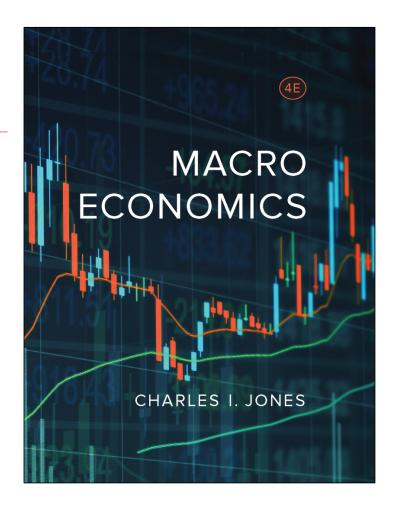
Chapter 14

The Great Recession and the Short-Run Model

Transial Crisis



Prepared by Emily Marshall, Dickinson College Adapted by Simeon Alder, U Wisconsin - Madison

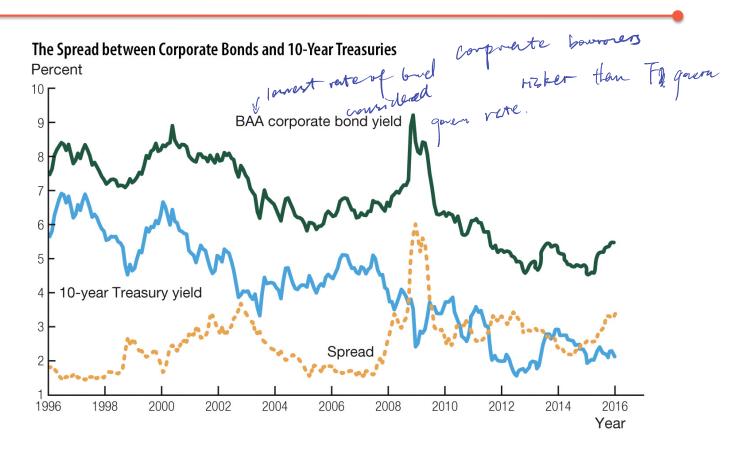
Monetary Policy during the Great Recession

- In this abbreviated discussion of chapter 14, we learn about:
 - The role of financial frictions
 - Unconventional monetary policy

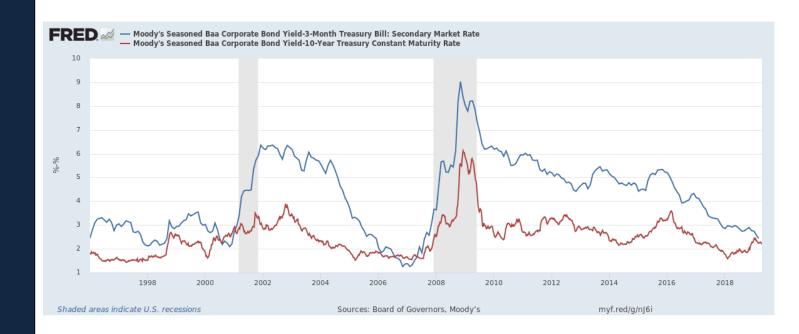
14.2 Financial Considerations in the Short-Run Model

- Financial frictions
 - □ can excerbate spead between sufe and corporate assets.
 - □ Low business lending and mireared interest tetes.
- Rise in interest spread
 - I hoterett rette moving in wong overtour

The Spread between Corporate Bonds and 10-Year Treasuries



The Spread between Corporate Bonds and 10-Year Treasuries



Interest Rate Spread

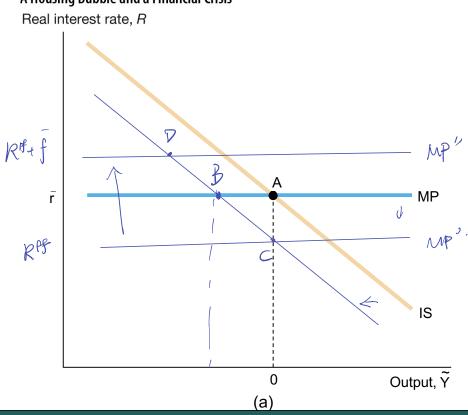
Add financial frictions to our short-run model

$$R = R^{\rm ff} + \bar{f}_{\rm financial}$$
 real interest rate at vend federal first borrow in financial federal funds rate. markets.

■ During normal fines 5=0

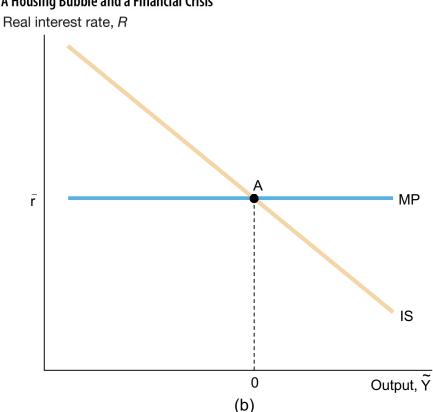
A Housing Bubble and a Financial Crisis—1

A Housing Bubble and a Financial Crisis



A Housing Bubble and a Financial Crisis—2

A Housing Bubble and a Financial Crisis

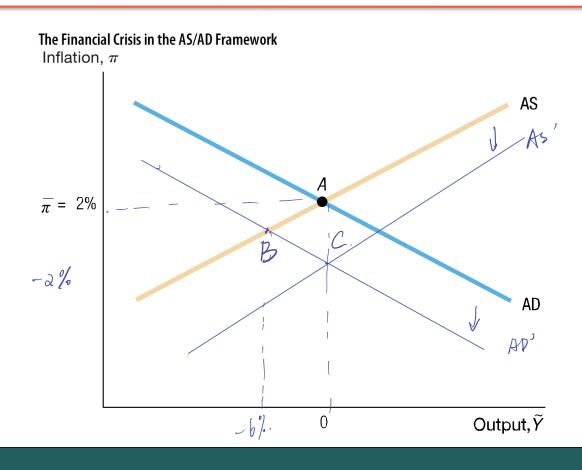


Financial Friction in the AS/AD Framework—1

Financial friction

- □ mork Through Investment in the Is curve
 □ Shifts the AD curve inward;
- A decline in housing prices (reduces household wealth) also acts like a demand shock (on consumption)

The Financial Crisis in the AS/AD Framework—2



Case Study: Deriving the New AD Curve—1

Recall:

$$IS curve: \tilde{Y}_t = \bar{a} - \bar{b}(R_t - \bar{r}) (1)$$

Policy rule:
$$R_t - \bar{r} = \overline{m}(\pi_t - \overline{\pi})$$
 (2)

□ Financial friction:
$$R = R^{\text{ff}} + \bar{f}$$
 (3)

Combining (2) and (3) gives us:

Substituting (4) into (1) yields the new AD curve

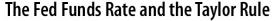
14.3 Policy Responses to the Financial Crisis

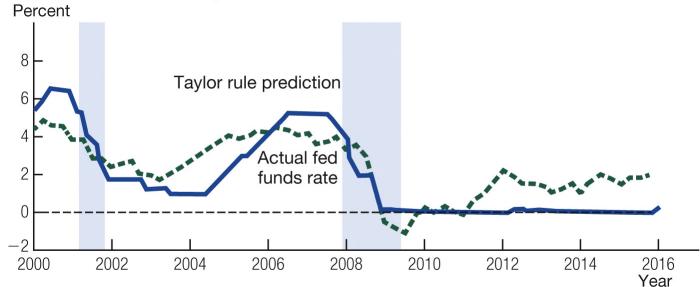
Simple policy rule:

(W/r) output gap.

- The federal funds rate is a function of the gap between the current inflation rate and target rate
- More "advanced" Taylor rule adds the current level of short-run output :
 - The federal funds rate is a function of the gap between the current inflation rate and the target rate in addition to the gap between actual and potential output

The Fed Funds Rate and the Taylor Rule—1





The Fed's Balance Sheet

- Unconventional monetary policy
 - Provide liquidity and capital to financial institutions
- Dramatic changes to the Fed's balance sheet
 - Increased by a factor of five, growing by \$3.5 trillion
 - Composition of assets and liabilities also changed

The Federal Reserve's Balance Sheet (billions of dollars)

TABLE 14.1

The Federal Reserve's Balance Sheet (billions of dollars)

| Assets | | | Liabilities | | |
|----------------------------|----------|------------|-------------------|----------|------------|
| | May 2007 | March 2016 | | May 2007 | March 2016 |
| U.S. Treasuries | 790 | 2,461 | Currency | 814 | 1,440 |
| Mortgage-backed securities | 0 | 1,758 | Reserves | 7 | 2,455 |
| Other | 116 | 267 | Other | 85 | 591 |
| Total assets | 906 | 4,486 | Total liabilities | 906 | 4,486 |

Source: Federal Reserve Release H.4.1. See also James Hamilton's "Econbrowser" blog entry "Managing the Fed's Balance Sheet," December 27, 2015.

Financial Assets of the Federal Reserve

