

U.S. Farm Income Outlook for 2016

,name redacted, Specialist in Agricultural Policy

September 7, 2016

Congressional Research Service

7-.... www.crs.gov R40152

Summary

According to USDA's Economic Research Service (ERS), national net farm income—a key indicator of U.S. farm well-being—is forecast at \$71.5 billion in 2016, down 12% from last year. The 2016 forecast represents the third consecutive year of decline and would be the lowest since 2009 in both nominal and inflation-adjusted dollars. Net farm income is calculated on an accrual basis. Net cash income (calculated on a cash-flow basis) is also projected lower in 2016, down 13% to \$94.1 billion.

The forecast for lower net farm income and net cash income is the result of the outlook for lower crop and livestock receipts—down a combined \$26 billion (-7%). The fall in cash receipts reflects continued declines in prices for most commodities compared with the period of 2011-2013, when prices for many major commodities experienced record or near-record highs.

Partially offsetting the decline in farm revenues is a mild decline of about 3% in farm cash expenses. In addition, government payments are projected up by 25% to \$13.5 billion. The 2014 farm bill (Agricultural Act of 2014; P.L. 113-79) eliminated direct payments of nearly \$5 billion per year and replaced them with a new suite of revenue support programs. In particular, the Price Loss Coverage (PLC) and Agricultural Risk Coverage (ARC) programs are expected to trigger payments of nearly \$9 billion in 2016.

U.S. farm income experienced a golden period during 2011 through 2014, driven largely by strong commodity prices and agricultural exports. Agricultural exports are forecast lower in 2016, down 9% from 2015's total and well below 2014's record \$152.3 billion—due largely to a strong U.S. dollar coupled with a continued weak economic outlook in several major foreign importing countries. However, despite the year-over-year decline, U.S. agricultural exports are still projected to account for over 30% of farm sector gross earnings in 2016.

In addition to the outlook for lower farm income in 2016, farm wealth is projected to decline for a second consecutive year (down about 2% from 2015) to \$2,846 billion. Farm asset values reflect farm investors' and lenders' expectations about long-term profitability of farm sector investments. The outlook for lower commodity prices and the expected decline from the past four years' strong outlook for the general farm economy have reversed the growth of farmland values. Because they comprise such a significant portion of the U.S. farm sector's asset base, change in farmland values is a critical barometer of the farm sector's financial performance.

At the farm-household level, average farm household incomes have been well ahead of average U.S. household incomes since the late 1990s. In 2014 (the last year for which comparable data were available), the average farm household income (including off-farm income sources) of \$134,165 was about 77% higher than the average U.S. household income of \$75,738.

The outlook for a third year of lower net farm income, coupled with a second year of lower farm wealth, suggests a weakening 2016 financial picture for the agricultural sector as a whole, with substantial regional variation. Declining prices for most major program crops signal tougher times ahead. Falling prices are expected to trigger substantial payments under the new safety net programs of the 2014 farm bill; however, eventual 2016 agricultural economic well-being will hinge on final crop harvests and prices, as well as both domestic and international macroeconomic factors, including economic growth and consumer demand.

This report is updated to include USDA's August 30, 2016, farm income update and the August 25, 2016, U.S. agricultural trade outlook update.

Contents

Introduction	1
USDA's 2016 Farm Income Forecast	2
Selected Highlights	2
Wrap Up of U.S. Agriculture for 2015, Setting the Stage for 2016	4
Gross Cash Income Highlights	9
Crop Receipts	9
Livestock Receipts	9
Government Payments 1	2
Production Expenses 1	3
Cash Rental Rates 1	
Agricultural Trade Outlook 1	6
Key U.S. Agricultural Trade Highlights 1	6
Farm Asset Values and Debt 1	
Average Farm Household Income 2	21
On-Farm vs. Off-Farm Income Shares	21
U.S. Total vs. Farm Household Average Income 2	22
Note on Aggregate Farm Household Data 2	22

Figures

Figure 1. Annual U.S. Farm Sector Nominal Income, 1960 to 2016F	3
Figure 2. Annual U.S. Farm Sector Inflation-Adjusted Income, 1960 to 2016F	4
Figure 3. U.S. Corn Stocks-to-Use Share Up, Prices Down in 2016	6
Figure 4. U.S. Soybean Stocks Relatively Abundant, Prices Level in 2016	6
Figure 5. The Milk-to-Feed Margin Falls Below \$8/cwt. in 2016	7
Figure 6. Farm-Price-to-Feed Ratios in 2016: Up for Hogs and Broilers, Lower for Milk and Cattle	7
Figure 7. The U.S. Beef Cattle Inventory (Including Calves) Since 1960	8
Figure 8. Farm Cash Receipts by Source, 1990 to 2016F	8
Figure 9. Crop Cash Receipts by Source, 2008 to 2016F	10
Figure 10. Cash Receipts for Selected Crops, 2012-2016F	10
Figure 11. U.S. Livestock Product Cash Receipts by Source, 2008 to 2016F	11
Figure 12. Cash Receipts for Selected Animal Products, 2012-2016F	11
Figure 13. U.S. Government Farm Support, Direct Outlays, 1996 to 2016F	12
Figure 14. Total Farm Production Expenses, 1970 to 2016F	14
Figure 15. Farm Production Expenses for Selected Items, 2015 and 2016F	14
Figure 16. U.S. Average Farm Land Cash Rental Rates Since 1998	15
Figure 17. U.S. Agricultural Export Value as Share of Gross Cash Income	17
Figure 18. U.S. Agricultural Trade Since 1970	17
Figure 19. U.S. Agricultural Exports Have Surged Higher Since 2006, Driven by China, NAFTA Partners (Canada and Mexico), and Developing Countries	18
Figure 20. U.S. Agricultural Trade: Bulk vs. High-Value Shares	18

20
20
21
22
23
23
24
24
25
25
26
26
27
27

Tables

Table 1. Annual U.S. Farm Income Since 2009	28
Table 2. Average Annual Income per U.S. Household, Farm Versus All, 2009-2016F	29
Table 3. Average Annual Farm Sector Debt-to-Asset Ratio, 2009-2016F	29
Table 4. U.S. Prices and Support Rates for Selected Farm Commodities Since 2011/12	
Marketing Year	30

Contacts

Author Contact Information	
----------------------------	--

Introduction

The U.S. farm sector is vast and varied. It encompasses production activities related to traditional field crops (such as corn, soybeans, wheat, and cotton) and livestock and poultry products (including meat, dairy, and eggs), as well as fruits, tree nuts, and vegetables. In addition, U.S. agricultural output includes greenhouse and nursery products, forest products, custom work, machine hire, and other farm-related activities. The intensity and economic importance of each of these activities, as well as their underlying market structure and production processes, vary regionally based on the agro-climatic setting, market conditions, and other factors. As a result, farm income and rural economic conditions may vary substantially across the United States.¹ However, this report focuses singularly on aggregate national net farm income and the status of the farm debt-to-asset ratio as reported by the U.S. Department of Agriculture's (USDA's) Economic Research Service (ERS).²

Annual U.S. net farm income is the single most watched indicator of farm sector well-being, as it captures and reflects the entirety of economic activity across the range of production processes, input expenses, and marketing conditions that have persisted during a specific time period. When national net farm income is reported together with a measure of the national farm debt-to-asset ratio, the two summary statistics provide a quick indicator of the economic well-being of the national farm economy.

Measuring Farm Profitability

Two different indicators measure farm profitability: net cash income and net farm income.

Net cash income compares cash receipts to cash expenses. As such, it is a cash flow measure representing the funds that are available to farm operators to meet family living expenses and make debt payments. For example, crops that are produced and harvested but kept in on-farm storage are not counted in net cash income. Farm output must be sold before it is counted as part of the household's cash flow.

Net farm income is a value of production measure, indicating the farm operator's share of the net value added to the national economy within a calendar year, independent of whether it is received in cash or noncash form. As a result, net farm income includes the value of home consumption, changes in inventories, capital replacement, and implicit rent and expenses related to the farm operator's dwelling that are not reflected in cash transactions. Thus, once a crop is grown and harvested it is included in the farm's net income calculation, even if it remains in on-farm storage.

Key Concepts

- Net cash income is generally less variable than net farm income. Farmers can manage the timing of crop and livestock sales and of purchase of inputs to stabilize the variability in their net cash income. For example, farmers can hold crops from large harvests to sell in the forthcoming year, when output may be lower and prices higher.
- Off-farm income and crop insurance subsidies, both of which have increased in importance in recent years, are not included in the calculation of aggregate farm income.
- Off-farm income is included in the discussion of farm income at the household level at the end of this report.

¹ For information on state-level farm income, see "U.S. and State Farm Income and Wealth Statistics," available as part of the Farm Income and Wealth Statistics, Farm Income and Costs, Farm Economy Topics, Economic Research Service (ERS), USDA, at http://www.ers.usda.gov/data-products/farm-income-and-wealth-statistics.aspx.

² For a more detailed discussion of the issues in this report, see ERS, "Farm Sector Income and Finances: 2016 Farm Sector Income Forecast," August 30, 2016, at http://www.ers.usda.gov/topics/farm-economy/farm-sector-income-finances/2016-farm-sector-income-forecast.aspx.

USDA's 2016 Farm Income Forecast

According to ERS, both net farm income and net cash income are forecast lower in 2016, for a third consecutive year of decline. U.S. net farm income is forecast at \$71.5 billion in 2016, a drop of over \$9 billion (-12%) from 2015's level (**Figure 1** and **Table 1**). This represents the lowest net farm income forecast since 2009 in both nominal and inflation-adjusted dollars (**Figure 2**). Measured in cash terms, net cash income in 2016 is also projected lower at \$94.1 billion, down over \$14 billion (-13%) from the previous year. Since the record highs of 2013, net farm income and net cash income have fallen by 42% and 31%, respectively (**Figure 1**).

These forecasts are preliminary and will depend on both final crop harvests and market developments. The ongoing drought in California (now in its fifth year) remains of particular concern since nearly half of U.S. fruit, vegetable, and tree nut production occurs there. Also, the safety net programs of the 2014 farm bill are expected to make substantial payments as a result of relatively lower (and declining) commodity prices in 2015 and 2016.

Selected Highlights

- The lower farm income forecast for 2016 is primarily a result of lower crop (-4%) and livestock (-10%) receipts, while production expenses are projected down slightly (-3%).³
- Farm prices for most feedstuffs—feed grains (corn, sorghum, barley, and oats), hay, and wheat—declined during 2015 and are projected to continue lower in 2016 as U.S. and global grain stocks rebuild (**Table 4** and **Figure 27** to **Figure 30**).
- Cattle prices have also turned downward from their record 2014 highs, while dairy, poultry, and hog prices have turned sharply lower (Figure 31 to Figure 34). Prices for all four protein sources are projected lower in 2016 (Table 4).
- Government payments in 2016 are projected up sharply (25%) to \$13.5 billion, the highest level since 2006 (**Figure 13**). Lower commodity prices are expected to trigger payments of nearly \$9 billion under the PLC and ARC programs, up sharply from the \$5 billion in payments under these same two programs in 2015.
- Total production expenses, at \$348.7 billion, are projected down about 3% in 2016, held in check by lower costs for replacement animals (-20%), fertilizer (-13%), and fuel (-13%).
- Global demand for U.S. agricultural product exports is expected to fall to \$127 billion (-9%) in 2016, for a second year of decline after setting a record of \$152 billion in 2014 as a stronger U.S. dollar has combined with struggling international economies to slow growth in demand for U.S. agricultural exports.⁴
- Farm asset values are also expected to decline a second straight year to \$2,846 billion (down 2%) in 2016, driven by weaker land values. A slight decline in farm

³ The material presented in the report is drawn primarily from the 2016 Farm Sector Income Forecast of ERS at http://www.ers.usda.gov/topics/farm-economy/farm-sector-income-finances/2016-farm-sector-income-forecast.aspx.

⁴ U.S. agricultural export prospects are expected to improve in 2017. ERS, *Outlook for U.S. Agricultural Trade*, AES-95, August 25, 2016.

debt (354 billion, -1%) is expected to result in a marginal rise in the debt-to-asset ratio to 12.4%.⁵

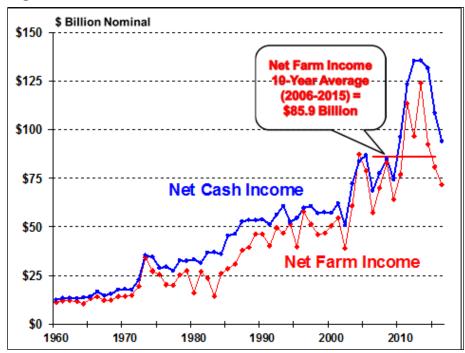


Figure I.Annual U.S. Farm Sector Nominal Income, 1960 to 2016F

Source: ERS, "2016 Farm Income Forecast," August 30, 2016. All values are nominal, that is, not adjusted for inflation. 2016 is forecast.

⁵ See discussion later in the report in the section "Farm Asset Values and Debt."

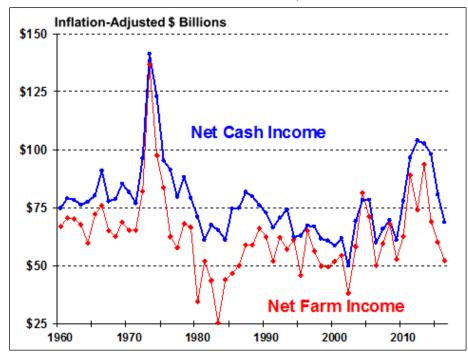


Figure 2. Annual U.S. Farm Sector Inflation-Adjusted Income, 1960 to 2016F

Source: ERS, "2016 Farm Income Forecast," August 30, 2016. All values are adjusted for inflation using the Bureau of Labor Statistics Consumer Price Index, where 2002-2003=100. 2016 is forecast.

Wrap-Up of U.S. Agriculture for 2015, Setting the Stage for 2016

Normal weather conditions prevailed in most major growing regions around the world in 2015. As a result 2015 saw continued building of global grain and oilseed stocks that began with the large harvests of 2013 (see the stocks-to-usage ratios for U.S. corn and soybeans in **Figure 3** and **Figure 4**). Abundant stocks have pressured crop prices in U.S. and international markets (**Figure 27** through **Figure 30**) in 2016.

The changing conditions for the livestock sector may be tracked by the evolution of the ratios of livestock output prices to feed costs (**Figure 5** and **Figure 6**)—a higher ratio suggests greater profitability for producers. In general, the farm price to feed ratios rose steadily from 2013 through most of 2014 before turning downward. The ratios declined through 2015, with the exception of the milk-to-feed and broiler-to-feed margins, which recovered slightly in 2015.⁶ The hog- and broiler-to-feed margins remain robust in the first half of 2016. However, the entire U.S. livestock sector—cattle, dairy, broilers, and hogs—are all projected to experience declines in market prices in the latter half of 2016. This suggests lower profitability and perhaps financial difficulties for marginal producers.

The U.S. cattle sector has been expanding since 2014, but early signs suggest that this is slowing. During the 2007 to 2014 period, high feed and forage prices, plus widespread drought in the Southern Plains—the largest U.S. cattle production region—had resulted in an 8% contraction of the U.S. cattle inventory (**Figure 7**). Reduced beef supplies led to higher producer and consumer

⁶ Feed costs—at 30% to 80% of variable costs—are generally the largest cost component in livestock operations.

prices, which in turn triggered the slow rebuilding phase in the cattle cycle that started in 2014 (see the price-to-feed ratio for steer and heifers, **Figure 6**).

A key uncertainty for the hog sector in 2014 was the rapid outbreak and spread of the porcine epidemic diarrhea virus (PEDv), which caused market worries related to U.S. pork production. The incidence of PEDv since the winter of 2014/2015 has declined, and initial market fears have subsided. However, the related 2014 surge in hog prices elicited substantial producer response, and the resulting expanded pork supplies are now weighing on market prices. Similarly, a poultry-related disease emerged during spring 2015, when the U.S. poultry industry experienced a severe outbreak of highly-pathogenic avian influenza (HPAI),⁷ but the outbreak ended by early summer 2015. More than 48 million chickens, turkeys, and other poultry were euthanized to stem the spread of the disease. Turkey and egg-laying hen farms in Minnesota and Iowa were the hardest hit. Commercial broiler farms were not affected. USDA estimates that egg production declined over 5% in 2015, pushing egg prices up 28% that year. In 2016, egg prices are projected to decline 53% as supply concerns subside.

The two largest U.S. commercial crops—in terms of both value and quantity—are corn and soybeans. Both corn and soybeans experienced record harvests in 2014 followed by aboveaverage harvests in 2015. Both crops are expected to have record harvests again in 2016, thus helping to maintain stocks and pressure prices lower (**Figure 3** and **Figure 4**). The eventual outcome will likely depend on final harvest conditions and international market demand. These two crops provide important inputs for the domestic livestock, poultry, and biofuels sectors. In addition, the United States has traditionally been one of the world's leading exporters of corn, soybeans, and soybean products—vegetable oil and meal. As a result, the outlook for these two crops is critical to both farm sector profitability and regional economic activity across large swaths of the United States, as well as in international markets.

⁷ CRS Report R44114, Update on the Highly-Pathogenic Avian Influenza Outbreak of 2014-2015, by (name redacted)

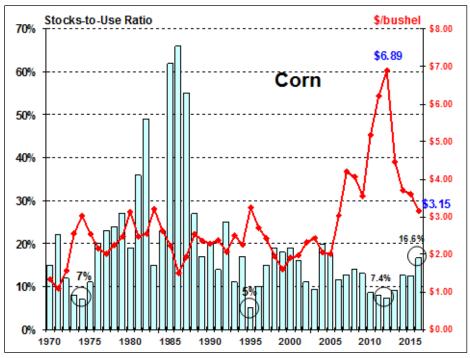
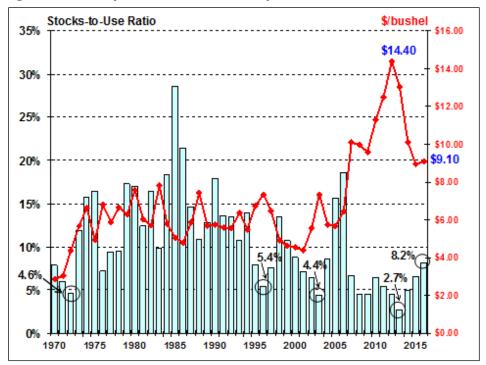


Figure 3. U.S. Corn Stocks-to-Use Share Up, Prices Down in 2016

Source: See Source and Notes for Figure 4.

Figure 4. U.S. Soybean Stocks Relatively Abundant, Prices Level in 2016



Source: World Agricultural Outlook Board, USDA, World Agricultural Supply and Demand Estimates (WASDE), August 12, 2016.

Notes: Stocks-to-Use equals the ratio of season-ending stocks relative to the season's total usage.

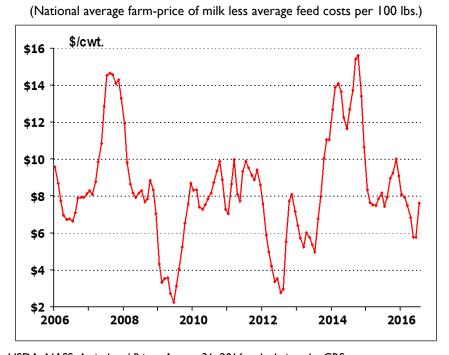
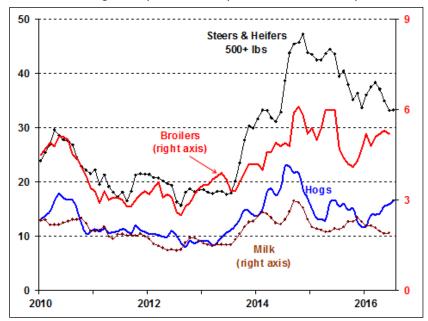


Figure 5. The Milk-to-Feed Margin Falls Below \$8/cwt. in 2016

Source: USDA, NASS, *Agricultural Prices*, August 31, 2016; calculations by CRS. **Note:** Based on the feed price formula used by the Margin Protection Program of the 2014 farm bill (P.L. 113-79); see CRS Report R43465, *Dairy Provisions in the 2014 Farm Bill (P.L. 113-79)*, by (name redacted)

Figure 6. Farm-Price-to-Feed Ratios in 2016: Up for Hogs and Broilers, Lower for Milk and Cattle

(Ratio of national average farm-price received per 100 lbs. of meat to per-unit feed cost)



Source: USDA, NASS, Agricultural Prices, August 31, 2016.

Notes: Cattle and hog feed cost is 100% corn; broilers feed cost is 58% corn, 42% soybeans.

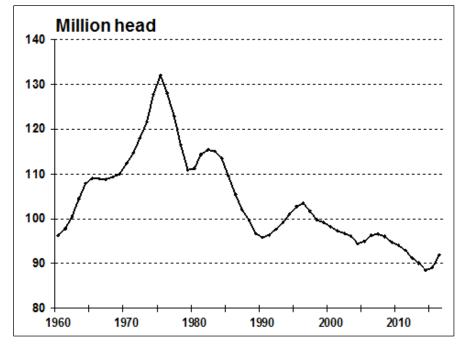


Figure 7. The U.S. Beef Cattle Inventory (Including Calves) Since 1960

Source: USDA, NASS, *Cattle*, January 29, 2016. **Notes:** Inventory data are for January 1 of each year.

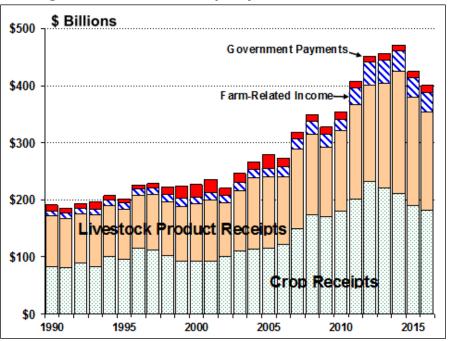


Figure 8. Farm Cash Receipts by Source, 1990 to 2016F

Source: ERS, "2016 Farm Income Forecast," August 30, 2016. All values are nominal, that is, not adjusted for inflation. 2016 is forecast.

Notes: Receipts from crop and livestock product sales, and government payments, are described in more detail below. Farm-related income includes income from custom work, machine hire, agri-tourism, forest product sales, insurance indemnities, and cooperative patronage dividend fees.

Gross Cash Income Highlights

- Total farm sector gross cash income for 2016 is projected down 6% to \$400.6 billion for a second year of decline from 2014's record \$470.5 billion (**Figure 8**), driven by lower cash receipts for both crop (-4%) and livestock products (-10%), as well as farm-related income (-2%).
- Farm sector revenue sources and shares include crop revenues (45% of sector revenues), livestock receipts (45%), government payments (3%), and other farm-related income, including crop insurance indemnities, machine hire, and custom work (8%).

Crop Receipts

Total crop sales peaked in 2012 at a record \$231.6 billion when a nationwide drought pushed commodity prices to record or near-record levels. In 2016, crop sales are projected down slightly (-4%) from 2015, at \$182.3 billion (**Figure 8**).

The crop sector includes 2016 projections (and percentage changes from 2015) for

- feed crops—corn, barley, oats, sorghum, and hay—of \$54.6 billion (-5.5%);
- oil crops—soybeans, peanuts, and other minor oilseeds—of \$37.5 billion (-1%);
- food grains—wheat and rice—of \$11.2 billion (-13.8%);
- fruits and nuts of \$25.3 billion (-6.5%);
- vegetables and melons of \$18.3 billion (-7.5%);
- cotton of \$5.7 billion (+12.5%); and
- all other crops—including tobacco, sugar, greenhouse, and nursery crops—of \$27.6 billion (+1.4%).

The length and severity of the California drought (which has eased only slightly with winter rains in 2015/2016) has important national implications for retail food prices—California accounts for about one-third of U.S. vegetable production, almost two-thirds of U.S. fruit and nut production, about 20% of U.S. milk, and a substantial portion of wine production.⁸

Livestock Receipts

The livestock sector includes cattle, hogs, sheep, poultry and eggs, dairy, and other minor activities. Cash receipts for the livestock sector grew steadily from the severe downturn of 2009 through 2014, when they peaked at a record \$212.2 billion. However, the sector turned downward in 2015 (-10.8%) and is projected to do so again in 2016 (-9.8%) to \$171.1 billion—driven largely by projected year-over-year price declines across all major livestock categories in 2016 (**Table 4**). Highlights include 2016 projections (and percentage changes from 2015) for

- cattle and calf sales of \$69.6 billion (-11.1%),
- hog sales of \$19.7 billion (-6.5%),
- poultry and egg sales of \$40.5 billion (-15.7%), and
- dairy sales, valued at \$34.4 billion (-3.6%).

⁸ See CRS In Focus IF10133, *California Drought: Water Supply and Conveyance Issues*, by (name redacted) and CRS Report R44093, *California Agricultural Production and Irrigated Water Use*, by (name redacted) and (name redacted)

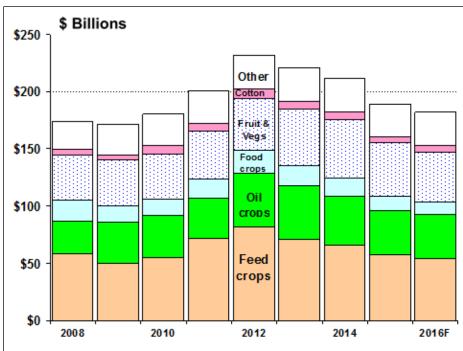
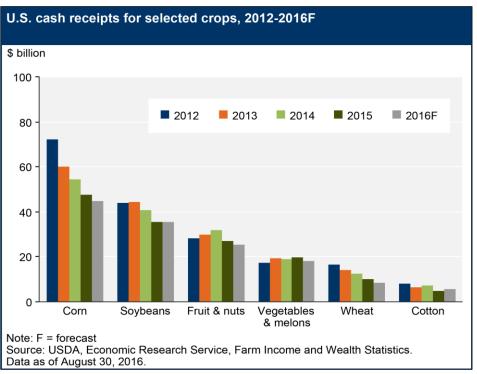


Figure 9. Crop Cash Receipts by Source, 2008 to 2016F

Source: ERS, "2016 Farm Income Forecast," August 30, 2016. All values are nominal, that is, not adjusted for inflation. 2016 is forecast.





Source: See Source and Notes for Figure 9.

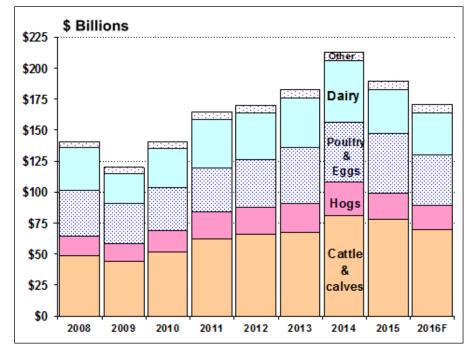


Figure 11. U.S. Livestock Product Cash Receipts by Source, 2008 to 2016F

Source: ERS, "2016 Farm Income Forecast," August 30, 2016. All values are nominal, that is, not adjusted for inflation. 2016 is forecast.

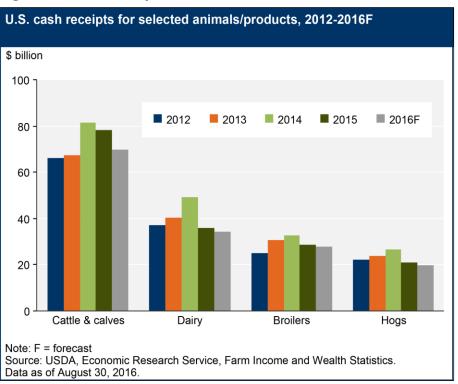
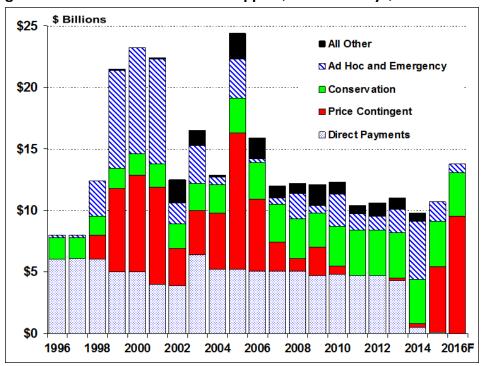


Figure 12. Cash Receipts for Selected Animal Products, 2012-2016F

Source: See source and notes for Figure 11.

Government Payments

Government payments in 2016 are projected up by 24.8% from 2015 as plunging farm prices are expected to trigger substantial payments under the price-contingent programs—the Price Loss Coverage (PLC) and the Agricultural Risk Coverage (ARC) programs. The 2014 farm bill (Agricultural Act of 2014; P.L. 113-79) eliminated direct payments of nearly \$5 billion per year and replaced them with a new suite of revenue support programs. In particular, the PLC program replaced the previous Counter-Cyclical Price (CCP) program, but with a set of reference prices based on substantially higher support levels for most program crops. ARC relies on a five-year moving average price trigger in its payment calculation but also adopts the PLC reference price as the minimum guarantee in years when market prices fall below it. These higher relative support levels are expected to trigger payments of \$8.7 billion in 2016, up from \$5.1 billion in 2015.





Source: ERS, "2016 Farm Income Forecast," August 30, 2016. All values are nominal, that is, not adjusted for inflation. 2016 is forecast.

Notes: Data are on a fiscal year basis and may not correspond exactly with the crop or calendar year. "Direct Payments" include production flexibility contract payments enacted under the 1996 farm bill and fixed direct payments of the 2002 and 2008 farm bills; "Price-Contingent" outlays include loan deficiency payments, marketing loan gains, counter-cyclical payments, ACRE, PLC, and ARC payments; "Conservation" outlays include Conservation Reserve Program payments along with other conservation program outlays; "Ad Hoc and Emergency" includes emergency supplemental crop and livestock disaster payments and market loss assistance payments for relief of low commodity prices; and "All Other" outlays include peanut quota buyout payments, milk income loss payments, tobacco transition payments, and other miscellaneous expenditures.

- Government payments of \$13.5 billion are expected to represent a relatively small share (3%) of projected gross cash income of \$400.6 billion in 2016 (**Figure 8**).
- In contrast, government payments are expected to represent 19% of net farm income of \$71.7 billion in 2016 (**Table 1**). However, the importance of

government payments as a percent of net farm income varies nationally by crop and livestock sector and region.

- Farm fixed direct payments, whose payment rates were fixed in previous legislation, were eliminated by the 2014 farm bill.⁹
- Payments under the price-contingent marketing loan benefit are forecast at \$208 million in 2015 and \$496 million in 2016, as program crop prices are expected to remain above most program loan rates—the exception being rice and peanuts (**Table 4**).
- The Margin Protection Program (MPP) for dairy is expected to earn savings as producer premiums paid exceed federal payouts by \$6 million in 2016.
- Conservation programs include all conservation programs operated by USDA's Farm Service Agency (FSA) and the Natural Resources Conservation Service (NRCS) that provide direct payments to producers. Estimated conservation payments of \$3.7 billion are forecast for 2016, up slightly (2%) from 2015.
- Supplemental and ad-hoc disaster assistance payments are forecast at \$651 million in 2016, a 64% decline from \$1.8 billion in 2015. The decline is largely due to an expected decline in payouts under the Livestock Forage Program (LFP) and bird flu payments made by USDA's Animal and Plant Health Inspection Service (APHIS).¹⁰

Production Expenses

Production expenses for 2016 for the U.S. agricultural sector are projected down (-2.8%) at \$348.7 billion (**Figure 14**) for a second consecutive year of decline. Multi-year reductions in farm production expenses are relatively rare—it happened last from 1984 to 1986. Changes in input prices (i.e., expenses) typically lag commodity price changes. Commodity prices, in general, are in their fourth year of relative decline from record highs achieved in the 2012/2013 period. Production expenses will affect crop and livestock farms differently.

- The principal expenses for livestock farms—that is, feed and feeder animals and poultry—are both projected lower in 2016, as feed costs decline by about 1% while replacement animal costs decline by nearly 20%. In the net, the principal livestock expenses are forecast down 6.4% from 2015 at \$82.3 billion.
- The principal crop expenses—including fertilizer, pesticides, and fuel—are forecast down by about 5%, to \$94.8 billion. Miscellaneous operating expenses, which are projected up only slightly (1%) at \$36.3 billion, include crop insurance premiums and thus directly impact crop production.

⁹ For details see CRS Report R43076, The 2014 Farm Bill (P.L. 113-79): Summary and Side-by-Side.

¹⁰ See CRS Report RS21212, *Agricultural Disaster Assistance*, for more information on available farm disaster programs.

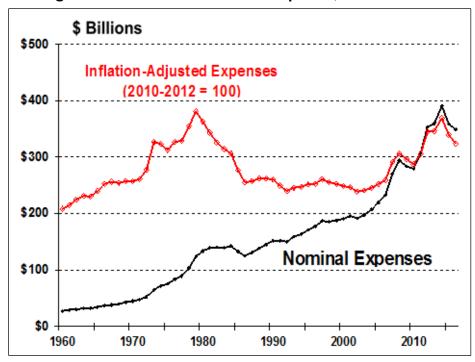


Figure 14. Total Farm Production Expenses, 1970 to 2016F

Source: ERS, "2016 Farm Income Forecast," August 30, 2016. All values are nominal, that is, not adjusted for inflation. 2016 is forecast.

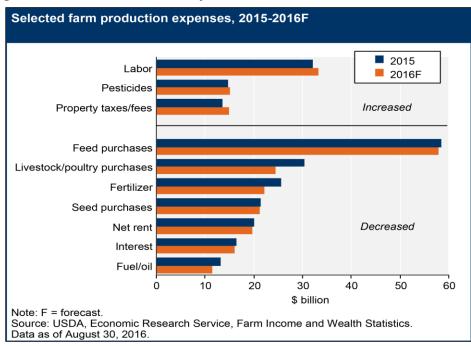


Figure 15. Farm Production Expenses for Selected Items, 2015 and 2016F

Source: ERS, "2016 Farm Income Forecast," August 30, 2016. All values are nominal, that is, not adjusted for inflation. 2016 is forecast.

Cash Rental Rates

Renting or leasing land is a way for young or beginning farmers to enter agriculture without incurring debt associated with land purchases. It is also a means for existing farm operations to adjust production more quickly in response to changing market and production conditions, also avoiding risks associated with land ownership.

The share of rented farmland varies widely by region and production activity. However, for some farms it constitutes an important component of farm operating expenses. Since 2002, about 38% of agricultural land used in U.S. farming operations has been rented.¹¹

Some farmland is rented from other farm operations—nationally about 8% of all land in farms in 2012—and thus constitutes a source of income for some operator landlords. However, the majority of rented land in farms is rented from non-operating landlords. Nationally in 2012, 30% of all land in farms was rented from someone other than a farm operator. Total net rent to non-operator landlords is projected to be down slightly (-3%) at \$15 billion in 2016.

Average cash rental rates for 2016—which were set the preceding fall of 2015 or in early spring of 2016—still reflect the high prices and large net returns of the preceding several years (especially the 2011 to 2014 period) and have yet to decline substantially (**Figure 16**). Continued high per-acre cash rental rates into 2016 may cause a pinch in cash flow for some farm operations, particularly if livestock product prices for hogs, poultry, eggs, and dairy continue to decline into 2016.

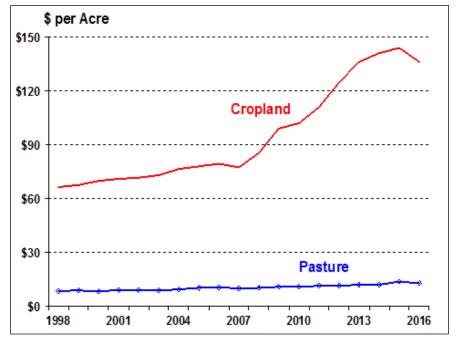


Figure 16. U.S. Average Farm Land Cash Rental Rates Since 1998

Source: NASS, "Quick Stats," downloaded August 30, 2016.

¹¹ ERS, "Land Use, Land Values & Tenure: Farmland Ownership and Tenure," at http://www.ers.usda.gov/topics/farm-economy/land-use,-land-value-tenure/farmland-ownership-and-tenure.aspx.

Agricultural Trade Outlook

A major catalyst behind the strong farm income of recent years has been the strength of U.S. agricultural exports, which have shown remarkable growth since 2000—nearly tripling in absolute value and accounting for over 30% of gross cash farm income.

USDA projects U.S. agricultural exports lower in 2016 at \$127 billion, down 9% from 2015's total and 17% below 2014's record \$152.3 billion (**Figure 18**)—due largely to a relatively strong U.S. dollar coupled with a continued weak economic outlook in several major foreign importing countries. In contrast, USDA projects that U.S. agricultural imports will fall only slightly to \$113 billion (-1%), thus reducing the agricultural trade surplus to \$13.9 billion—the lowest since 2007.

In its August 25, 2016, *Outlook for U.S. Agricultural Trade*, ERS projects improved prospects for FY2017 U.S. agricultural exports at \$133 billion (up \$6 billion or +4.7%), imports at \$133.5 billion, and a trade surplus of \$19.5 billion (+40%).

Key U.S. Agricultural Trade Highlights

- As a share of total gross farm receipts, U.S. agricultural exports are projected to account for 31.7% of gross cash earnings in 2016, down slightly from a 32.9% share in 2015 (**Figure 17**).
- The top three markets for U.S. agricultural exports are China, Canada, and Mexico, in that order. Together these three countries are expected to account for 48% of total U.S. agricultural exports in FY2016 (Figure 19).
- A substantial portion of the increase in U.S. agricultural exports since 2010 has also been due to higher-priced grain and feed shipments, plus record oilseed exports to China and growing animal product exports to East Asia.
- The fourth- and fifth-largest U.S. export markets are the European Union (EU) and Japan, which are projected to account for a combined 17% of U.S. agricultural exports in FY2016. However, these two markets have shown relatively limited growth when compared with the rest of the world.
- The "Rest of World" component of U.S. agricultural trade—the Middle East, Africa, and Southeast Asia—has shown dramatic import growth in recent years. ROW is expected to account for 35% of U.S. agricultural exports in 2016.
- Over the past four decades, U.S. agricultural exports have experienced fairly steady growth in export of high-valued products (**Figure 20**). As grain and oilseed prices decline, so will the bulk value share of U.S. exports.
- Bulk commodity shipments (primarily wheat, rice, feed grains, soybeans, cotton, and unmanufactured tobacco) are forecast at a relatively low 33% share of total U.S. agricultural exports in 2016, at \$38.9 billion. This compares with an average share of over 60% during the 1970s and 1980s.
- In contrast, high-valued export products—including horticultural, livestock, poultry, and dairy—are forecast at \$89 billion, for a 67% share of U.S. agricultural exports in 2016.

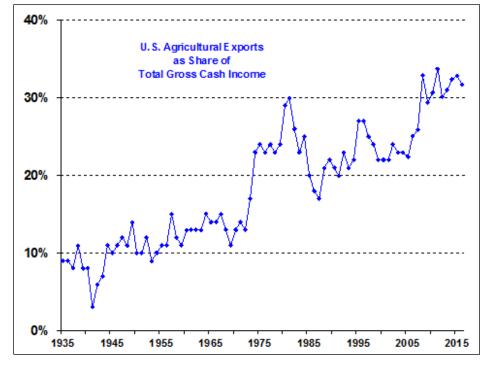


Figure 17. U.S. Agricultural Export Value as Share of Gross Cash Income

Source: ERS, *Outlook for U.S. Agricultural Trade*, AES-95, August 25, 2016; 2016 is an estimate; 2017 is a projection.

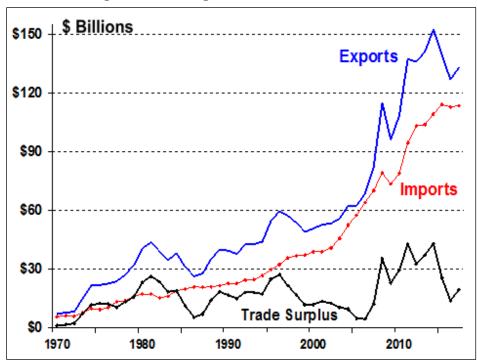
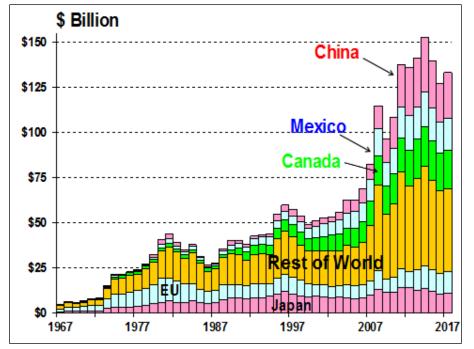


Figure 18. U.S. Agricultural Trade Since 1970

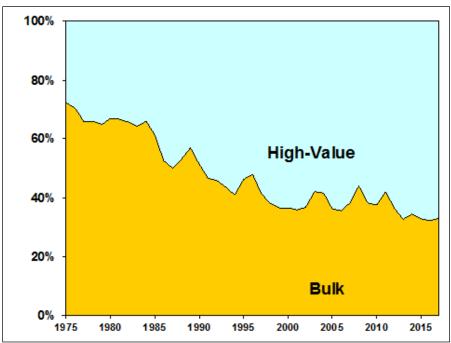
Source: See source for Figure 17.





Source: See source for **Figure 20**.

Figure 20. U.S. Agricultural Trade: Bulk vs. High-Value Shares



Source: ERS, *Outlook for U.S. Agricultural Trade*, AES-95, August 25, 2016; 2016 is an estimate; 2017 is a projection.

Farm Asset Values and Debt

The U.S. farm income and asset-value situation and outlook suggest some weakening in the financial position heading into 2016 for the agriculture sector as a whole, but with considerable uncertainty regarding the downward outlook for prices and market conditions for the sector.

Measuring Farm Wealth

A useful measure of the farm sector's financial wherewithal is farm sector net worth as measured by farm assets minus farm debt. A summary statistic that captures this relationship is the debt-to-asset ratio.

Farm Assets include both physical and financial farm assets. **Physical Assets** include land and buildings, farm equipment, on-farm inventories of crops and livestock, and other miscellaneous farm assets. **Financial Assets** include cash, bank accounts, and investments such as stocks and bonds.

Farm Debt includes both business and consumer debt linked to real estate and non-real estate assets (e.g., financial assets, inventories of agricultural products, and the value of machinery and motor vehicles) of the farm sector.

The **Debt-to-Asset Ratio** compares the farm sector's outstanding debt related to farm operations relative to the value of the sector's aggregate assets. Change in the debt-to-asset ratio is a critical barometer of the farm sector's financial performance with lower values indicating greater financial resiliency. A smaller debt-to-asset ratio suggests that the sector is better able to withstand short-term increases in debt related to interest rate fluctuations or changes in the revenue stream related to lower output prices, higher input prices, or production shortfalls.

The largest single component in a typical farmer's investment portfolio is farmland. As a result, real estate values affect the financial well-being of agricultural producers and serve as the principal source of collateral for farm loans.

- Farm asset values—which reflect farm investors' and lenders' expectations about long-term profitability of farm sector investments—are projected down (2.2%) in 2016 to \$2,846 billion, reflecting a second consecutive year of decline and some erosion of the outlook for the general farm economy (**Table 3**).
- Weaker farm asset values are expected due to weakness in both real estate (-1.5%) and non-real estate (-5.2%) values (Figure 21 and Figure 22). Real estate traditionally accounts for the bulk of total value of farm sector assets—nearly an 81% share.
- Land values are closely linked to commodity prices and are expected to continue to recede if the forecasts for lower commodity prices and the prospect for continued global stock recovery for grains and oilseeds are realized in 2016 and beyond (**Figure 21**).
- Meanwhile, total farm debt is forecast down slightly to \$354 billion in 2016 (-0.8%).
- Farm equity (or net worth, defined as asset value minus debt) is projected to be down a second consecutive year (-2.4%) at \$2,492 billion in 2016.
- The farm debt-to-asset ratio is forecast slightly higher at 12.4% in 2016 (Figure 23).

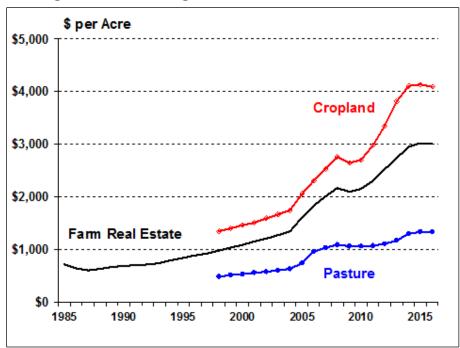


Figure 21. U.S. Average Farm Land Values, 1985 to 2015F

Source: NASS, Land Values 2016 Summary, August 2016.

Notes: Farm real estate value measures the value of all land and buildings on farms. Cropland and pasture values are only available since 1998.

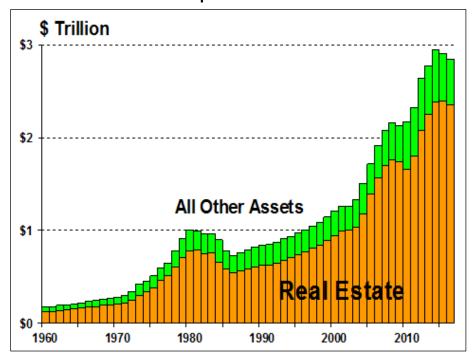


Figure 22. Real Estate Assets Comprise 81% of Total Farm Sector Assets in 2016

Source: See source for Figure 23.

Notes: Non-real estate assets include financial assets, inventories of agricultural products, and the value of machinery and motor vehicles.

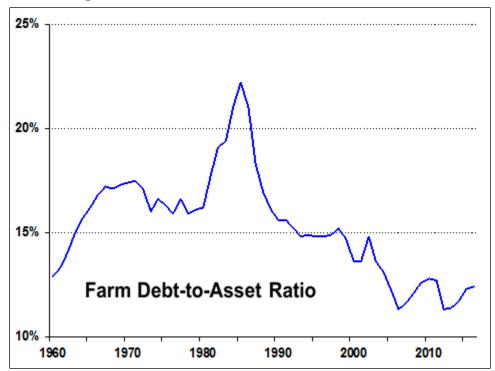


Figure 23. U.S. Farm Debt-to-Asset Ratio Since 1960

Source: ERS, "2016 Farm Income Forecast," August 30, 2016. All values are nominal, that is, not adjusted for inflation. 2016 is forecast.

Average Farm Household Income

Farm household wealth is derived from a variety of sources.¹² A farm can have both an on-farm and an off-farm component to its balance sheet of assets and debt. Thus, the well-being of farm operator households is not equivalent to the financial performance of the farm sector or of farm businesses because of other stakeholders in farming, such as landlords and contractors, and because farm operator households often have nonfarm investments, jobs, and other links to the nonfarm economy.

On-Farm vs. Off-Farm Income Shares

- Average farm household income (sum of on- and off-farm income) is projected at \$118,890 in 2016 (**Table 2**), down slightly (-0.5%) from 2015 and well below the record \$134,165 of 2014.
- About 18% (\$21,647) of total household income is from the farm, and the remaining 82% (\$97,242) is earned off the farm (including financial investments). The share of farm income derived from off-farm sources had increased steadily for decades but peaked at about 95% in 2002 (**Figure 24**).

¹² ERS, "Farm Household Well-Being," available at http://www.ers.usda.gov/topics/farm-economy/farm-household-well-being.aspx.

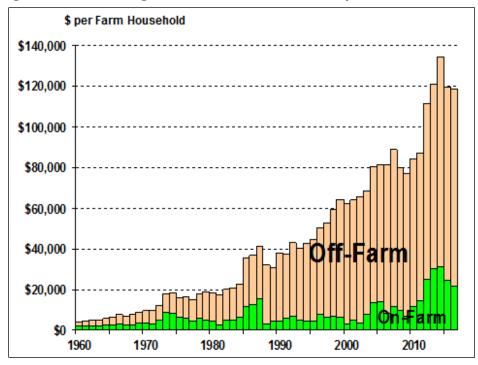


Figure 24. U.S. Average Farm Household Income, by Source, Since 1960

Source: ERS, "2016 Farm Income Forecast," August 30, 2016. All values are nominal, that is, not adjusted for inflation. 2016 is forecast.

U.S. Total vs. Farm Household Average Income

- Since the late 1990s, farm household incomes have surged ahead of average U.S. household incomes (Figure 25 and Figure 26).
- In 2014 (the last year for which comparable data were available), the average farm household income of \$134,165 was about 77% higher than the average U.S. household income of \$75,738 (**Table 2**).

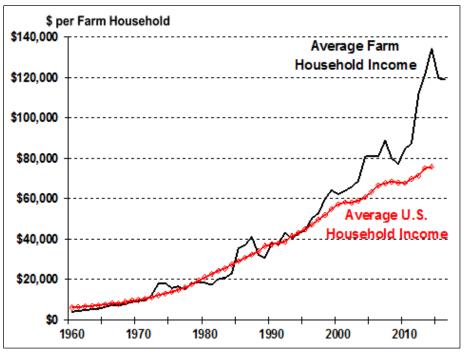
Note on Aggregate Farm Household Data

Aggregate data often hide or understate the tremendous diversity and regional variation that occurs across America's agricultural landscape. This report focuses entirely on national aggregate statistics. It is not intended to identify or discuss significant differences that may occur across different production activities and regions. For insights into the potential diversity of differences in American agriculture, readers are encouraged to visit the ERS websites on "Farm Structure and Organization"¹³ and "Farm Household Well-being,"¹⁴ where more information on such differences is readily available in a highly accessible format.

¹³ ERS, "Farm Structure and Organization," http://www.ers.usda.gov/topics/farm-economy/farm-structure-and-organization.aspx.

¹⁴ ERS, "Farm Household Well-Being," http://www.ers.usda.gov/topics/farm-economy/farm-household-well-being.aspx.





Source: ERS, "2016 Farm Income Forecast," August 30, 2016. All values are in nominal terms, that is, not adjusted for inflation. 2015 is forecast.

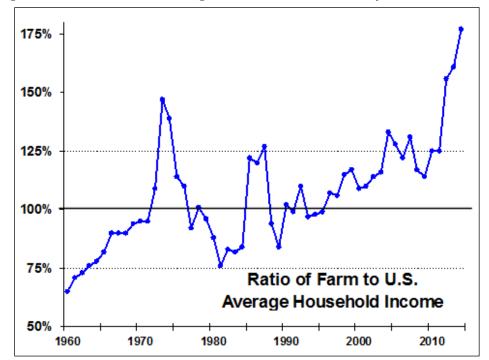


Figure 26. U.S. Farm vs. Average Household Incomes Expressed as a Ratio

Source: See above source note. 2014 is the last year with comparable data.

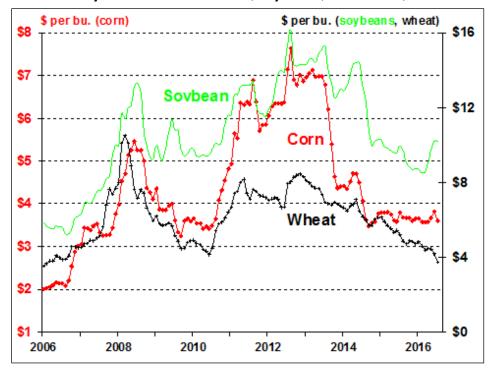
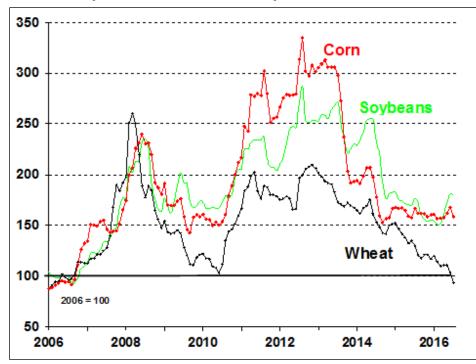


Figure 27. Monthly Farm Prices for Corn, Soybeans, and Wheat, Nominal Dollars

Source: USDA, National Agricultural Statistics Service (NASS), Agricultural Prices, August 31, 2016.

Figure 28. Monthly Farm Prices for Corn, Soybeans, and Wheat, Indexed Dollars



Source: NASS, *Agricultural Prices*, August 31, 2016; calculations by CRS. **Notes:** Prices are indexed to 2006 = 100 to permit relative comparisons.

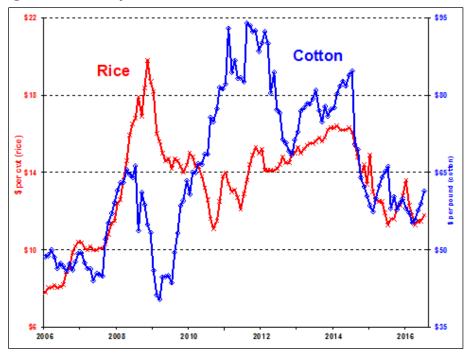


Figure 29. Monthly Farm Prices for Cotton and Rice, Nominal Dollars

Source: USDA, NASS, *Agricultural Prices*, August 31, 2016. **Notes:** cwt = hundredweight or units of 100 lbs.

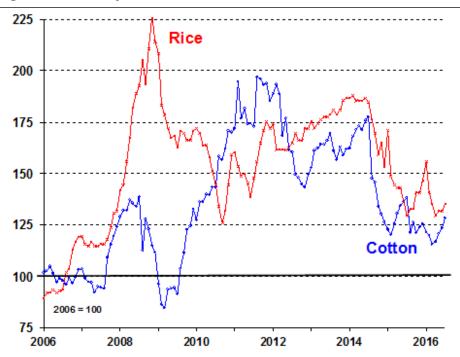


Figure 30. Monthly Farm Prices for Cotton and Rice, Indexed Dollars

Source: USDA, NASS, *Agricultural Prices*, August 31, 2016; calculations by CRS. **Notes:** Prices are indexed to 2006 = 100 to permit relative comparisons.

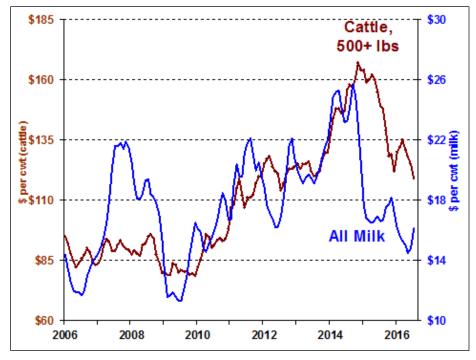
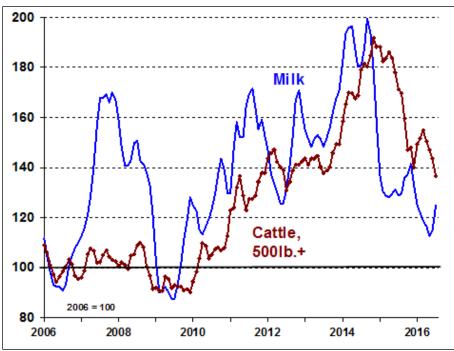


Figure 31. Monthly Farm Prices for All-Milk and Cattle (500+ lbs), Nominal Dollars

Source: USDA, NASS, *Agricultural Prices*, August 31, 2016. **Notes:** cwt = hundredweight or units of 100 lbs; All-Milk averages prices across all classes of milk.

Figure 32. Monthly Farm Prices for All-Milk and Cattle (500+ lbs), Indexed Dollars



Source: USDA, NASS, *Agricultural Prices* August 31, 2016; calculations by CRS. **Notes:** Prices are indexed to 2006 = 100 to permit relative comparisons.

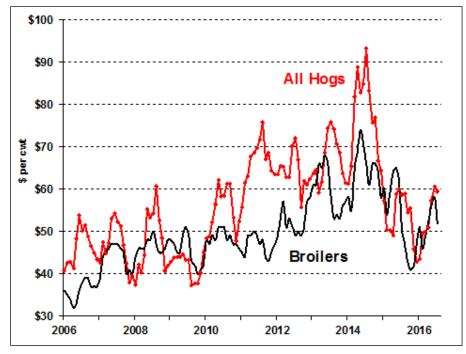
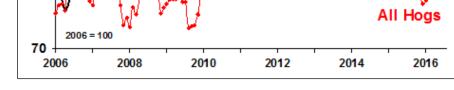


Figure 33. Monthly Farm Prices for All Hogs and Broilers, Nominal Dollars

Source: USDA, NASS, *Agricultural Prices*, August 31, 2016. **Notes:** cwt = hundredweight or units of 100 lbs.

220 Broilers 190 160

Figure 34. Monthly Farm Prices for All Hogs and Broilers, Indexed Dollars



Source: USDA, NASS, *Agricultural Prices*, August 31, 2016; calculations by CRS. **Notes:** Prices are indexed to 2006 = 100 to permit relative comparisons.

130

100

(\$ billions)											
ltem	2009	2010	2011	2012	2013	2014	2015	2016ª	Change (%)		
I. Cash receipts	291.6	321.2	365.8	401.4	403.6	424. I	379.2	353.4	-6.8%		
Crops⁵	171.6	180.4	201.1	231.6	220.9	211.3	189.4	182.3	-3.7%		
Livestock	120.0	140.8	164.8	169.8	182.7	212.8	189.8	171.1	-9.8%		
2. Government payments ^c	12.2	12.4	10.4	10.6	11.0	9.8	10.8	13.5	24.8%		
Fixed direct payments ^d	4.7	4.8	4.7	4.7	4.3	0.5	0.1	0.0	-100.0%		
CCP-PLC-ARC ^e	1.2	0.2	0.0	0.0	0.0	0.0	5.1	8.7	68.6%		
Marketing loan benefits ^f	1.1	0.1	0.0	0.0	0.0	0.1	0.2	0.5	138.0%		
Conservation	2.8	3.2	3.7	3.7	3.7	3.6	3.6	3.7	1.9%		
Ad hoc and emergency ^g	0.6	3.1	1.3	1.1	2.1	5.0	1.8	0.7	-64.1%		
All other ^h	1.7	1.0	0.7	1.1	0.9	0.7	0.0	0.0	-90.7%		
3. Farm-related income	23.6	20.0	30.8	39.2	41.0	36.6	34.4	33.7	-2.0%		
4. Gross cash income (1+2+3)	327.3	353.6	407.0	451.3	455.6	470.5	424.4	400.6	-5.6%		
5. Cash expenses ⁱ	253.0	257.3	283.6	316.0	320.0	338.9	315.9	306.5	-3.0%		
6. NET CASH INCOME	74.3	96.3	123.2	135.3	135.6	131.5	108.5	94.1	-13.3%		
7. Total gross revenues ^k	347.3	356.5	420.4	449.8	483.3	483.0	439.5	420.2	-4.4%		
8. Total production expenses ¹	283.0	279.4	306.9	353.3	360.1	390.4	358.8	348.7	-2.8%		
9. NET FARM INCOME	64.3	77.1	113.5	96.5	123.8	92.6	80.7	71.5	-11.5%		

Table I.Annual U.S. Farm Income Since 2009

Source: ERS, Farm Income and Wealth Statistics; U.S. and State Farm Income and Wealth Statistics, updated as of August 30, 2016.

- Data for 2016 are USDA forecasts. Change represents year-to-year projected change between 2016 and 2015. a.
- Includes Commodity Credit Corporation loans under the farm commodity support program. b.
- Government payments reflect payments made directly to all recipients in the farm sector, including landlords. The non-operator landlords' share is offset by its c. inclusion in rental expenses paid to these landlords and thus is not reflected in net farm income or net cash income.
- Direct payments include production flexibility payments of the 1996 Farm Act through 2001, and fixed direct payments under the 2002 Farm Act since 2002. d.
- CCP = counter-cyclical payments; PLC = Price Loss Coverage; and ARC = Agricultural Risk Coverage. e.
- Includes loan deficiency payments (LDP); marketing loan gains (MLG); and commodity certificate exchange gains. f.
- Includes payments made under the ACRE program which was eliminated by the 2014 farm bill (P.L. 113-79). g.
- Peanut quota buyout, milk income loss payments, and other miscellaneous program payments. h.
- Income from custom work, machine hire, agri-tourism, forest product sales, and other farm sources. i.
- Excludes depreciation and perquisites to hired labor. j.
- Gross cash income plus inventory adjustments, the value of home consumption, and the imputed rental value of operator dwellings. k.
- I. Cash expenses plus depreciation and perquisites to hired labor.

	(\$ per household)											
	2009	2010	2011	2012	2013	2014	2015	2016F				
Average U.S. Farm Income by Source												
On-farm income	\$6,866	\$11,788	\$14,625	\$25,038	\$30,639	\$31,025	\$24,717	\$21,647				
Off-farm income	\$70,302	\$72,671	\$72,665	\$86,486	\$90,48 I	\$103,140	\$94,777	\$97,242				
Total farm income	\$77,169	\$84,459	\$87,290	\$111,524	\$121,120	\$134,165	\$119,494	\$118,890				
Average U.S. Household Income	\$67,976	\$67,530	\$69,677	\$71,274	\$75,195	\$75,738	NA	NA				
Farm Household Income as Share of U.S. Avg. Household Income (%)	114%	125%	125%	158%	157%	174%	NA	NA				

Table 2. Average Annual Income per U.S. Household, Farm Versus All, 2009-2016F

Source: ERS, *Farm Household Income and Characteristics,* principal farm operator household finances, data set updated as of August 30, 2016, at http://www.ers.usda.gov/ data-products/farm-household-income-and-characteristics.aspx.

Note: NA = not available. Data for 2016 are USDA forecasts.

Table 3. Average Annual Farm Sector Debt-to-Asset Ratio, 2009-2016F

(\$ billions)										
	2009	2010	2011	2012	2013	2014	2015	2016F		
Farm Assets	2,131.5	2,170.8	2,318.7	2,638.2	2,776.1	2,949.2	2,910.0	2,846.1		
Farm Debt	268.3	278.9	294.5	297.0	315.3	346.4	356.9	354.2		
Farm Equity	1,863.1	1,891.9	2,024.2	2,341.2	2,460.8	2,602.8	2,553.1	2,491.9		
Debt-to-Asset Ratio (%)	12.6%	12.8%	12.7%	11.3%	11.4%	11.7%	12.3%	12.4%		

Source: ERS, *Farm Income and Wealth Statistics*; U.S. and State Farm Income and Wealth Statistics, updated as of August 30, 2016, available at http://www.ers.usda.gov/data-products/farm-income-and-wealth-statistics.aspx.

Note: Data for 2016 are USDA forecasts.

Commodity ^a	Unit	Year	2011/12	2012/13	2013/14	2014/15	2015/16F	2016/17F ^b	% Change from 2015/16 ^c	2017/18P ^b	% Change from 2016/17d	2015 Loan Rate ^e	2015 Refer- ence Price
Wheat	\$/bu	Jun-May	7.24	7.77	6.87	5.99	4.89	3.35-4.05	-24.3%			2.94	5.50
Corn	\$/bu	Sep-Aug	6.22	6.89	4.46	3.70	3.35-3.65	2.85-3.45	-10.0%	—	_	1.95	3.70
Sorghum	\$/bu	Sep-Aug	5.99	6.33	4.28	4.03	3.25-3.35	2.70-3.30	-9 .1%	—	_	1.95	3.95
Barley	\$/bu	Jun-May	5.35	6.43	6.06	5.30	5.52	4.55-5.35	-10.3%	—	_	1.95	4.95
Oats	\$/bu	Jun-May	3.49	3.89	3.75	3.21	2.12	1.60-2.00	-15.1%		_	1.39	2.40
Rice	\$/cwt	Aug-Jul	14.50	15.10	16.30	13.40	12.30	10.40-11.40	-11.4%		_	6.50	14.00
Soybeans	\$/bu	Sep-Aug	12.50	14.40	13.00	10.10	8.95	8.35-9.85	1.7%	—	_	5.00	8.40
Soybean Oil	¢/lb	Oct-Sep	51.90	47.13	38.23	31.60	29.50	29.50-32.50	5.1%	—	_	-	—
Soybean Meal	\$/st	Oct-Sep	393.53	468.11	489.94	368.49	325	305-345	0.0%	_	_	-	_
Cotton, Upland	¢/lb	Aug-Jul	88.3	72.5	77.9	61.3	58	57-69	8.6%		_	45-52	none
Choice Steers	\$/cwt	Jan-Dec	114.73	122.86	125.89	154.6	148.12	124-127	-15.3%	118-128	-2.0%	-	_
Barrows/Gilts	\$/cwt	Jan-Dec	66.11	60.88	64.05	76.0	50.23	47-48	-5.4%	42-45	-8.4%	-	_
Broilers	¢/lb	Jan-Dec	79.9	86.6	99.7	104.90	90.5	86-88	-3.9%	85-92	1.7%		_
Eggs	¢/doz	Jan-Dec	115.3	117.4	124.7	142.3	181.8	85-87	-52.7%	94-102	14.0%	-	
Milk	\$/cwt	Jan-Dec	20.14	18.53	20.05	23.97	17.12	16.25-16.45	-4.5%	16.15-17.15	1.8%	-	—

Table 4. U.S. Prices and Support Rates for Selected Farm Commodities Since 2011/12 Marketing Year

Source: Various USDA agency sources as described in the notes below.

a. Season average farm price for grains and oilseeds are from USDA, National Agricultural Statistical Service, Agricultural Prices. Calendar year data are for the first year, for example, 2000/2001 = 2000; F = forecast and P = projection from World Agricultural Supply and Demand Estimates (WASDE) August 12, 2016;—= no value; and USDA's out-year 2017/2018 crop price forecasts will first appear in the May 2017 WASDE report. Soybean and livestock product prices are from USDA, Agricultural Marketing Service (AMS): soybean oil—Decatur, IL, cash price, simple average crude; soybean meal—Decatur, IL, cash price, simple average 48% protein; choice steers—Nebraska, direct 1100-1300 lbs; barrows/gilts—national base, live equivalent 51%-52% lean; broilers—wholesale, 12-city average; eggs—Grade A, New York, volume buyers; and milk—simple average of prices received by farmers for all milk.

- b. Data for 2016/2017 are USDA forecasts; 2017/2018 data are USDA projections.
- c. Percent change from 2015/2016, calculated using the difference from the midpoint of the range for 2016/2017 with the estimate for 2015/2016.
- d. Percent change from 2016/2017, calculated using the difference from the midpoint of the range for 2017/2018 with the estimate for 2016/2017.
- e. Loan rate and reference prices are for the 2016/2017 crop year. See CRS Report R43076, The 2014 Farm Bill (P.L. 113-79): Summary and Side-by-Side.

Author Contact Information

(name redacted) Specialist in Agricultural Policy /redacted@crs.loc.gov, 7-....

EveryCRSReport.com

The Congressional Research Service (CRS) is a federal legislative branch agency, housed inside the Library of Congress, charged with providing the United States Congress non-partisan advice on issues that may come before Congress.

EveryCRSReport.com republishes CRS reports that are available to all Congressional staff. The reports are not classified, and Members of Congress routinely make individual reports available to the public.

Prior to our republication, we redacted names, phone numbers and email addresses of analysts who produced the reports. We also added this page to the report. We have not intentionally made any other changes to any report published on EveryCRSReport.com.

CRS reports, as a work of the United States government, are not subject to copyright protection in the United States. Any CRS report may be reproduced and distributed in its entirety without permission from CRS. However, as a CRS report may include copyrighted images or material from a third party, you may need to obtain permission of the copyright holder if you wish to copy or otherwise use copyrighted material.

Information in a CRS report should not be relied upon for purposes other than public understanding of information that has been provided by CRS to members of Congress in connection with CRS' institutional role.

EveryCRSReport.com is not a government website and is not affiliated with CRS. We do not claim copyright on any CRS report we have republished.