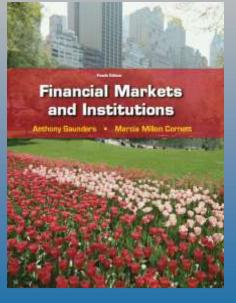
Chapter Four

The Federal Reserve System, Monetary Policy, and Interest Rates



The Federal Reserve

- Founded by Congress under the Federal Reserve Act in 1913
- Subject to oversight by Congress under its authority to coin money
- An independent central bank-its decisions do not have to be ratified by the President

Functions of the Federal Reserve

- Conduct monetary policy
- Supervise and regulate depository institutions
- Maintain financial system stability
- Provide payment and other financial services to the U.S. government, the public, FIs, and foreign official institutions

Structure of the Federal Reserve

- Divided into 12 Federal Reserve districts, each with a main Federal Reserve Bank
- Federal Reserve Banks operate under the general supervision of the Board of Governors of the Federal Reserve
- The Office of the Comptroller of the Currency (OCC) charters national banks, which are members of the Federal Reserve System (FRS)
- FRS member banks "own" the 12 Federal Reserve Banks

Board of Governors of the FRS

- Seven member board headquartered in Washington, DC
- President appoints and Senate confirms members to nonrenewable 14-year terms
- President appoints and Senate confirms Chairman and vice-chairman to renewable 4year terms
- Formulates and conducts monetary policy and supervises and regulates banks

Federal Open Market Committee (FOMC)

• FOMC consists of 12 members

- seven members of the Board of Governors
- the president of the Federal Reserve Bank of NY
- the presidents of four other Federal Reserve Banks (on a rotating basis)
- The monetary policy-making body of the FRS
- Policies seek to promote full employment, economic growth, price stability, and a sustainable pattern of international trade

Federal Open Market Committee (FOMC)

- The FOMC sets ranges for growth of monetary aggregates and the fed funds rate, and also directs FR operations in FX markets
- Open market operations are the main policy tool used to achieve monetary targets
 - involve the purchase and sale of U.S. government and federal agency securities
 - are implemented by the Federal Reserve Board Trading Desk of the New York Federal Reserve Bank

Federal Reserve Banks

- Assist in the conduct of monetary policy
 - set and change the discount rate (must be approved by the Board of Governors)
 - make discount window loans to depository institutions
- Supervise and regulate FRS member banks
 - conduct examinations and inspections of member banks
 - issue warnings when banking activity is unsafe or unsound
 - approve bank mergers and acquisitions

• Provide government services

- act as the commercial banks of the U.S. Treasury

Federal Reserve Banks

• Issue new currency

- collect and replace currency in circulation as necessary

• Clear checks

- act as a central clearing system for U.S. banks
- clear ~25% of all checks written in the U.S.

Provide wire transfer services

- Fedwire
- Automated Clearinghouse (ACH)
- Perform banking sector and economic research
 - used in the formulation of monetary policy

Balance Sheet of the Federal Reserve

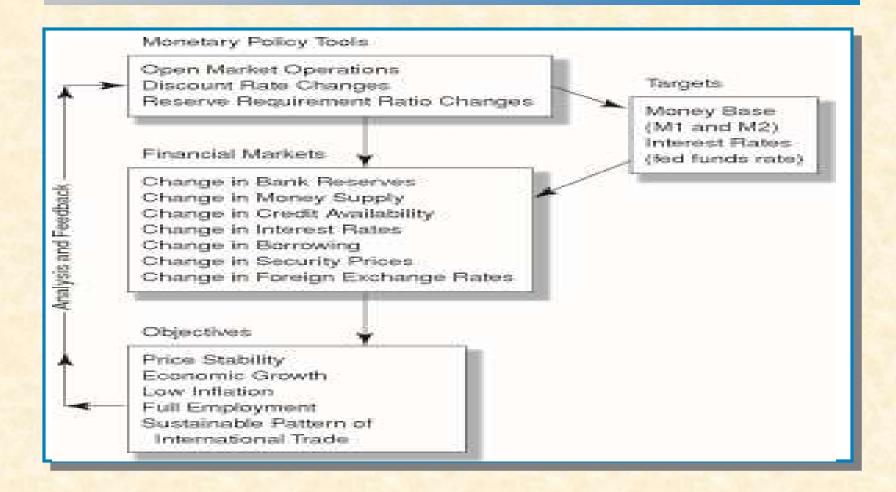
Major assets

- Treasury securities
- Treasury currency
- gold and foreign exchange
- loans to domestic banks

Major liabilities

- reserves
- currency in circulation
- currency in circulation + reserves = money base

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- Monetary policy affects the macroeconomy by influencing the supply and demand for excess bank reserves
 - influences the money supply and the level of short-term and long-term interest rates
 - affects foreign exchange rates, the amount of money and credit in the economy, and the levels of unemployment, output, and prices

Open market operations

- policy directive of the FOMC is forwarded to the Federal Reserve Board Trading Desk at the Federal Reserve Bank of New York
- Trading Desk manager buys or sells U.S.
 Treasury securities in the over-the-counter
 (OTC) market, which keeps the fed funds rate
 near its desired target

• Open market operations (cont'd)

- FRBNY acts through the Trading Desk to implement policy directives each business day
- operations may be permanent or temporary
- may use repurchase agreements for temporary increases or decreases in excess reserves

- The discount rate is the rate Federal Reserve Banks charge on loans to depository institutions in their district
- The Federal Reserve rarely uses the discount rate as a policy tool
 - discount rate changes are strong signals of the Federal Reserves intentions
 - there is no guarantee that banks will borrow

- Reserve requirements are the reserve assets depository institutions must keep to "back" transaction deposits
 - reserve assets include vault cash and deposits at Federal Reserve Banks
- The multiplier effect

in money supply =
$$\left(\frac{1}{\text{new reserve requiremen t ratio}}\right) \times \Delta$$
 in reserves

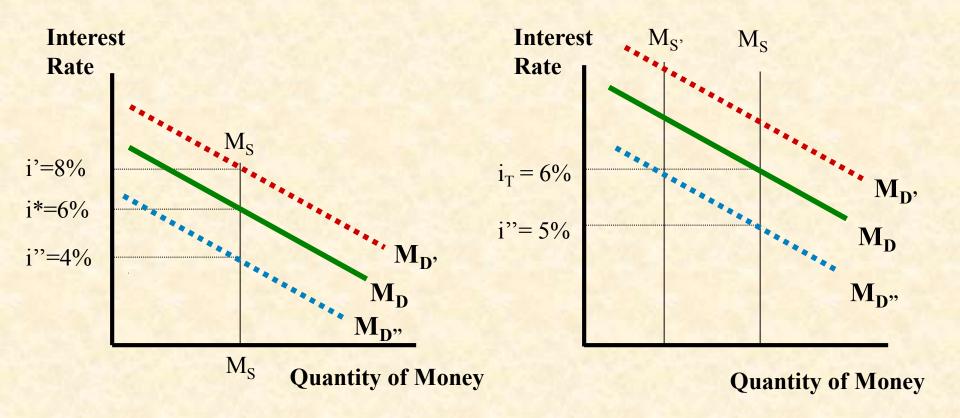
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• Expansionary monetary policy

- open market purchases of securities by the Fed
- discount rate decreases
- reserve requirement ratio decreases
- Contractionary monetary policy
 - open market sales of securities by the Fed
 - discount rate increases
 - reserve requirement ratio increases

Money Supply versus Interest Rate Targeting



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International Monetary Policy

- The Federal Reserve generally allows foreign exchange rates to fluctuate freely
- Foreign exchange intervention
 - commitments between countries about the institutional aspects of their intervention in the foreign exchange markets
 - similar to open market purchases and sales of Treasury securities

Major Foreign Central Banks

• The Bank of Japan

– loose monetary policy is fueling an economic recovery

• The European Central Bank

recently switched from targeting the money supply to targeting inflation

The People's Bank of China

 interest rates are becoming a more important policy tool as China moves to a market oriented financial system