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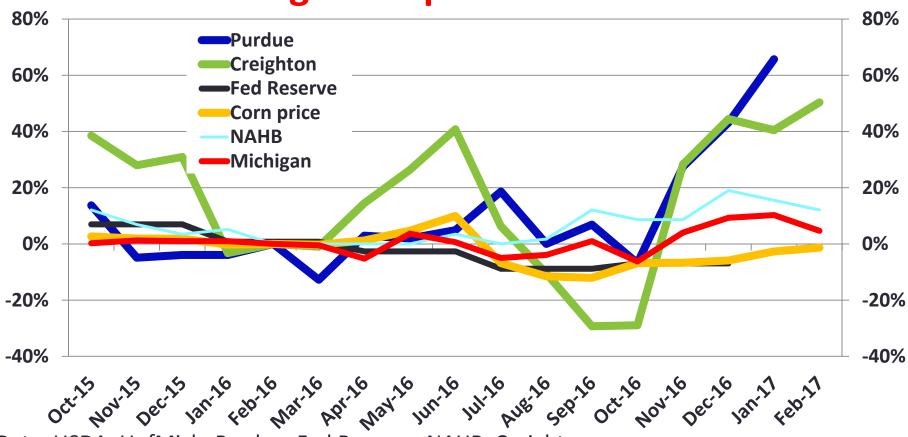


#### Presentation from the USDA Agricultural Outlook Forum 2017

United States Department of Agriculture 93<sup>rd</sup> Annual Agricultural Outlook Forum "A New Horizon: The Future of Agriculture"

February 23-24, 2017 Arlington, Virginia

#### Sentiment diverges compared to 2016



Data: USDA, UofMich, Purdue, Fed Reserve, NAHB, Creighton.

#### **2017 ISSUES**

#### 1. Current situation

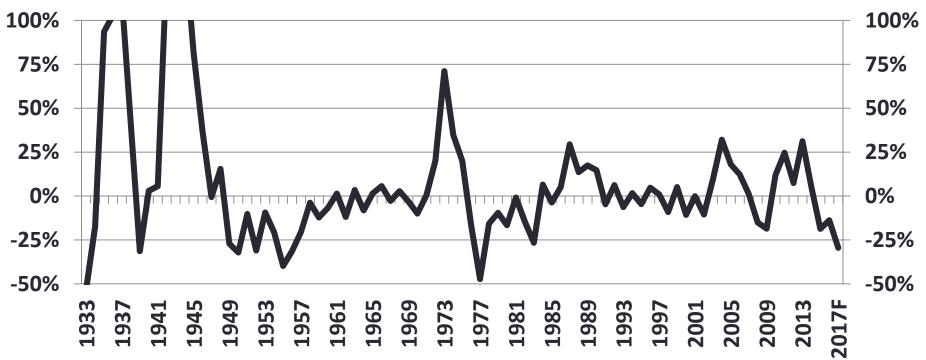
- Flat farm income, but debt-to-asset remains low
- Increasingly tight credit situation
- Land price adjustments
- Farm programs working with mixed results

#### 2. Outlook

- Prices flat
- Production up
- Trade up
- Food prices down

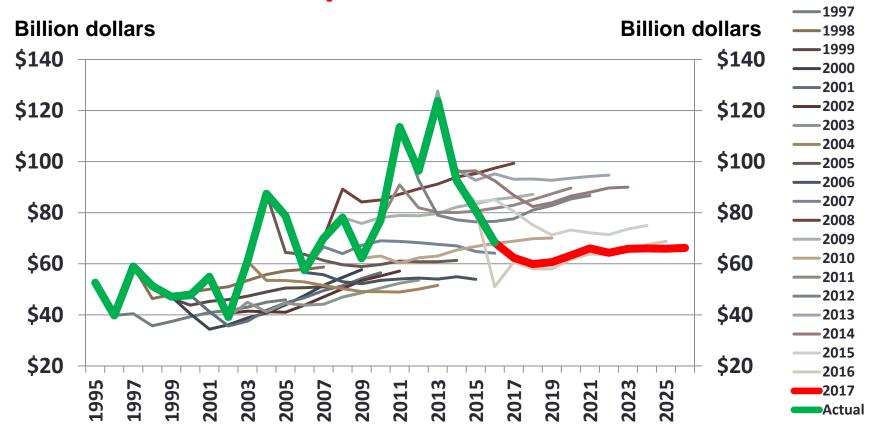
#### Real farm income down almost 30% since 2013

#### 4-yr % change in real farm income



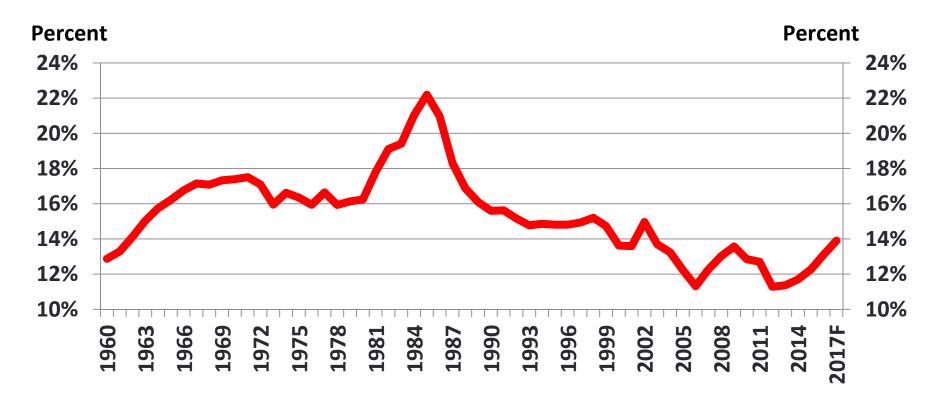


#### Net farm income expected to remain flat

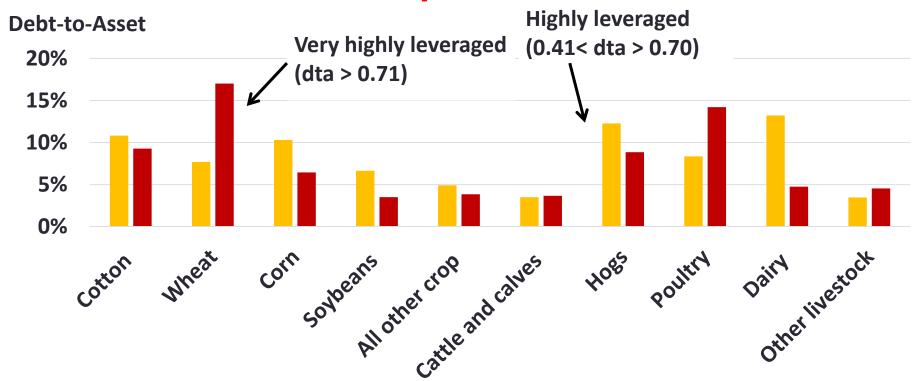


Data: USDA.

#### Debt-to-asset ratio remains low vs. 22% in 1985



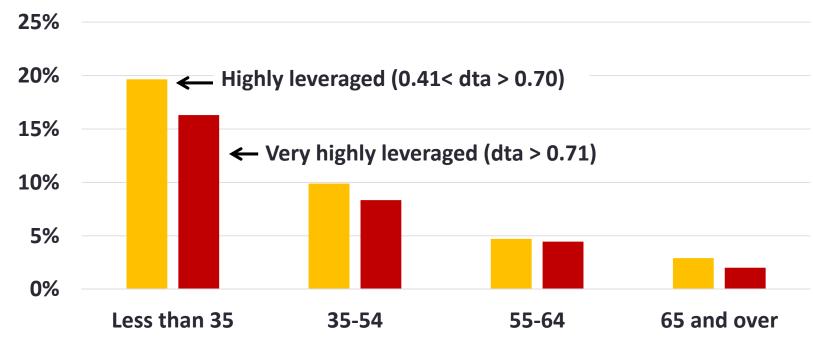
# About 1 in 5 wheat, cotton, hog, poultry businesses more vulnerable to low prices



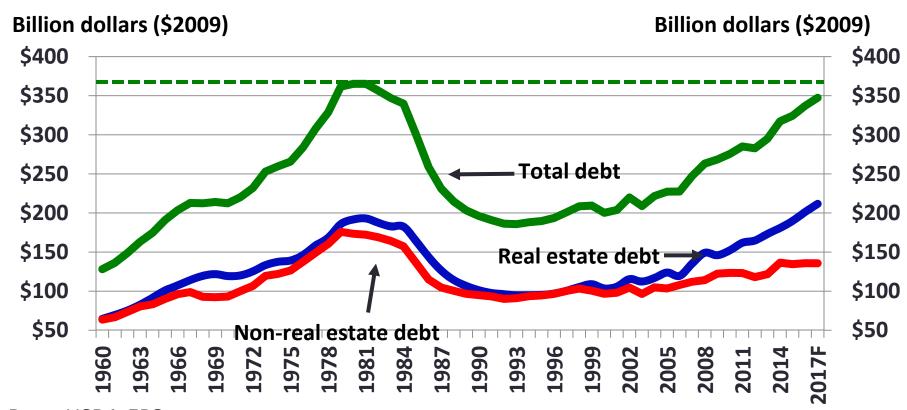


# More than one-third of young farmers are highly or very highly leveraged



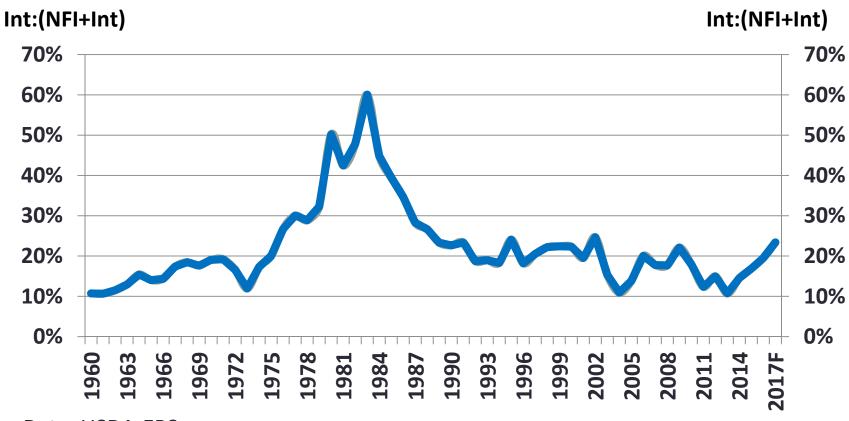


### Debt approaching early 80's peak



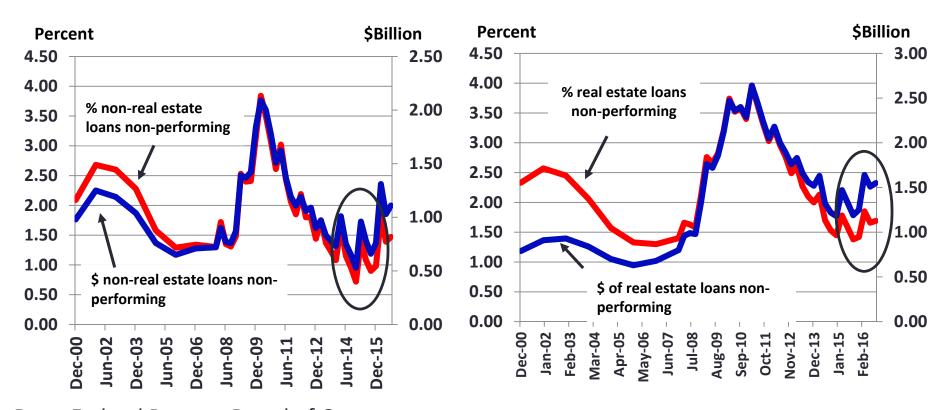


### ...but interest payments remain low





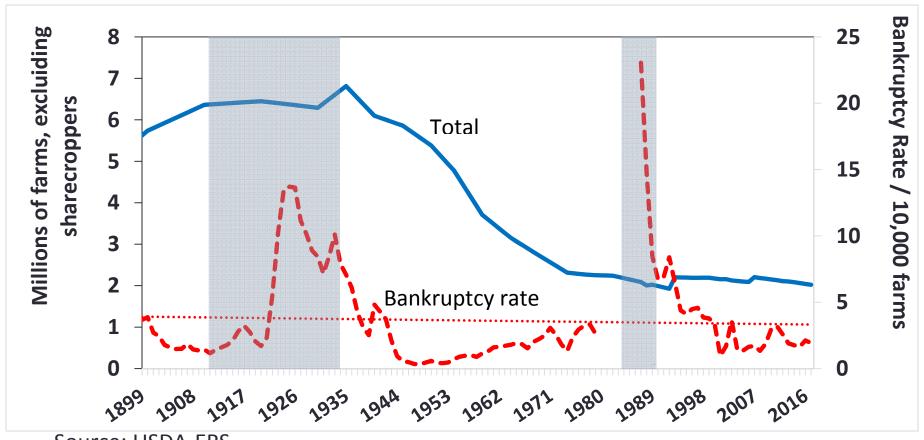
#### Loan repayment problems have begun to rise



Data: Federal Reserve Board of Governors.



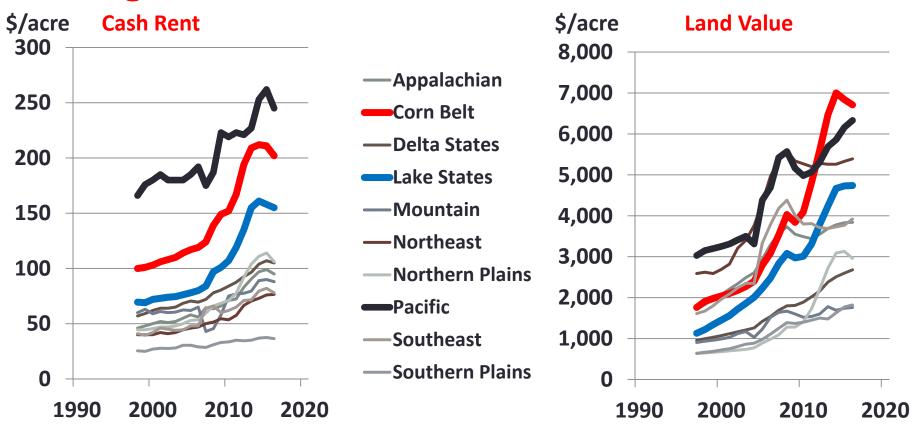
### ... but farm bankruptcy rates remain very low



Source: USDA-ERS.

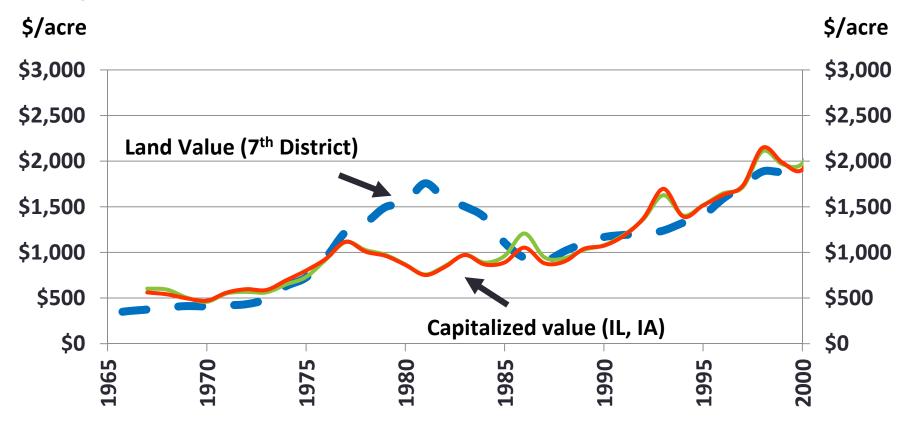


#### Falling rents ahead of land values



Data: USDA-NASS.

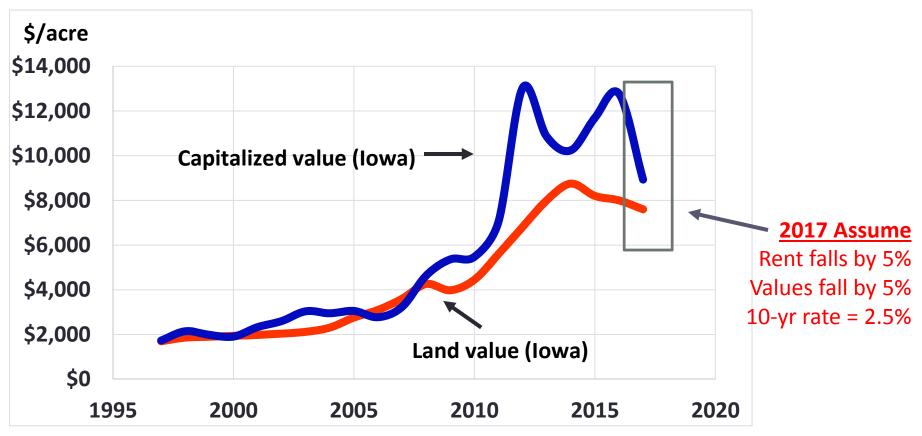
#### Capitalized cash rent value < land value in 1980



Data: USDA-NASS, Federal Reserve Board of Governors.



### Today, capitalized values > observed land values



Data: USDA-NASS.

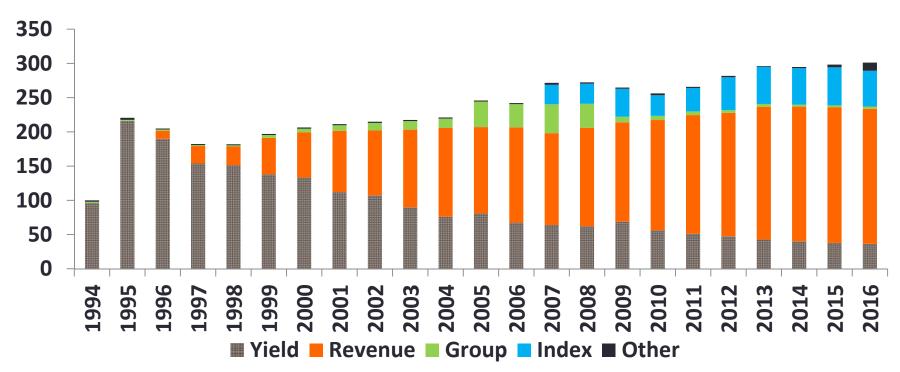
## Farm Bill programs are working with mixed results





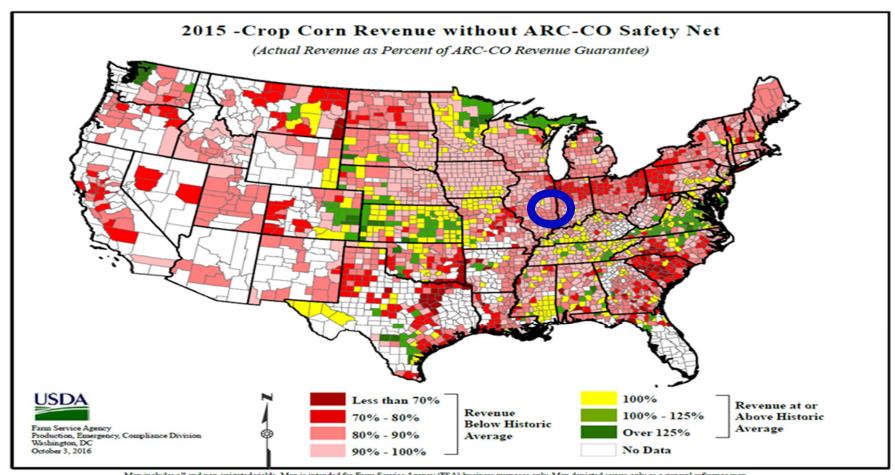
#### **Revenue insurance now > 70% of liabilities**

#### **Million Acres Insured**

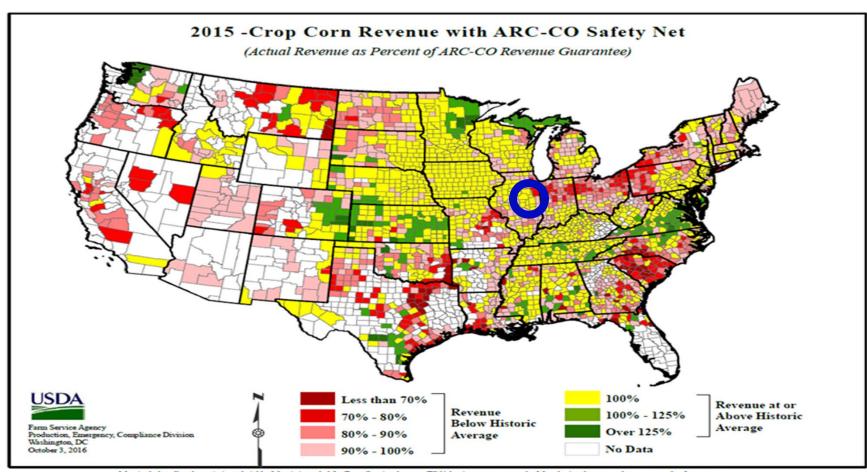


Source: USDA-ERS using RMA data.





Map includes all and non-irrigated yields. Map is intended for Farm Service Agency (FSA) business purposes only. Map depicted serves only as a general reference map.



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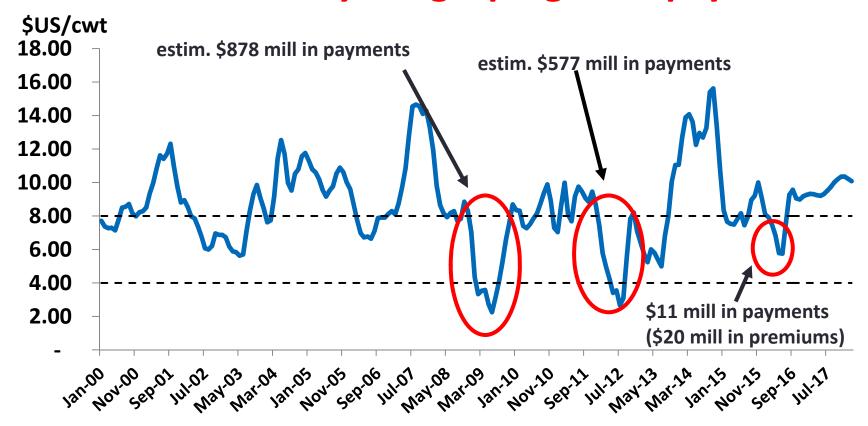
# 2015 example: Central Illinois farmer with corn base enrolled in ARC

	Lev guarantee	Yield bu/acre	Price \$/bu	Actual rev \$/acre	Payment \$/acre
Piatt	\$769	221	\$3.61	\$798	\$0
McLean	\$787	199	\$3.61	<b>\$718</b>	\$69

Data: USDA-FSA.



#### Premiums for the dairy margin program > payments



Data: USDA.

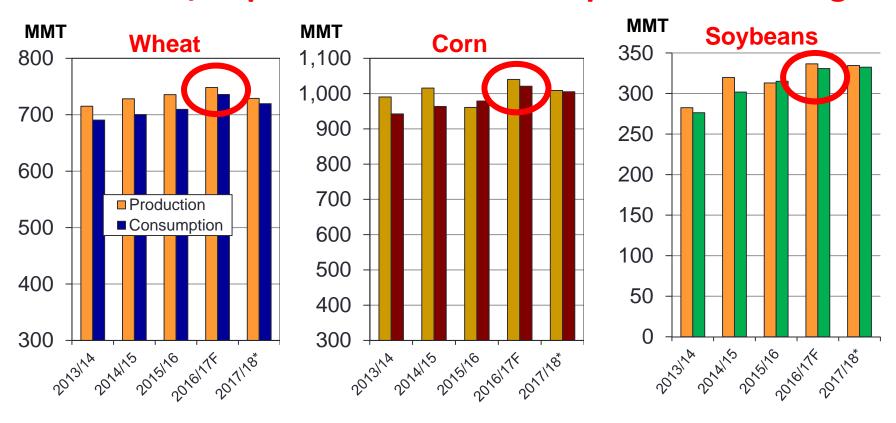


# **Outlook for Crops**





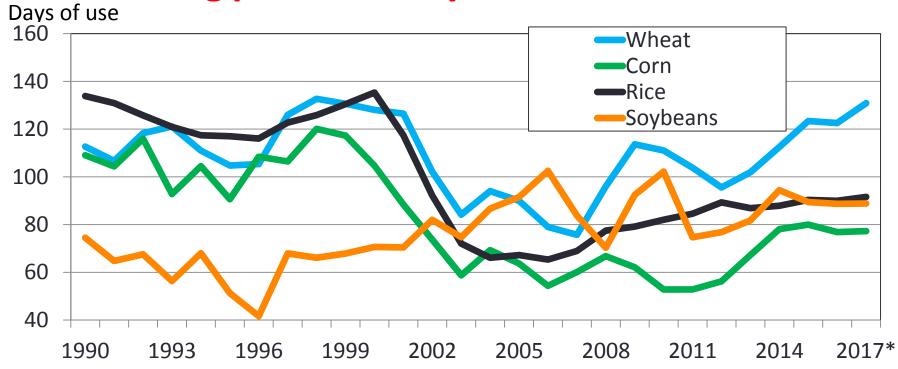
#### Global 2016/17 production and consumption at record highs



Data: USDA-OCE, USDA-FAS, \*FAPRI data used for 2017/18 global consumption.



# Global ending stocks remain above 2002/03, moderating price volatility



Data: USDA-OCE, USDA-FAS, \*FAPRI data used for 2017/18 global consumption.



### Prices expected to edge up into 2017/18

Crop	2012	2013	2014	2015	2016	2017F	%∆
Wheat (\$/bu)	7.77	6.87	5.99	4.89	3.85	4.30	11.7
Corn (\$/bu)	6.89	4.46	3.70	3.61	3.40	3.50	2.9
Soybeans (\$/bu)	14.40	13.00	10.10	8.95	9.50	9.60	1.1
Cotton (cents/lb)	72.50	77.90	61.30	61.20	69.00	65.00	-5.8
All Rice (\$/cwt)	15.10	16.30	13.40	12.20	10.50	10.70	1.9

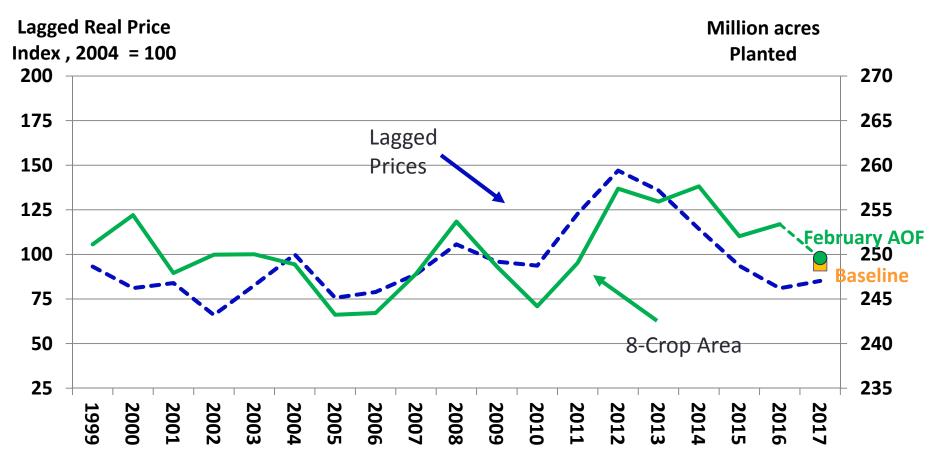
Data: USDA-OCE.

Red denotes record high.



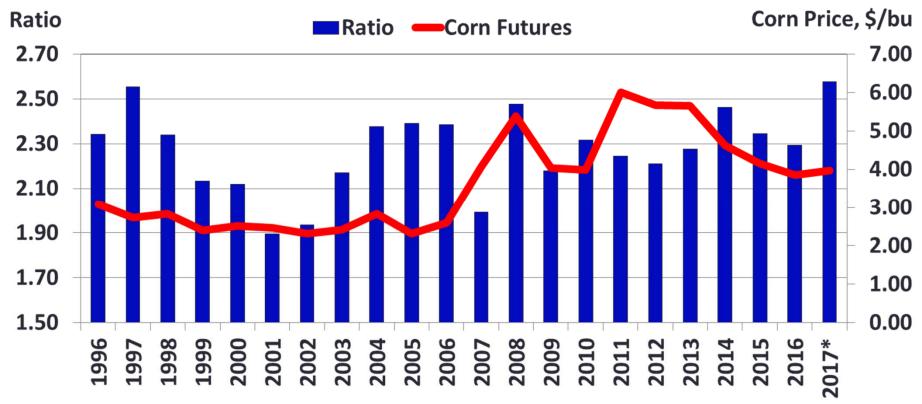
### **8-Crop Planting and Lagged Prices**

Data: USDA-OCE.





### **New Crop Soybean-to-Corn Ratio During February**



Data: USDA-OCE.



### Cropland area down again from last year

Crop (mil. acres)	2012	2013	2014	2015	2016	2017F	%∆
Corn	97.3	95.4	90.6	88.0	94.0	90.0	-4.3%
Soybeans	77.2	76.8	83.3	82.7	83.4	88.0	5.5%
Wheat	55.3	56.2	56.8	55.0	50.2	46.0	-8.3%
All cotton	12.3	10.4	11.0	8.6	10.1	11.5	14.2%
Other feedgrains	12.6	14.6	12.9	15.2	12.6	11.7	-7.1%
Rice	2.7	2.5	3.0	2.6	3.2	2.6	-17.4%
Total 8 crops	257.4	255.9	257.6	252.1	253.4	249.8	-1.4%
CRP	29.5	26.8	25.5	24.2	23.8	23.5	-1.3%
8 crops + CRP	286.9	282.7	283.1	276.3	277.2	273.3	-1.7%

Source: USDA-OCE. All cotton, includes both upland and ELS cotton.

# **Outlook for Livestock and Dairy**





# Beef, pork, poultry, and milk production higher in 2016 and 2017

Item	2012	2013	2014	2015	2016	2017F	%∆		
Billion pounds									
Beef	25.9	25.7	24.3	23.7	25.2	26.0	3.1		
Pork	23.3	23.2	22.8	24.5	24.9	26.2	4.9		
Broilers	37.0	37.8	38.6	40.0	40.7	41.5	2.1		
Total <sup>1</sup>	93.0	93.3	92.2	94.6	97.6	100.6	3.1		
Billion pounds									
Milk	200.6	201.2	206.1	208.6	212.5	217.4	2.3		

Data in red denote record levels.

Source: USDA-OCE.

<sup>&</sup>lt;sup>1</sup> Total red meat and poultry



# Cattle and hog prices to come down in 2016 and 2017, but broilers and dairy turn up in 2017

Item	2012	2013	2014	2015	2016	2017F	%∆		
		Dollars per cwt							
Steers	122.86	125.89	154.56	148.12	120.86	112.00	-7.3		
Hogs	60.88	64.05	76.03	50.23	46.16	43.50	-5.8		
Broilers	86.6	99.7	104.9	90.5	84.3	84.8	0.5		
Milk	18.52	20.05	23.97	17.12	16.24	18.05	11.1		

Prices in red denote record levels.

Source: USDA-OCE.

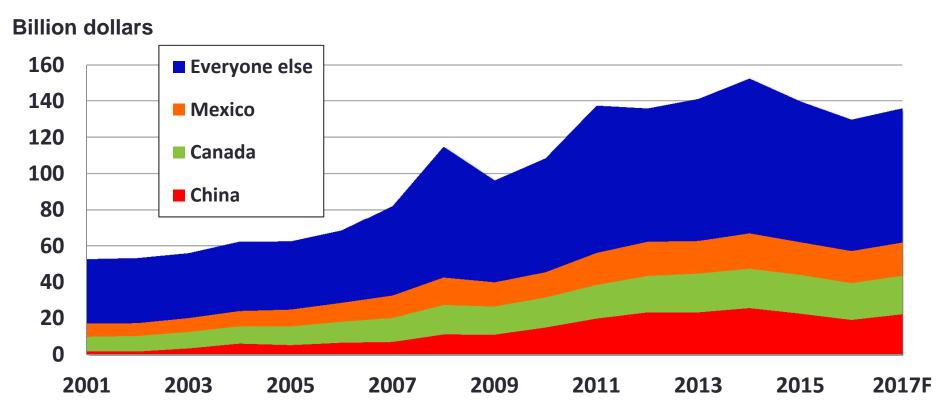


http://www.chinadaily.com.cn/business/2015-09/26/content\_21987498.htm

Marketing



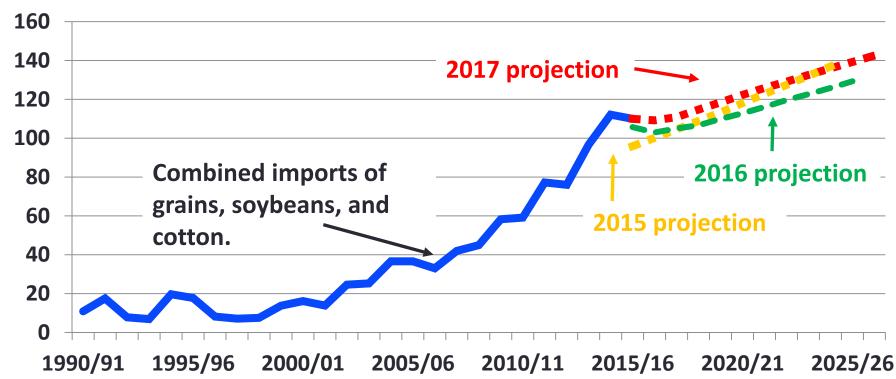
### U.S. Agricultural exports dominated by top three



Data: USDA.

### China imports to rise boosted by soybeans

#### Million metric tons



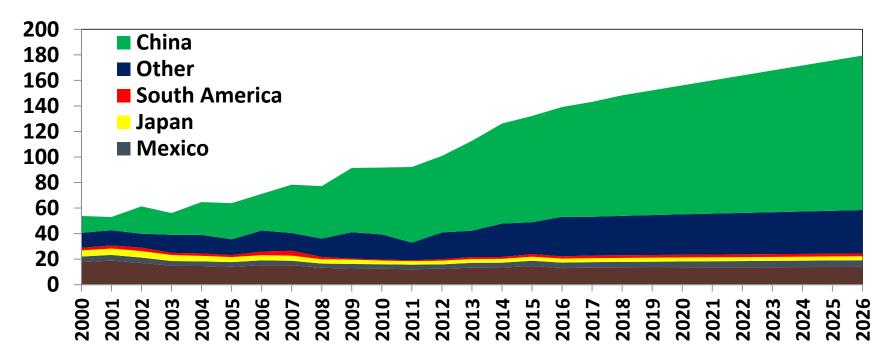
Data: USDA-OCE.



#### Continued growth in China soybean imports expected

#### **Global Soybean Imports**

Million Metric Tons

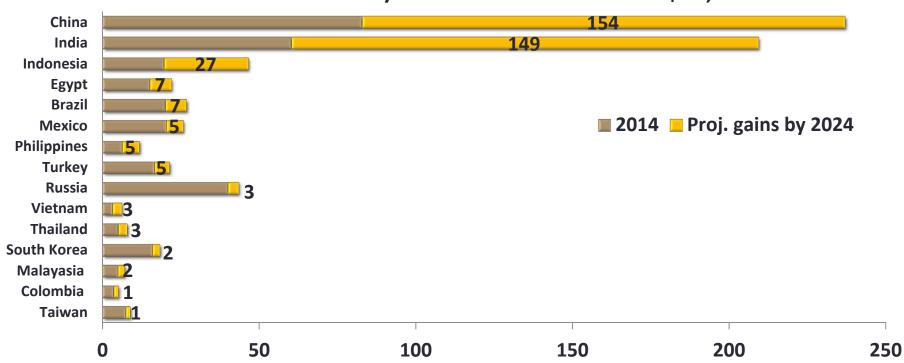


Data: USDA.



#### "Middle Class" grows 119% From 2014 Levels

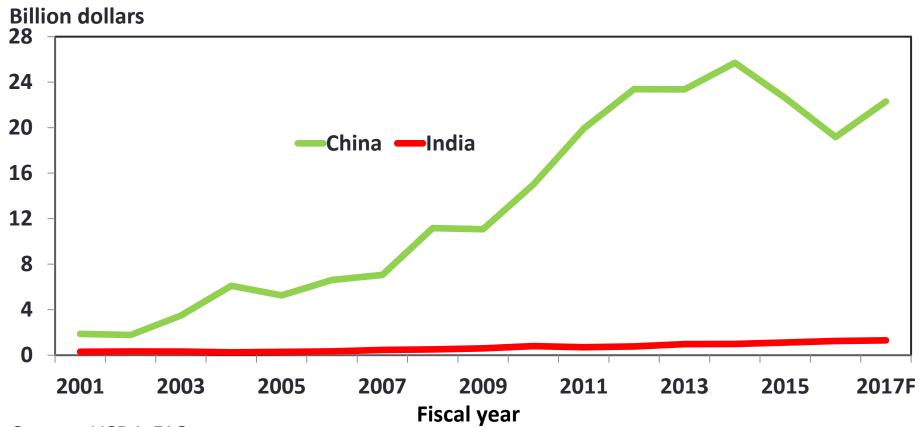
#### Million Households w/ Real PPP incomes > than \$20,000



Source: Global Insight's Global Consumer Markets data as analyzed by USDA-FAS.



### **U.S.** Ag Exports to China and India



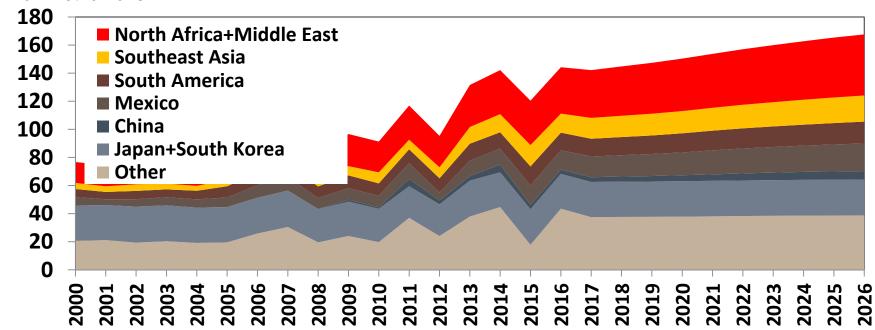
Source: USDA-FAS.



# Corn trade driven by growth in North Africa, Middle East and Southeast Asia

#### **Global Corn Imports**





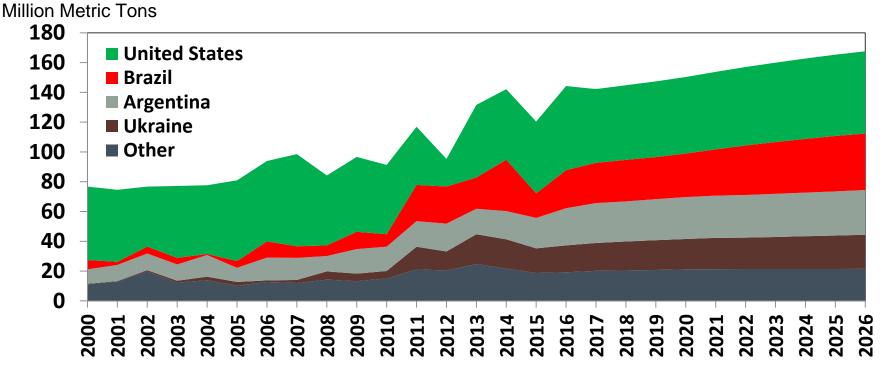
Data: USDA.



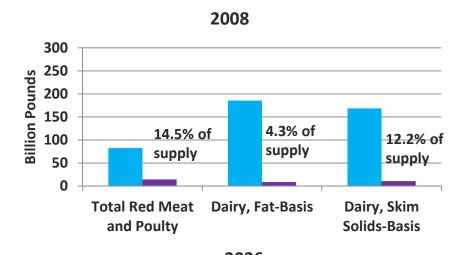
#### U.S. remains #1 corn exporter

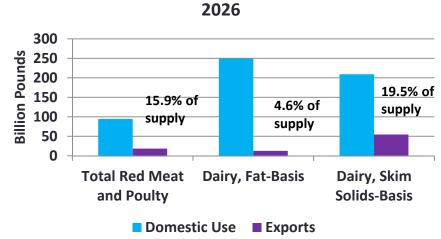
#### **Global Corn Exports**



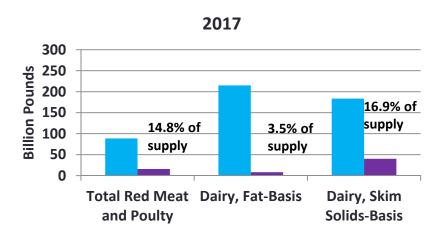


Data: USDA.





# **Exports share of use grows over time**

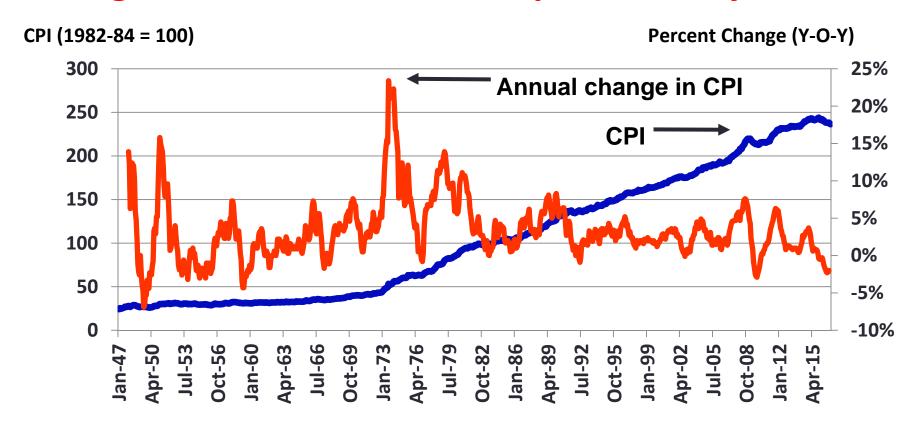


### **Outlook for Food Prices**





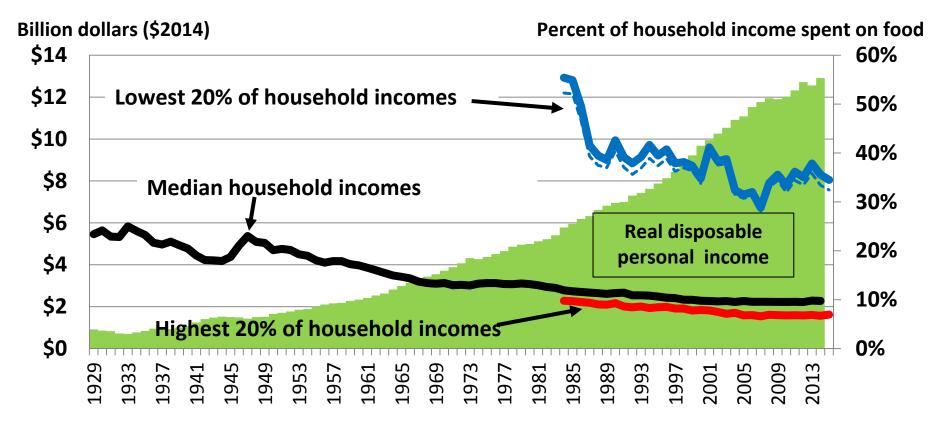
#### Longest sustained fall in food prices in 60 years



Data: BLS.



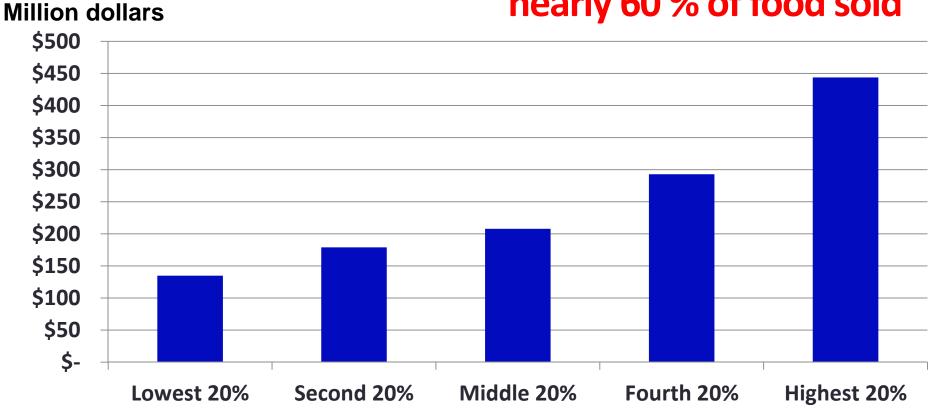
#### Low income household spending 35% on food



Data: USDA-ERS, BLS.



# Top 40 percent of households purchase nearly 60 % of food sold



Data: BLS.

#### **Conclusion**

- 1. Net farm income is flat and likely to remain flat until stocks-to-use starts to fall.
- 2. Premium of cash rents to land values likely to close with lower rents and values.
- 3. The soybean:corn ratio suggests more acres of soybeans and fewer to corn. Overall planted area is likely down by 3.6 million acres.
- 4. Record meat, poultry and dairy production will look to export markets.
- 5. China demand grows, while opportunities in other developing countries beckon.
- 6. Food inflation likely to be very low in aggregate:
  - continued marketing opportunities available to higher income households.
  - Low food prices remain important for millions of households.