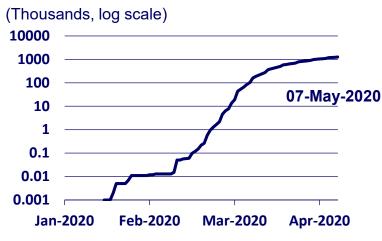


## **Single Family Housing Starts and Permits** (millions)

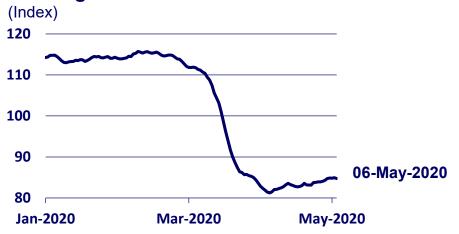


## High Frequency Indicators

#### **Confirmed Coronavirus Cases**



#### **Morning Consult Consumer Confidence**



#### **Unemployment Insurance**



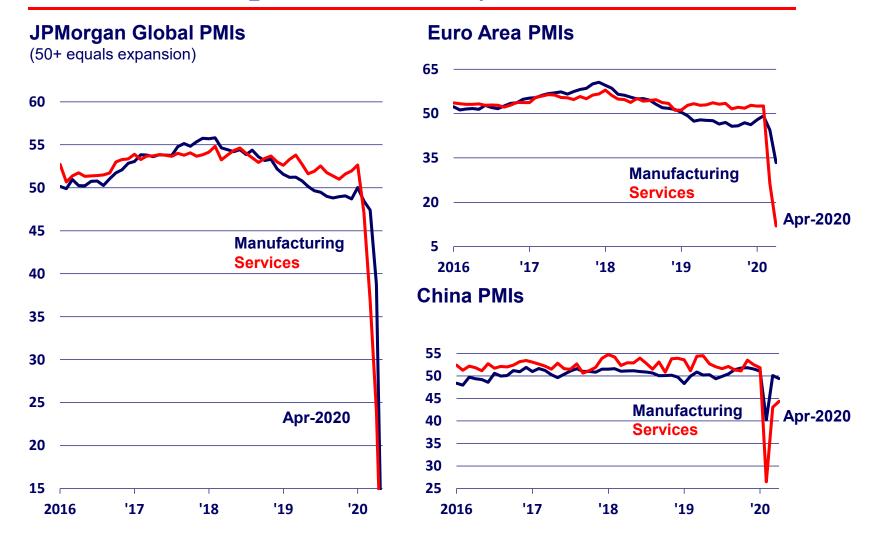
Daily and weekly proprietary data on credit card, debit card, payment platform, and banking transactions generally show consumer activity bottoming out in early to mid April and flat to up a bit since.

## Capital Goods and Manufacturing



Source: Census Bureau, Federal Reserve Board, and Institute for Supply Management from Haver Analytics

## Global Collapse in Activity

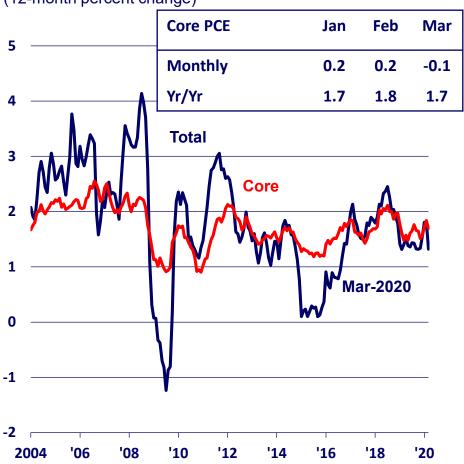


Source: JPMorgan, IHS Markit PMI from Haver Analytics

## Inflation -- Supply and Demand Shocks

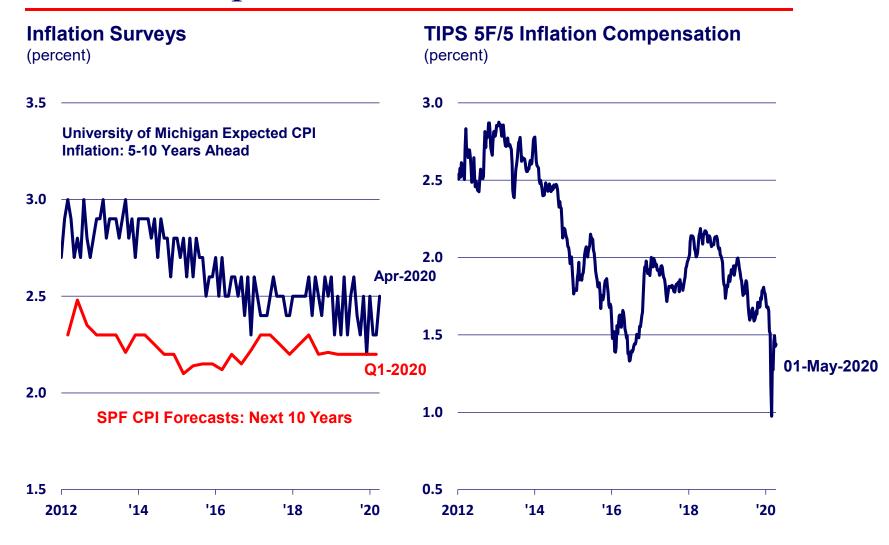
#### **PCE Price Index**

(12-month percent change)



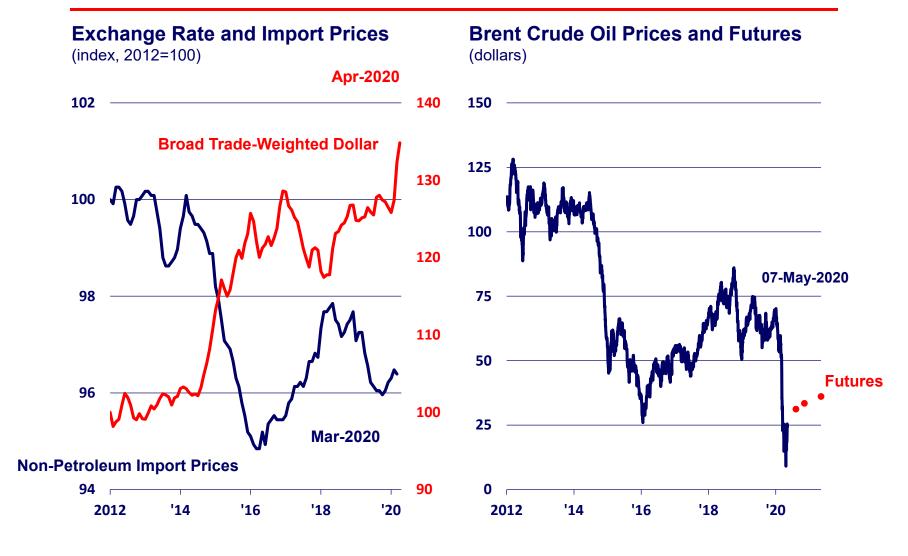
CPI monthly pct changes	Sep- Feb avg	March	April
Food at home	0.2	0.5	2.6
Gasoline	0.1	-10.5	-20.6
Core goods	-0.1	-0.3	-0.7
Core services	0.3	0.0	-0.4
Airfares	-0.1	-12.6	-15.2
Owners equiv. rent	0.3	0.3	0.2

## Inflation Expectations Indicators



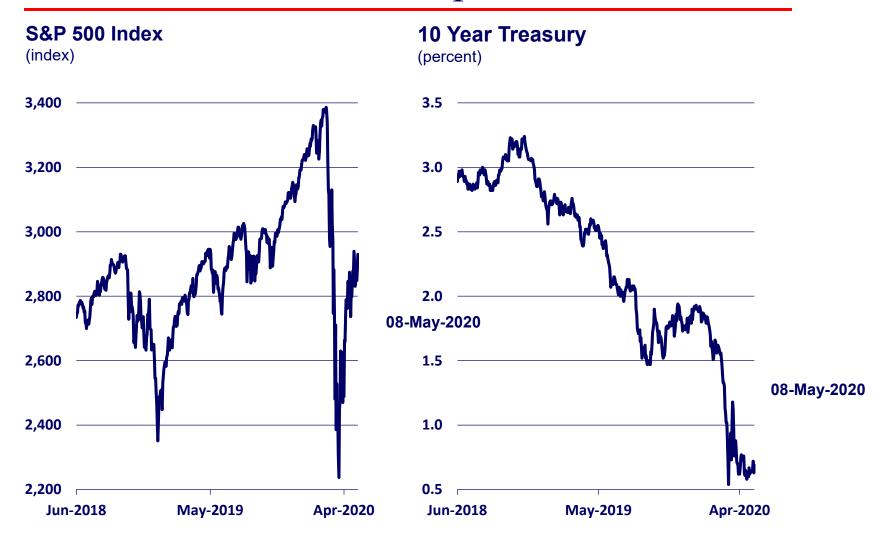
Source: Federal Reserve Board, University of Michigan Survey of Consumers, and Survey of Professional Forecasters from Haver Analytics

## Dollar and Oil Prices



Source: Federal Reserve Board, Bureau of Labor Statistics, Energy Information Administration, and CME from Haver Analytics

## Financial Market Developments



## **Financial Market Stress**

#### **Heightened Uncertainty and Risk**

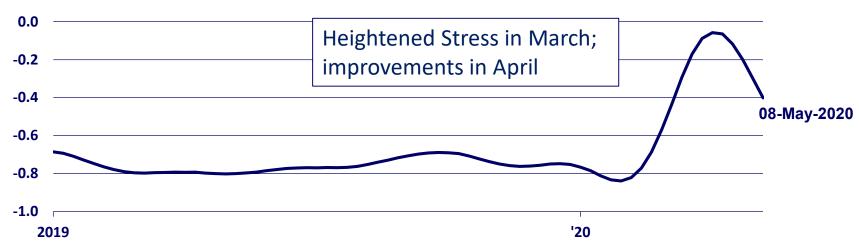
- Difficult to fund longer than overnight
- Liquidity strains in Treasury, MBS mkts
- Credit worthy firms, HH have trouble getting credit
- International flow of dollars strained

#### **Show up in Many Market Metrics**

- Mkt. volatility spikes
- Bid-asks spreads widen
- Pricing connections between similar assets/trades break down
- Risk spreads up across credit markets

#### **Chicago Fed National Financial Conditions Index**

(deviation from 1971-to-current average)



## Federal Reserve Actions

#### Monetary (FOMC/BoG)

- Cut funds rate to ELB, gave forward guidance
- Cut discount/ffr wedge, extend term loans
- Overnight and term repo
- Purchase treasuries, MBS,
   CMBS
- Eliminate reserve regs.
- Swap lines, FIMA facility

### Supervisory & regulatory (BoG)

- Support banks using capital and liquidity buffers to lend
- Temporary change to supplementary leverage ratio
- Other guidance (some with other regulators)

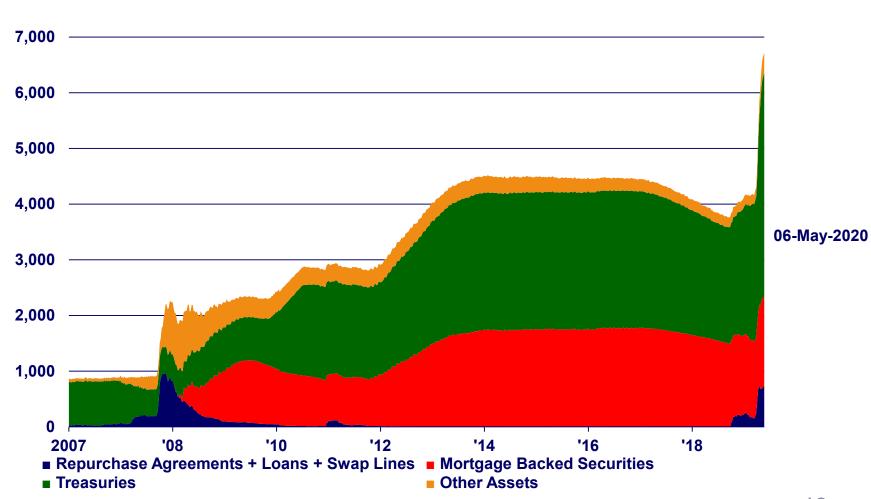
#### 13(3) Facilities (BoG)

- Commercial paper funding (CPFF)
- Money mkt mutual fund liquidity (MMLF)
- Primary dealer credit (PDCF)
- Primary market corporate credit (PMCCF)
- Secondary market corporate credit (SMCCF)
- Term asset-backed securities loan (TALF)
- Paycheck protection program liquidity (PPPLF)
- Municipal liquidity (MLF)
- Main street lending program (MSNLF, MSPLF, MSELF)

## Federal Reserve Assets

#### **Balance Sheet**

(Bil. of \$)



## Federal Fiscal Policy Actions ~ \$2.5T

#### Households

- Direct payments (\$290B)
- Expanded unemployment insurance (\$270B)
- **■** Emergency paid leave mandate/subsidies (\$105B)
- Other

#### Businesses

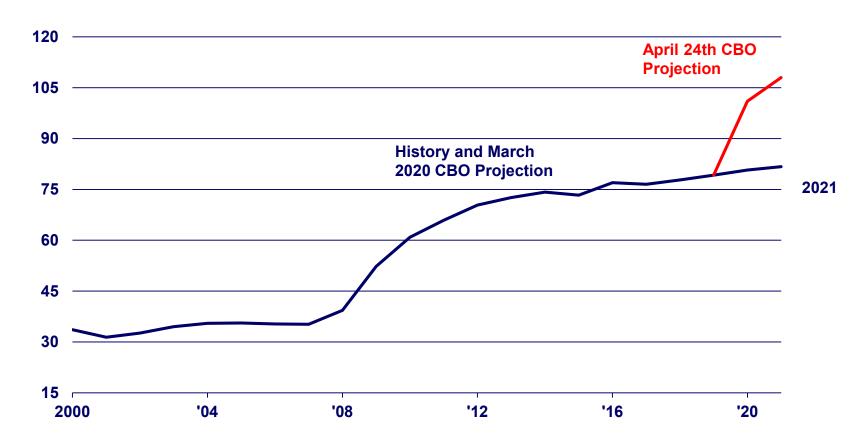
- Paycheck protection plan for small business (\$670)
- Support for targeted industries (\$25B)
- Tax cuts (\$240B)
- Health care support \$270B)
- State and local government (\$270B)
- Loss absorption buffers for Fed facilities (\$450B)\*

\*Not included in the \$2.5T total

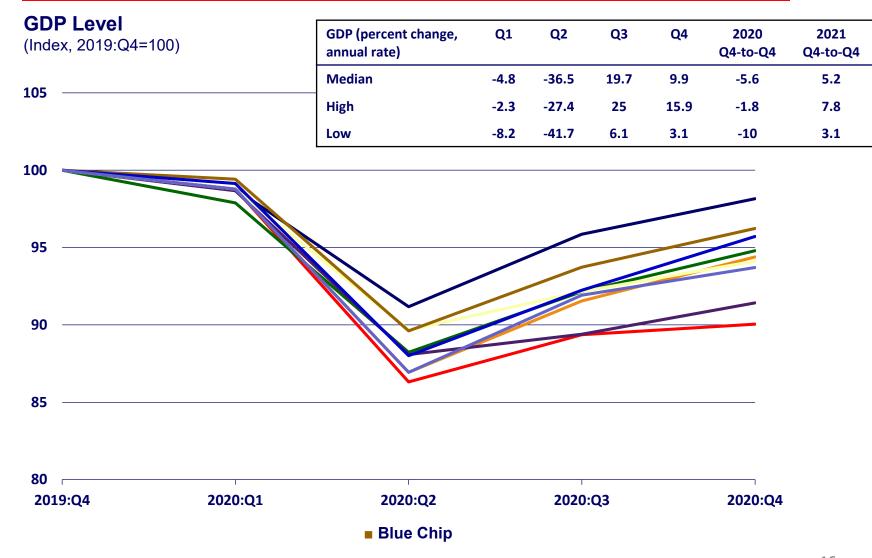
Source: Committee for a Responsible Federal Budget from Congressional Budget Office, Joint Committee on Taxation, legislative summaries, agency reports, Federal Reserve, media reports, CRFB estimates.

## Federal Debt Rising

End of fiscal year debt held by the public, including Federal Reserve (Percent of GDP)



## Forecasters see steep drop in GDP



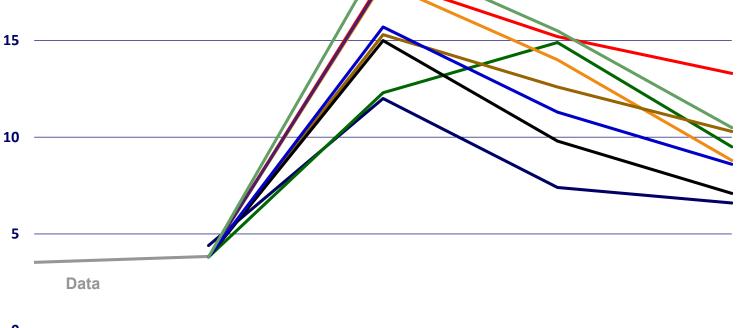
And Large Increase in

## Unemployment

#### Q1 Q2 2021 **Unemployment rate** Q3 Q4 (percent) Q4 Median 3.8 15.7 14.0 9.5 6.5 High 4.4 19.5 19.6 18.2 11.7 Low 3.8 12 7.4 6.6 4.4



20 Low 3.8





## Inflation

