Monetary Policy and the Fed

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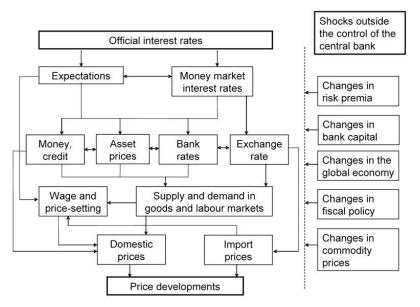
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Topics

How does the Fed operate in reality?

Traditional Monetary Policy



Source: ECB, Transmission mechanism of monetary policy

The Fed Funds Rate

Traditionally, the Fed's main policy tool is the **Federal Funds** Rate (FFR).

- Banks borrow from each other over night
 - moving excess liquidity around
 - the FFR is the interest rate charged for this borrowing
- The Fed controls the FFR by adjusting the liquidity available to banks
 - e.g., by buying and selling bonds in exchange for reserves held with the Fed

Key point

The Fed directly only controls a very short term (overnight) interest rate.

Monetary Transmission

Aggregate demand depends on long-term interest rates

- mortgages and consumer loans
- bank loans to firms

The Fed has **no direct control** over these rates.

Monetary transmission means:

- How do Fed actions (e.g., changes in the FFR) translate into changes in aggregate demand?
- ► There are several channels.

Monetary Transmission: Channels

- Interest rates
 by setting the FFR, the Fed directly affects all interest rates
 higher FFR ⇒ investors hold more short term reserves ⇒
 investors sell long-term bonds ⇒ bond prices fall ⇒ bond
 interest rates rise
- Asset prices
 lower FFR typically increases stock prices
 lower return on competing assets
 lower cost of capital ⇒ higher investment
 wealth effects stimulate consumption
- 3. Credit supply higher FFR \implies higher cost of funds for banks \implies less credit creation
- Inflation expectations
 "loose" monetary policy ⇒ higher expected inflation ⇒
 lower real interest rates

Problems

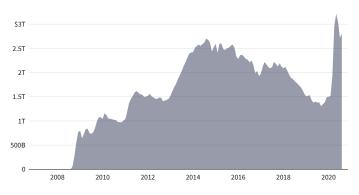
Transmission is quite indirect

- ► The Fed directly controls only the FFR
- ► Aggregate demand depends on longer interest rates
- Long rates may not move as expected

Example: The Great Financial Crisis

- ▶ Banks soaked up all of the liquidity generated by the Fed as excess reserves
- Essentially no credit creation

Excess Reserves of Depository Institutions: 2007—Present



Source: St. Louis Fed

Digression: How do Banks Work?

The main function of commercial banks:

- take in deposits
- give out loans (to finance investment and consumption)

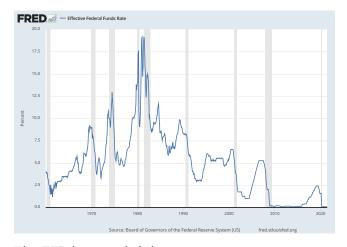
Profit: the spread between loan rates and deposit rates.

Fed reserves:

- banks must hold a certain fraction of their deposits in low interest Fed accounts (reserve requirement)
- when banks fear uncertainty, they hold excess reserves instead of giving out loans

Excess reserves indicate that banks do not lend as much.

The Zero-Lower Bound



The FFR has trended down.

In recessions, it hits the zero lower bound - now what?

Quantitative Easing

The Fed directly changes long-term interest rate by buying long-term bonds.

How does it work?

- 1. Inflation expectations \implies lower real interest rates
- 2. Liquidity (similar to traditional monetary policy)
- Policy signalling: the Fed is serious about keeping inflation low for a while

QE Risks

- 1. Inflation may rise (lots of liquidity in the system)
- 2. At some point, the Fed has to unwind its asset positions.
- 3. Distributional effects; see NY Times Opinion, July 12, 2021

Reading

- Investopedia article on the Federal Reserve.
- ► ECB article on the "Transmission Mechanism of Monetary Policy"
- Johnson, Manuel (2002). "Federal Reserve System." The Library of Economics and Liberty: a very brief overview of how the Fed operates.
- ▶ Monetary Policy Basics: a brief summary of fed operations.
- ► Labonte and Makinen (2017): A more detailed description (including unconventional monetary policy).

References

Labonte, M. and G. E. Makinen (2017): "Monetary policy and the Federal Reserve: current policy and conditions," Congressional Research Service, Library of Congress.