Brian C. Briggeman
Economist
Federal Reserve Bank of Kansas City — Omaha Branch
www.kansascityfed.org/omaha
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# Macroeconomic, Credit, and Agricultural Issues



The views expressed are those of the author and do not necessarily reflect the opinions of the Federal Reserve Bank of Kansas City or the Federal Reserve System.

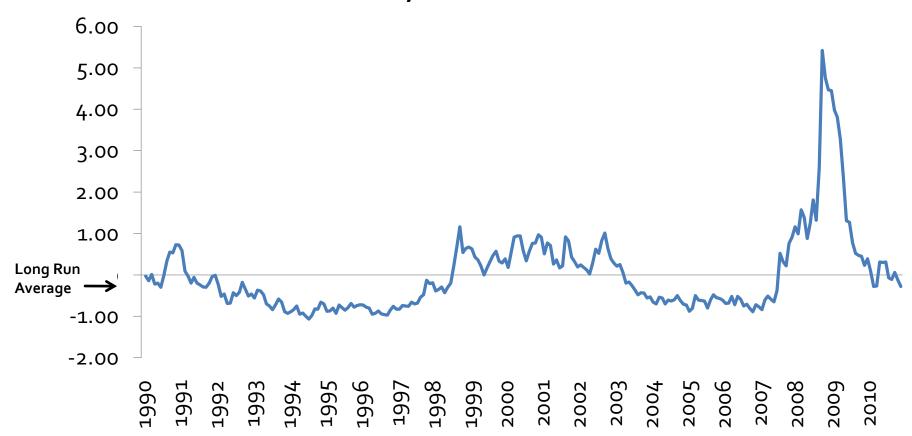
### Today's Roadmap

- The U.S. is recovering from a severe recession, but it is slow
  - Financial Crisis and Impact on Credit
  - Unemployment, real estate, and business activity
- Fiscal, Monetary, and International Challenges
- Are farmland values sustainable?

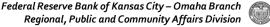


## Recently, financial stress has moved closer to its long-run average.

#### **Kansas City Financial Stress Index**

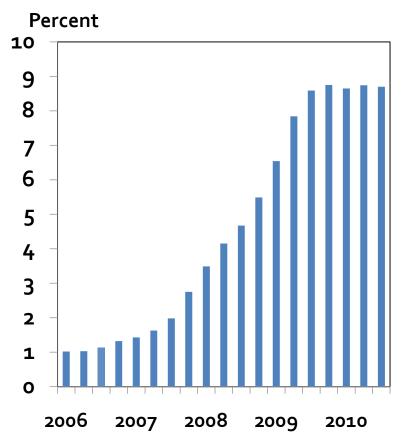


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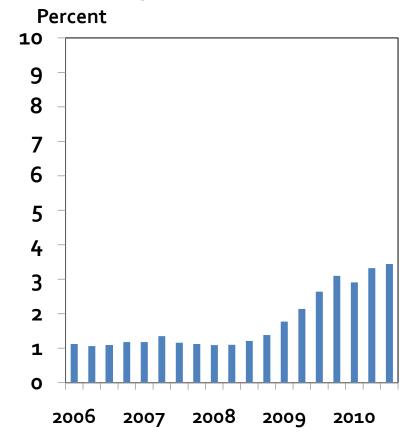


## However, delinquency rates on commercial real estate and agricultural loans remain elevated.

Delinquency Rate on Commercial Real Estate Loans



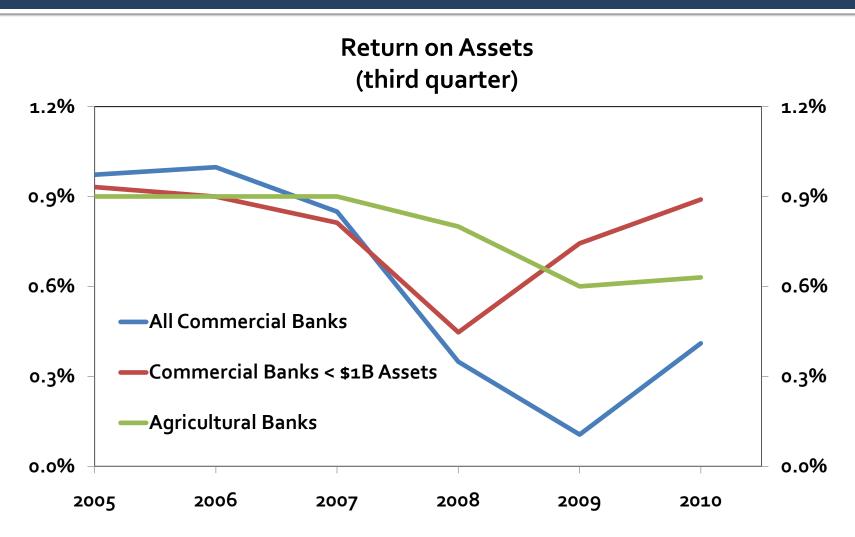
### Delinquency Rate on Agricultural Loans



Source: Federal Reserve Board of Governors



#### Bank profit margins have rebounded.



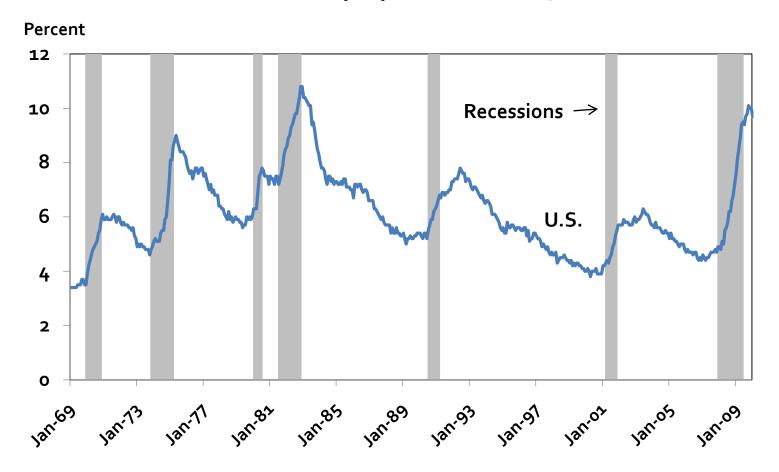


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## An elevated unemployment rate is another reason for a slow recovery (limited demand).

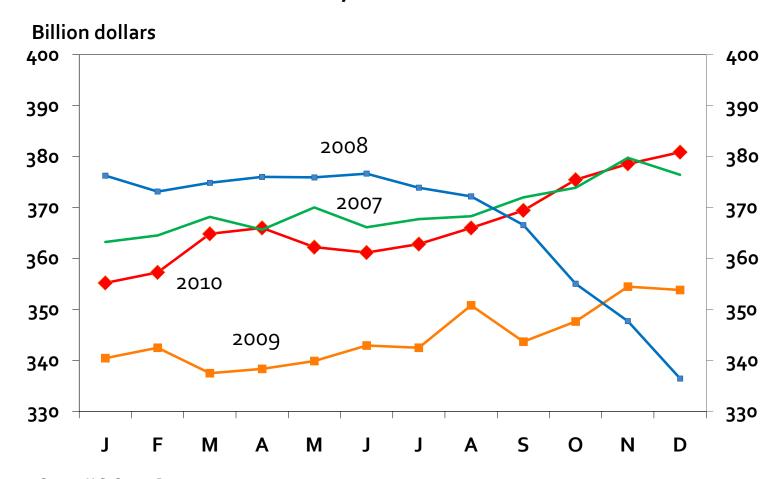
U.S. Unemployment Rate (U<sub>3</sub>)





#### U.S. consumers are spending money.

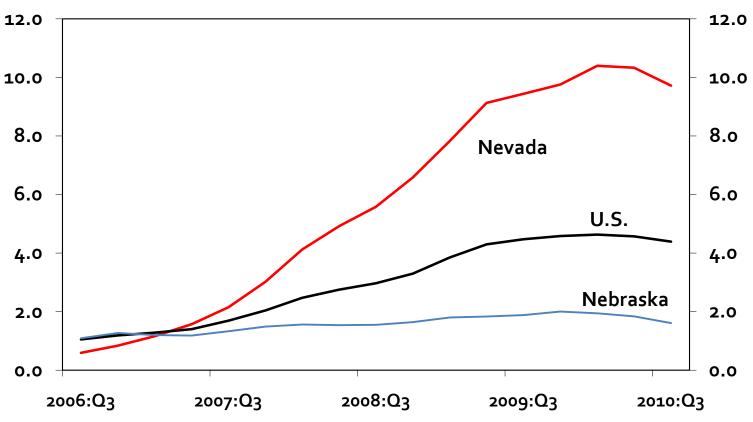
U.S. Monthly Retail and Food Sales



#### Home foreclosure inventories have dipped.

#### **Home Foreclosure Inventory**

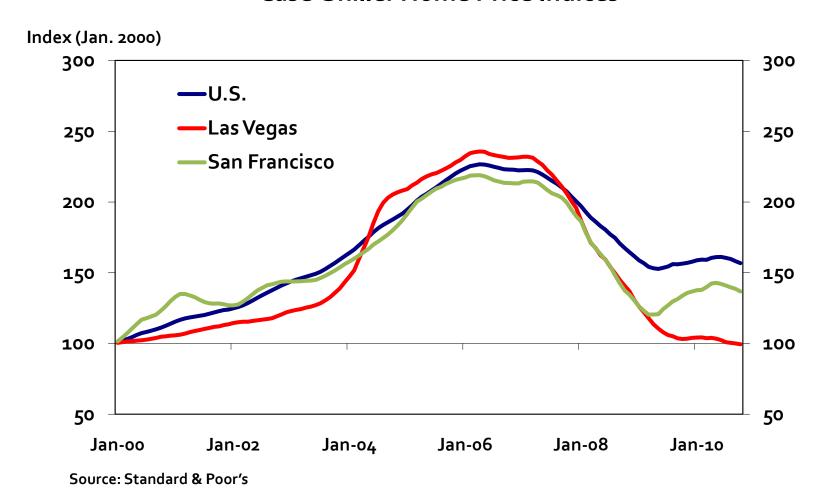
#### Percent of loans serviced



Source: Mortgage Bankers Association

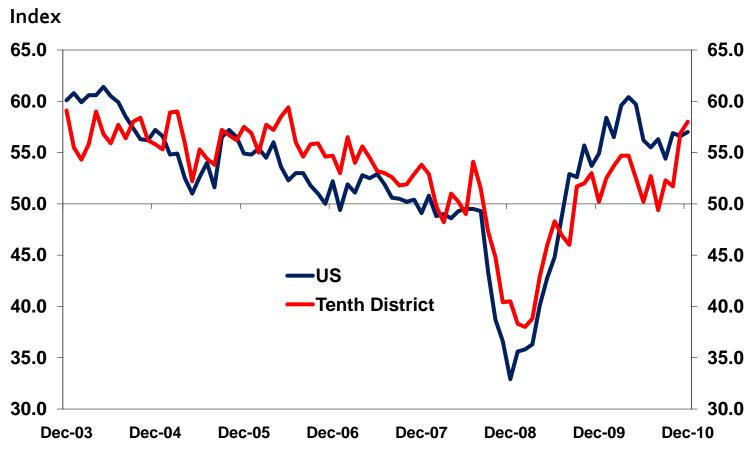
## Home prices have dropped, and may be forming a bumpy bottom.

#### Case-Shiller Home Price Indices



### Manufacturing activity has strengthened.

#### U.S. and Tenth District Manufacturing Production Indices

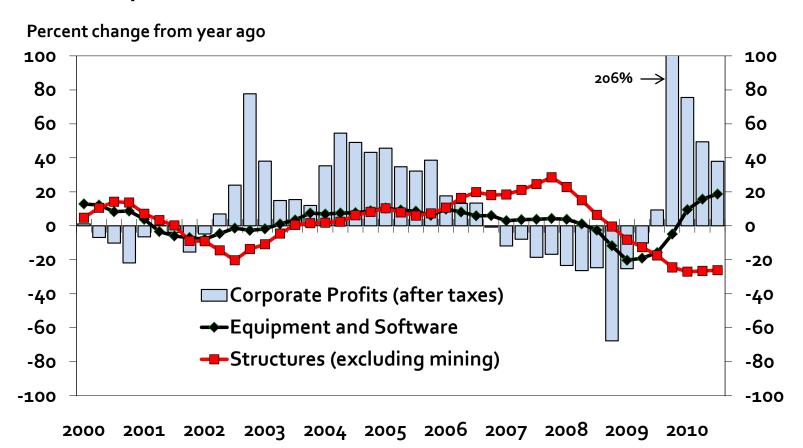


Source: Institute of Supply Management and Federal Reserve Bank of Kansas City



## Corporate profits and equipment and software investment have rebounded.

#### **Corporate Profits and Nonresidential Fixed Investment**



Source: Bureau of Economic Analysis

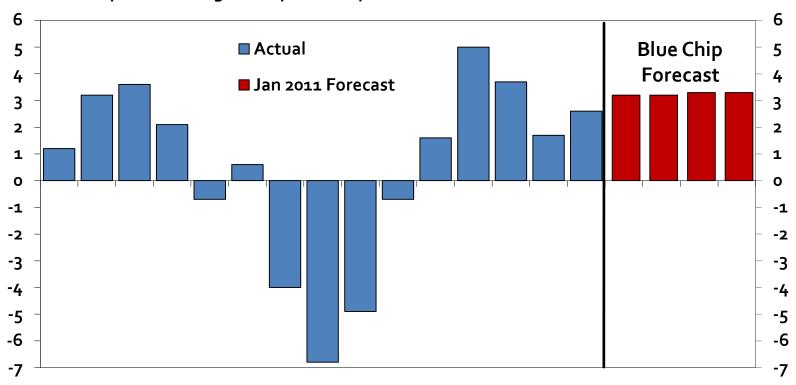
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## The economy is recovering from a very steep recession with stronger gains expected in 2011.

#### **Real GDP Growth**

Annualized percent change from previous quarter



2007:Q1 2007:Q3 2008:Q1 2008:Q3 2009:Q1 2009:Q3 2010:Q1 2010:Q3 2011:Q1 2011:Q3

Source: Bureau of Economic Analysis and Blue Chip Economic Indicators



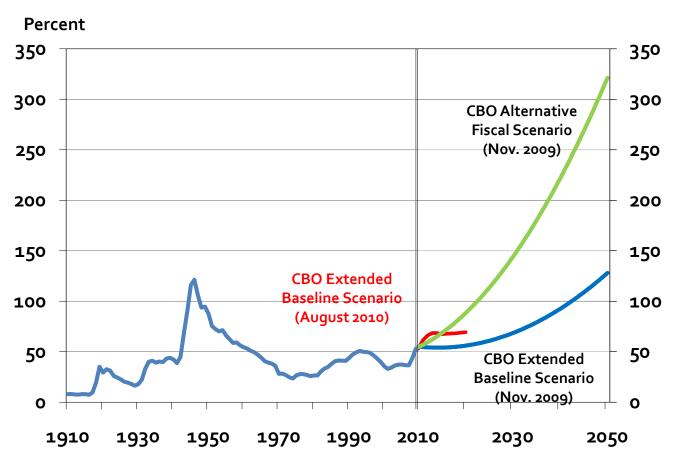
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### How will rising federal debt levels affect longterm economic conditions?

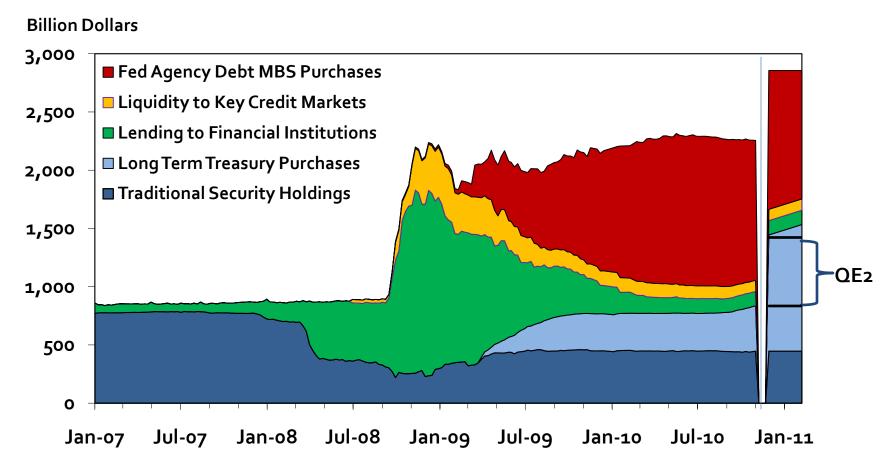
U.S. Debt as a Percent of GDP



Source: Congressional Budget Office

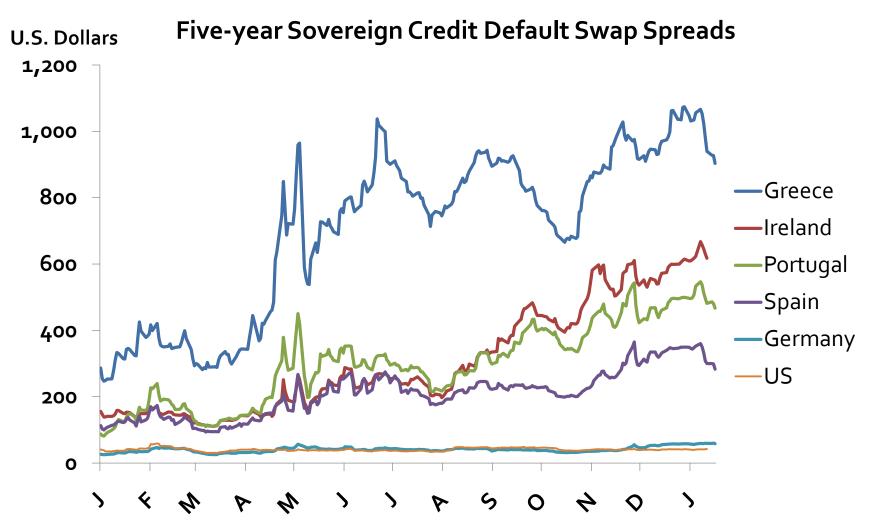
# When the Federal Reserve decides to exit from quantitative easing (QE) policy, what challenges might agriculture face?

#### **Federal Reserve Balance Sheet: Assets**



Source: Federal Reserve Bank of Cleveland

## What does the Eurozone Sovereign Debt Crisis mean for the U.S. economy and agriculture?





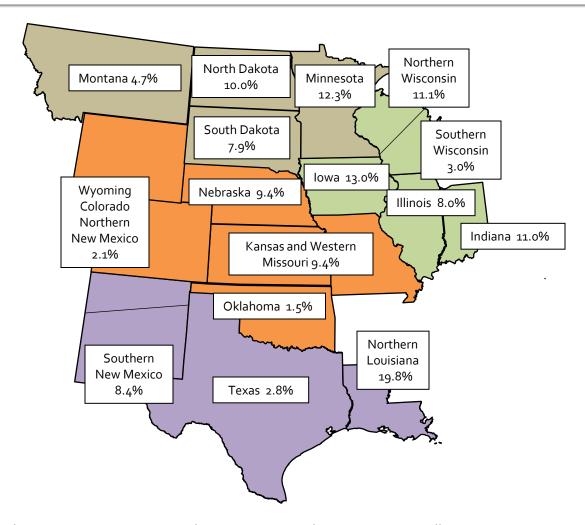
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#### Good Quality Farmland (Non-irrigated Cropland) Values

(Percent change Third Quarter 2009 to Third Quarter 2010)



Source: Federal Reserve District Surveys (Chicago, Minneapolis, Kansas City, Dallas)



### **Capitalized Revenues from Corn Production**

Land values should equal capitalized revenues

**Land Values = Expected Revenues** 

**Capitalization Rate** 

Assumptions:

Corn Price: \$5.00 per bushel

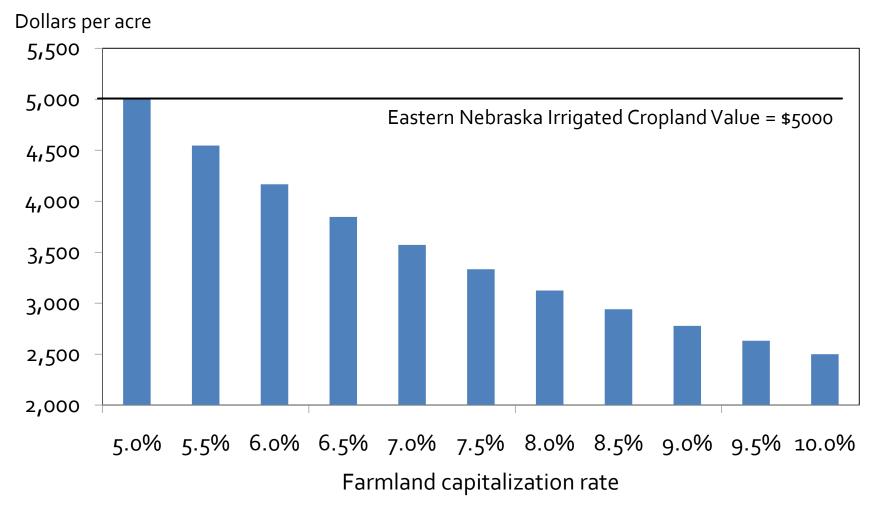
25% of gross revenues go to land

	Yield (bushel per acre)	
	150 bushels	200 bushels
Capitalization rate		
5%	3750	5000

Note: Nebraska irrigated corn yield 198 bushels per acre (2009 average) U.S. average annual price \$5.20 per bushel (2010 average)

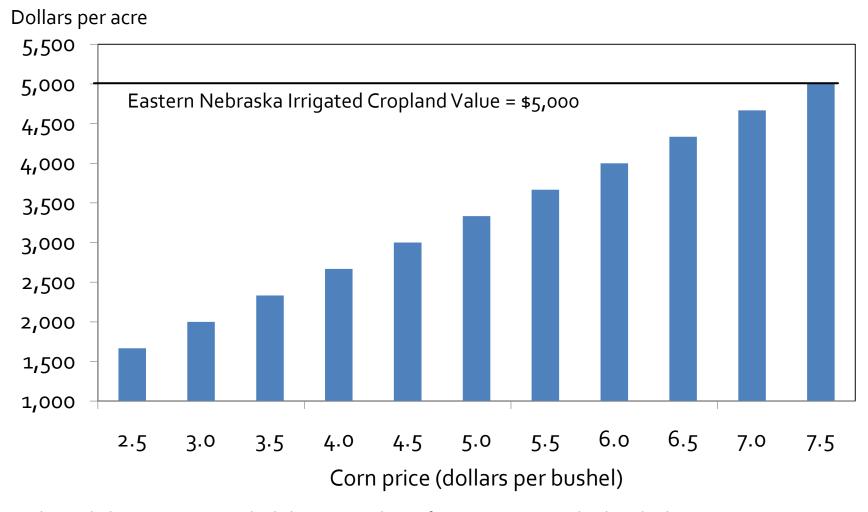


## At \$5 per bushel corn, rising cap rates could slash cropland values.





# At a historical cap rate of 7.5 percent, record high corn prices are needed to justify current cropland values.





#### **Questions?**

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