## How the Federal Reserve Can Affect Agriculture

2012-2013 Ag Profitability Conferences

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### The Federal Reserve System

- Established in 1913
  - Third attempt at a U.S. central bank
- Four general areas of focus:
  - Conduct monetary policy
  - Supervise and regulate banking institutions
  - Provide financial services
  - Maintain stability of financial system (systemic risk)

Background on the Federal Reserve

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## An Independent Federal Reserve System

- The Fed generates its own income
  - Service income
  - Interest income
    - Loans and U.S. Treasury securities
- In fact, the Fed is a "for-profit" institution
  - All profits go to the U.S. Treasury
- Balance of Power: The Political Fight for an Independent Central Bank, 1790 – Present
  - <a href="http://www.kc.frb.org/">http://www.kc.frb.org/</a>

Background on the Federal Reserve

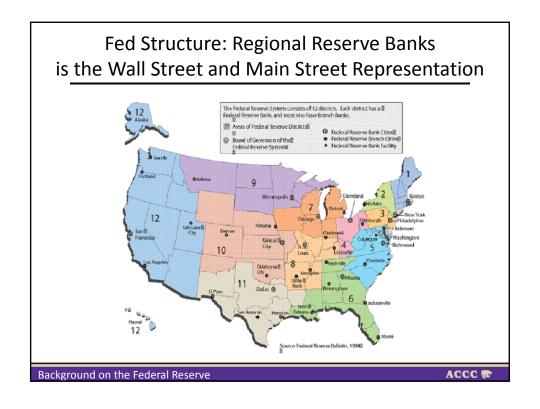
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Fed Structure: Board of Governors is Washington, D.C. Representation



Background on the Federal Reserve

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Background on the Federal Reserve

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## **Objectives of Monetary Policy**

- Stable prices
  - Keep inflation under control (not too high and not too low)
- Full employment
  - Work to keep unemployment rate from being too high



The Federal Reserve's Monetary Policy Tools

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## The Federal Reserve's Monetary Policy Tools

- Open Market Operations
- 2. Discount Rate
- 3. Bank Reserve Requirements
- Balance Sheet (Quantitative Easing)



The Federal Reserve's Monetary Policy Tools

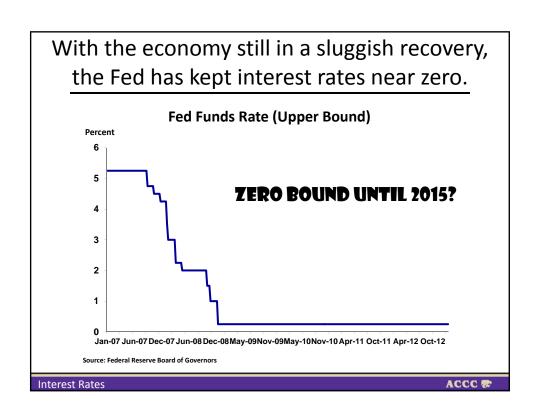
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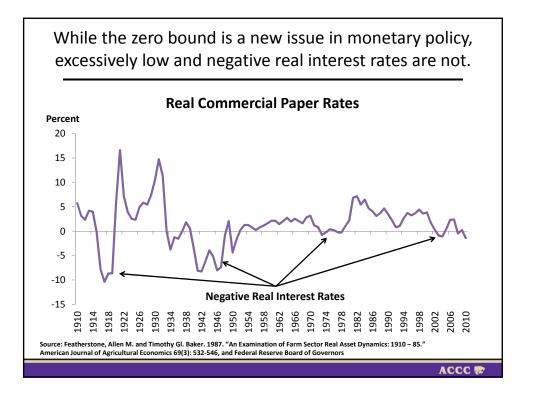
# The Federal Reserve System and U.S. Agriculture

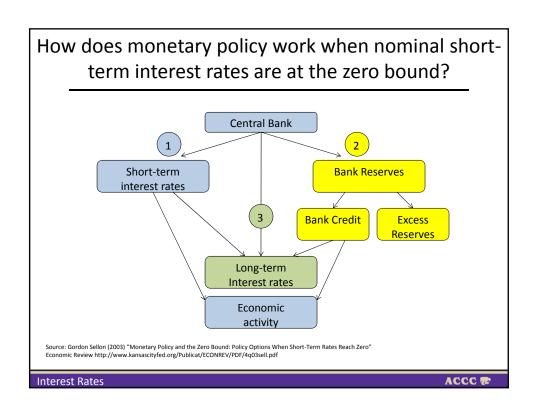
- Difficult to definitively argue causality
   Effects of the Fed on U.S. Ag
- 1. Interest rates
  - a. Arguably most significant driver
- 2. BIG balance sheet and bank excess reserves
  - a. Inflation
- 3. Access to credit
- 4. Value of the U.S. dollar
- 5. Farmland values

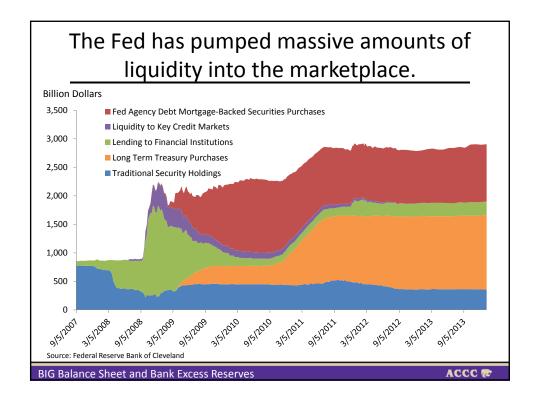
Effects of the Federal Reserve on U.S. Agriculture

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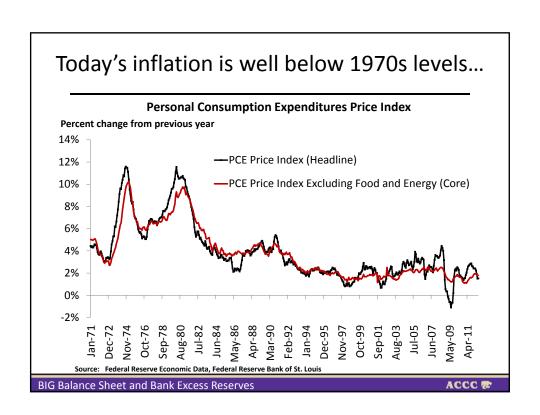
#### With interest rates at historically low levels, bank liquidity has surged. **Fed Funds Rate and Excess Reserves** To stimulate the economy, Billion Dollars the Federal Open Market 2,000 Committee (FOMC) dropped the Fed funds Upper Bound of Intended rate to the zero bound and Federal Funds Rate 1,500 pumped liquidity into the market (QE 1, 2 and 3). 1,000 With low interest rates, large amounts of liquidity and limited to no **Excess Reserves of** borrowing activity, excess 2 500 **Depository Institutions** reserves of depository institutions held at the Fed surged. 0 Ample funds are available for businesses and individuals BIG Balance Sheet, Bank Excess Reserves and Access to Credit ACCC 7

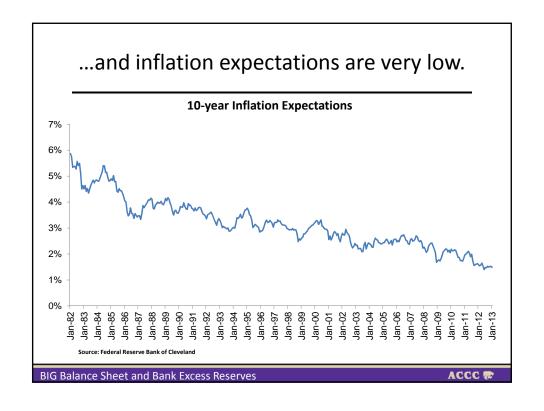
### Inflation?

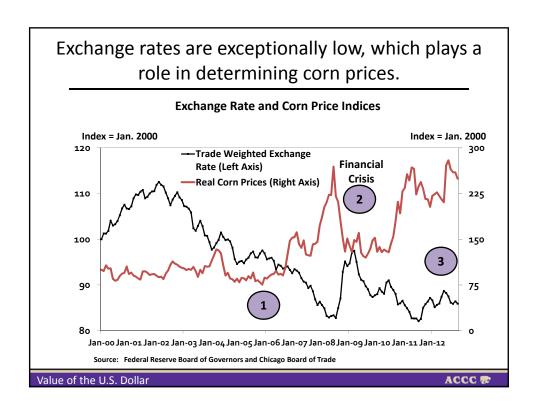
- Today, monetary policy is extremely accommodative
- Bank excess reserves are large and interest rates are low
  - Liquidity effect
- So, what about inflation and the expectations of future inflation?

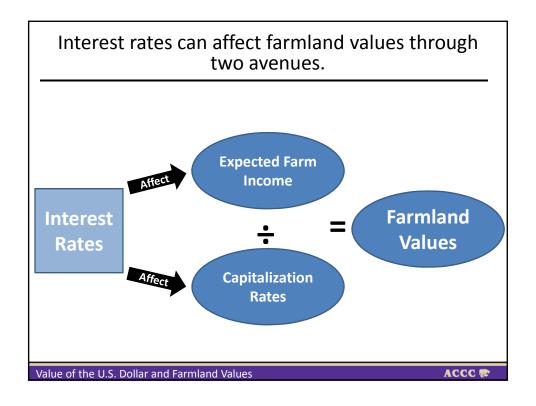
**BIG Balance Sheet and Bank Excess Reserves** 

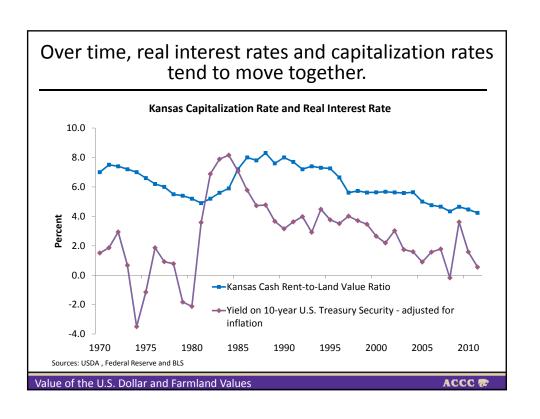
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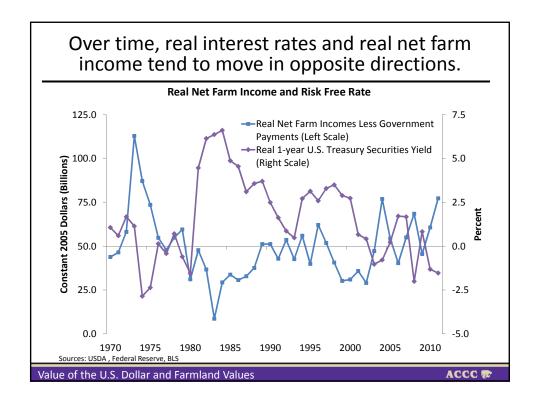


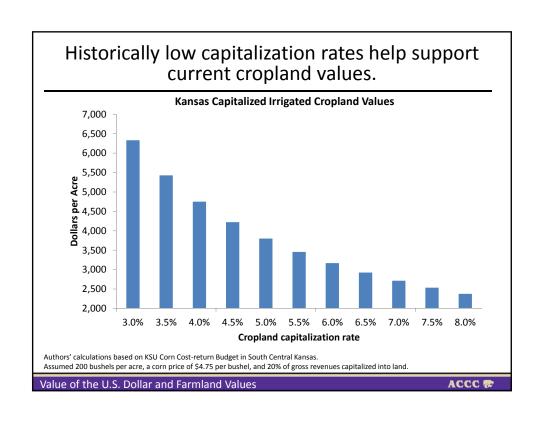


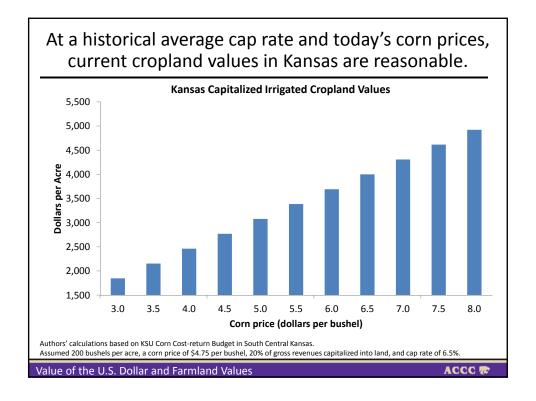












## Thank you.

## Questions?

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