2017 Corn School

Corn Marketing and Price Update

Olathe, Kansas

January 13, 2017

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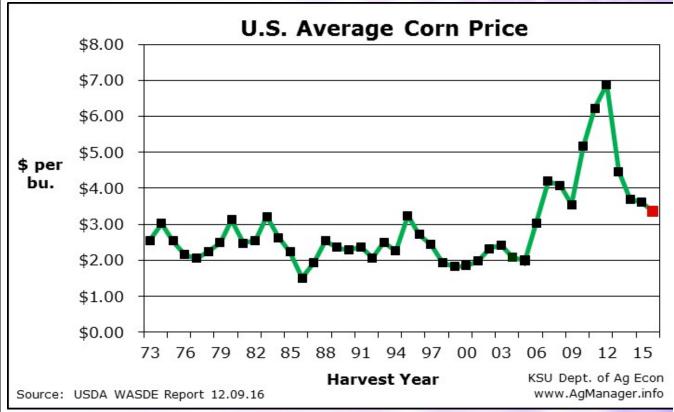


Current Situation

- Low grain prices, due primarily to huge grain supplies in the U.S. and world.
- Strong dollar and rising interest rates, limiting exports and increasing costs.
- Political and economic uncertainty, in the U.S., Europe (Brexit), and other parts of the world (India, Brazil, China).
- Limited expansion in corn used for ethanol.
- Lower Chinese feedgrain imports.
- Lower cattle prices in the U.S. since early 2016, slowing herd expansion.



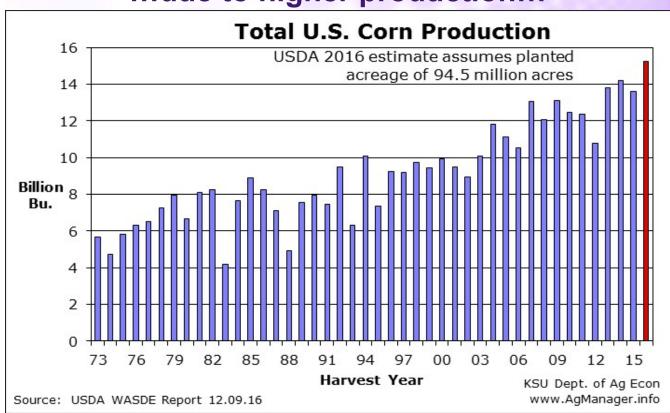
Lower prices...



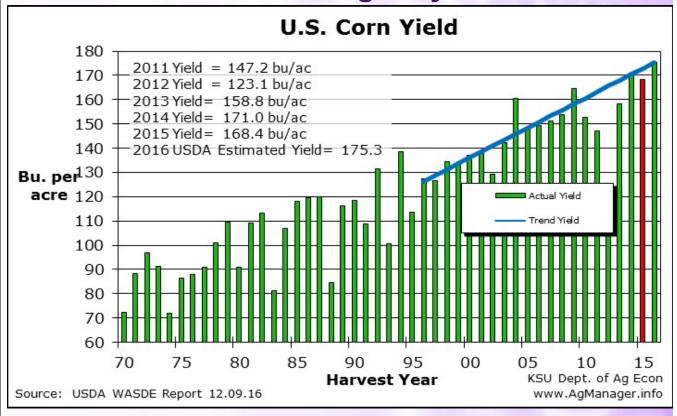
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...due to higher production...



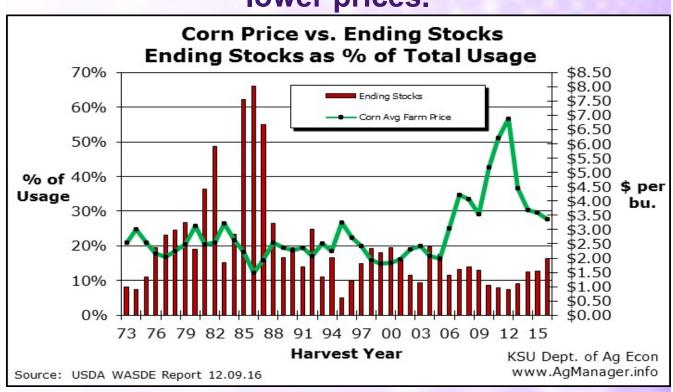
...because of higher yields...



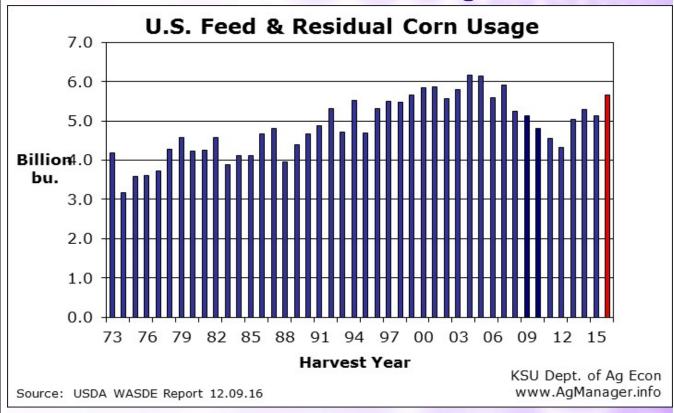
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...creating larger stocks which cause the lower prices.



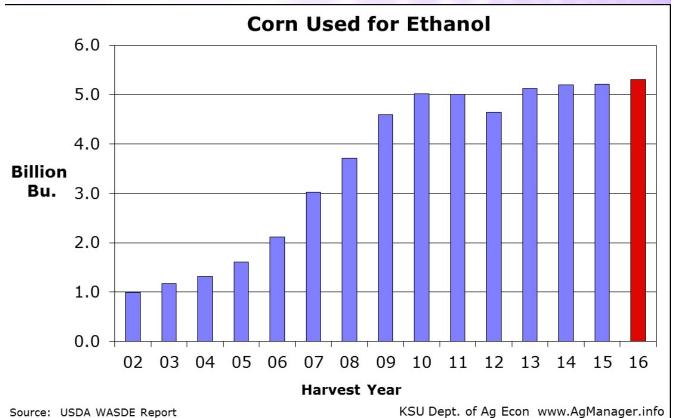
Meanwhile...feed usage...



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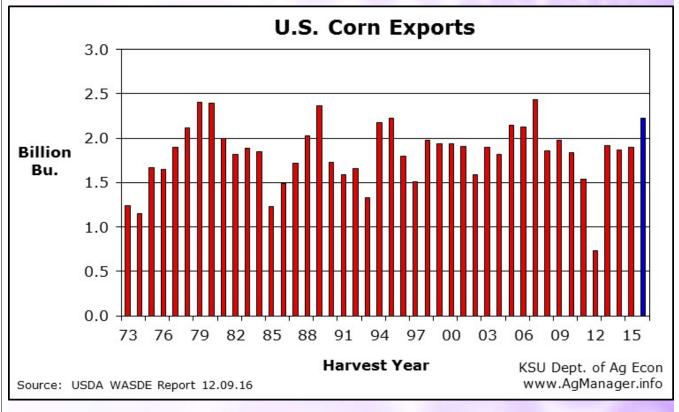
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...and corn used for ethanol...



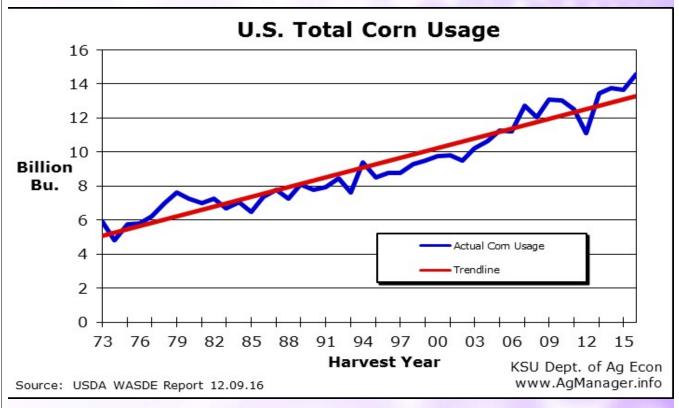
ource: USDA WASDE Report

...and exports...





...aren't keeping up with production

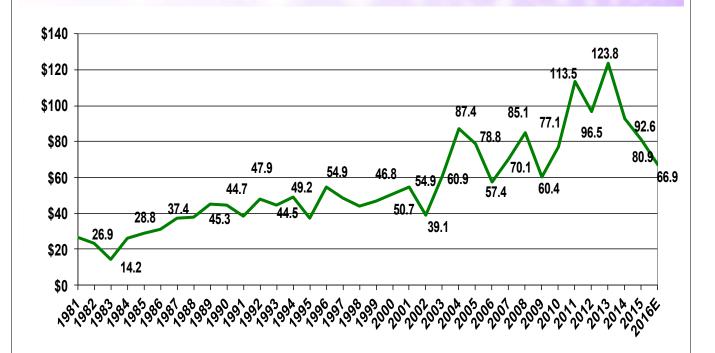


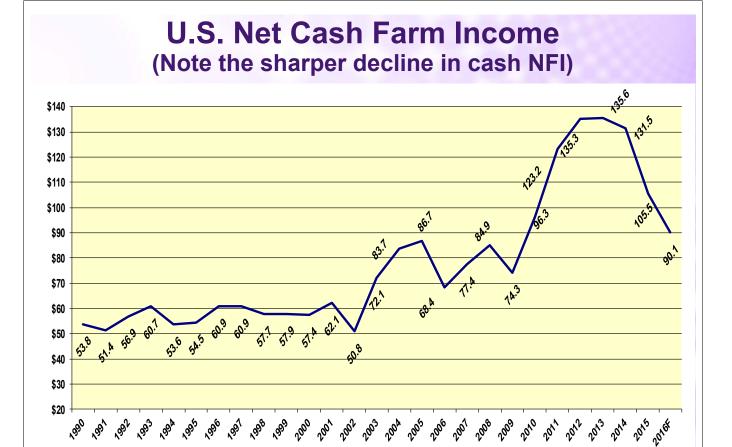
Costs of Production and Profitability

- Average costs of production for corn have increased a lot since the last period of low corn prices: seed, fertilizer, machinery costs, rental rates.
- Most of these costs have not declined as quickly as commodity prices, adding to the squeeze now.
- Large decline in profitability.

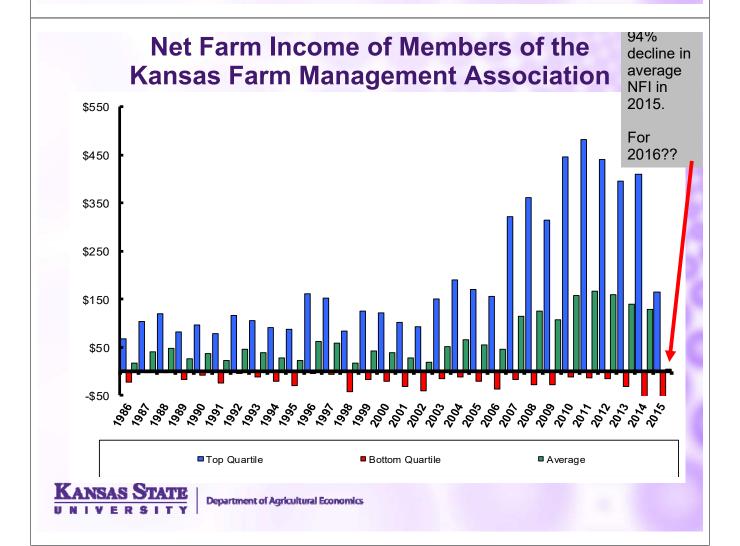


U.S. Net Farm Income









Managing Costs and Profitability

	High 1/3	Mid 1/3	Low 1/3 \$/acre	
Corn - 2015	\$/acre	\$/acre		
Returns				
Yield	124.70	109.00	117.00	
Price	3.49	3.46	3.40	
Total Returns	435.20	377.14	397.33	
VARIABLE COSTS				
Fertilizer/Lime	64.26	79.38	103.22	
Seed	59.72	60.03	72.85	
Chemicals	38.84	43.50	61.63	
Machinery - hired	5.95	7.65	18.25	
Other variable costs	87.32	113.72	119.86	
Total variable costs	256.09	304.28	375.81	
FIXED COSTS				
Depreciation	36.67	38.74	47.07	
Unpaid Operator Labor	35.95	31.97	48.51	
Land Charge	18.99	26.95	32.57	
Other fixed costs	26.21	26.08	38.88	
Total Fixed Costs	117.82	123.74	167.03	
Total Costs	373.91	428.02	542.84	
Returns over TC	61.293	-50.88	-145.508	



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Source: Kansas Farm Management Association, 2016. www.AgManager.info/kfma

Managing Costs and Profitability

- Reducing variable inputs (fertilizer, chemicals, seed) generally reduces production. Do you really want to do that?
- Possible ways to reduce variable costs:
 - · Efficient fertility usage:
 - Apply fertilizers at a rate determined by soil tests. Soil sampling needed to optimize input use without affecting yields. Don't ignore pH (lime).
 - Input pricing: early buying, generics, bulk
 - Ask for bids from multiple dealers for seed (negotiate). Buy from same dealer (bulk discount).
 - · Offer full cash up front to avoid finance charges
 - Buy before cut-off date in the fall (early buy discount)
 - Field management scouting for most effecting use, timing of application.
 - What keeps you from getting out in the field when you need to?
 - Custom hire operations may be less efficient if they are not timely (need to wait for them apply it, especially during wet weather times).



Managing Costs and Profitability

- · What about reducing fixed costs?
 - Machinery: Lengthen repayment periods? Liquidate assets (without changing operation)?
 - Land payments, cash rents: can these be reduced? Lengthen payment periods? Re-negotiate leases?
 - Family living withdrawals: not as visible but very important.
- · Other possibilities:
 - Defer capital purchases (repair instead of replace)?
 - Off-farm income?
 - Trade equipment/labor?
 - · Change enterprise mix?
- A few other notes:
 - · Communicate with landlords/tenants.
 - Need good data/records for making these decisions: costs, yields, soil fertility, etc.
 - Keep a <u>monthly</u> accrual balance sheet: track monthly changes in inventory, assets, liabilities and net worth.

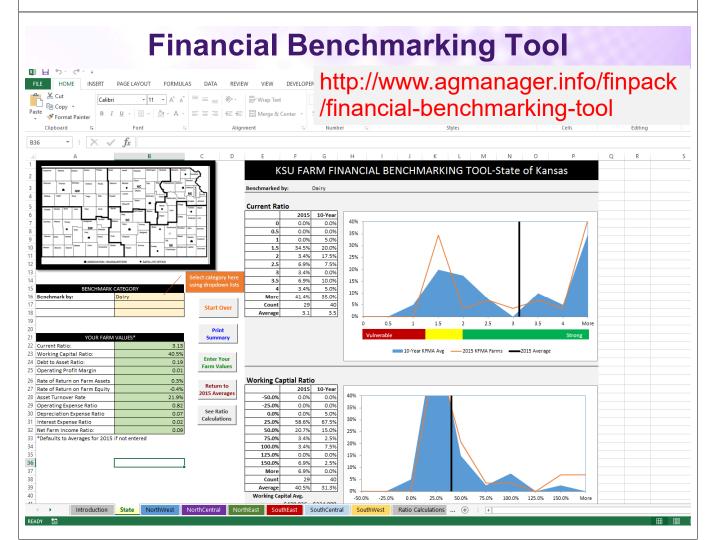


Resources for Managing Costs and Profitability

- KSU Farm Management Guides
 - http://www.agmanager.info/farm-management-guides-0
- KSU Financial Benchmarking Tool
 - Robin Reid: robinreid@ksu.edu or 785.532.0964
 - http://www.agmanager.info/finpack/financialbenchmarking-tool
- Kansas Ag Mediation Service (KAMS)
 - http://www.ksre.k-state.edu/kams or 800.321.3276
- USDA FSA: Guaranteed loans



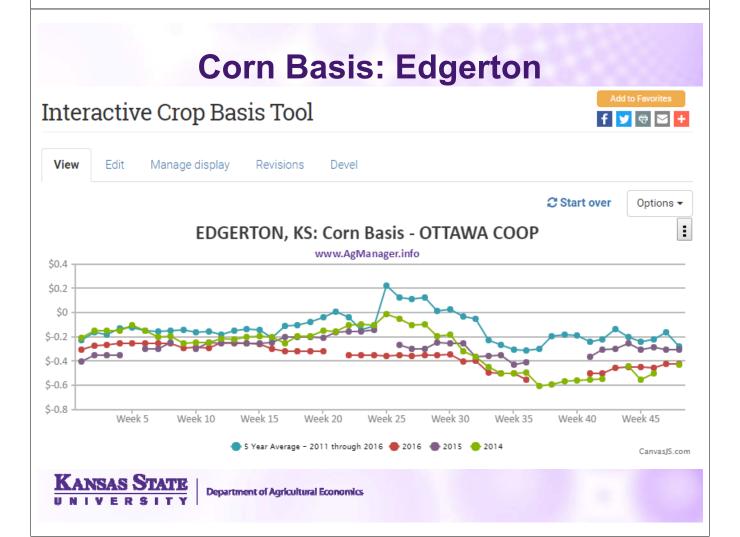
2017 Corn Cost-Return Budget in North						Summary page		
Gregg Ibendahl, Dan O'Brien, and Stewart	Duncan			Budg	Budget date: Oct-01-2016			
em	unit	price	quantity	amount	Sub-total	your farm		
COME								
Product								
Corn - Northeast KS	bu	\$3.60	137.0000	\$492.75	\$492.75			
TOTAL INCOME					\$492.75			
(PENSES								
Fertilizers								
Lime	lb	\$0.01	500.0000	\$5.00				
Nitrogen	lb		138.0020	\$37.11				
Phosphorus	lb	\$0.33	47.9780	\$15.77				
Potassium	lb	\$0.25	34.0200	\$8.52	\$66.41			
Herbicides								
Burndown				\$11.03				
Post-emergence				\$3.74				
Pre-emergence				\$19.38	\$34.15			
. To onlongering				Ψ10.00				
Seeds					\$82.89			
Crop insurance					\$17.77			
Miscellaneous					\$8.50			
Labor (beyond custom field operations)					\$30.00			
Custom Field Operations								
Fertilizer application				\$21.20				
Harvesting				\$38.75				
Hauling				\$23.19				
Planting				\$22.17				
Spraying				\$20.28	\$125.60			
Interest on operating capital	6% on d	irect expens	ses	\$10.96	\$10.96			
Cash rent					\$101.00			
TOTAL SPECIFIED EXPENSES					\$477.27			
TURNS ABOVE TOTAL SPECIFIED EXPENSES					\$15.48			



Grain Basis Issues

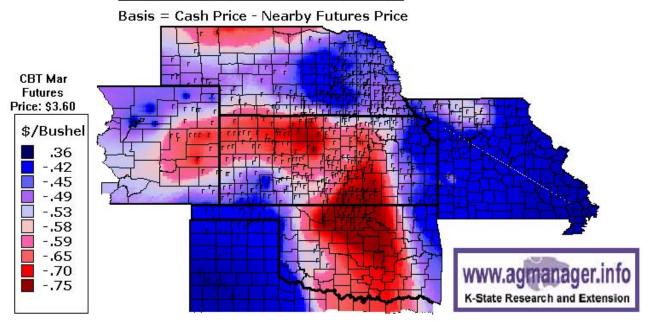
- Historically weak basis for grains due to large production and supplies.
- Non-convergence of cash and futures prices, particularly in the wheat market, makes hedging less useful.
- Inability to deliver on futures contracts is often not understood. Farmers generally CANNOT deliver on a futures contract due to difficulty in obtaining a warehouse receipt.
- On-farm storage may be one strategy to gain a better price. But is a longer-term solution.





Basis Maps on AgManager.info

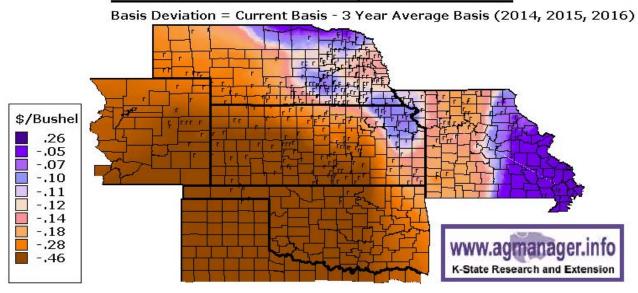
Corn Basis, 01-04-2017





Basis Deviation Maps: AgManager.info

Corn Basis Deviation, 01-04-2017





USDA Reports

- USDA Outlook Forum: Feb. 23-24, 2017
- USDA provides a variety of reports on agricultural commodities at daily, weekly, monthly, quarterly, and annual intervals.
 - Crop reports, including supply-demand info, planting intentions, stocks and inventory, and crop condition reports, among others.
 - Livestock reports, including animal inventories, slaughter, cold storage, on-feed, among others.
- January is the biggest report period of the year for crops.
 - Crop Production Annual Summary
 - Quarterly Grain Stocks
 - First quarter estimated usage is documented in the stocks report.
 - · Winter Wheat Seedings
 - January WASDE reports.
 - · First "final" yield for the corn and soybeans



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USDA Reports

- Other "Big" Reporting Times
 - End of March: Planting Intentions report and Quarterly Stocks reports.
 - End of June: acreage report (reporting actual plantings, based on early June survey)
 - Mid-August: first expected yield report for summer crops, based on field surveys.
 - End of September: small grains summaries (including wheat) and quarterly stocks report, with ending MY inventories for summer crops.



Useful Sites for Crop Reports

- WASDE (World Ag Supply and Demand Estimates)
 - www.usda.gov/oce/commodity/wasde
- Crop Progress and Conditions
 - http://www.nass.usda.gov/Publications/State_Crop_Progress_and_Condition/
- Prospective Plantings:
 - http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1136
- Winter Wheat Seedings:
 - http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1188
- Small Grain Summaries:
 - http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1268
- Quarterly Grain Stocks Reports:
 - http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1079
- June Acreage Report:
 - http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1000



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USDA WASDE Report

- WASDE (World Agricultural Supply and Demand Estimate)
 - Released between 9th and 12th of each month at noon ET (11 am CT).
 - http://www.usda.gov/oce/commodity/wasde/
- A Balance-Sheet Approach
 - Supply: Beginning stocks, Production & Imports
 - <u>Use</u>: Food, seed and industrial use, Exports, Feed+Residual
 - Ending Stocks
 or carryout stocks
 - Prices: U.S. average cash price projections (by marketing year)



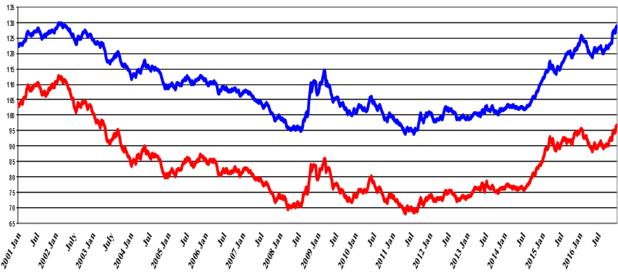
A Quick Look at January 12 WASDE Report

- Corn: (neutral: prices up about \$0.01 on report day)
 - 2016 crop: 15.1 bbu, down 78 mb from December estimate due to slightly lower average yield (174.6, down from 175.3). Still the largest crop on record.
 - · Quarterly stocks: 12.38 bbu, also a record.
- Soybeans: (bullish effect: prices up about \$0.28 on report day on nearby contracts; up \$0.18 on harvest contract)
 - 2016 crop: 4.307 bbu, 1.2% lower than December estimate.
 - Quarterly stocks: 2.895 bbu. Ending stocks projected at 420 mbu, down 60 mbu from last month.
- Wheat: (bullish effect: prices up about \$0.14 on report day)
 - 2016 crop: 2.31 bbu.
 - Lower planted acreage for 2017 crop: 32.4 million acres (down from 36.1 million acres the previous year, the lowest since 1909).
 - Dec. 1 stocks: 2.073 bbu. Ending stocks projected at 1.194 bbu, keeping stocks:use at about 50%.



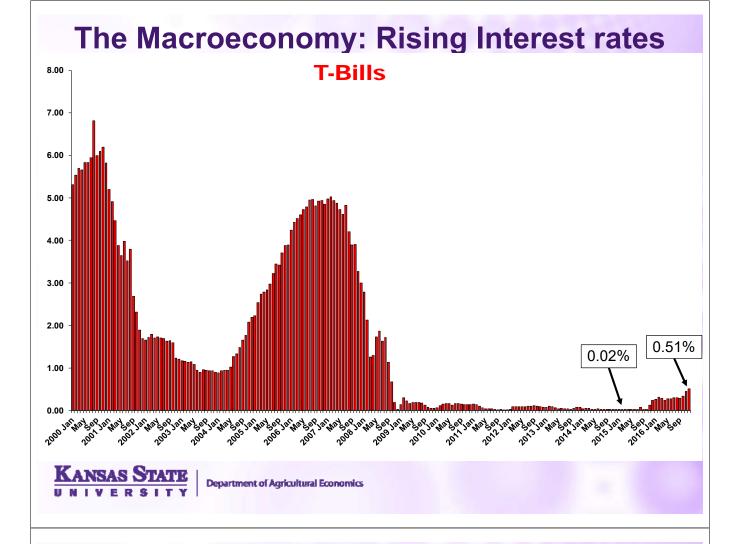
The Macroeconomy: Strong Dollar

<u> 2016 Major</u>			<u>2016 Broad</u>	
Dec 7	94.31	Dollar's Trade-Weighted Exchange Index	Dec 7	126.95
Dec 14	94.50		Dec 14	126.76
Dec 21	96.30	Weekly Values	Dec 21	128.41
Dec 28	96.61	•	Dec 28	128.79



The major currency index is comprised of 7 currencies. The broad index is comprised of the major currency index plus 19 additional currencies





Planting Prospects for 2017

- U.S. corn acres likely about the same. Corn acres in Brazil and Argentina may be lower.
- More soybeans likely for U.S. and South America.
- Soybean:Corn price ratio for 2017 futures
 harvest contracts = 2.55 (greater than 2.50,
 suggesting more soybeans in the US, relatively).
 - But down from 2.68 in November, 2016. What will it be at planting time?
 - Keep in mind the basis issues. What will cash prices be at harvest?



Farm Bill and Policy Issues

- · Changes to crop insurance?
 - EWG and Heritage opposition to revenue insurance
 - Means testing/payment limits?
 - Removal of Harvest Price Option?
 - Reduction in subsidies for crop insurance?
- Conservation tied to crop insurance?
- Changes to ARC/PLC? Elimination and replacement with disaster programs? Unlikely, but could happen.
- WOTUS (Waters Of The US):. Could have large effect on agriculture if implemented, but could be killed by new administration.
- Separation of nutrition and farm programs?
- GMO labeling?



Policy Possibilities in the Next Administration

- Immigration ???
- Death of TPP and possible changes to NAFTA
- RFS: continue?
- Capital gains taxes: 20% maximum.
- Income taxes: limit deductions for higher brackets; charitable and mortgage interest deductions continue. Rates=10, 20, 25 percent?
- · Business taxes on international profits
 - 35% reduced to 14%? Amnesty?
- Continued increasing interest rates?
- ???????????????????????????????



Summary and What to Do?

- Commodity prices will likely not recover much in the next year or two unless there is a large crop failure somewhere (hopefully not here).
- Manage costs, particularly fixed costs and living expenses.
 - Be careful of cutting variable costs. Production is still important!
- Manage basis: On-farm storage? Weak basis means short hedge or forward contact might not work as well as before. Inability to deliver means short position lacks leverage.
- Keep track of grain stocks and usage: WASDE.
- Watch movement of the dollar strong dollar hurts exports.
- · Keep an eye on the policy debates in Washington.



Thank you! Questions?

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