

Monetary Policy & The Fed

Geoffrey Woglom,

Professor of Economics Amherst College, emeritus September 29, 2022





1

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.



2



Honorary Board: 54 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

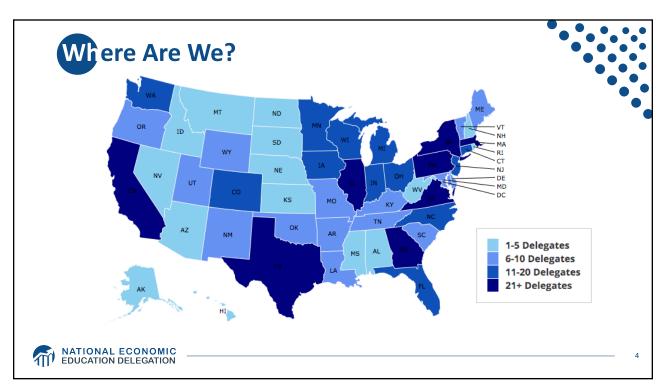
• Delegates: 652+ members

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

Global Partners: 48 Ph.D. Economists

- Aid in slide deck development





4

Available NEED Topics Include:

- Healthcare Economics
- US Economy
- Climate Change
- Economic Inequality
- Economic Mobility
- Trade and Globalization
- Minimum Wages

- Immigration Economics
- Housing Policy
- Federal Budgets
- Federal Debt
- Black-White Wealth Gap
- Autonomous Vehicles
- US Social Policy



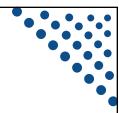
5

Ou line for the Talk

- 1. The economic determinants of inflation and unemployment.
- 2. The Fed's policy tools for influencing interest rates and thereby affecting aggregate demand and the economy.
- 3. A closer look at changes that Chair Powell made in Fed policy that contributed to the run up in inflation.
- 4. The September 20-21 Fed monetary policy meeting and what comes next.
- 5. Along the way mention issues about the Fed's powerful in our democracy and in the world economy is appropriate (for discussion in the Q&A)



What Is a Central Bank?



- 1. Government's Bank.
 - a. Regulate currency and manage the payment system.
 - b. Help with government finance.
- 2. "Lender of Last Resort" (LOL) in financial crises.
- 3. Responsible for stabilizing the macro economy: i.e., low, stable inflation and full employment



7





- Sveriges Riksbank (Sweden), 1668, currency regulation.
- Bank of England, 1694, debt finance for the War of Grand Alliance.
- Banks of the US, First (1791-1811) and Second (1816-1836) did a little of both.



Financial Crises in the 19th Century



- Financial Panics (and recessions) in the 19th century: 1819, 1837, 1857, 1873, 1893.
- Financial Panics are caused by a shortage of *liquidity*.
- illiquidity: the value of liquid assets (cash, short-term Treasuries) are less than the value of liquid liabilities (short-term debt, bank deposits)
- Solvency: the value of assets is greater than liabilities, so given enough time all liabilities can be paid off.



9

Illiquidity Can Lead to Insolvency



- Most banks are technically illiquid, which is not a problem in normal times because money is being deposited to offset the money that is being withdrawn.
- But during a panic solvency is no guarantee of survival (As George Bailey learned in *It's a Wonderful Life*)
- To meet pressing demands for cash, the bank may have to sell assets in a "fire sale," leading to insolvency and a bank failure.







- Walter Bagehot (1826-77): Lombard Street, 1873
- Save the solvent institutions while allowing the insolvent to fail.
- His "Dictum" during a panic the Central Bank should:
 - 1. Lend freely,
 - 2. At a high interest rate,
 - 3. To solvent institutions,
 - 4. On good collateral.





11



- October 1907, JP Morgan cuts short his vacation to deal with a financial panic
 - Market falls by 50%
 - Runs on banks threaten a complete collapse of financial markets.
- Morgan calls a number of bankers to his offices to pledge money to provide liquidity to markets.





The Aftermath: Federal Reserve Act of 1913



Original Roles of the Fed

- 1. Oversee Currency & Regulate Banks; 2. Lender of Last Resort.
- **Great Depression and the Banking Panics of the 30s**
 - Fed fails miserably.
 - RFC lent more money to the banks than did the Fed
- **Footnote on later LOL Roles:**
 - 1. 2008: Bernanke saves the world, but Congress is not happy.
 - 2. 2020: Powell goes even bigger, but the verdict is still out.



13

The Evolution of the Fed's Role in the Macro Economy



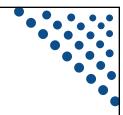
- Employment Act of 1946
 - 1. "Full employment" is a Executive Government Responsibility.
 - 2. Council of Economic Advisors.
 - 3. Economic Report of the President.
- Humphrey Hawkins Act 1978 & the Fed's "Dual" mandate
 - Full employment
 - Price stability



Stabilizer in Chief: the Fed







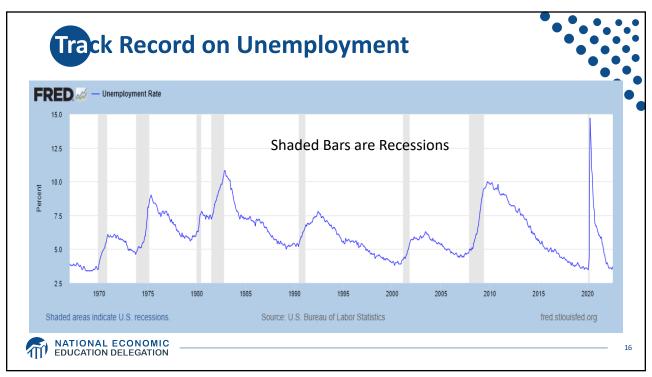
February 2018

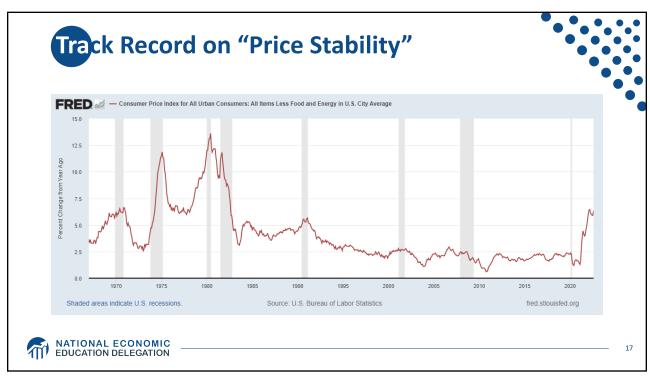
on Price Index

- The Fed's Dual Mandate:
 - "Stable prices" which means 2% rate of inflation in tl (which corresponds to about 2.5% inflation in the mo
 - "Maximum employment" which means the highest level of employment (lowest unemployment rate) consistent with mandate 1.
- Monetary policy is made by the Federal Open Market Committee (FOMC), comprised of the 7 Fed Governors and 5 of the 12 Presidents of the Regional Federal Reserve Banks on a rotating basis.
- The FOMC has scheduled meetings 8 times a year, but can hold unscheduled meetings at a moments notice (e..g., March of 2020)



15





Determinants of Unemployment & Inflation



- Unemployment: The higher the level of total spending the lower the unemployment rate.
- Inflation:
 - 1. "Too much Spending:" Total spending above the economy's normal capacity ("potential output") tends to *increase* inflation.
 - 2. Increase in production costs (e.g., "supply chain bottlenecks.")
 - 3. Expectations of high inflation can cause inflation to be high.



Determinants of Unemployment & Inflation



Long run: what the economy would look like if real GDP were at potential (average behavior of the economy over a number of years):

- Unemployment: Is determined by labor supply and demand and is independent of monetary policy; unemployment will be at the natural rate.
- Inflation is totally determined by the Fed!



19

The Fed's Affects the Economy via Interest Rate



• Lower spending tends to raise unemployment and eventually lowers inflation.



Become a Central Banker in One Slide!



- If you are more concerned that inflation is too high, raise interest rates.
- If you are more concerned that unemployment is too high, lower interest rates.
- Inflation and unemployment just right: keep rates the same.



21

21

One Big Complication: Lags



- Milton Friedman: Monetary Policy affects GDP and Inflation with Long and Variable (Unpredictable) Lags.
- Raising interest rates today does nothing to spending today nor to inflation.
- But over time spending slows and eventually inflation falls.
- Friedman believed that lags led to the Fed to "oversteering" the economy consistently.



22

A Closer Look at Interest Rate Control

- *Primary Tool*: the Fed targets the *federal funds rate* (or fed funds rate for short), the interest rate on overnight loans between banks.
- The target is to adjust bank reserves so that the federal funds rate is within a target range 25 basis points wide.
- From the bank's perspective these loans are very close substitutes to other short-term, safe assets such as Treasury Bills.
- Therefore, controlling the fed funds rate gives the Fed close control over all safe, *short-term* interest rates.

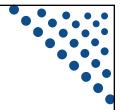


23

23

FRED - Federal funds Efficience Rate - Bully As Notificacial Commercial Paper Interest Rate - Bully Securities at 1 Month Constant Malarity, Quoted on an Investment Basis Blue is the fed funds rate. Green is the rate on 3-month commercial paper Reed is the rate on 1 month Treasuries NATIONAL ECONOMIC Source Board of Governors of the Federal Reserve System (US) Interest Rate - Bully Stousisted org





Notice the absence of the money supply. The Fed does not believe there is a reliable, short-run link between the money supply and total spending or inflation.

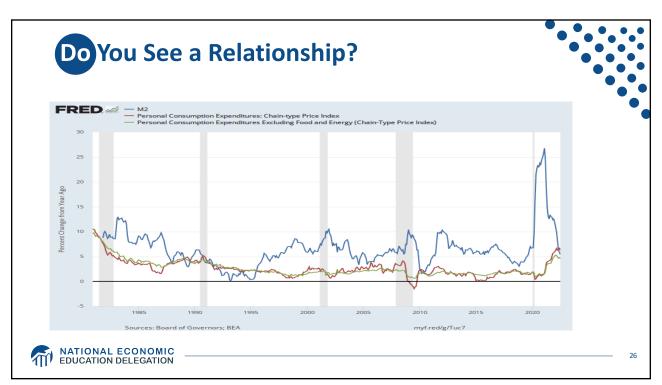
The Minutes of the 7/27/2022 FOMC Meeting mentions:

- Money Supply, M1, M2 0 times
- Federal funds rate 13 times



25

25



'Don't Listen to This Nonsense"



Robert Bartley, Editor of the Editorial page of the *Wall Street Journal* in the 1980s (paraphrased):

"Ronald Reagan proved that economists know nothing about inflation and unemployment. During his first term he was able to do what economists said was impossible: simultaneously reducing inflation and unemployment."

Poll



27

27

Lorg-Term Interest Rates



- Unfortunately, the current fed funds rate has much less influence on long term interest rates.
- Instead, long-term interest rates depend on two factors
 - 1. The average of expected, future short-term rates over the life of the long-term bond.
 - 2. "Risk" premia that reflect the possibility of unexpected changes in interest rates and the possibility of default.
- The Secondary Tools are aimed at affecting these factors.

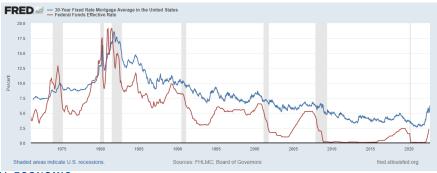


28



The Importance of Long-Term Interest Rates

 Nobody buys a house because of the level of 1-yr interest rates, and unfortunately, the current federal funds rate has much less influence on the rates that matter.





29

Two Secondary Tools to Affect Interest Rates



2. Long-term Asset Purchases better known as quantitative easing or QE.

Both of these tools also affect interest rates, and thereby aggregate demand. But their effect is on the interest rates of longer-term and riskier assets.



Forward Guidance



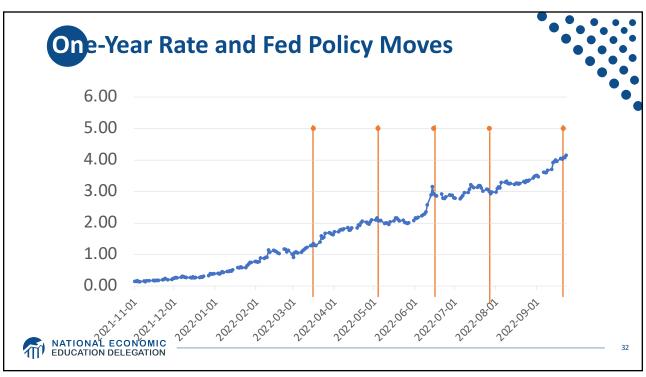
The Fed "guides" financial market participants about what they intend to do in the future. From the 7/27/22 Policy Statement announced at 2PM:

The Committee seeks to achieve maximum employment and inflation at the rate of 2 percent over the longer run. In support of these goals, the Committee decided to raise the target range for the federal funds rate to 2-1/4 to 2-1/2 percent and anticipates that ongoing increases in the target range will be appropriate.



31

31







- Financial investors require a higher interest rate on risky bonds, than on safe short-term Treasuries.
- The greater the supply of risky bonds, the higher the required risk premia needed to get enough private investors to buy them.
- QE lowers the supply of long-term bonds held by private investors and thereby lowers to required risk premia and the interest rate on these bonds.
- QE is particularly important when the federal funds rate has hit the zero (ZLB)



33



A Policy Strategy: Stabilize Expectations of Inflation

 Monetary Policy is much easier if the people believe that the Fed will achieve its inflation target.

Ben Bernanke (2007):

- "...if inflation expectations respond less than previously to variations in economic activity, then inflation itself will become relatively more insensitive to the level of activity..."
- In central bank jargon, stable expectations are "well anchored."



35

35

Anchoring Requires Credibility



- Requirements for Credibility
 - 1. Transparency (Communication)
 - 2. Accountability (Performance)
 - 3. Political Independence

Things to think about: The Fed through monetary policy has the most influence on the short-run behavior of the economy. These governmental decisions are made "technocratically" and not democratically. Is that a problem?



36

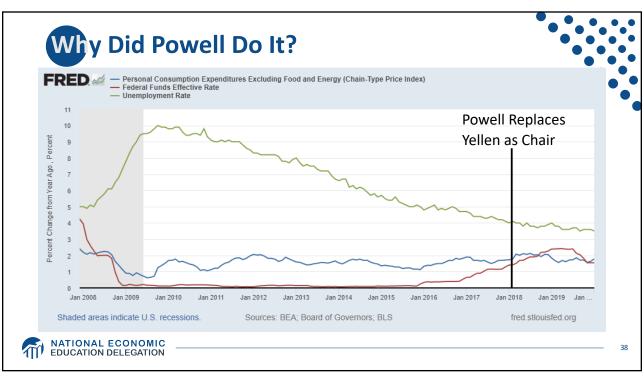




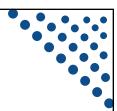
- Volcker paid a price in the early 1980s, but the price paid dividends from 1990 through 2008.
- During that period the performance of the US economy was extraordinary and even Milton Friedman gave kudos to the Alan Greenspan.
- Has Powell jeopardized Volcker's legacy?



37



Policy Changes under Powell



- In the Fed's dual mandate put more emphasis on the employment goal relative to the inflation goal.
- Inflation goal switched from targeting forecasted future inflation to trying to achieve average realized inflation of 2%

Have they forgotten about Lags!



39



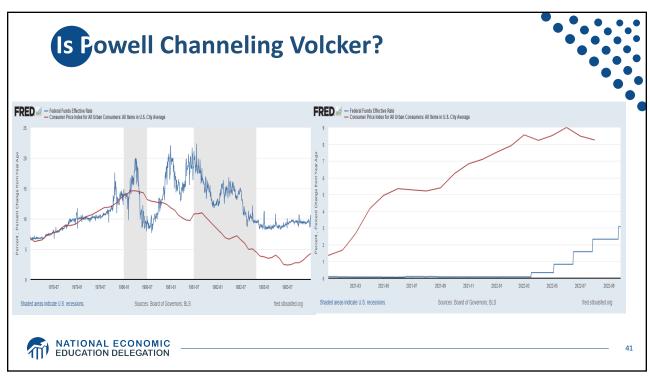
OK But What Explains Powell's Reversal?



"I knew Paul Volcker," Powell responded. "I think he was one of the great public servants of the era — the greatest economic public servant of the era." Making clear that his own legacy was on his mind, Powell continued, "I hope that history will record that the answer to your question is yes." Peter Coy, NYTimes, "Economic Theory Alone May Not Explain Jerome Powell's Actions," 9/23/2022

Could Powell be "Oversteering?" (Larry Summers doesn't think so)





Parallels and Differences



- Secular rise in inflation over the preceding months.
- Bad luck with "supply disruptions.".
- Public statements that the Fed will do whatever necessary to bring inflation down.
- ROW effects of higher US interest rates
- **OVolcker inflation started from a much higher rate.**
- Inflationary expectation were much higher for Volcker
- **ORates rose more rapidly and exceeded inflation under Volcker.**

What's Ahead, at least what the Fed thinks



42



The Latest FOMC Meeting



- The war and related events are creating additional upward pressure on inflation and are weighing on global economic activity. The Committee is highly attentive to inflation risks.
- The Committee seeks to achieve maximum employment and inflation at the rate of 2 percent over the longer run. In support of these goals, the Committee decided to raise the target range for the federal funds rate to 3 to 3-1/4 percent and anticipates that ongoing increases in the target range will be appropriate. In addition, the Committee will continue reducing its holdings of Treasury securities and agency debt and agency mortgage-backed securities, as described in the Plans for Reducing the Size of the Federal Reserve's Balance Sheet that were issued in May. The Committee is strongly committed to returning inflation to its 2 percent objective.

 NATIONAL ECONOMIC EDUCATION DELEGATION

43

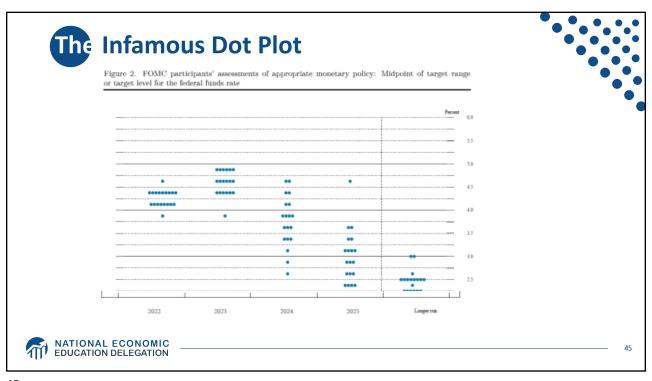


Fec Economic Projections

Ollolliic Plo	jections	
Percent		

	Median ¹				
Variable	2022	2023	2024	2025	Longer run
Change in real GDP June projection	0.2 1.7	1.2 1.7	1.7 1.9	1.8	1.8 1.8
Unemployment rate June projection	3.8 3.7	$\frac{4.4}{3.9}$	$\frac{4.4}{4.1}$	4.3	4.0 4.0
PCE inflation June projection	5.4 5.2	$\frac{2.8}{2.6}$	$\frac{2.3}{2.2}$	2.0	2.0 2.0
Core PCE inflation ⁴ June projection	4.5 4.3	$\frac{3.1}{2.7}$	$\frac{2.3}{2.3}$	2.1	







www.NEEDelegation.org
Geoffrey Woglom
grwoglom@amherst.edu

Contact NEED: Info@NEEDelegation.org

Submit a testimonial: www.NEEDelegation.org/testimonials.php

Support NEED: www.NEEDelegation.org/donate.php



46

