Economic Outlook and Monetary Policy

Federal Reserve Bank of Chicago Academic Advisory Council Meeting May 17, 2019

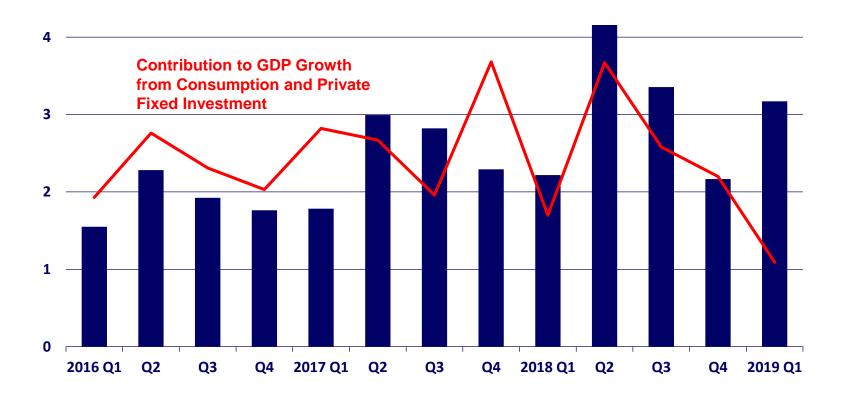
Spencer Krane
Senior Vice President
Federal Reserve Bank of Chicago

GDP and Private Domestic Final Demand

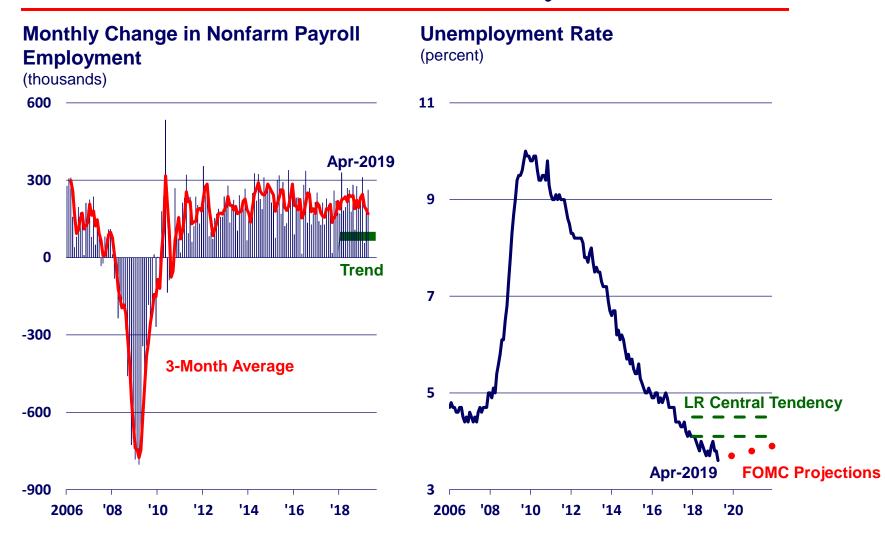
Real GDP Growth

(quarterly annualized percentage change)

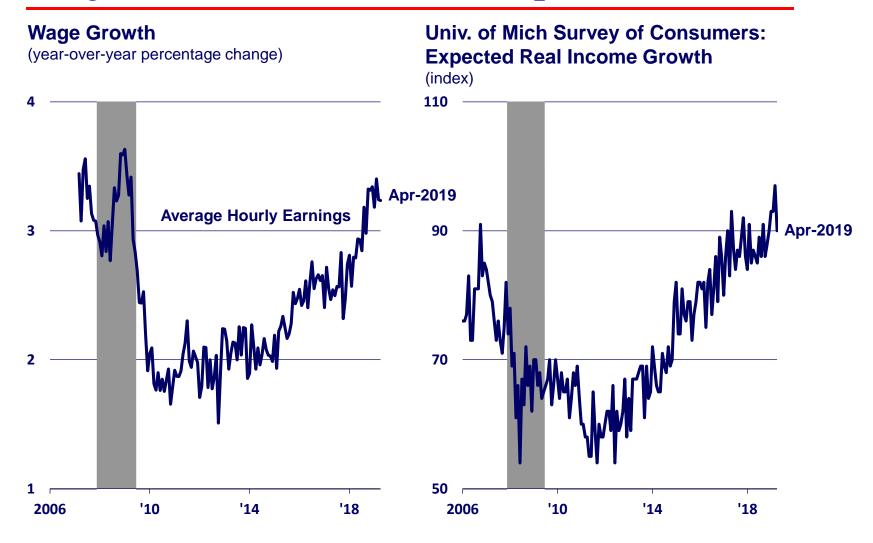
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Labor Market Remains Healthy



Wage Growth and Income Expectations



Source: Bureau of Labor Statistics from Haver Analytics and University of Michigan Survey of Consumers

Household Spending Softer



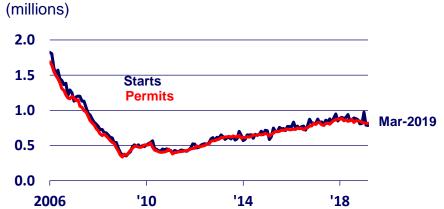
(3-month annualized percentage change in the 3-month moving average)



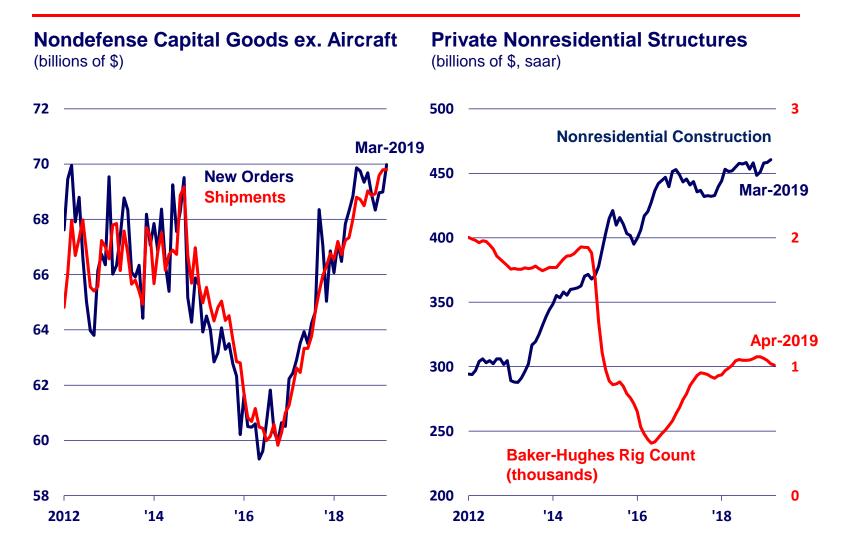
Light Vehicle Sales (millions)



Single Family Housing Starts and Permits



Business Investment Indicators



Global Growth Slowdown

JPMorgan Global Manufacturing PMI (50+ equals expansion)





Euro Area PMI





Source: IHS Markit PMI from Haver Analytics

'17

'18

'19

'16

2015

Real GDP Forecasts

	Q1	Q2	2019	2020	2021
Macroadvisers (5/10)	3.1*	2.1	2.4	2.0	1.6
Blue Chip (5/10)		2.0	2.3	1.7	
FRB Atl GDPNow (5/9)		1.6			
March FOMC SEP (3/20) December SEP (12/19)			2.1 2.3	1.9 2.0	1.8 1.8

^{*}Estimated revision

Inflation – Some Softer Numbers

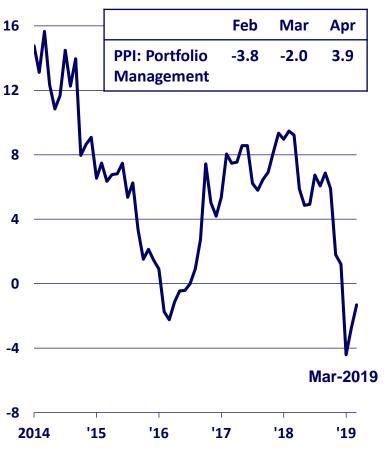
PCE Price Index

(12-month percent change)



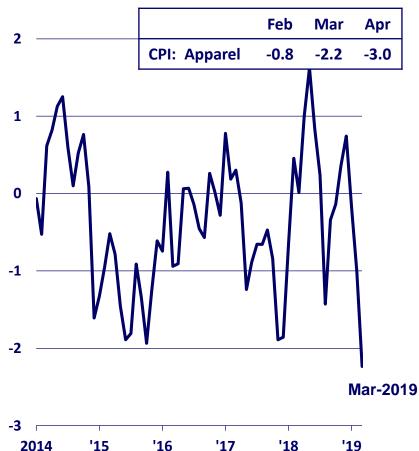
Likely Transitory Contributors

PCE: Portfolio Management Services (year over year percentage change)

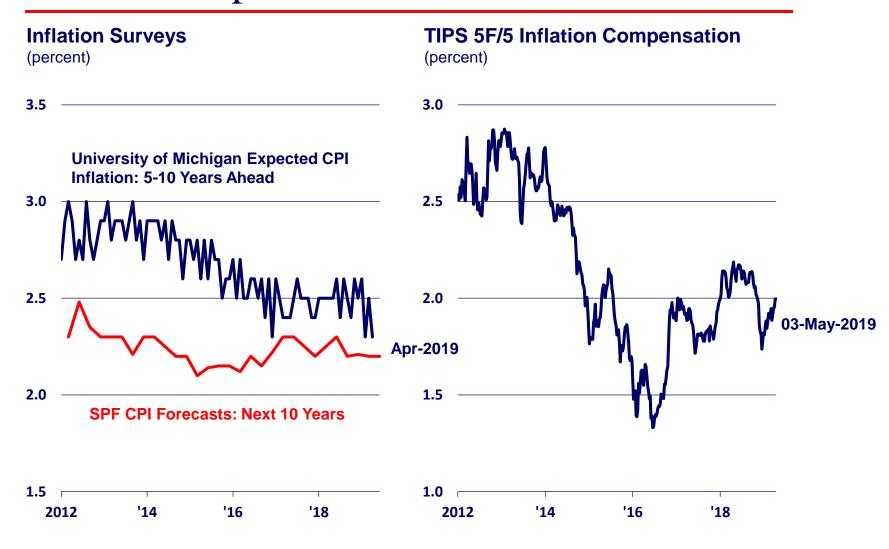


PCE: Clothing and Footwear

(year over year percentage change)

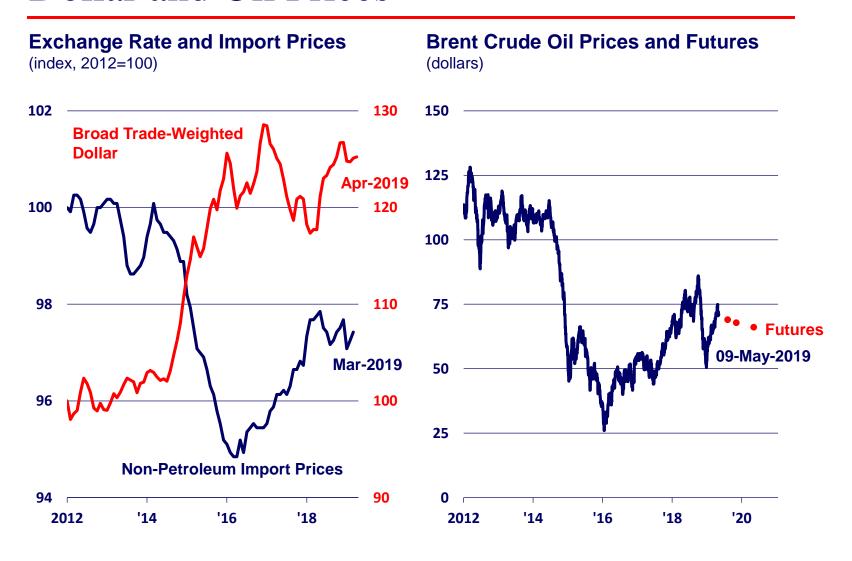


Inflation Expectations Indicators Still Low



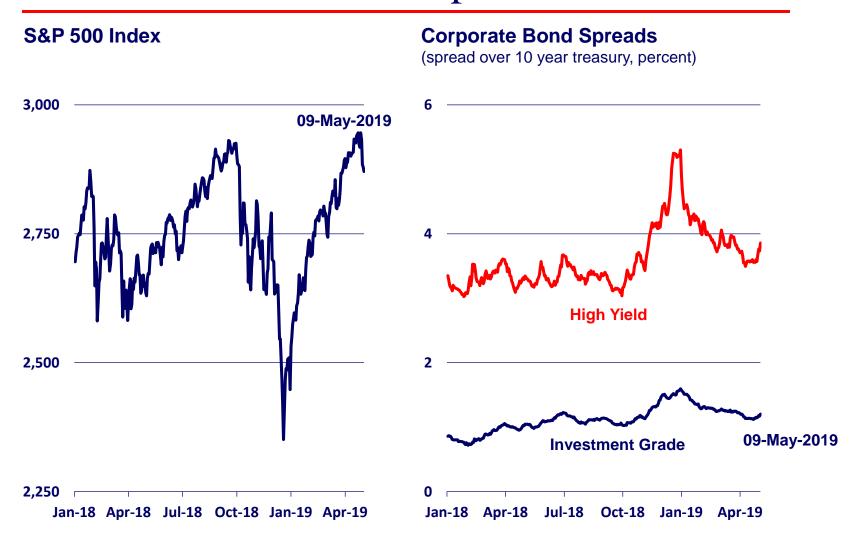
Source: Federal Reserve Board, University of Michigan Survey of Consumers, and Survey of Professional Forecasters from Haver Analytics

Dollar and Oil Prices

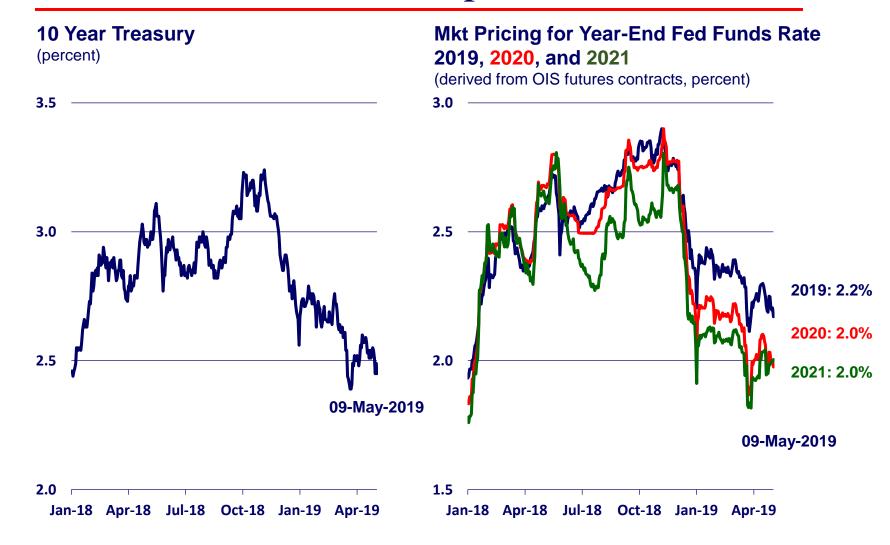


Source: Federal Reserve Board, Bureau of Labor Statistics, Energy Information Administration, and CME from Haver Analytics

Financial Market Developments



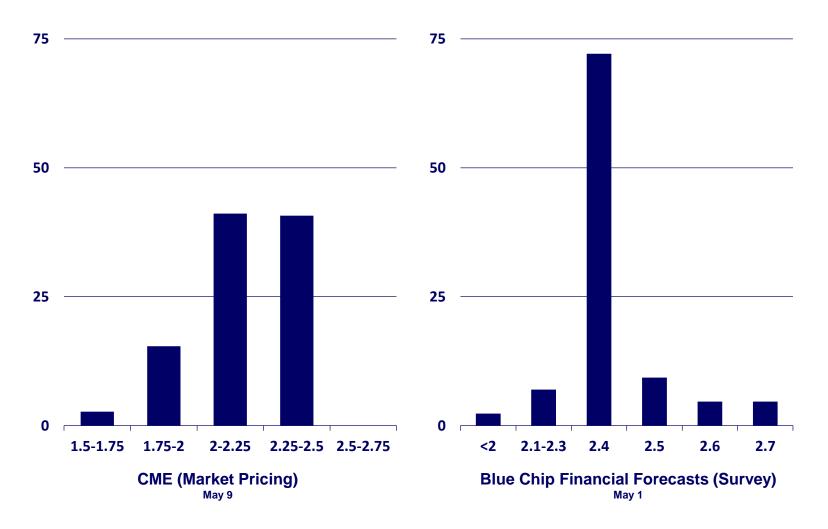
Financial Market Developments



Source: Federal Reserve Board

Private Sector Monetary Policy Outlook

Distribution of Federal Funds Rate Target at Year End 2019 (percent)



Monetary Policy

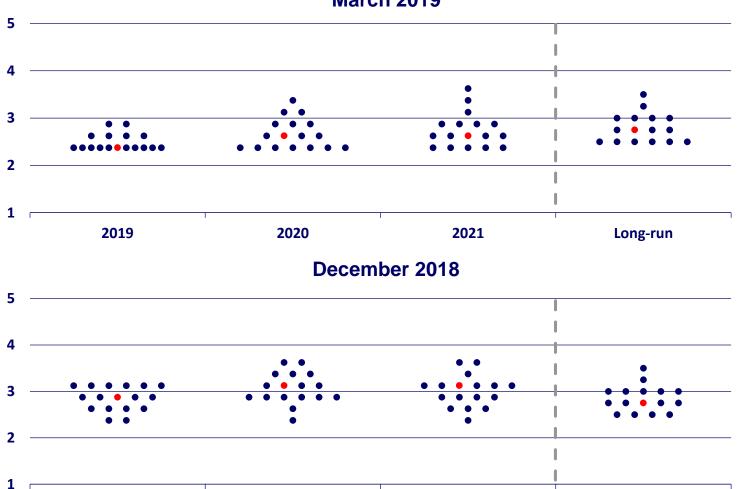
2019

Medians: 2019 2020 2021

Mar 2.4 2.6 2.6 Dec 2.9 3.1 3.1

Long-run





2021

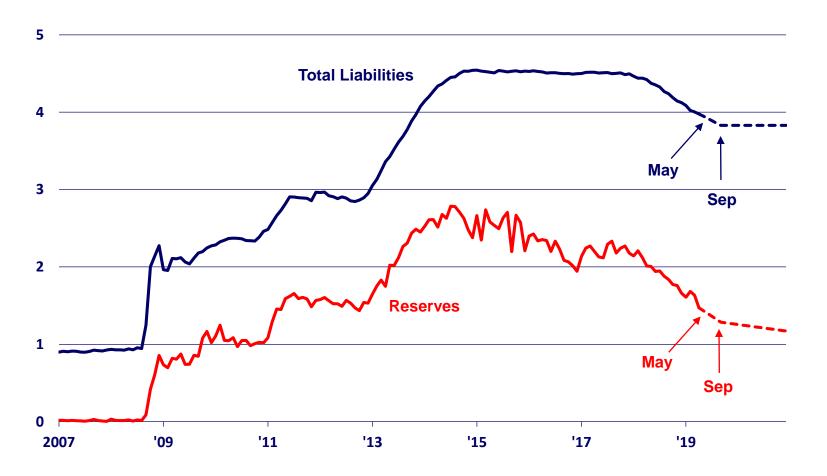
2020

March FOMC Balance Sheet Communications

- Slower pace of drawdown in balance sheet beginning May 2019.
 - Technically, do by reducing the cap on redemptions.
- Conclude drawdown end of September 2019.
- Then expect to hold balance sheet size roughly constant for a time.
 - During this time, gradual increases in non-reserve liabilities (currency, Treasury accounts, etc) => corresponding gradual decline in reserves.

Total Liabilities and Reserve Balances

Trillions of \$. Dashed lines are only an illustrative example



Source: Federal Reserve Board from Haver Analytics. Dashed lines are author's assumptions based on redemption caps, schedule of maturing Treasuries, recent trends in MBS runoff, and growth of (most) non-reserve liabilities in line with nominal GDP

Balance Sheet Decisions Still to be Made

Ultimate level of reserves (when to stop the drawdown):

- Once reserves at a level consistent with "efficient and effective implementation of monetary policy," stop drawdown; increase balance sheet in line with trend growth of non-reserve liabilities.
- When occurs, will be normal part of operations to maintain ample-reserves monetary policy implementation regime and would not represent a change in the stance of monetary policy.

Eventual maturity structure of assets:

- Due to LSAPs and MEP, current duration ≈ 5-1/2 years vs. 2-1/2 to 3 years pre-crisis.
- Maturity choice involves many complex issues and possible implications for the stance of policy. Committee has had preliminary discussions; plan return to issue toward end of year. No pressing need to resolve; any decisions will be implemented with advance notice allowing for smooth adjustment.