

Interpreting Fed-speak

Question: Interpret the Fed statement from Sept 2009:

"With substantial resource slack likely to continue to dampen cost pressures and with longer-term inflation expectations stable, the Committee expects that inflation will remain subdued for some time."

Interest Rates & Yield Curve ZLB Phillips Curve Shifts of Phillips Curve

Interpreting Fed-speak

Question: Interpret the Fed statement from Oct 2015:

"Inflation is anticipated to remain near its recent low level in the near term but the Committee expects inflation to rise gradually toward 2 percent over the medium term as the labor market improves further and the transitory effects of declines in energy and import prices dissipate."

Interest Rates & Yield Curve ZLB Phillips Curve Shifts of Phillips Curve

Side by side

Nov 2018

Oct 2019

Information received since the Federal Open Market Committee met in September indicates that the labor market has continued to strengthen and that economic activity has been rising at a strong rate.

Job gains have been strong, on average, in recent months, and the unemployment rate has declined.

Household spending has continued to grow strongly, while growth of business fixed investment has moderated from its rapid pace earlier in the year.

On a 12-month basis, both overall inflation and inflation for items other than food and energy remain near 2 percent.

Indicators of longer-term inflation expectations are little changed, on balance.

Information received since the Federal Open Market Committee met in September indicates that the labor market remains strong and that economic activity has been rising at a moderate rate.

Job gains have been solid, on average, in recent months, and the unemployment rate has

Although household spending has been rising at a strong pace, business fixed investment and exports remain weak.

On a 12-month basis, overall inflation and inflation for items other than food and energy are running below 2 percent.

Market-based measures of inflation compensation remain low; survey-based measures of longer-term inflation expectations are little changed.

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Monetary Policy & Dual Mandate

- Fed (usually) has one tool: interest rates
 - Why do I say "usually"? Because once FFR hit the ZLB, Fed did turn to Quantitative Easing. But that was unusual.
- Dual mandate: employment & inflation
- Fight Inflation?
 - Fed raises interest rates
- Fight unemployment?
 - Fed lowers interest rates

Shifts of Phillips Curve Interest Rate Policy Taylor Rule Challenges

Fighting unemployment & inflation

When the fight is over . .

- Inflation & GDP growth ok now? Then Fed gradually returns interest rates to "neutral" level
 - Called "normalization" ... & that's what Fed started in Dec. 2015
- Important to keep counterfactual in mind!!!
 - Higher interest rates do not necessarily cause recession
 - But higher interest rates ceteris paribus do cause slower growth

Shifts of Phillips Curve Interest Rate Policy Taylor Rule Challenges

Some fights are straightforward

Inflation up?

Fed undertakes contractionary monetary policy

- · Raises interest rates
- Net effect?
 - unemployment
 - inflation

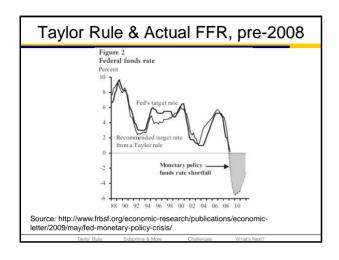
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Other fights also straightforward • Unemployment up? Fed undertakes expansionary monetary policy • Lowers interest rates • Net effect? • unemployment • inflation

Some fights are unpleasant (at best)	
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■ Fed fights back: ↑ interest rates	
Net effects? Unemployment Inflation Fed typically does not "slay" inflation; just fights it	

The Fed's Dual Mandate Fed reacts to inflation and unemployment Inflation hawk Inflation dove Shifts of Philips Curve Interest Rate Policy Taylor Rule Challenges

Taylor Rule An equation for FFR target that seems to fit the data reasonably well (except when we hit ZLB) is the "Taylor Rule" equation Estimated separately for different central banks The equation says: The central bank sets its interest rate target in reaction to inflation and unemployment (or growth rate of GDP) FFR Target neutral FFR +A * (actual − Fed's goal for inflation rate) +B * (actual − Fed's goal for inflation rate) neutral FFR +A * (actual − Fed's goal for inflation rate) −β * (actual − Fed's goal for unemployment rate)



Inflation Hawks And Doves Taylor Rule • Fed reacts to inflation and unemployment FFR Target = $neutral\ FFR$ +A*(actual - Fed's goal for inflation rate) $-\beta * (actual - Fed's goal for unemployment rate)$

Using the Taylor Rule

Question: Suppose the Taylor Rule is estimated as FFR target = 4 + 1.5*(actual inflation - inflation goal)

- 1*(actual unemployment - unempl't goal)

And suppose further

inflation goal = 2 percent (use 2, not 0.02) unemployment goal = 4 percent (use 4, not 0.04) actual inflation = 1 percent

actual unemployment = 6 percent

How it's supposed to work

Fed goal: inflation rate 2%, unemployment rate ~4%

- Fed targets federal funds rate and sets IOER
- Substitution between assets changes other interest rates
- Exchange rates change
- Investment & net export spending respond
- Through multiplier, GDP changes
- Employment & unemployment change
- Impacting wages
- And changing inflation
- What could possibly go wrong? Tune in Monday. . .