Discussion of "Inflation Expectations and Recovery from the Depression in 1933: Evidence from the Narrative Record" by Andrew Jalil and Gisela Rua

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Summary

- Main hypothesis: Inflationary expectations underwent a regime change in spring 1933; identify key events which led to the turnaround and examine the causal link between this regime switch and recovery from the Depression
- Identification of inflationary news shocks
 - Use narrative and historical accounts from news reporting, business analyst forecasts to identify five key dates
- Econometric analysis
 - Event study to examine impact of identified news shocks: $\simeq 5\%$ rise in stock prices, 2% depreciation of US dollar
 - Use the Bernanke (1983) specification for analyzing impact on output: 7% rise in output growth when regime switch in inflation expectations is incorporated
- Narrative approach to examine if other events may have been responsible for the recovery: abandoning the gold standard, changes in velocity

Main Comments

- 1. Identified news shocks
- 2. Econometric strategy to examine macroeconomic effects
- 3. Further use of the narrative record

- For causal link between inflationary expectations and output, analysis
 must separate exogenous shocks to inflationary expectations from
 the endogenous response of these expectations to the real economy
- Narrative approach for constructing dummy variables to identify news/policy shocks does not imply exogeneity
- Leeper (1997) and Shapiro (1994) show that the Romer and Romer (1989) dummies indicating monetary policy shocks are predictable from lagged values of output and inflation

· Leeper's model:

$$E[d_t|\Omega_t] = F(\alpha,\beta(L)x_t)$$

where $x_t = (Y_t, P_t, R3_t, R10_t, TR_t, PCM_t)$ and F(.) is the logistic function:

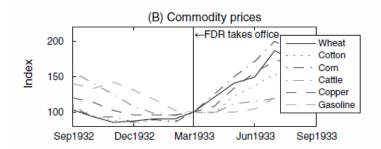
$$\beta(L) = \beta_1 L + \dots + \beta_m L^m$$

- Predicted values of the 7 R&R dummies: $Prob(d_{1974}) = 0.86$, $Prob(d_t) > 0.5$ on 3 dates, $Prob(d_t) > 0.25$ on 2 dates
- Endogeneity is found to be significant: real effects of policy changes from VAR analysis are reduced after endogeneity is modeled

• From the diaries of Dr. James P. Warburg - indications of an advance in commodity prices prior to the April Proclamation:

"Around March 29th, there was a great deal of talk about devaluing the dollar. The devaluation was on April 19th and so the discussions on this topic were in the newspapers by this time".

• Evolution of commodity prices (Figure 1 from Eggertsson, 2008)



- Authors identify April 19th as the first date around which inflationary expectations shifted
- Consider whether the five inflationary dummies are predictable from past observations of output, commodity prices, exchange rates

• The Bernanke (1983) model modifies the following specification:

$$Y_t = \sum_{i=1}^{2} \beta_i Y_{t-i} + \sum_{i=0}^{3} \alpha_i M_{t-i} + \varepsilon_t$$

Debt crisis is introduced as an exogenous, independent shock:

$$Y_{t} = \sum_{i=1}^{2} \beta_{i} Y_{t-i} + \sum_{i=0}^{3} \alpha_{i} M_{t-i} + \sum_{i=0}^{1} \delta_{i} DBANKS_{t-i} + \sum_{i=0}^{1} \phi_{i} DFAILS_{t-i} + \varepsilon_{t}$$

- Meltzer and Brunner (1988) concern about endogeneity in the Bernanke (1983) specification:
 - "[...] Once monetary authorities allow for the emergence of a major deflation of asset, output and price levels, in a system with many holders of nominally fixed debt, a debt crisis is an induced response to the deflation." (emphasis added)
- Specification used in Jalil and Rua (2015):

$$Y_{t} = \sum_{i=1}^{2} \beta_{i} Y_{t-i} + \sum_{i=0}^{3} \alpha_{i} M_{t-i} + \sum_{i=0}^{1} \delta_{i} DBANKS_{t-i} + \sum_{i=0}^{1} \phi_{i} DFAILS_{t-i} + \lambda R_{t} + \varepsilon_{t}$$

 In Bernanke (1983), including DBANKS and DFAILS leaves monetary shock coefficients mostly unchanged (size and significance)

 \Longrightarrow Non-monetary effects of financial crisis augmented monetary effects

 Intuition for change in the significance of the monetary and banking crisis variables?

From Table 6: Lagged M1 shocks are more significant; DFAILS is no longer significant t-1

Coeff	Bernanke (1983)	Jalil and Rua (2015)
Shocks to $M1(t-2)$	0.119	0.205+
Shocks to $M1(t-3)$	0.161	0.277*
DFAILS	-0.000085	-0.000046
DFAILS $(t-1)$	-0.00015*	-0.000081

- Consider robustness of the effects of R_t on output using a VAR approach: basic VAR or identification using Cholesky/sign restrictions of Uhlig (2005)
- Dynamic effects of the regime switch dummy variables on output can also be analyzed

Comment 3: Narrative Record for Output

- Authors use three narrative and historical sources to identify expectations about changes in prices
- Eggertsson (2008): regime change in fiscal deficits solidified the announcements about the change in inflation expectations; expectations of future output are important
- As inflation expectations changed, were there expectations about corresponding increases in quantities (output or production)?
- The narrative approach may be able to identify this. Example: search for "output".