

Discussion of “Measuring Economic Policy Uncertainty” by Baker, Bloom, and Davis

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- Very interesting and topical paper
- Two contributions:
 - ① Construct an index of policy uncertainty
 - ② Look at how that index correlates with business cycle

- Three related themes:
 - ① What is the index measuring?
 - ② What is the mechanism accounting for empirical relationship between index and economic activity?
 - ③ How large are the effects?

The Index

- Index composed of three parts:
 - ① News index
 - ② Upcoming tax code expirations
 - ③ Forecast disagreement
- In baseline index, news component gets largest weight
- Disparate sources: both a strength and a weakness
 - Strength: broadest possible coverage
 - Weakness: very different kinds of policy – fiscal (tax code expirations) and monetary (CPI disagreement)
 - CPI disagreement may not even be related to policy: e.g. oil price shock uncertainty

- Search over ten major newspapers for words in three separate categories: “uncertainty,” “economy,” and “policy”
- Weighted to control for volume of news
- Potential concern: more talk about policy when there is a need for policy – e.g. when economy is weak
 - Increasing volume of news about economy when economy is bad?
 - Perhaps weight “uncertainty” mentions by overall number of stories about economy to partially address this issue
- Other concern: when journalists say “uncertainty,” do they mean the same thing economists do?

Economists vs. Journalists

- What do economists and journalists mean by an increase in “uncertainty”?
- Economists: mean-preserving spread

$$\uparrow \text{var}(s_{t+j}), \quad \Delta E(s_{t+j}) = 0$$

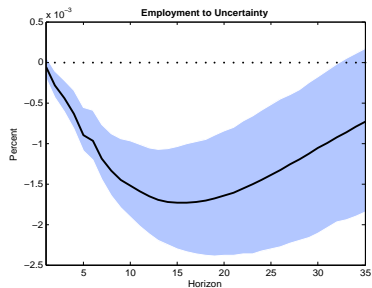
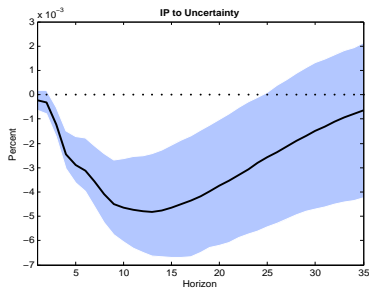
- Journalists: down-side risk

$$\uparrow \text{prob}(s_{t+j} < \underline{s})$$

What do Journalists Say?

- “... economic uncertainty as concerns about weak growth at home and abroad.” – Phil Izzo, *WSJ*
- “I’d define economic uncertainty as a force depressing output by deterring businesses and/or consumers from making investments or purchases because they feel there’s a high chance economic conditions will deteriorate or not improve enough in the future.” – Dylan Matthews, *Washington Post*
- “It [uncertainty] seems prevalent at turning points in the business cycle. If we’re headed into a recession, and the depth and severity of the recession is unknown, that’s going to generate a whole lot of uncertainty.” – Annie Lowrey, *NYT*

IRFs to Policy Uncertainty Index



What is the Mechanism?

- IRFs are quite protracted: small impact effects, takes more than a year for peak negative effect
 - IRFs look similar to Bachmann, Elstner, and Sims (2012) and Gilchrist, et al (2010)
- Not consistent with conventional “wait and see” dynamics from real options intuition
- Explanations:
 - Uncertainty index picking up bad news / low confidence
 - Financial frictions as opposed to physical adjustment frictions: Gilchrist, et al (2010); Arellano, et al (2011); Christiano, et al (2010); and others
 - Precautionary saving (Fernandez-Villaverde, et al, 2011) and nominal rigidities (Basu and Bundlick, 2011)
 - Search frictions: Schaal (2011)

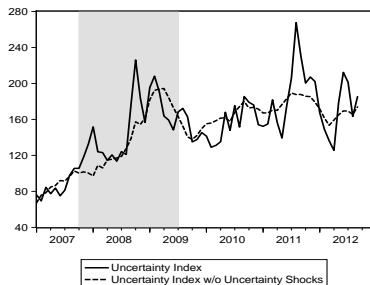
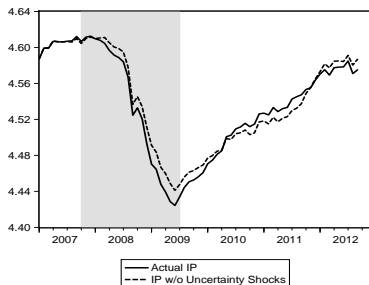
How Large are the Effects?

- BBD compute IRFs to a 112 point shock to uncertainty index (equal to rise in index from 2006-2011), find IP 4% lower
- This is about 8 times the standard deviation of uncertainty innovations in the VAR
- Largest realized uncertainty shock since 2006 is 66 points
- Also many negative realizations of shocks since 2006
- Uncertainty index reacts to other shocks in system via VAR coefficients (in particular IP and stock market innovations)

Variance Decomposition and Historical Decomposition

- Conventional variance decomposition:
 - Uncertainty shocks account for maximum of 14% of IP forecast error variance. Maximum of 5% if you include consumer confidence in VAR ordered first
 - At 2 year horizon, when ordered first in system without confidence, 40% of forecast error variance of uncertainty index accounted for by other orthogonal “shocks”
- Historical decomposition:
 - Take VAR coefficients and realized orthogonal “shocks” and simulate out data with or without some of the “shocks”
 - Counterfactual simulation: simulate data post 2006 in which all realizations of uncertainty shocks are 0. All other “shocks” as identified in data

Counterfactual Simulations



- At trough, uncertainty accounts for about 2 percentage points of IP decline
- Would have observed higher uncertainty without uncertainty shocks

Concluding Thoughts

- Nice paper: really important topic, produces an important new data series
- Concerns: interpreting series not straightforward, probably overstating economic impact of movements in series
- Agenda moving forward:
 - Exogenous variation in uncertainty series (e.g. Baker and Bloom, 2012)
 - Uncertainty as propagation mechanism for other shocks
 - Mechanisms other than physical adjustment frictions