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Presentation from the USDA Agricultural Outlook Forum 2017

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

February 23-24, 2017 Arlington, Virginia



U.S. Farm Income and Financial Outlook for 2017

Ag Outlook Forum February 23, 2017

Presented by Kevin Patrick



Farm sector summary

2+ million farms

900+
million acres

million people living in farm households

Source: Farm Income and Wealth Statistics Data Product & Agricultural Census







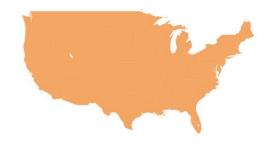


Data and Analysis

Farm Sector Income and Wealth Statistics







Historical State Estimates

Historical National Estimates

National Forecasts

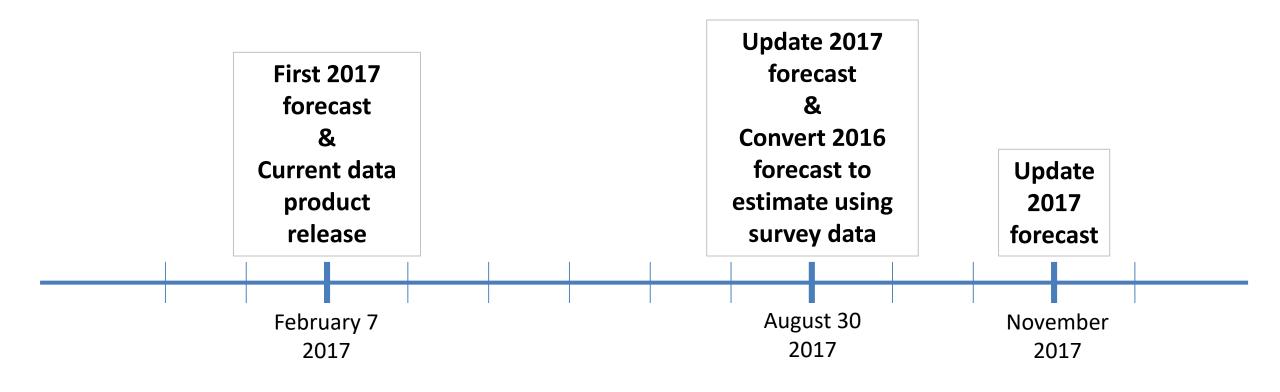
Reports: http://www.ers.usda.gov/data-products/farm-income-and-wealth-statistics







Farm Sector Income and Wealth Statistics Timeline



Data product updated 3 times per year

Recent Release: February 7, 2017

Next Release: August 30, 2017









Farm sector metrics

Profitability

Net cash income and Net farm income

2017 forecast: Mixed

Prior 5-year trend: Weaken

Key insights:

- Value of agricultural sector production is forecast to fall for the third straight year but the rate of decline has slowed.
- Total production expenses are forecast to remain stable, after falling for two straight years.

Solvency

Debt-to-asset ratio

2017 forecast: Weaken

Prior 5-year trend: Weaken

Key insights:

• Declining farm sector assets (down 1.1 percent) and rising debt (up 5.2 percent) are forecast to erode equity by 2.1 percent.

Liquidity

Working capital and Current ratio

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Key insights:

Current assets are forecast to decline by
 6.7 percent, while current debt is expected to grow by 5.5 percent.









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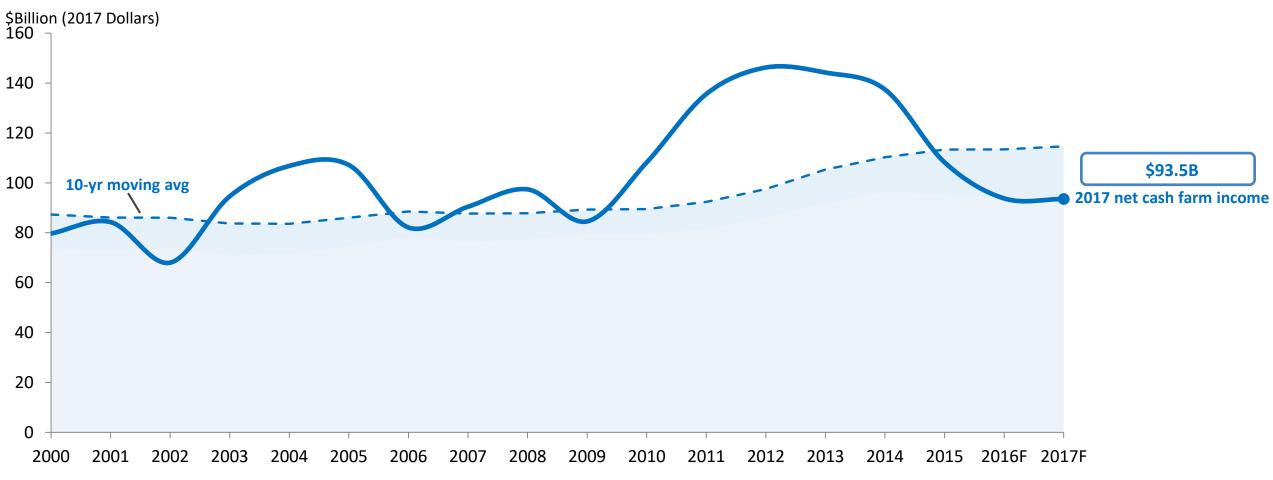








Net cash farm income forecast to fall below 10-year moving average



F=forecast

Values are adjusted using the chain-type GDP deflator, base year=2017.





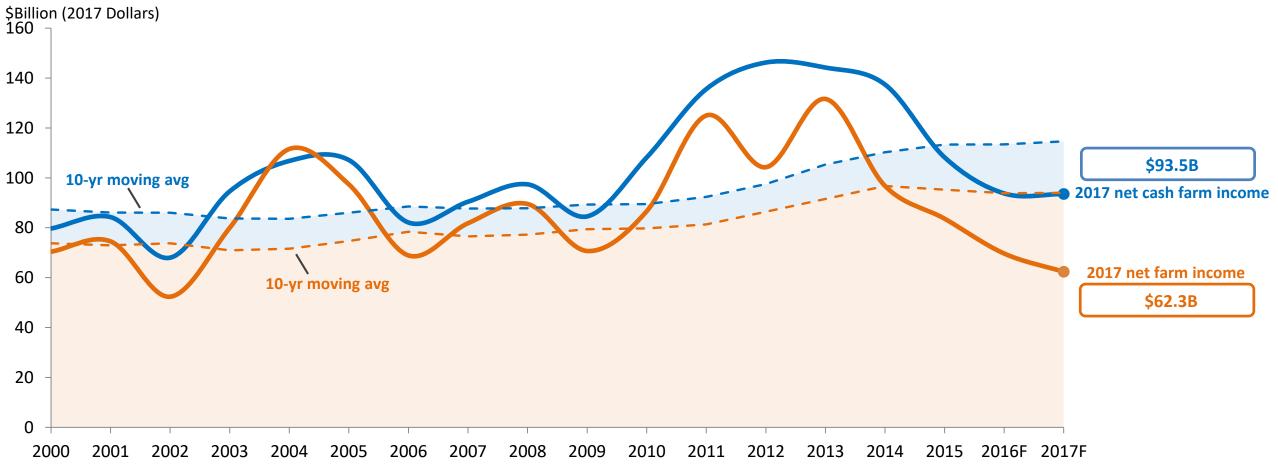








Net cash farm income and net farm income forecast to fall below their 10-year moving averages



F=forecast

Values are adjusted using the chain-type GDP deflator, base year=2017.





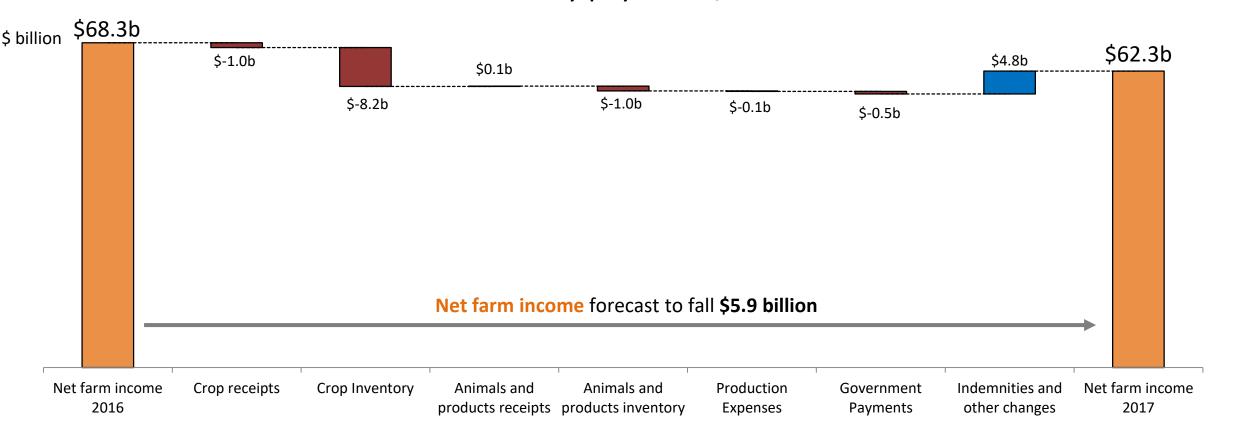








Net farm income forecast driven lower by changes in crop inventory, partially offset by higher Federal indemnity payments, relative to 2016



Note: Data from 2016 and 2017 are forecasts.

Source: USDA, Economic Research Service, Farm Income & Wealth Statistics.

Data as of February 7, 2017





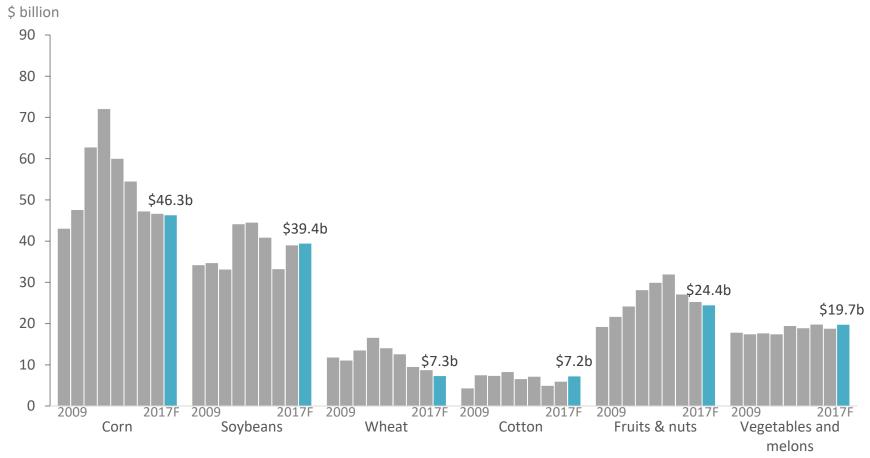








Crop receipts forecast stable for most major crops in 2017



F= Forecast.
Source: USDA, Economic Research Service, Farm Income and Wealth Statistics
Data as of February 7, 2017

Crop cash receipts forecast **flat.**

Corn and soybeans cash receipts also forecast steady.

Cotton receipts expected to grow **21.5%** on higher prices and production.

Wheat receipts forecast to 16.6% decline on lower prices and production.



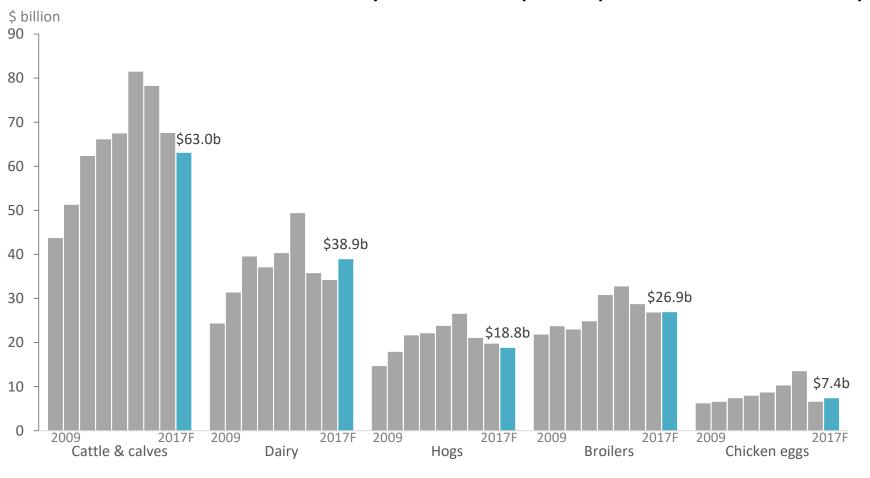








Cattle/calves and dairy cash receipts expected to move in opposite directions in 2017



Animal/product cash receipts forecast stable in 2017.

Cattle/calf receipts down **6.7%** on lower price forecast.

Dairy cash receipts forecast 13.7% higher on milk prices and production.



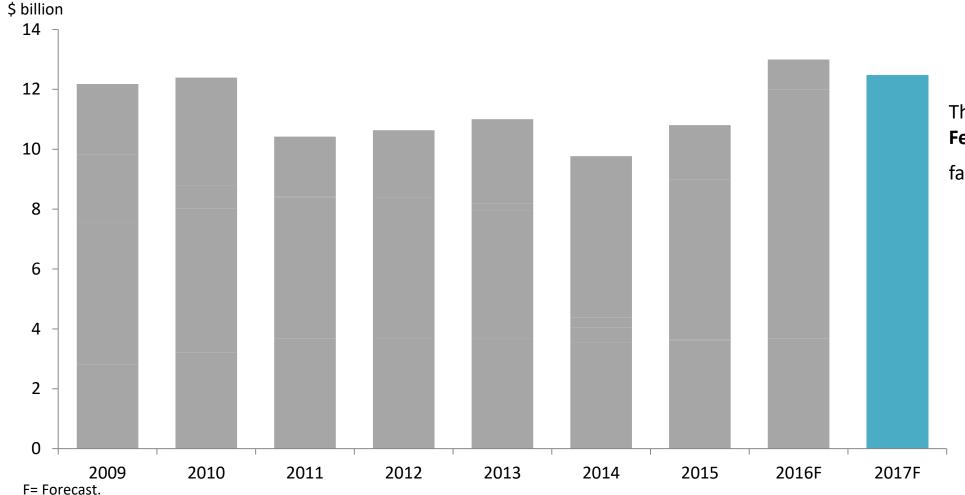








Federal Government payments forecast to decrease 4 percent to \$12.5 billion in 2017



This would be the second highest Federal Government payments to farmers in 10 years.

Federal Government payments include Agricultural Risk Coverage (ARC), Price Loss Coverage (PLC), Conservation, and other payments.

Source: USDA, Economic Research Service, Farm Income and Wealth Statistics using FSA, NRCS, and CCC data. Data as of February 7, 2017.







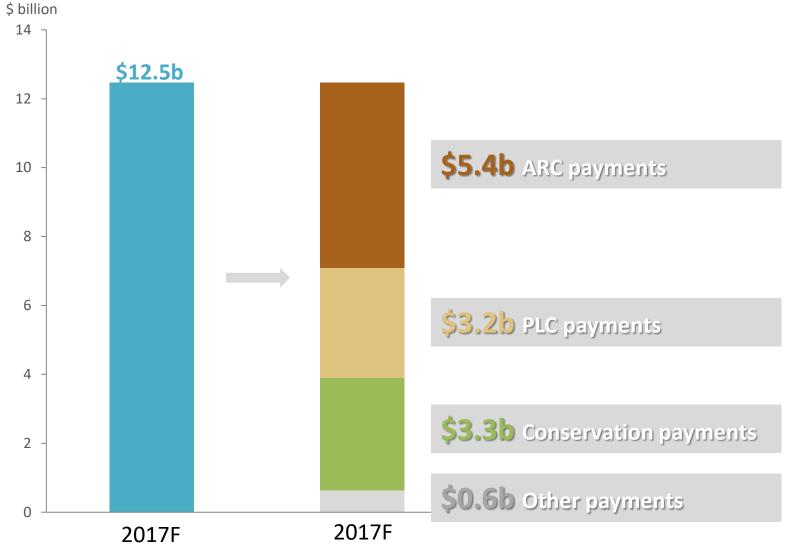








Agriculture Risk Coverage payments forecast to makeup largest share of payments in 2017



Majority of **ARC** payments expected for:
Corn

Majority of PLC payments expected for:

Wheat

Long-grain rice

Peanuts

F= Forecast.

Source: USDA, Economic Research Service, Farm Income and Wealth Statistics using FSA, NRCS, and CCC data. Data as of February 7, 2017.





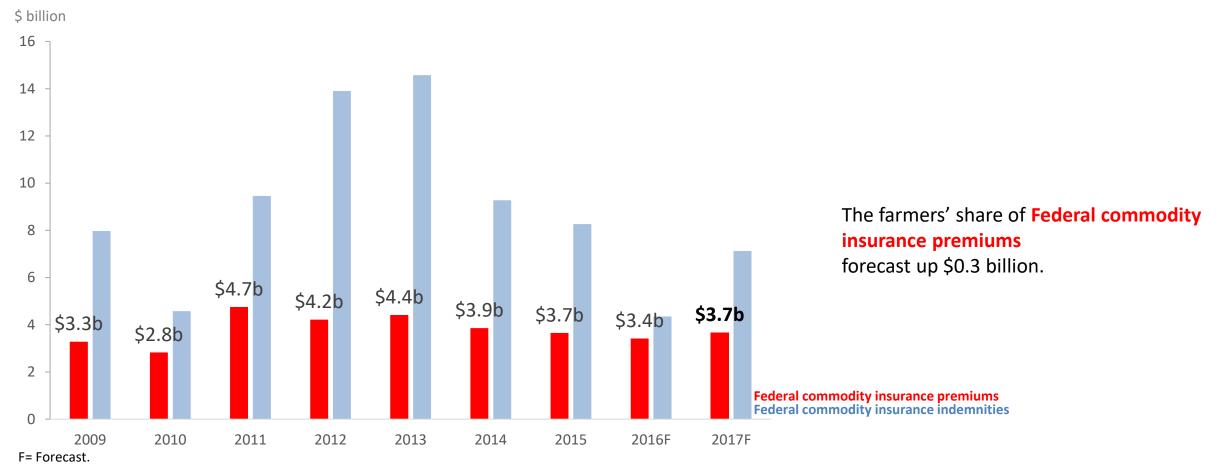








Federal commodity insurance premiums relatively stable over time and forecast stable in 2017







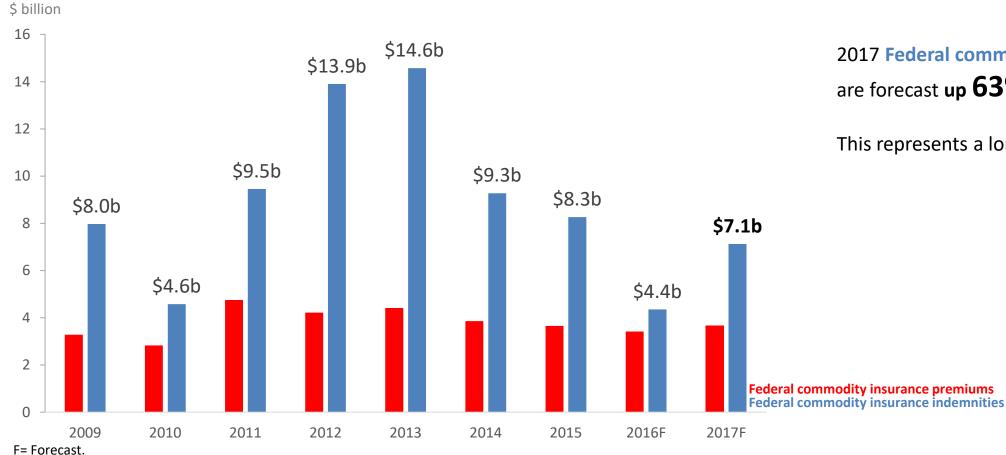








Federal commodity insurance indemnities much more volatile, forecast up in 2017



2017 Federal commodity insurance indemnities are forecast up **63%** (\$2.8 billion) from 2016.

This represents a long-run 20-year average.

Source: USDA, Economic Research Service, Farm Income and Wealth Statistics

Data as of February 7, 2017







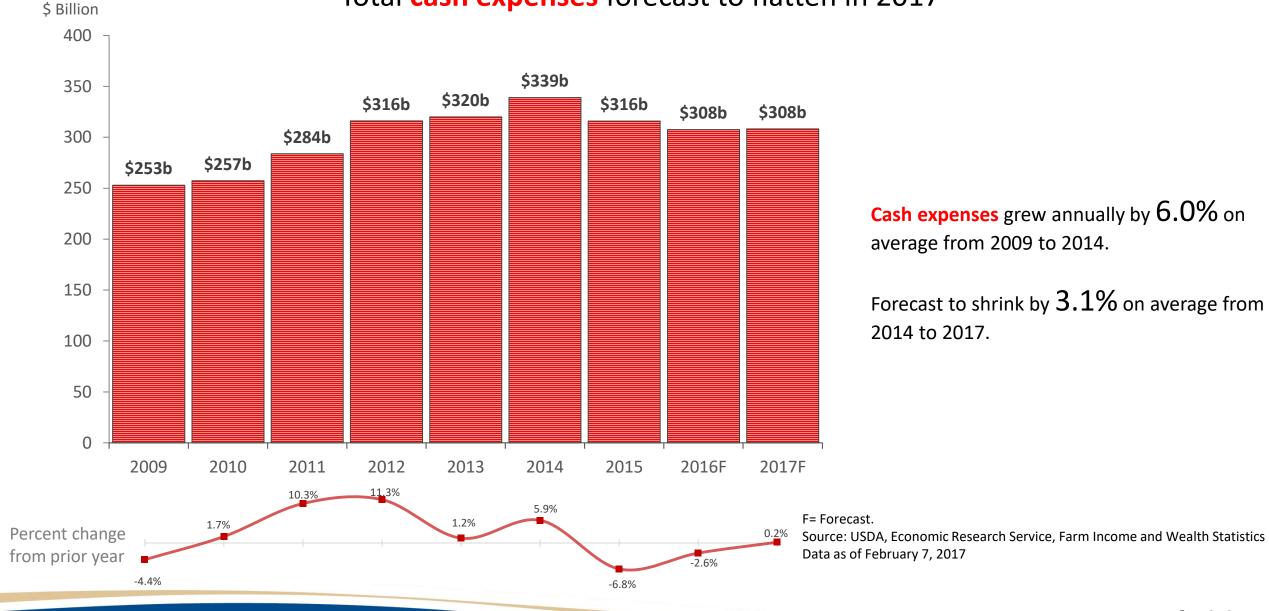








Total cash expenses forecast to flatten in 2017







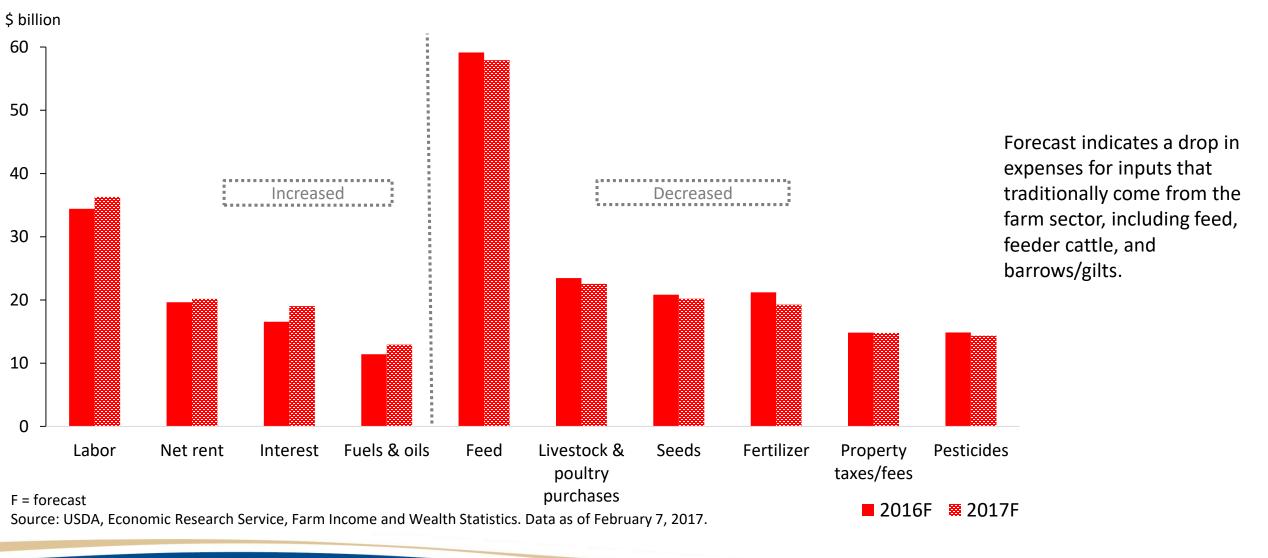








Reduced spending on livestock purchases and fertilizer projected to lead cash expenses lower











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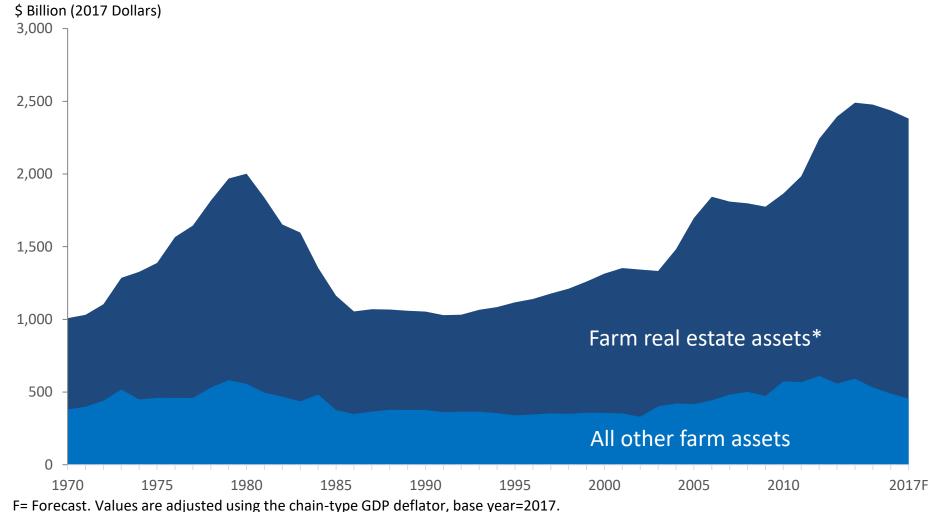








Farm real estate assets* represent the majority of the sector's assets



Inflation-adjusted value of farm assets forecast down 2.1% relative to 2015, including real estate (**down 1.8%**)







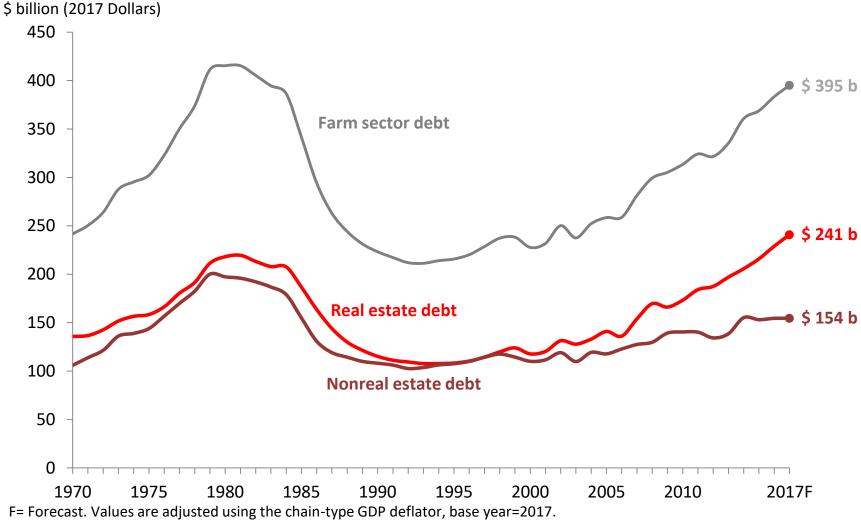






^{*}Real estate includes the value of land and buildings

Farm sector debt forecast to increase in 2017 driven by real estate debt



Nonreal estate debt peaked in 2014 and remained stable since.



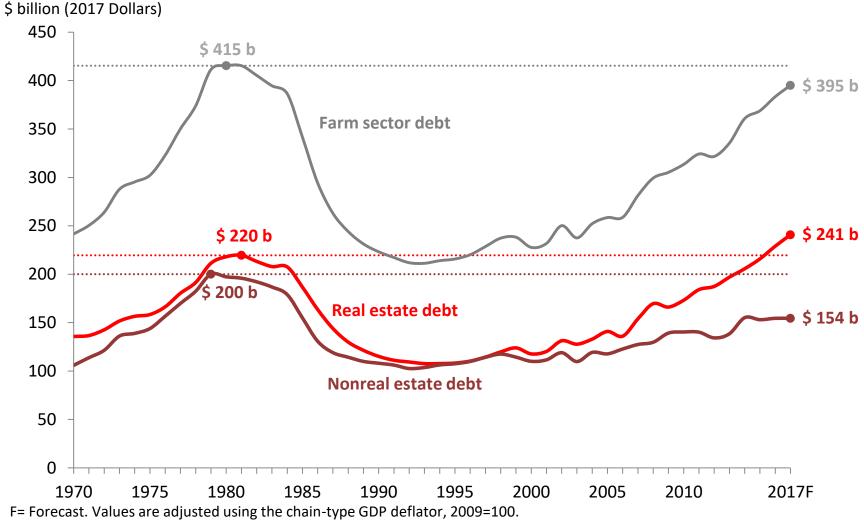








Farm real estate debt forecast above 1980's peak



Nonreal estate debt peaked in 2014 and remained stable since.



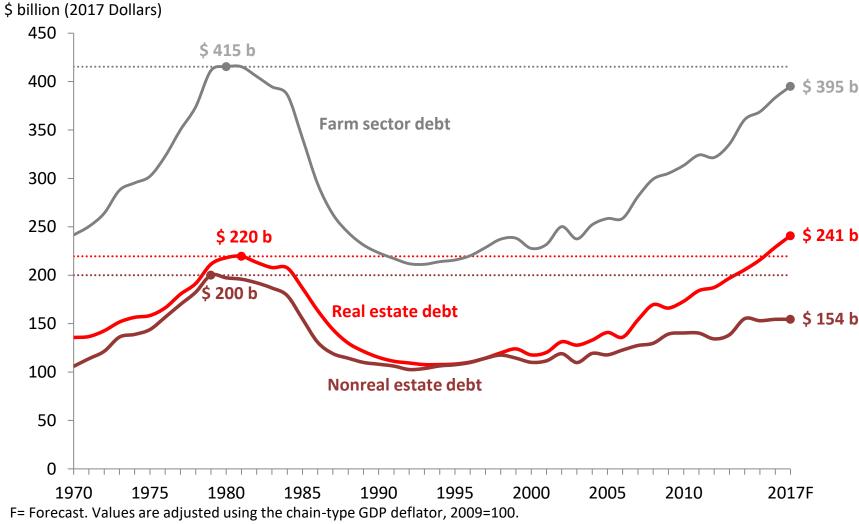








Farm real estate debt forecast above 1980's peak



However, interest rates farmers face are much different than in the 1980's.

	1981	2017F
Total debt	11.2%	4.8%
Real estate	9.4%	4.9%
Nonreal estate	13.3%	4.6%



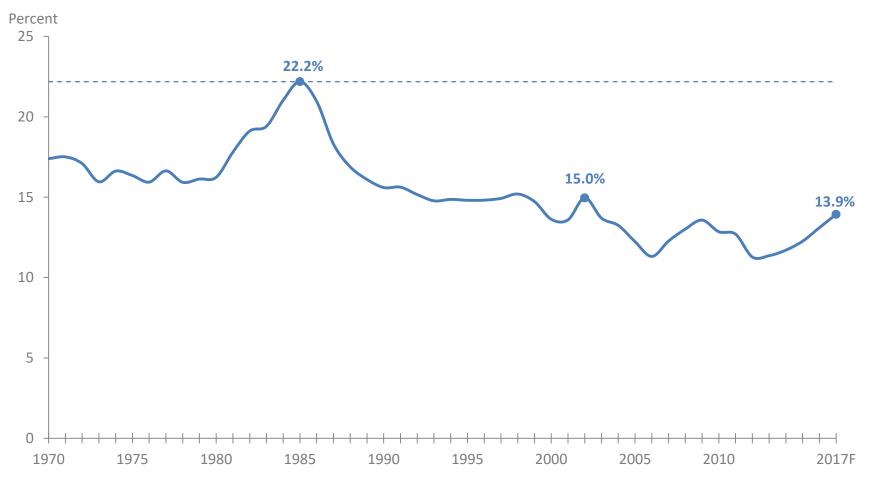








The farm sector debt-to-asset ratio expected to continue upward trend in 2017



The **Debt-to-asset** (**D/A**) is a solvency ratio. Higher values indicate higher likelihood of default and decreased ability to overcome adverse financial events.

If realized, this would be the highest D/A since 2002 when it reached 15%

For the fifth straight year, the farm sector D/A ratio is forecast to rise, but remain low by historical standards (since 1970).











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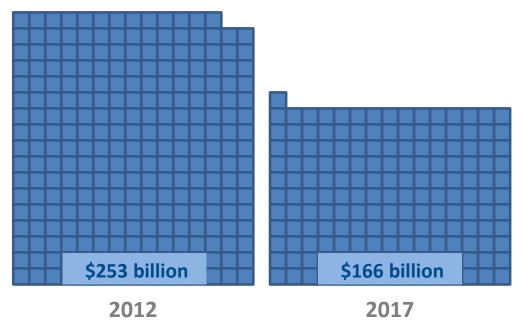








Current assets forecast down \$87 billion between 2012 and 2017



Current assets includes:

- Financial assets
- Net accounts receivable
- Crop and non-breeding animal inventory
- Purchased input inventory

Source: USDA, Economic Research Service, Farm Income and Wealth Statistics. Data as of February 7, 2017.

□=\$1 billion





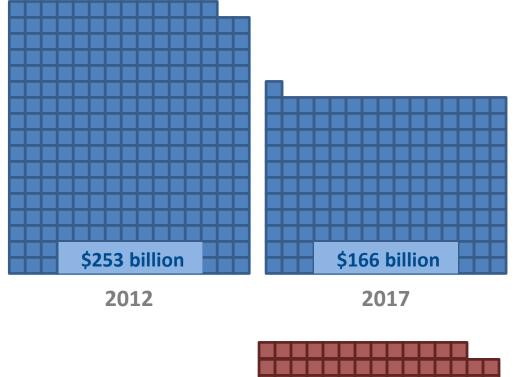








Current debt forecast up \$30 billion between 2012 and 2017



Current assets includes:

- Financial assets
- Net accounts receivable
- Crop and non-breeding animal inventory
- Purchased input inventory



Current debt includes:

- Real estate debt due within 12 months
- Nonreal estate debt due within 12 months

Source: USDA, Economic Research Service, Farm Income and Wealth Statistics. Data as of February 7, 2017.

 \square = \$1 billion

\$88 billion

2012



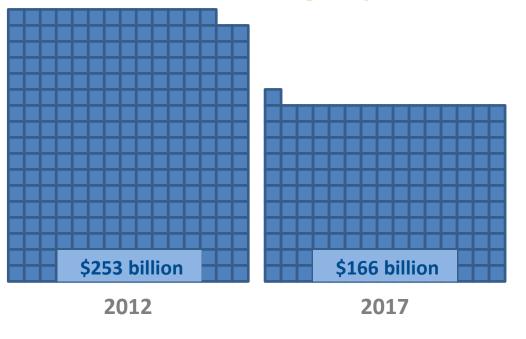


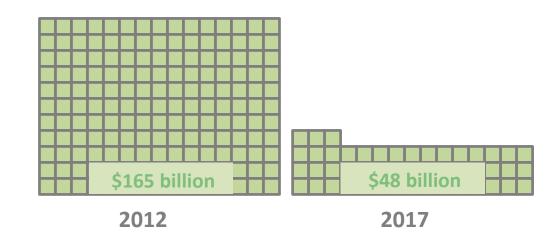


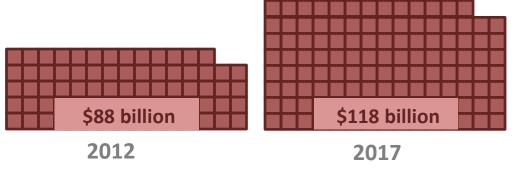




Working capital forecast to shrink between 2012 and 2017







Working Capital = Current Assets – Current Debt

Source: USDA, Economic Research Service, Farm Income and Wealth Statistics. Data as of February 7, 2017.

□ = \$1 billion



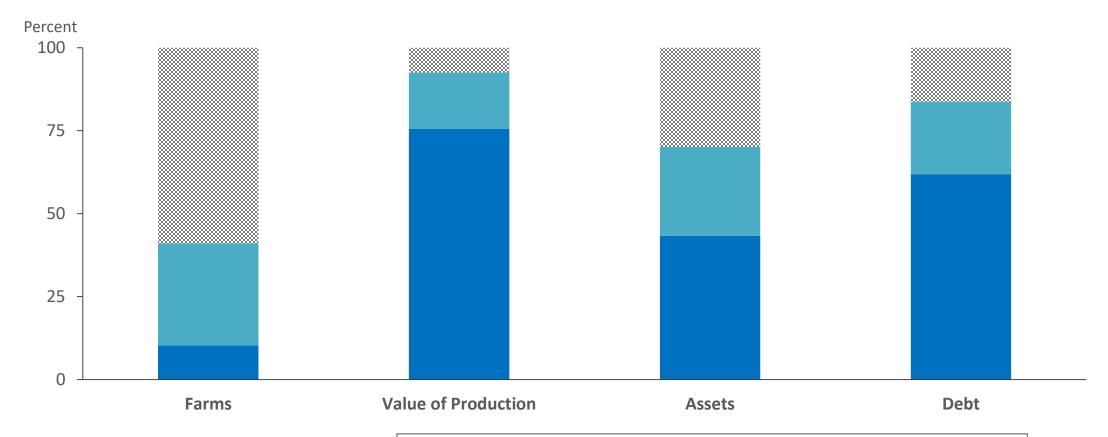








Farm businesses account for 41% of farms, but over 90% of value of production



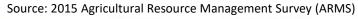
	Farm Businesses		
Residence	Intermediate	Commercial	
Operators report they are retired or have a major occupation other than farming.	Gross cash farm income less than \$350,000 and operators report farming as their major occupation.	Gross cash farm income greater than \$350,000 or farms organized as nonfamily corporations or cooperatives.	



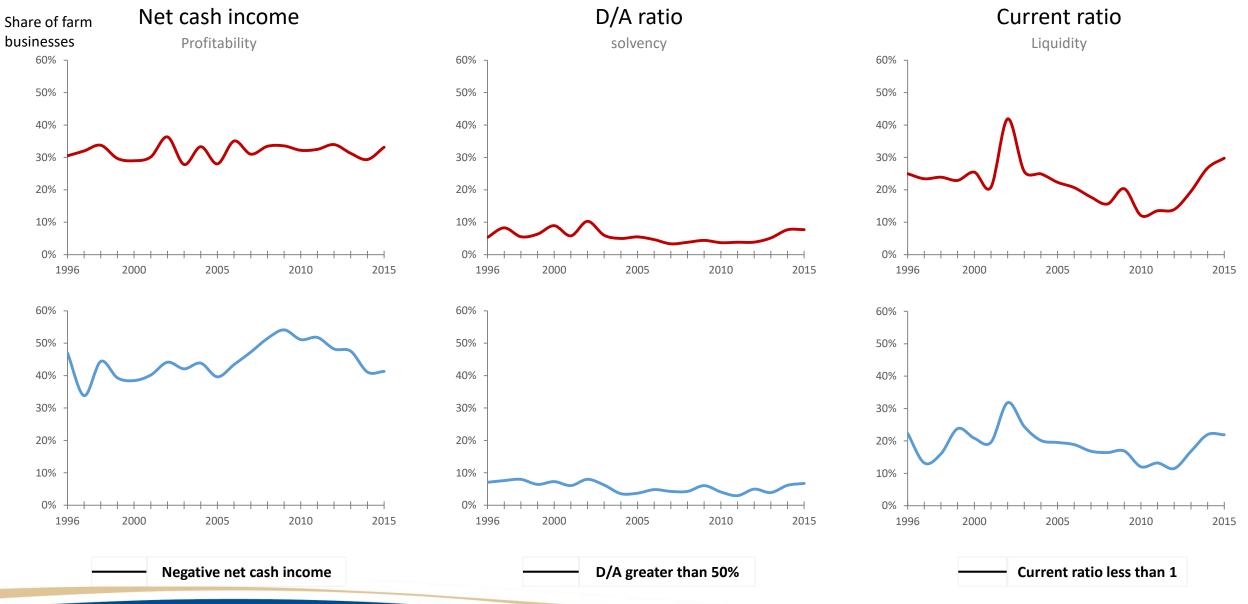








Financial ratios weaken for an increasing share of crop and livestock farm businesses







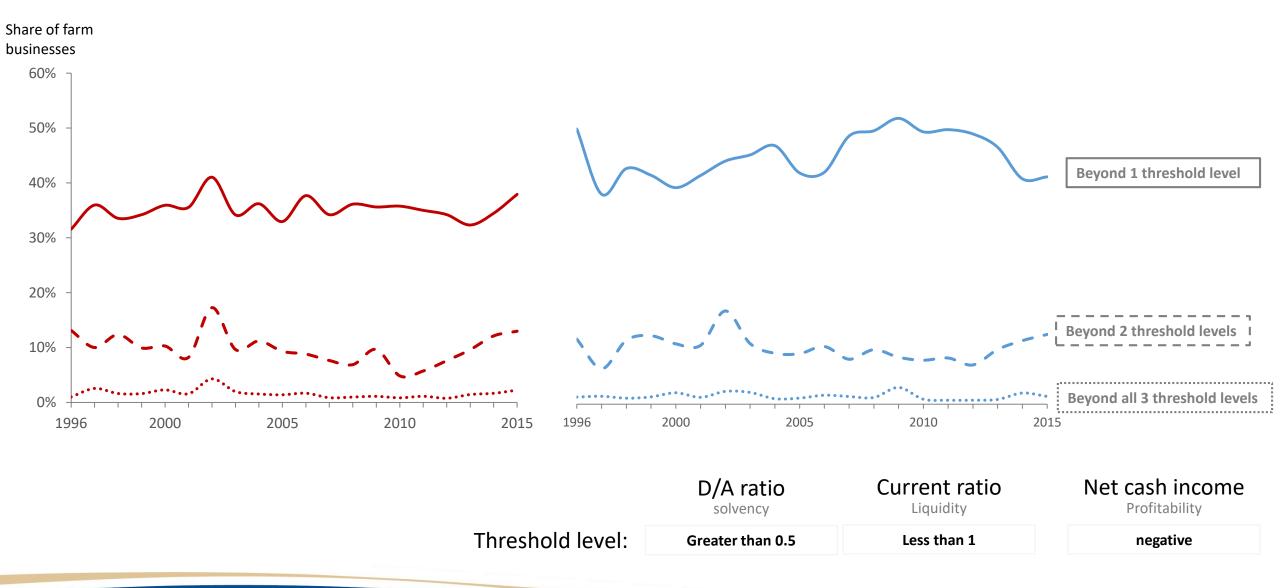








Financial ratios weaken for an increasing share of crop and livestock farm businesses









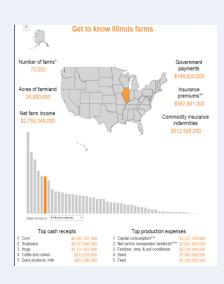


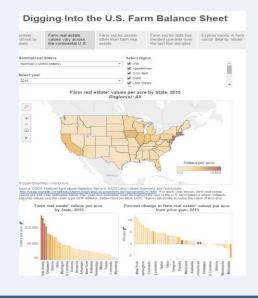


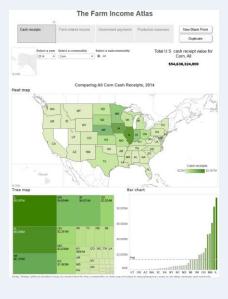


Many Ways to Explore the Data

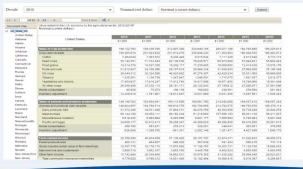
Visualizations let you dive into the financials of the farm sector



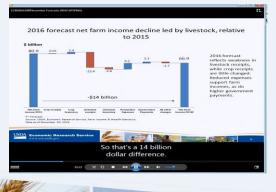




Tailored financial reports



Forecast analysis webinars



Current and archived comprehensive datasets

Year State	artificialtry	VariableDescriptionFetal VariableDescriptionParts	VariableDescriptionPart2	Account	unit_desc	PublicationDate	ChainType_GDP_Deflator
	CRAUSAC-VIP	Cashireceipts value, all coi/All Convincidities	All	852071127		Duta as of November 86, 2016	
2006 US	CRAUSACCOURP	Cashireceipts value, other All other crops	All other crops	27562596	\$1,000	Data as of November 20, 2016	
2006 US	CRAUSER-NAP	Cashinecerpts value, brollettrollers	All	26479230	\$1,000	Data as of November 30, 2016	111.998
2006.05	CRAUSBYVMP	Cachinecelpts value, barterillarley	All	924040	\$1,000	Duta as of November 16, 2016	111.96
2006 US	CRAUSO-EAUAP	Cashinecelpts value, farm (Farm chickens	All		\$1,000	Data as of November 10, 2016	
2016 US	CRAUSOL-VAP	Cashinecelpts value, cattle/Cattle andicalves	All	\$6625286	\$1,000	Data as of November 38, 2016	111.998
	CRAUSCY4,5VAP	Cashirecel pts value, cotto/Cotton lint	Longstaple		\$1,900	Data as of November 90, 2016	
2026 US	CRAUSCIVUPURP	Cashinecelpts value, cottor/Cotton lint.	Upland	4529022	\$1,000	Data as of November 16, 2016	111.166
2006 03	CRAUSON-MAP	Cashinaceipts value, cotto/Cotton lint.	All	4817293	\$1,000	Data as of November 58, 2016	111.96
	CRAUSCO-VAP	Cashinecel pts value, crops Crops	ΔII	186492813		Data as of November 90, 2016	
2004 US	CRAUSCR-NWP	Cashinace(pts value, corn., Corn	All	46190902	\$1,000	Date as of November 16, 2016	
2006 05	CRAUSCS-VAP	Cashireceipts value, cotto/Cottonseed	All	955823	\$1,000	Buta as of November 56, 2016	111.96
2006 US	CRAUSCT-VAP	Cashinecelpts value, cottoxCotton	ΔII	5779179		Data as of November 30, 2016	
2006 US	CRAUSCW-NAP	Cashinecespts value, care (Cane for sugar	All	1040840	\$1,000	Data as of November 30, 2016	111.30
2016 US	CRAUSC2-VAP	Cashireceipts value, canoli Canola	All	456133	\$1,000	Duta as of November 16, 2016	111.966
2006-05	CRAUSD\$VIIP	Cashireceipts value, drybi(Dry beans	ΔII	939439	\$1,000	Data as of November 30, 2016	
2006 US	CRAUSDY-NAP	Cashinecespts value, dairy Delry products	All	3394070	\$1,000	Data as of Ferwardser 30, 2016	111.99
2016/05	CRAUSEG-NAP	Cashireceipts value, chicke/Chicken eggs	All	6399899	\$1,000	Duta as of November 16, 2016	111.96
2006-05	CRAUSEEVAP	Cashireceipts value, feed (Feed crops	All	55904943	\$1,000	Data as of November 20, 2016	
2026 US	CRAUSFL-VAP	Cash-receipts value, flams@flamseed	All	66233	\$1,000	Date as of Resventser 30, 2016	111.99
2016/05	CRAUSEN-VIIP	Cashinecel pts value, fruits, Fruits/Nuts	All	25106894	\$1,000	Duta as of November 16, 2016	111.99
2006 US	CRAUSFO-VAP	Cashineceipts value, foodgFood grains	All	10979176	\$1,000	Data as of November 26, 2016	111.366
2006 US	CRAUSEP-VAP	Cash receipts value, forest/forest products	All	737114	\$1,000	Date as of November 30, 2016	111.99
2006.09	CRAUSHG-VAP	Cashirecelpts value, hogs JHogs	ΔII	19982722	\$1,000	Data as of November 16, 2016	111.99
2036 US	CRAUSHY-VAP	Cashireceipts value, hay, siriay	All	6975879	\$1,000	Data as of November 16, 2016	111.30
2016 US	CRAUSEVMINAP	Cash receipts value, livest Animals and products	Missellaneous animals an	6941294	\$1,000	Data as of November 50, 2016	111.966
2016 US	CRAUSLY-VAP	Cash receipts value, livest Animals and products	ΔII	166379114	\$1,000	Data as of November 16, 2016	111.36
2004 US	CRAUSINA-VAP	Cash receipts value, reset Mest animals	All	86233927	\$1,000	Date as of November 16, 2016	111.30
2016 US	CRAUSING-VAP	Cashinaceipts value, milletiProso millet	All	57792	\$1,000	Data as of November 16, 2016	111.966
2006 US	CRAUSINSSONIAP	Cash receipts value, mustifalustantiseed	ΔII	9292	\$1,000	Data as of November 16, 2016	111.36
2036 US	CRAUSOCMINAP	Cashirecelpts value, oil profil grops	Mitpellaneous	470535	\$1,000	Data as of November 20, 2016	111.100
2006.05	CRAUSOC-MAP	Cashinaceipts value, oil srcitil grops	All	43060855	\$1,000	Data as of November 16, 2016	111.966
2006.05	CRAUSOT-VAP	Cashirecelpts value, oats , Cats	All	77529	\$1,000	Data as of November 30, 2016	111.39
2026 US	CRAUSPG-VAP	Cashreceipts value, poult/Poultry/Eggs	All	33203615	\$1,000	Data as of November 30, 2016	111.36
2016.05	CRAUSPN-MAP	Cashireceipts value, peanuPeanuts	All	1164022	\$1,000	Data as of November 16, 2016	111.99
2006 US	CRAUSPO-VAP	Cash receipts value, potati Potatoes	All	3766751	\$1,000	Entra as of November 16, 2016.	111.36

QUESTIONS?

Farm Income Team

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