



DISCUSSION OF HARRIS, KASMAN, SHAPIRO, AND WEST: OIL AND THE MACROECONOMY—LESSONS FOR MONETARY POLICY

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Views expressed are those of the author and do not necessarily reflect official positions of the FOMC or the Federal Reserve System.



A GREAT SUMMARY OF ISSUES

- The nature and evolution of the global oil market.
- Analysis of the claim of a long-lasting, demand-based rise in oil prices in the 2000s.
- Impact uneven; assessment requires a global, general equilibrium view.
- NK analysis suggests targeting the sticky prices.
 - The authors question the "anchored expectations" aspect of this.
- HKSW: Fed overplayed the "core inflation" card during the oil price run-up.
- HKSW: Aggressive easing by the Fed in 2007 and 2008 was appropriate.



SOME DISCUSSION AREAS

- The demand explanation for the run-up in oil prices.
- Optimal price indexes for monetary policy.
- The road ahead: long-term price changes.
- Global dimensions of monetary policy.
- Interpretations of expected inflation: a problem.



THE DEMAND EXPLANATION

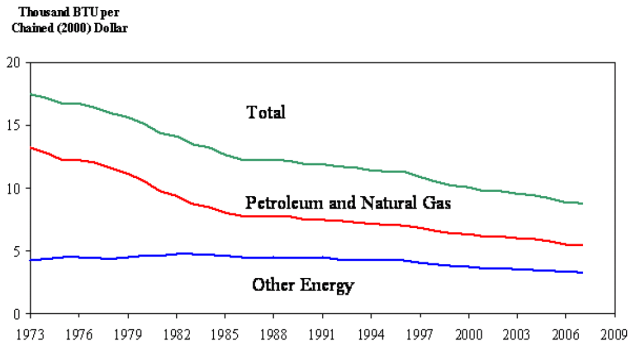
- "World oil equilibrium" 1987-2003: About \$30/bbl in real 2007\$, WTI.
- Abrupt structural change in 2003—probably statistically significant by now.
- Why? Emerging markets were growing both before and since. A threshold?
- Related: The 2008 peak in oil prices was larger in real terms than the 1980 peak.
- Suggests that the oil shock may have been a significant contributor to the sharp deterioration in fall 2008.
 - Unemployment claims and jobs numbers deteriorated before intensified financial turmoil.
- Mitigating factor: declining energy intensity.



ENERGY INTENSITY

Energy Intensity

Annual Data. Last observation: 2007.



Source: Energy Information Agency.



CURRENT PRICE INDEXES FOR MONETARY POLICY

- “Core inflation” is an arbitrary concept for volatility correction.
 - Why take these particular prices out, but not others?
 - Can damage the credibility of the Fed when excluded prices are changing rapidly.
 - We need to do better.
- One appropriate concept for volatility correction: filtering.
 - The idea: prices that are more volatile provide less reliable signals for overall inflation.
 - All prices get included, but are weighted by appropriate signal-to-noise ratios.
 - A good area for research.



OPTIMAL PRICE INDEXES FOR MONETARY POLICY

- NK models: The price index should aggregate the prices from the sticky price sector.
- But, observed prices have “degrees of stickiness.”
 - Could construct an index on this basis, and oil would presumably be weighted zero.
- Sticky prices, generally viewed as the weakest assumption in the NK framework.
 - Hang our hats on that?
- Flexible vs. sticky prices—of an input?
 - Bodenstein, Erceg, Guerrieri (2008): flexibly-priced input usage would matter for policymaking.
 - Small shares for oil, but shares are not small for flexibly-priced inputs generally.

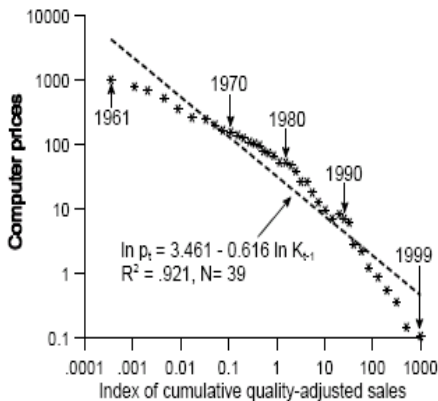


LONG-TERM RELATIVE PRICE CHANGE

- A lot of discussion about oil revolves around the possibility of long-term “trend-like” behavior.
- Is it reasonable to think that there may be long-term “trend-like” behavior in oil prices?
 - To the extent that oil is a finite resource, this seems reasonable.
 - Explosive demand from the developing world over the coming decades.
 - The opposite of other, well-known, long-term price trends?
 - Consider Jovanovic and Rousseau (2002), “Moore’s Law and Learning By Doing,” *Rev. Econ. Dyn.*



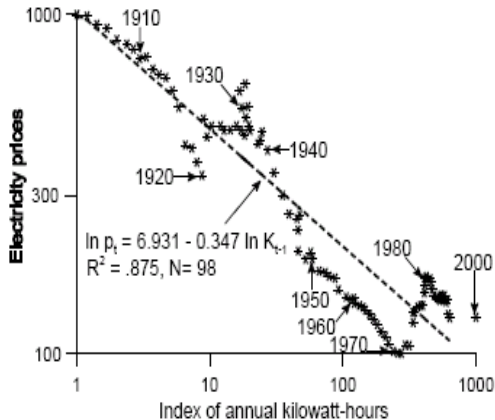
LONG-TERM PRICE TRENDS: COMPUTERS



(a) computer systems



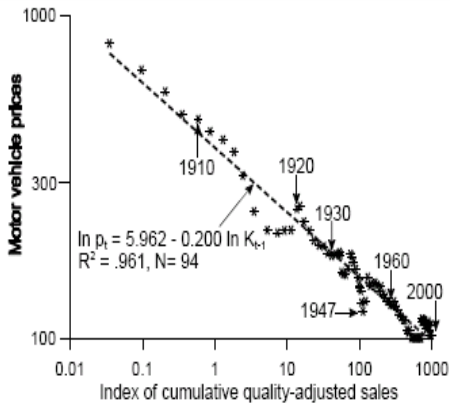
LONG-TERM PRICE TRENDS: ELECTRICITY



(b) electricity



LONG-TERM PRICE TRENDS: MOTOR VEHICLES



(c) autos, trucks, and buses

FIG. 1. Prices and quantities of “new” economy products.



GLOBAL EQUILIBRIUM

- Open economy NK models (CGG, 2002): optimal price index is to focus on domestic prices, again, the sticky sector.
- This gives us a third way to think about the optimal price index.
- In the NK context, “bad policy” means “does not respond aggressively enough to inflation.”
- Global implications? See Bullard and Singh (2008), “Worldwide Macroeconomic Stability,” *J. Monet. Econ.*
 - Determinacy of worldwide equilibrium depends on the joint behavior of policymakers worldwide.
 - Indeterminacy exposes all economies to endogenous volatility, even ones where monetary policy may be judged appropriate from a closed economy perspective.
 - Rationale for a type of international policy coordination.



INTERPRETATIONS OF EXPECTED INFLATION: A PROBLEM

- The problem with direct measures of expectations (p. 24, BEI).
- The expectations can be stable because participants expect the Fed to “do the right thing.”
- But if the expectations do not move, the policymaker interprets that as a reason to do nothing.
- In a standard (one shock) NK model:
 - Inflation would never deviate from target because monetary policy would have the power to offset shocks exactly.
 - Surveys would reveal that the private sector expects the inflation rate to remain exactly at the target.
 - But nominal interest rates would be moving up and down every day in response to the incoming shocks.
- The “expected inflations seem well-anchored” argument is sometimes used improperly in policy discussions.



OIL AND INFLATION EXPECTATIONS

- HKSW: Possibly, failing to respond to persistent oil price shocks would leave longer-term expectations unanchored.
- This erodes credibility because the purpose of core is to help hit overall inflation targets medium term.
- The public cannot tell if the miss is intentional or because of the persistent energy price movements.
- I liked the simulations in Section A5.



MONETARY POLICY

- One main anecdotal story in the spring and summer of 2008: a sort of doubling down behavior by hedge funds and other major players in commodities markets.
 - Stopped at 2Q end.
 - Related to the financial crisis.
- The Fed debate during the spring and summer was in the context of already aggressive easing.
- The ECB and the Fed played different strategies, but ended up in the same place.



CONCLUSIONS

- I like the topic.
- I like the paper.
- Oil prices will remain a key issue for monetary policy in coming decades.