Lecture #16

chapter 26

Money and

Inflation

Money and Inflation: The Evidence "Inflation is Always and Everywhere a Monetary Phenomenon" (M. Friedman)

Evidence

In every case when high for *sustained period*, M growth is high

Examples:

- 1. Latin American inflations
- 2. German Hyperinflation, 1921–23

Controlled experiment, particularly after 1923 invasion of Ruhr—govt prints money to pay strikers, >1 million %

Meaning of "inflation"

Friedman's statement uses definition of as continuing, rapidly rising price level: Only then does evidence support it 16-2

and Money Growth in Latin America



German Hyperinflation: 1921–23





Monetarist and Keynesian View

- 1. *M* continually, shifts *AD* to right from AD_1 to AD_2 to AD_3 , etc.
- 2. $Y > Y_n$, wages , AS shifts from AS_1 to AS_2 to AS_3 , etc.
- 3. *P* continually rises from P_1 to P_2 to P_3 , etc.: i.e., have inflation

Monetarist and Keynesian Views of

Monetarist View

Only source of AD shifts and in Figure 2 can be M^s growth

Keynesian View

Allows for other sources of AD shifts, but same conclusion that only source of *sustained* high is M^s growth

- 1. Figure 3 shows that fiscal policy without M^s growth only causes P, but not sustained
- 2. Figure 4 shows that supply shock does not lead to sustained

Response to One-Shot Increase in G



Response to Supply Shock





High Employment Target at Y_n

1.Workers raise wages because either: want raise real wages or e^{e} high 2.AS shifts in

 $3.Y < Y_n$, govt shifts *AD* out

4. Workers raise wages again, and go through steps 2, 3, and 4, etc. 16-9

5.P continually: i.e., get



High Employment Target, $Y_T > Y_n$

- 1. $Y = Y_n < Y_T$, govt shifts *AD* out
- 2. $Y = Y_T > Y_n$, *AS* shifts in
- 3. $Y = Y_n < Y_T$, govt shift *AD* out, and repeat steps 2 and 3, etc.
- 4. *P* continually: i.e., get

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Budget Deficits and

Government Budget Constraint

DEF = G - T = MB + B

- 1. Deficit financed by bonds, no effect on MB and M^s
- 2. Deficit not financed by bonds, MB and M^s

Financing persistent budget deficit by money creation leads to sustained

1. Deficit financed by M° leads to AD shifts out, as in Fig 28.2

2. If deficit persists, M^{s} continually and get *P* continually, i.e.,

as in Fig 28.2

Conclusion: Deficit , only if it is

- 1. Persistent
- 2. Financed by money creation rather than by bonds

Budget Deficits and Budget deficits in other countries

- 1.Bond finance hard
- 2. Deficit likely to lead to money creation and

Budget deficits in U.S.

- 1. Large capital market, so can bond finance
- 2. Fed has choice whether to monetize deficit, but may be pressure to do so
- 3. Ricardian equivalence may mean no effect of budget deficits on interest rates

Conclusion: Deficits not necessarily

Budget Deficits and Interest Rates



Quantity of Bonds, B

Inflation and Money Growth



Money and inflation relationship close until 1980
After 1980 relationship breaks down

Government Debt to GDP



Debt/GDP falls 1960–80
Deficits can't be source of money creation and



Unemployment and the Natural Rate of Unemployment

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Activist/Nonactivist Debate

Lags in Shifting AD

- 1. Data lag
- 2. Recognition lag
- 3. Legislative lag
- 4. Implementation lag
- 5. Effectiveness lag

Case for Activist Policy:

If self correcting mechanism is slow, $U > U_n$ for long time

- 1. Doing nothing has high cost
- 2. AS shift little, even after long lags in shifting AD

Conclusion: Should shift AD to AD_2 to get to point 2 in Figure 10

Case for Nonactivist Policy

If self correcting mechanism is fast

- 1. Doing nothing has low cost
- 2. AS shifts to AS_2 before AD shifts to AD_2
- 3. Sequence: 1', 1, 2',2
- 4. Undesirable effect: *Y* and *P* fluctuate

Activist/Nonactivist Debate

Case for nonactivist policy stronger if expectations of policy matter

- 1. Economy won't stop at point 2
- 2. Wages , AS in, $Y < Y_n$, AD shifted out, etc.:
- 3. Also less likely for wage push that gets us to 1'

Quite plausible that expectations of policy matter to wage setting

Rules Vs Discretion

- 1. Nonactivists advocate policy rule to keep *AD* from fluctuating: *Example:* Monetarist constant-money-growth-rate-rule
- 2. Credibility of nonaccommodating policy helps avoid wage push and helps prevent and unemployment

Example:

- 1. 1979 Fed had low credibility and anti- policy was costly
- 2. Credibility earned by 1983
- 3. When money growth 1983, little rise in wages and

Choice Between Activist and Nonactivist Policy

