An Agricultural Update

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Personal consumption shares

Source: Bureau of Economic Analysis
U.S. agricultural productivity growth accounts for most of output growth between 1948 and 2011.

Total farm share of 17.2%
7th District Agriculture Products
(as % of U.S. total, 2017)

Source: Calculations based on data from USDA, National Agricultural Statistics Service
Real net farm income edged up in 2017, but is expected to be down in 2018.
Banks in 7th District Land Values and Credit Conditions Survey
Annual change in farmland values in 7th Federal Reserve District

Source: Federal Reserve Bank of Chicago
Farmland Value Indexes for 7th District States (1981=100)

Source: Federal Reserve Bank of Chicago
Index of Seventh District farmland values
(1981=100)

Source: Federal Reserve Bank of Chicago
Annual change in real farmland cash rents in 7th Federal Reserve District

Source: Federal Reserve Bank of Chicago
Indexes of 7th District Farmland
Values vs. Cash Rents
(Inflation Adjusted, 1981=100)

Source: Federal Reserve Bank of Chicago
7th District Crop Yield Indexes

(1964=100)

Source: USDA, National Agricultural Statistics Service
Real Cash Crop Prices

($/bushel for Central IL, adjusted by CPI-U for January 2010)

Corn production down from record in 2016/17

Source: USDA, National Agricultural Statistics Service
Growth in industrial demand (especially for ethanol production) surpassed feed demand for corn

Source: USDA, World Agricultural Outlook Board
Corn prices expected to be higher in 2018/19 as stocks tighten

Source: USDA, World Agricultural Outlook Board
Soybean production expected to be down from records of two previous years

Source: USDA, National Agricultural Statistics Service
Soybean exports expected to be up, while crushing projections are flat

Source: USDA, World Agricultural Outlook Board
Soybean prices expected to rise as stocks dip in 2018/19

Source: USDA, World Agricultural Outlook Board
Real USDA Livestock Prices

($/hundredweight, adjusted by CPI-U for January 2010)

Dairy exports and milk prices

Source: USDA, World Agricultural Outlook Board
The dollar’s exchange value has dipped since the start of 2017, boosting exports

(Real Broad Trade-Weighted Exchange Value of the US$)
{March 1973=100}

Source: Board of Governors of the Federal Reserve System
Real U.S. exports rising again, but more slowly than imports (billions of 2015 dollars, SA)

Sources: Bureau of Economic Analysis and Census Bureau
Value of agricultural exports rose in 2017, but expected to be about the same in 2018

Source: USDA, Economic Research Service
High-value agricultural exports outpaced more variable bulk exports, but both slowed.

Source: USDA, Economic Research Service
Growth in agricultural exports to NAFTA partners
(billion $)
But agricultural exports to China caught up
(billion $)
## Agricultural exports by regional states
(2016 in million $)

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<tbody>
<tr>
<td><strong>Total (rank)</strong></td>
<td>134,242</td>
<td>10,608</td>
<td>8,345</td>
<td>4,604</td>
<td>2,044</td>
<td>2,898</td>
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<td><strong>Soybeans</strong></td>
<td>22,819</td>
<td>3,113</td>
<td>3,205</td>
<td>1,706</td>
<td>564</td>
<td>532</td>
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<td><strong>Corn</strong></td>
<td>9,890</td>
<td>1,747</td>
<td>1,558</td>
<td>678</td>
<td>229</td>
<td>282</td>
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<td><strong>Pork</strong></td>
<td>5,936</td>
<td>1,999</td>
<td>382</td>
<td>319</td>
<td>97</td>
<td>31</td>
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<tr>
<td><strong>Dairy</strong></td>
<td>4,703</td>
<td>113</td>
<td>43</td>
<td>91</td>
<td>223</td>
<td>683</td>
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Source: USDA, Economic Research Service
U.S. agricultural trade value forecast to 2027

Source: USDA, Interagency Agricultural Projections Committee
Global corn exports

Million metric tons

Source: USDA, Interagency Agricultural Projections Committee
Global soybean exports

Million metric tons

- Other
- Brazil
- Argentina
- Other South America
- United States

Source: USDA, Interagency Agricultural Projections Committee
Real farm sector assets and equity still at levels above prior peak

Source: USDA, Economic Research Service

*USDA forecast
Farm loan volume with “major” or “severe” repayment problems in 7th Federal Reserve District (fourth quarter of year)

Source: Federal Reserve Bank of Chicago
Index of agricultural loan demand for the 7th Federal Reserve District (excluding real estate)

Source: Federal Reserve Bank of Chicago
Interest rates charged on new farm loans in the 7th Federal Reserve District

Source: Federal Reserve Bank of Chicago
The Federal Funds Rate is anticipated to be near the neutral rate by the end of 2019.

Source: Board of Governors of the Federal Reserve System.